City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

Meeting Agenda

Tuesday, February 21, 2017

4:00 PM

Council Chambers

City Council

I. Call to Order

II. Call to Prayer and Pledge of Allegiance

III. Agenda Order

IV. Approval of Minutes for the January 3, 5, 17, 18, 20, 23, 29 and 30, 2017, City Council meetings.

V. PRESENTATION AGENDA

VI. POLICY AGENDA

VI.1. 2017-236 Adopt an Ordinance establishing a new Land Development Code and repealing Ordinance Number 2330, adopted 12-05-1989, and all subsequent amendments thereto and any other ordinances in conflict therewith.

1. Ordinance - New LDC
2. Hattiesburg, Mississippi Revised Land Development Code - Council Adoption Version 12.9.16 (1)
3. February PC Minutes (draft)
4. Staff Summary - New LDC
5. City Council Minutes 11-28-16 SC

VI.2. 2017-258 Adopt an Ordinance amending Ordinance No. 3148, Adopted 12-16-14, amending the regulations for possession or consumption of alcoholic beverages, beer or light wine in certain places and creating exceptions for special events; and adding chapter 3-9, to include Chain Park as part of the Downtown area.

1. ORD - Possession and Consumption of Beer and Light Wine
2. Downtown Map

VI.3. 2017-255 Adopt the February 21, 2017 Amendments to the Budget for the City of Hattiesburg for the fiscal year ending September 30, 2017 and adopt resolution authorizing publication of amendments for funds in excess of 10% of the original appropriation fund balance.

1. Resolution
2. Worksheet
3. Urban Development Employee Request
4. Published Budgets
5. Memo

VI.4. 2017-238 Adopt a Resolution authorizing submission of grant application to Mississippi Department of Wildlife, Fisheries and Parks for the 2017 MDWFP-Recreation Trails Program in the amount of $120,000.00 to fund refurbishment of .51 mile trail at Tatum Park that will serve as the trailhead for additional trail development; grant requires the city to provide $35,555.56 in matching funds.

1. 2017 MDWFP-RTP Grant Application
2. MDAH Letter
3. Tatum Trail Cover Letter
4. Recreational Trails Resolution

VI.5. 2017-252 Adopt a Resolution authorizing Requisition No. 2 from the Project Fund Construction Account in connection with certain loan agreement, dated as of August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.

1. 2016 Bond Resolution No. 2

VI.6. 2017-253 Adopt a Resolution authorizing Requisition No. 64 from the Project Fund Construction Account in connection with certain loan agreement, dated as of December 19, 2013, by and between the Mississippi Development Bank and the City of Hattiesburg.

1. 2013 Bond Resolution No. 64

VI.7. 2017-245 Approve the sole source purchase of the RULETC Training Lab Use of Force Training Simulator from Ti Training Corp for the Hattiesburg Police Department in the amount of $22,900.00 as a sole source purchase per section 37-7-1 of the Mississippi Code of 1972 as amended; Ti Training Corp is the sole manufacturer and exclusive distributor of this system.

1. Ti Training - Sole Source

VI.8. 2017-219 Approve or Deny the Transfer of $50,000.00 from HOME Residential Rehabilitation funds to be transferred to Tenant Based Rental Assistance funds to assist with disaster recovery. {Entitlement HOME}

1. Policy and/or Procedure Changes to Use of HOME funds for Disaster Recovery
2. CDBG- Fact Sheet

VI.9. 2017-244 Approve and Authorize Mayor to execute, in duplicate, an agreement between the City of Hattiesburg and Shows, Dearman & Waits, Inc. to provide professional services for the COMSWIP Water Plant #1 Rehabilitation Project (1273-W015).

1. Agreement

VI.10. 2017-247 Authorize Mayor to execute railroad bore applications for the COMSWIP Sanitary Water Upgrades-Phase II project; Approve application fees for Bore No. 1, 3 & 4 to Kansas City Southern Railway for $2,000.00 each and Bore No. 2 to Canadian National for $750.00.

1. Letter
2. Vicinity Map
3. Bore No. 1 App
4. Bore No. 2 App
5. Bore No. 3 App
6. Bore No. 4 App

VI.11. 2017-246 Authorize Mayor to execute Memorandum of Agreement for the Educational and Community Outreach Program between the City of Hattiesburg and the University of Southern Mississippi in duplicate, for a period beginning March 1, 2017 and ending February 28,2018(Agreement GM000673, Amendment No.12) as authorized by MS Code 39-15-1 to allow municipalities to expend monies for the arts.

1. USM Agreement- GM000673

VI.12. 2017-233 Authorize Mayor to execute duplicate original agreement between City of Hattiesburg Parks and Recreation Department and Hattiesburg Exchange Club/Dixie Youth Inc. to operate and promote Dixie Youth Baseball for Hattiesburg residents from October 1, 2016, through September 30, 2017.

1. 2016-2017 Dixie Youth Baseball Contract
2. Contract Documents

VI.13. 2017-234 Authorize Mayor to execute duplicate original contract between City of Hattiesburg Parks and Recreation Department and Michelle Williams, for the Management Operation of the City of Hattiesburg Summer Aquatic Program.

1. Michelle Williams Pool Contract 2017

VI.14. 2017-251 Authorize Mayor to execute a HOME Program Downpayment Assistance Award in the amount of $6,102.00 to Simon Beveridge and Beverly Hutto and authorize issuance of a manual check for the same, per attached memorandum. {Entitlement}

1. DPA - SBeveridge & BHutto

VI.15. 2017-256 Declare Purchase Order to Jefcoat Fence of Hattiesburg for Fencing Repairs due to 2017 Tornado as Emergency Purchase per Mississippi Code 31-7-13(k); authorize payment in amount of $ 33,654.92 upon receipt of invoice.

1. Jefcoat Fence of Hattiesburg

VI.16. 2017-257 Declare Purchase Order to Chain Electric Company for Water Plant Pump #2 Repairs needed due to 2017 Tornado as Emergency Purchase per Mississippi Code 31-7-13(k); authorize payment in amount of $ 25,170.00 upon receipt of invoice.

1. Chain Electric Company

VI.17. 2017-249 Declare the following Purchase Order as Emergency Purchase per Mississippi Code 31-7-13(k): Eddie Pearson Roofing, Inc. in the amount of $27,842.25 for roofing repairs to Water Plant due to damage by 2017 Tornado; authorize payment upon receipt of invoice.

1. Eddie Pearson Roofing, LLC

VII. ROUTINE AGENDA

VII.1. 2017-259 Acknowledge receipt of monthly budget report for the month ending January 31, 2017, on permanent file in the City Clerk's Office.

1. Expenditure 1-31-17
2. Revenue 1-31-17

VII.2. 2017-250 Acknowledge receipt of the unadvertised bid docket for the period of January 9, 2017 through February 13, 2017, as provided for in Section 37-1-13(b) of the Mississippi Code 1972.

1. UAB Memo
2. UAB Docket Jan 9 - Feb 13, 2017

VII.3. 2017-241 Approve publication setting a Public Hearing for the 2016 Consolidated Annual Performance Evaluation Report (CAPER) for March 9, 2017 at 5:30 p.m. at the C.E. Roy Community Center and establishing a Public Comment period to conclude on March 13,2017. {Entitlement}

1. Notice of Availability, Public Hearing and Public Comment Period

VII.4. 2017-242 Acknowledge bids received February 2, 2017, for the Gordon's Creek-Depot District Buschman Street to River Avenue Project, and review the bids to confirm whether the bidders meet the Prequalification requirements as set forth in Item Number 4 of the Instructions to Bidders before considering the bids and awarding the contract.

1. Letter
2. Precision Bid
3. Twin L Bid
4. Floore Bid
5. Bid Tab
6. Instructions to Bidders

VII.5. 2017-240 Approve plans and specifications for the Comprehensive Sewer Improvements Phase V Project; Authorize advertisement for bids for same.

1. Plans
2. Specifications
3. Bid Advertisement

VII.6. 2017-185 Approve Specifications and Authorize Publication of Advertisement for Term Bid Item 4 Athletic Uniforms for the City of Hattiesburg Parks and Recreation Department, Term Bid beginning April 1, 2017.

1. ITEM 4 NOTICE TO BIDDERS
2. ITEM 4 SPECIFICATIONS

VII.7. 2017-188 Approve Specifications and Authorize Publication of Advertisement for Term Bid Item 31 Uniform Rental Service General, Term Bid beginning April 1, 2017.

1. Item 31 Notice to Bidders
2. Item 31 Specifications

VII.8. 2017-243 Approve plans and specifications for the Infrastructure Improvements Along South 31st Avenue, South 30th Avenue, Chevy Chase Drive, and Hardy Street Project; Authorize advertisement for bids for same.

1. Plans
2. Specifications
3. Bid Advertisement

VII.9. 2017-248 Approve plans and specifications for the Lake Forgetful Road Project; Authorize advertisement for bids for same.

1. Plans
2. Specifications
3. Bid Advertisement

VII.10. 2017-235 Approve the sale of Grave Spaces, per attached memo.

1. Grave Space Memo
2. Deeds(02-13-17)
3. Receipts (02-13-17)

VII.11. 2017-254 Approve claims docket for the period ending February 17, 2017.

1. DOCKET 17.02.17 edited

Prepared by: City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, MS 39403-1898
(601)545-4550

Return to: City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, MS 39403
(601)545-4550

INDEXING INSTRUCTIONS:

ORDINANCE NUMBER _____

OF THE

CITY OF HATTIESBURG, MISSISSIPPI

AN ORDINANCE ESTABLISHING A NEW LAND DEVELOPMENT CODE AND REPEALING ORDINANCE NUMBER 2330, ADOPTED 12-05-1989, AND ALL SUBSEQUENT AMENDMENTS THERETO AND ANY OTHER ORDINANCES IN CONFLICT THEREWITH.

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI:

SECTION 1. That the Comprehensive Zoning Ordinance No. 2330, as amended, of the City of Hattiesburg, Mississippi, is hereby repealed, and to hereinafter replaced by the proposed 2016 Land Development Code.

SECTION 2. That this Ordinance take effect and be in force thirty (30) days from and after passage as provided by law.

The foregoing Ordinance having been reduced to writing, the same was introduced by Councilmember _____ seconded by Council member and was adopted by the following vote to-wit:

YEAS: NAYS:

THE President thereby declared the motion carried and the foregoing Ordinance adopted and approved, this the_____day of_____ A.D., 2017.

(S E A L)

ATTEST: ADOPTED:

_____ _____

CLERK OF COUNCIL PRESIDENT

THE above and foregoing Ordinance having been submitted to and approved by the Mayor, this the_____day of_____ A.D., 2017.

ATTEST: APPROVED:

_____ _____

CITY CLERK MAYOR

Hattiesburg, Mississippi
Land Development Code

Final Adoption Version 12.09.16

Final Adoption Hearing Version

December 9, 2016

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SECTION 1. INTENT AND PURPOSE

1.1 Intent and Purpose.

The intent and purpose of this Land Development Code is to:

- promote the health, safety and welfare of the citizens of the City of Hattiesburg, Mississippi;`
- provide long term benefits by establishing procedures and standards to be followed in the development and redevelopment of land;
- promote economic development and diversification within the City;
- protect and enhance Hattiesburg's natural environment;
- maintain the aesthetics and historic character of the City;
- implement the City of Hattiesburg Comprehensive Plan 2008 - 2028, as amended;
- ensure the coordination of land uses, utilities and transportation facilities;
- ensure quality design and construction of residential, business, industrial and agricultural developments;
- assist in the coordination and efficiency of governmental actions within the City; and
- enable the City of Hattiesburg to uniformly and consistently evaluate and approve, as appropriate, new development proposals, land subdivision, changes to existing uses, and redevelopment proposals.

1.2 Statutory Authorization.

The Legislature of the State of Mississippi has, in Title 17, Chapter 1, Section 17-1-1 through 17-1-27 of the Mississippi Code, annotated, 1972, as amended, delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizens. Therefore be it ordained by the Governing Authority of the City of Hattiesburg, Mississippi, that the Land Development Code Establishing Zoning Districts and Regulations for Land Development and Land Subdivision in the City of Hattiesburg be established.

1.3 Relationship to the Comprehensive Plan.

The Land Development Code is intended to implement and be consistent with the goals and strategies of the City of Hattiesburg Comprehensive Plan 2008-2028. Any amendments to this Code shall be consistent with the adopted Comprehensive Plan, as amended from time to time.

1.4 Title.

This code shall be known as the City of Hattiesburg Land Development Code and may be cited as "Land Development Code" or "LDC."

1.5 Interpretation.

This Code sets the minimum requirements necessary for the promotion of the health, safety and welfare of the citizens of Hattiesburg. In many instances, the public is best served when such minimums are exceeded.

2.5.1 In those instances when other applicable laws, rules or regulations of the city, county, state or federal government contain standards covering the same subject matter, the more restrictive requirements or higher standards will govern.

1.5.2 The provisions of this Code are interrelated and cannot be taken in isolation. All provisions and regulations must be taken within the context and intent of the entire Code.

1.5.3 The provisions of this Land Development Code will be interpreted and enforced by the Director of Urban Development unless otherwise specified (as in the case of variance and appeals requests), or by his or her designee, unless otherwise specified in this Code.

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1.6 Scope of Regulations.

The provisions of this Land Development Code shall apply to all territory, uses and facilities within the City of Hattiesburg, to all public and private lands, the uses on those lands and all structures, buildings, features and landscaping over which the City has jurisdiction.

1.6.1 New land uses or development within the City will not be allowed to proceed without first obtaining approval under the provisions of the Land Development Code.

1.7 Severability.

The provisions of the Land Development Code are severable. If a court declares any provision invalid, the effect of such decision will be limited to that provision which is expressly stated in the decision to be invalid. Such decision will not affect, impair or nullify this Code as a whole or any other part thereof.

1.8 Effective Date.

The provisions of this Land Development Code shall become effective [month/day/2016].

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SECTION 2. APPLICABILITY AND CONFORMITY

2.1 General Applicability.

No building, structure (including signs), or land shall be used, graded, excavated, occupied, or altered; nor shall any building, structure, or part thereof be erected, constructed, reconstructed, moved, enlarged, or structurally altered; nor shall any changed use be established for any building, structure, or land, unless in conformity with the general provisions of this Code and the specific provisions for the district in which it is located, except as otherwise provided by these regulations. If a building or certificate of zoning compliance is required for any of these activities, it must be lawfully obtained prior to commencement of such activity. No principal or accessory structure used for bona fide farm purposes and located more than 250 feet from the nearest property line abutting a residential use shall be subject to the design, height, or size requirements specified in this Code for such.

2.2 Conformity.

2.2.1 **Certificate of Zoning Compliance.** To authorize any use, activity or change regulated by this Code, the Director will issue a Certificate of Zoning Compliance indicating that what is proposed complies with these regulations.

2.2.2 Building Permits. No building permit shall be issued for construction or alteration of a new or existing structure located within the City of Hattiesburg zoning jurisdiction until the Director has issued a certificate of zoning compliance.

2.2.3 **Other Laws.** No building, structure, or land shall be used, occupied, or altered; nor shall any building, structure, or part thereof be erected, constructed, reconstructed, moved, enlarged, or structurally altered; nor shall any changed use be established for any building, structure, or land, unless in conformity with county, state and federal laws pertaining to such. Nothing herein shall require the City to check for conformity with the laws of other jurisdictions prior to issuing a local approval; however, demonstration of compliance may be required as part of the permit approval process. Furthermore, lack of compliance shall be grounds for denying a permit, and failure to remain in compliance shall be deemed a violation of this Code subject to any and all remedies and enforcement actions specified herein.

2.2.4 **No Duty to Enforce Private Restrictions.** This Code does not affect any private agreement or condition such as a deed restriction or covenant. Regardless of whether or not such private restrictions or covenants are less restrictive or impose a higher standard than the provisions of this Code, the City has no duty or right to enforce those private restrictions.

2.3 Vested Rights and Transitional Rules.

2.3.1 Any development application submitted before the effective date of the Land Development Code as amended in 2016 shall be reviewed under the provisions of the Land Development Code of 1989, as amended.

2.3.2 The rights of development applications approved prior to the adoption of this Land Development Code shall be vested and governed under Section 2.4, Nonconformities.

2.4 Nonconformities.

2.4.1 **Generally.** Any parcel of land, use, easement, structure, sign or feature lawfully existing on the date of any text change in this Code, or on the date of a zoning map change that does not conform to the requirements of the district in which it is located may be continued and maintained in accordance with the provisions of this Section and other applicable provisions of this Code. Nonconformities may continue as prescribed, but the provisions of this Section are designed to bring about their eventual conformity or elimination.

2.1.1 **Certificate of Zoning Compliance Required.**

No nonconforming structure, use, lot, or feature shall be maintained, renewed, changed,

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or extended until a Certificate of Zoning Compliance has been issued by the Director. The certificate of zoning compliance shall state specifically how nonconformity differs from the provisions of this Code. The burden of proof, based on public records, as to the legality of the nonconforming use rests with the property owner and may require a notarized affidavit submitted by the owner stating such as part of the application in the absence of satisfactory records

2.4.2 **Nonconforming Lots.**

A legal nonconforming lot is a lot existing legally at the time of the passage of this Code, or the time of annexation into the City's jurisdiction, which does not by reason of design or dimensions conform to the regulations of the district in which it is located. A lot established after the passage of this Code, which does not conform to regulations of the district in which it is located, shall be considered an illegal nonconforming lot and is a violation of this Code. Legal nonconforming lots may continue only in accordance with the following provisions.

2.4.3 **Vacant Lots.** Vacant lots for which plats or deeds have been recorded in the office of the Chancery Clerk for Forrest/Lamar County, which fail to comply with the minimum area or other dimensional requirements of the districts in which they are located may be used for any of the uses permitted in the district in which it is located, provided that:

2.4.3.1 Where the lot area is not more than 20% below the minimum specified in this Code, and other dimensional requirements are otherwise complied with, the Director is authorized to issue a certificate of zoning compliance.

2.4.3.2 Where the lot area is more than 20% below the minimum specified in this Code, or other dimensional requirements cannot be met, the Board of Adjustments has approved a variance establishing site-specific dimensional requirements.

2.4.3.3 Combination of Nonconforming Vacant Lots. When two or more adjacent and vacant nonconforming lots are in single ownership, and either of such lots individually has less frontage or area than the minimum requirements of the district in which they are located, these lots must be combined into a single lot of record. The property owner may choose to resubdivide such lots in conformity with this Code in order to create two or more legal lots of record.

2.4.4 **Nonconforming Uses.**

A legal nonconforming use is a use existing legally at the time of the passage of this Code, or the time of annexation into the City's jurisdiction, which does not by reason of use conform to the regulations of the district in which it is located. A use established after the passage of this Code which does not conform to regulations of the district in which it is located shall be considered an illegal nonconforming use and is a violation of this Code. Legal nonconforming uses of land or structures may continue only in accordance with all of the following provisions.

2.4.4.1 **Expansion Prohibited.** A one time expansion of 25 percent may be permitted by the Director. Expansion greater than 25 percent shall require a public hearing and Planning Commission approval. Expansion shall include an intensification of use, a physical expansion that results in increased capacity or activity associated with the use, an extension of the hours of operation or number of days of activity and any similar change in activity or location.

2.4.4.2 Relocation **Restricted.** A nonconforming use shall not be moved from one location on a site to another location on the same site unless the property owner can demonstrate to the satisfaction of the Director that the relocation of the use will not increase the impacts of such use on the public, will not adversely affect adjacent properties, and will not have the effect of making the nonconformity more permanent.

2.4.4.3 **Change of Use Must Conform.** A nonconforming use shall not be changed to any other use unless the new use conforms to

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the standards of the zoning district in which it is located. Once a nonconforming use is changed to a conforming use, a nonconforming use shall not be re-established.

2.4.4.4 **Reestablishment Restricted.** A legal nonconforming use, when discontinued or abandoned, shall not be resumed. Discontinuance or abandonment shall be defined as:

i. When land used for a legal nonconforming use ceases to be used in a bona fide manner or a period of six consecutive calendar months.

ii. When a building designed or arranged for a nonconforming use ceases to be used in a bona fide manner as a legal nonconforming use for a continuous period of six consecutive calendar months.

iii. When a building designed or arranged for a conforming use shall cease to be used in a bona fide manner as a legal nonconforming use for a period of six consecutive calendar months.

2.4.4.5 **Structural Alterations Restricted.** No structural changes shall be made in any structure occupied by a nonconforming use except as follows:

i. Structural changes ordered by an authorized official in order to insure the safety of the structure shall be permitted.

ii. Maintenance and repairs to keep a structure in sound condition shall be permitted.

iii. Structural changes necessary to convert the nonconforming use to a conforming use shall be permitted.

iv. An existing nonconforming residential structure may be enlarged or altered provided no additional dwelling units are created. Any such enlargement or alterations shall be in compliance with all yard requirements of the district for the use.

v. The structure and its accompanying use may be moved to another location on the lot so long as the structure meets all applicable requirements of the district.

vi. Expansion of a nonconforming use of a building or structure into portions of the structure that, at the time the use became nonconforming, were already erected and arranged or designed for such nonconforming use is permissible.

vii. A onetime expansion in accordance with 2.4.4.1.

2.4.5 **Nonconforming Structures, Excluding Signs.**

A legal nonconforming structure is a structure, including a building, existing legally at the time of the passage of this Code, or the time of annexation into the City's jurisdiction, which does not by reason of design or dimensions conform to the regulations of the district in which it is situated. A structure established after the passage of this Ordinance which does not conform to regulations of the district in which it is situated shall be considered an illegal nonconforming structure and is a violation of this Code. Legal nonconforming structures may continue only in accordance with all of the following provisions.

2.4.5.1 **Continuation Permitted.** A nonconforming structure devoted to a use permitted in the zoning district in which it is located, may continue only in accordance with the provisions of this Section.

2.4.5.2 **Repair and Maintenance Permitted.** Normal repair and maintenance may be performed to allow the continuation of a nonconforming structure.

2.4.5.3 **Certain Enlargements Permitted.** Any nonconforming structure may be enlarged if the expansion does not increase the nonconformity.

2.4.5.4 **Changes for Conversion Permitted.** Structural changes necessary to convert the nonconforming use to a conforming use shall be permitted.

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2.4.5.5 **Movement Restricted.** A nonconforming structure shall not be moved unless afterwards it conforms to the standards of the zoning district in which it is located.

2.4.5.6 **Repair and Restoration Restricted.** A nonconforming structure destroyed or damaged so that more than 40 percent of its value remains, may be repaired or restored if:

i. A building permit for the repair or restoration is issued within six months of the date of the damage and remains valid until the repairs or restoration are complete.

ii. The structure conforms to the standards of the regulations for the zoning district in which it is located; however, if the structure is used for the same purpose as before the destruction, the new structure may be rebuilt using the same materials.

iii. The total amount of space devoted to a nonconforming use is not increased and the degree of nonconformity in the structure is not increased.

2.4.5.7 **Conformity.** If the Director determines that the building or structure has been damaged to such an extent that the repair costs will exceed 60 percent of the assessed tax value of the building or structure as it existed before the damage occurred, future use of the building and site must conform to the regulations of the district in which it is located. However, any building or structure listed on the National Register of Historic Places or any building certified as a state historic building may be rebuilt or restored to its original dimensions or the dimensions of the building or structure before such damage occurred, provided such restoration conforms to the Secretary of Interior Standards for Rehabilitation. For the purposes of this Section, the extent of damage or destruction shall be determined by comparing the estimated cost of repair or restoration with the current assessed tax value.

2.4.5.8 **Replacement Restricted.** A nonconforming structure shall not be replaced with another nonconforming structure regardless of the degree of nonconformity

2.4.6 **Nonconforming Signs.** A legal nonconforming sign is a sign existing legally at the time of the passage of this Code, or the time of annexation into the City's jurisdiction, which does not by reason of location, type, design or dimensions conform to the regulations of the district in which it is located. A sign erected or created after the passage of this Code which does not conform to the regulations of the district in which it is situated shall be considered an illegal nonconforming sign and is a violation of this Code. Legal nonconforming signs may continue only in accordance with all of the following provisions.

2.4.6.1 **Continuation Permitted.** Subject to the remaining restrictions of this Section, nonconforming signs that were otherwise lawful on the effective date of this Code may be continued.

2.4.6.2 **Increase in Nonconformity Prohibited.** No person may engage in any activity that causes an increase in the extent of nonconformity of a nonconforming sign. Without limiting the generality of that statement, no nonconforming sign may be enlarged, reduced or altered in such a manner as to increase the nonconformity, nor may illumination or electronic capability be added to any nonconforming sign.

2.4.6.3 **Movement and Replacement Restricted.** A nonconforming sign may not be moved or replaced except to bring the sign into complete conformity with this Section.

2.4.6.4 **Reconstruction Limited.** If a nonconforming sign is destroyed by natural causes, it may not thereafter be repaired, reconstructed, or replaced except in conformity with all the provisions of this Section, and the remnants of the former sign structure shall be cleared from the land. For purposes of this Section, a nonconforming sign is "destroyed" if damaged to an extent that the cost of repairing the sign to its former stature or replacing it with an equivalent sign equals or exceeds

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the value (tax value if listed for tax purposes) of the sign before damage.

2.4.6.5 **Message Change Permitted.** The message area of a nonconforming sign may be changed so long as this does not create any new nonconformities.

2.4.6.6 **Repair Limited.** Subject to the other provisions of this Section, nonconforming signs may be repaired and renovated so long as the cost of such work does not exceed 50 percent of the value (tax value if listed for tax purposes) of such sign as calculated within any 12-month period.

2.4.6.7 **Abandonment.** If a nonconforming sign remains blank for a continuous period of 180 days, that sign shall be deemed abandoned and shall, within 90 days after such abandonment, be altered to comply with this Section or be removed by the sign owner, owner of the property where the sign is located, or other person having control over such sign. For purposes of this Section, a sign is "blank" if any of the following apply:

i. It advertises a business, service, commodity, accommodation, attraction or other enterprise or activity that is no longer operating or being offered or conducted.

ii. The advertising message it displays becomes illegible in whole or substantial part.

iii. The advertising copy paid for by a party other than the sign owner or promoting an interest other than the rental of the sign has been removed.

2.4.6.8 **Conformity Required.** The following types of nonconforming signs or signs that are nonconforming in any of the following ways shall be altered to comply with the provisions of this Section or removed within 90 days after its effective date:

i. Signs advertising an enterprise or activity that is no longer operating or being offered or conducted.

ii. Portable signs and temporary signs.

iii. Signs that are in violation of Section 10.

2.4.7 **Nonconforming Features.** A legal nonconforming feature is a physical characteristic existing legally at the time of the passage of this Code, or the time of annexation into the City's jurisdiction, which does not by reason of design or dimension conform to the regulations of the district in which it is situated. Nonconforming features include, but are not limited to, physical characteristics of development that exceed allowable maximum standards (e.g. impervious surface, structure height, etc.), and those that lack or fall short of required minimum standards (e.g. sight triangle, off-street parking and loading spaces, buffer width and lighting standards, etc.). A feature added or changed after the passage of this Code which does not conform to regulations of the district in which it is situated shall be considered an illegal nonconforming feature and is a violation of this Code. Legal nonconforming features may be continued subject to the following limitations.

2.4.7.1 **Increase In Nonconformity Prohibited.** No action shall be taken which increases the degree or extent of the nonconformity. Any enlargement, extension, structural alteration, parking changes, and other changes to lot design and access shall conform to all current requirements of this Section.

2.4.7.2 **Continuation Permitted.** For development existing (or for which a vested right had been established) before the effective date of current regulations, nonconforming features created by a change in regulations may continue to exist, and structures with such nonconforming features may be reconstructed if demolished or destroyed.

2.4.8 **Additional Requirement for Nonconforming Accessory Uses and Structures.** No nonconforming accessory use or accessory structure shall continue after the principal use or structure is terminated by abandonment, discontinuance, damage, or destruction unless such accessory use or accessory structure thereafter is made to conform to the standards for the zoning dis-

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trict in which it is located.

2.4.9 **Additional Requirements for Manufactured Home Parks.**

2.4.9.1 **Expansion Prohibited.** Nonconforming manufactured home parks may not be expanded or increased in size which shall include adding spaces to the park.

2.4.10 **Changes of Tenancy and Ownership.** Change in tenancy or ownership of an existing nonconforming use or structure shall not affect its status provided there is no change in the nature or character of such nonconforming use or structure, excluding exterior site or structure condition, except as permitted in this Section and all other applicable requirements of this Code are met (e.g., parking, screening, landscaping, etc.).

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SECTION 3. GENERAL REQUIREMENTS

3.1 Minimum Requirements Established.

The minimum lot area, yards, buffer areas, and open space required by the regulations for each lot, parcel or building existing at the time of the passage of this Code shall not be encroached upon or reduced, or considered as required yards or open space for any other building. Yards or lots created after the effective date of this Code shall meet at least the minimum requirements established by this Code for the district in which they are created.

3.2 Site Preparation.

3.2.1 **Natural Vegetation Preserved.** Areas of natural vegetation, especially trees and shrubs, shall be preserved along the perimeter of development parcels, including fence rows and drainage ways, and shall be incorporated into the site's landscape plan where appropriate; however, noxious and nuisance plants may be removed as identified and shown on the landscape plan. A no-grade area shall also be identified on the plan.

3.2.2 **Grading Restricted.** No site grading shall occur prior to approval through site plan review process or issuance of a grading permit according to City standards.

3.2.3 **Changes to Topography Limited.** Buildings and improvements shall be located on site to minimize changes to existing topography where feasible.

3.3 Street Frontage and Access Required.

3.3.1 Each lot or parcel shall abut a public street and shall have direct deeded vehicular and pedestrian access to such street with the following exceptions:

3.3.2 Any lot for which a use has been legally established prior to the effective date of this ordinance that is lawfully served by a private and exclusive recorded easement of at least 24 feet in width connecting the lot to a public street, may be used as if it abutted a street, provided that it is served by a driveway built to city standards located on the easement.

3.3.3 A development site consisting of one or more legal lots of record which is developed under a coordinated, approved site specific plan and which is accessed solely by driveways shall only be required to abut a public street along some portion of the development site, the minimum width of which shall be determined by the City to be adequate for public and emergency vehicle access but which shall not be less than 20 feet.

3.3.4 Lots created for utility facilities, including but not limited to water towers, electric and gas substations, telecommunication towers, and satellite receivers, may be created without frontage or deeded access as long as a legally enforceable access easement a minimum of 15 feet in width has been granted and documentation for such has been received by the Director at the time of final plat approval.

3.4 One Principal Building Per Lot; Exceptions.

Only one principal building and its customary accessory building(s) may be erected on any lot unless otherwise permitted by use and district regulations set forth in this Code.

3.5 Lot Size.

No building lot (development site), even though it may consist of one or more adjacent lots of record, shall be reduced in size such that the requirements of this ordinance cannot be met, or the performance standards for building design cannot be respected. This prohibition shall not be construed to prevent the purchase, dedication, or condemnation of narrow strips of land for public utilities or street or sidewalk right-of-way purposes.

3.6 Driveways.

3.6.1 **Permit Required.** No driveway or other point of access to the street shall be constructed, relocated, or altered unless the driveway has been

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approved by the City of Hattiesburg.

3.6.2 **Access Limited.** In order to protect public health and the function of public streets, access to a pre-existing public street system shall be determined by the location of proposed intersecting streets, topography, and other general site characteristics. No parcel of land which is a functional part of the overall development, even though it may be removed by the developer from the rest of the project area by subdivision or by metes and bounds description, shall be permitted to have driveway access to the public streets bounding the project area unless so approved by the City as part of the development project.

3.7 Negative Access Easements Prohibited.

Private negative access easements in which no driveway or other vehicle or pedestrian access is permitted to a lot from an adjacent public street shall be prohibited except those easements required by the City to limit driveways on existing public streets.

3.8 Visibility at Intersections; Sight Triangle.

3.8.1 No planting shall be placed or maintained and no fence, building, wall or other structure shall be constructed in such a manner as to obstruct visibility between a height of two and a half feet and 10 feet measured from the upper face of the nearest curb or pavement within any required sight triangle.

3.8.2 **Street intersections.** Sight triangles shall be maintained at all street intersections. These sight triangles shall be defined as a 30 x 30 foot triangle bounded on two sides by the edge of pavement or curb of the streets and on the third side by a straight line connecting the endpoints of the other two sides. Where crosswalks are provided, the edge of the crosswalk furthest from the intersection shall be used as a side in place of edge of pavement or curb.

3.8.3 **Street and railroad intersections.** Sight triangles shall be maintained at all intersections between street and rail lines. These sight triangles shall be defined as a 10 x 40 foot triangle bounded on two sides by the edge of pavement or curb of the streets or railway and on the third side by a straight line connecting the endpoints of the other two sides.

3.8.4 **Street and driveway intersections.** Sight triangles shall be maintained where driveways intersect streets. These sight triangles shall be defined as a 15 x 15 foot triangle bounded on one side by the edge of pavement or curb of the street, one side by the edge of driveway, and on the third side by a straight line connecting the endpoints of the other two sides. In the event that a driveway crosses a sidewalk, then the edge of sidewalk furthest from the street shall be used as a side in place of edge of pavement or curb.

3.9 Exceptions.

Sight distance requirements for properties in mixed-use districts shall be established along with other dimensional requirements on a project by project basis.

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Diagram 3-1 Intersection Sight Triangle

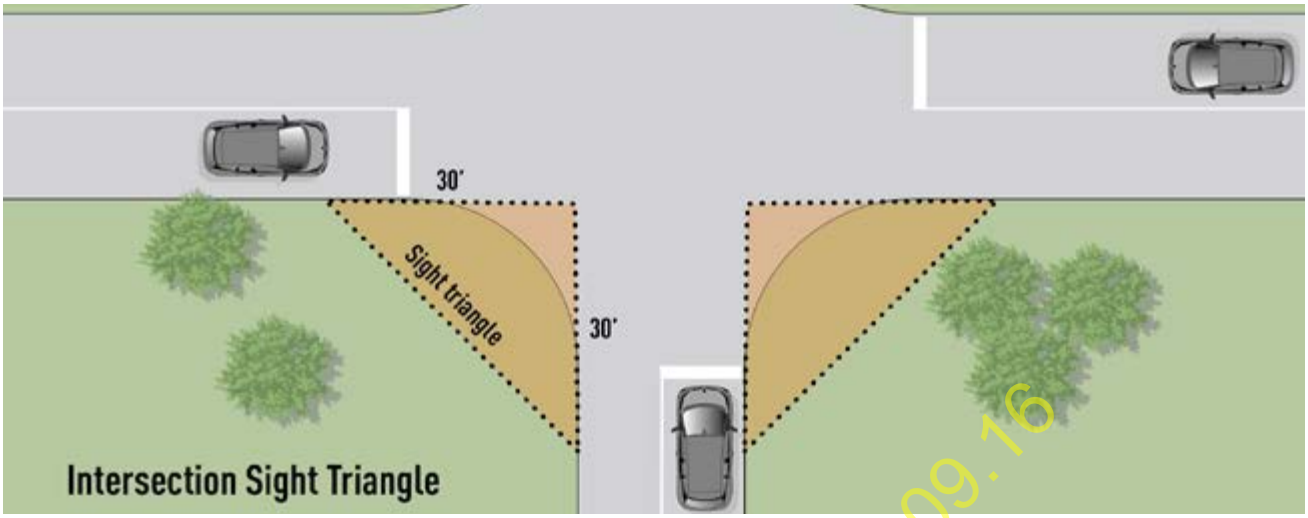

Diagram 3-2 Rail Crossing Sight Triangle

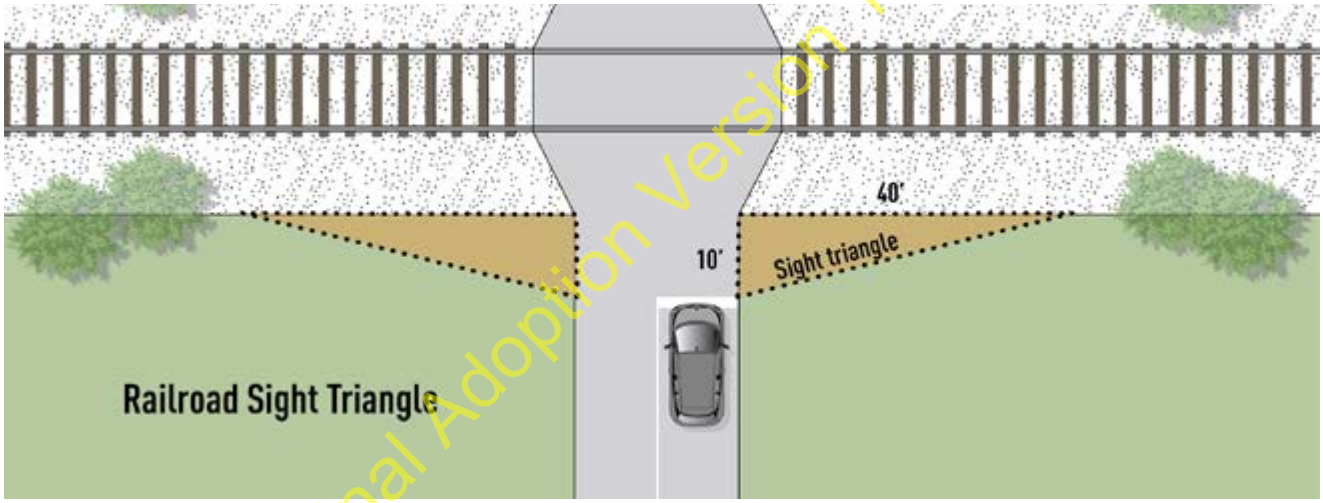

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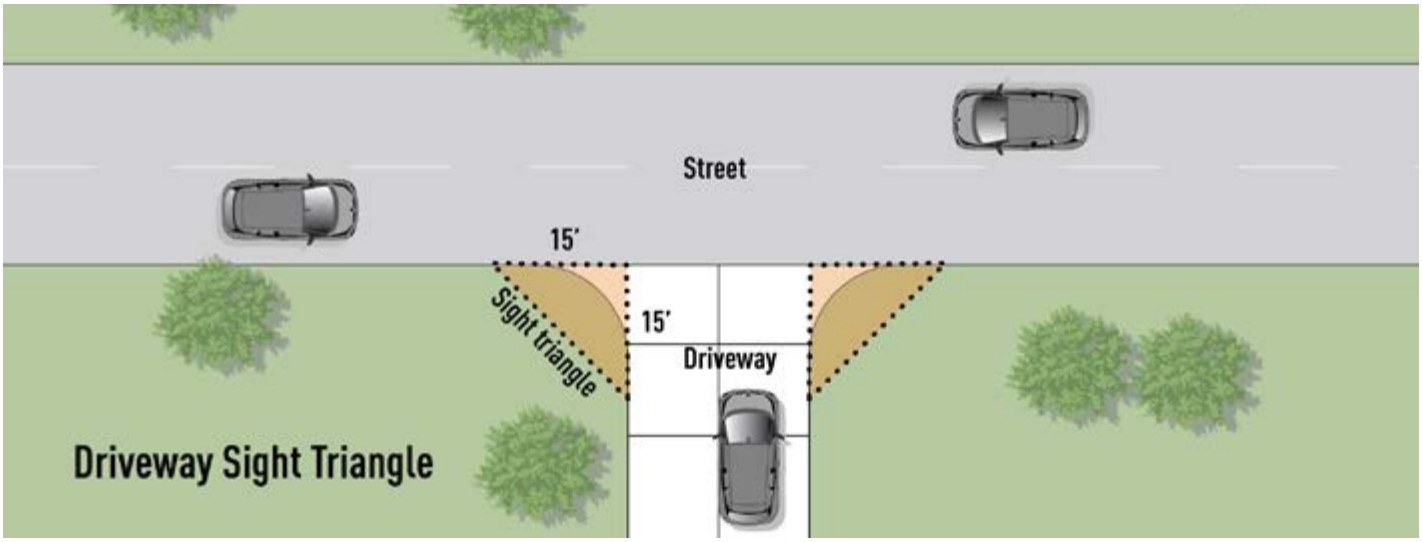
Diagram 3-3 Driveway Sight Triangle



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SECTION 4. ZONING DISTRICTS ESTABLISHED, MAP

4.1 Types of Zoning Districts.

4.1.1 All areas within the zoning jurisdiction of Hattiesburg are divided into zoning districts. Zoning districts within the City fall within one of the following three categories.

4.1.2 **Base Districts.** Each base district category serves a different purpose and imposes its own set of requirements and restrictions on the use of land in addition to the general requirements and restrictions imposed on all land or uses within the zoning jurisdiction. A base district may be layered with an overlay district.

4.1.3 **Special Districts.** Special districts are a type of base district established to implement detailed plans adopted by the City of Hattiesburg such as the Comprehensive Plan, area plans, and corridor plans. The regulations contained within the LDC for such districts are provided as a framework for review and approval. A significant part of the detail for each district is contained within the plan itself and must be reflected in proposed district site plans and documentation.

4.1.4 **Overlay Districts.** Overlay districts are established to provide for certain additional requirements, to permit uses not otherwise permitted in the underlying base district, to prohibit uses allowed in the underlying base district, or to establish special development requirements for uses permitted in the base district. Thus, where overlay districts exist and there is a conflict between the requirements or uses specified between the overlay and the underlying district, the standards of the overlay district shall prevail. Otherwise, the standards of the underlying district shall also be in effect for any area additionally zoned for an overlay district.

4.2 Establishment of Districts.

The following zoning districts are hereby established as follows:

Table 4.2-1 Base Districts

District Abbreviation, Name	District Category
A-1, General Agricultural	Agricultural
A-2, Agricultural Residential	Agricultural
R-1A, Single-family Residential	Residential
R-1B, Single-family Residential	Residential
R-1C, Single-family Residential	Residential
R-2, Two Family Residential	Residential
R-3, Multi-Family Residential	Residential
B-1, Professional Business	Commercial
B-2, Neighborhood Business	Commercial
B-3, Community Business	Commercial
B-4, Downtown Business	Mixed Use
B-5, Regional Business	Commercial
I-1, Light Industrial	Industrial
I-2, Heavy Industrial	Industrial
Form-Based District	Mixed-Use

Table 4.2-2 List of Special Districts

District Abbreviation, Name	District Category
PMU, Planned Mixed-Use District	Mixed-Use
CD, Corridor District	Mixed-Use
FP, Floodplain Overlay District	Overlay
HD, Historic Overlay District	Overlay

4.3 Official Zoning Map.

4.3.1 **Zoning Map Is A Part Of This Code.** The boundaries of zones established by this Land Development Code shall be shown on a map or series of maps entitled Official Zoning Map. Such map or maps together with all matters shown on such maps are adopted and approved and collectively constitute the Official Zoning Map. The Official Zoning Map is incorporated by reference and made a part of the Land Development Code.

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4.3.2 **Zoning Map Filed.** The Official Zoning Map is a digital map on file in the office of the Director of Urban Development and is identified by the digital signature of the President of the Hattiesburg City Council, attested digitally by the Clerk of Council, and the digital signature of the Mayor, attested digitally by the City Clerk, and bears the seal of the City.

4.3.3 **Amendments.** All amendments to the Official Zoning Map will be made in accordance with the procedure set forth in this Code. A current record of amendments is maintained by the Director.

4.4 Interpreting Zoning District Boundaries.

4.4.1 **Boundaries Shown.** Zoning District boundaries are typically indicated as approximately following the right of way or centerlines of streets, lot and parcel boundaries, municipal limits, and the centerlines of rivers, and streams. In some cases boundaries may split a land parcel or lot.

4.4.2 **Rules For Interpretations.** Where uncertainty exists as to the location of zoning district boundaries shown on the Official Zoning Map, the following rules shall apply:

4.4.3 Boundaries indicated as approximately following the centerlines of streets, highways, railroad or alleys rights-of-way shall be construed to follow such right-of-way centerlines.

4.4.3.1 Boundaries indicated as approximately following platted lot lines shall be construed as following such lot lines.

4.4.3.2 Boundaries indicated as approximately following city limits shall be construed as following such city limits.

4.4.3.3 Boundaries indicated as approximately following the center lines of streams, rivers, lakes, or other bodies of water shall be construed to follow such center lines. In the event of change in the size or location of these water bodies, boundaries shall be construed as naturally moving with the new center line.

4.4.3.4 Boundaries indicated as parallel to or extensions of features indicated in subsections 4.4.2.1 through 4.4.2.4 shall be so construed. Distances not specifically indicated on the Official Zoning Map shall be determined by the scale of the map.

4.4.3.5 Where physical or cultural features existing on the ground are at variance with those shown on the Official Zoning Map, or in other circumstances not covered by Sections 4.4.2.1 through 4.4.2.5, the Board of Adjustment shall interpret the district boundaries.

4.5 Base Zoning Districts Described; Purpose.

All of the areas within the zoning jurisdiction of the City are divided into base zoning districts, within which the use of land and water areas; the location, height, bulk, appearance and use of structures; the provision of parking and loading areas; and the provision of buffers, landscaping and screening are regulated as provided in this Code. Collectively, these districts are intended to advance the purposes of the adopted Comprehensive Plan and the intent of this Code as stated in Section 1. Individually, each district is designed and intended to accomplish the following more specific objectives.

Unless otherwise stated below, permitted uses and conditional uses are listed in Section 5, Use Regulations. Similarly, dimensional standards are listed in Section 6, Dimensional Standards, and design requirements are listed in Section 7, Design Standards.

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4.5.1 A-1 Agricultural District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the A-1 Agricultural District is to permit agricultural uses and low-density residential development. This district is consistent with the Rural Residential / Agricultural District in the Comprehensive Plan. The district is intended to encourage and protect rural uses from urbanization until such is warranted and the appropriate change in district classification is made.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.2 A-2 Agricultural Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the A-2 Agricultural District is to permit low density single-family residential development along with restrictive agricultural uses. This district is consistent with the Rural Residential / Agricultural District in the Comprehensive Plan. The district is intended to encourage and protect large lots, open space and low density population.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.3 R-1A Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the R-1A District is to permit single-family residential uses with related recreational, religious and educational facilities. This district is consistent with the Neighborhood Conservation 1 and 2 districts in the Comprehensive Plan. This zoning district encourages protected lower density residential neighborhoods with only compatible supporting institutional uses and open space.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.4 R-1B Single-Family Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the R-1B District is to permit single-family residential uses with related recreational, religious and educational facilities. This district is consistent with the Neighborhood Conservation 1 and 2 districts in the Comprehensive Plan. This zoning district encourages protected lower density residential neighborhoods with only compatible supporting institutional uses and open space.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.5 R-1C Single-Family Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the R-1C District is to permit single-family residential uses with related recreational, religious and educational facilities. This district is consistent with the Neighborhood Conservation 1 and 2 districts in the Comprehensive Plan. This zoning district encourages protected lower density residential neighborhoods with only compatible supporting institutional uses and open space.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.6 R-2 Two-Family Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the R-2 District is to permit medium density residential uses including two-family, or duplex structures, with related recreational, religious and educational facilities. This district is consistent with the Neighborhood Conservation 1 and 2 districts in the Comprehensive Plan. This zoning district encourages protected residential neighborhoods with only compatible supporting institutional uses and open space.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.7 R-3 Multi-Family Residential District	
Description and Purpose.	**Characteristic Development Type**
The purpose of the R-3 District is to permit medium and high density residential uses including multi-family, two-family, and single-family structures with related recreational, religious and educational facilities. This district is consistent with the Neighborhood Conservation 1 and 2 districts in the Comprehensive Plan. This zoning district encourages protected residential neighborhoods with only compatible supporting institutional uses and open space.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.8 B-1 Professional Business	
Description and Purpose.	**Characteristic Development Type**
The purpose of this business district is to provide areas for professional and business offices and related activities that require separate buildings and building groups surrounded by landscaped yards and open areas. The intent is to provide compact locations for business offices, medical and dental offices, as well as suburban locations near residential neighborhoods.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.9 B-2 Neighborhood Business District.	
Description and Purpose.	**Characteristic Development Type**
The purpose of the B-2 District is to provide for retail and personal service uses in locations convenient to residential neighborhoods consistent with comprehensive planning policies. This district is consistent with the Neighborhood Business District in the Comprehensive Plan.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.10 B-3 Community Business District.	
Description and Purpose.	**Characteristic Development Type**
The purpose of the B-3 District is to provide for retail, personal service, and offices in locations with convenient access to the community consistent with comprehensive planning policies. This district is consistent with the Community Business District in the Comprehensive Plan.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.11 B-4 Downtown District.	
Description and Purpose.	Characteristic Development Type
The Downtown Business District is intended to promote the concentration and vitality of commercial and business uses in the historic central business area of the City and as such, encourages a mixture of complementary uses with a pedestrian orientation. This district is characterized by wall-to-wall and lot-line-to-lot-line development, pedestrian walkways, a vertical mix of uses, upper floor residential uses, and off-street public parking lots.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.12 B-5 Regional Business District.	
Description and Purpose.	Characteristic Development Type
The purpose of the B-5 District is to provide for retail, personal and business services, offices, and financial services in locations with convenient access to the region's population consistent with comprehensive planning policies. This district is consistent with the Regional Business District in the Comprehensive Plan.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

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4.5.13 I-1 Light Industrial District.	
Description and Purpose.	**Characteristic Development Type**
The purpose of the I-1 District is to provide for the development of research, light industrial, office parks, warehouse, and distribution centers consistent with comprehensive planning policies. This district is consistent with the Industry and Corporate Office District in the Comprehensive Plan.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
District Development Standards	See Section 7
District Sign Standards	See Section 10

4.5.14 I-2 Heavy Industrial District.	
Description and Purpose.	**Characteristic Development Type**
The purpose of the I-2 District is to provide for the development of manufacturing, research, warehouse, and distribution centers consistent with comprehensive planning policies. This district is consistent with the Industrial 2 District in the Comprehensive Plan.	
District Uses and Use Standards	See Section 5
District Dimensional Standards	See Section 6
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4.5.15 Form Based District.	
Description and Purpose.	Characteristic Development Type
See Appendix	
District Uses and Use Standards	See Appendix
District Dimensional Standards	See Appendix
District Development Standards	See Appendix
District Sign Standards	See Appendix

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4.6 Planned and Overlay Districts Described; Purpose.

Some areas within the zoning jurisdiction of the City are divided into special zoning districts, within which the use of land and water areas; the location, height, bulk, appearance and use of structures; the provision of parking and loading areas; and the provision of buffers, landscaping and screening are regulated according to an approved plan as provided in this Code. These zoning districts are established as follows:

- PMU – Planned Mixed-Use
- CD – Corridor District
- FP – Floodplain District
- HO – Historic Overlay District

Individually and collectively, these districts are intended to advance the purposes of the adopted Comprehensive Plan, Corridor Plans and the intent of this Code as stated in Section 1.

Unless otherwise stated below, permitted uses and conditional uses are listed in Section 5, Use Regulations. Similarly, dimensional standards are listed in Section 6, Dimensional Standards, and design requirements are listed in Section 7, Design Standards unless otherwise covered below.

4.6.1 **PMU Planned Mixed-Use District.**

4.6.1.1 **Purpose.** The Planned Mixed-Use District is created to provide a regulatory framework for permitting mixed-use development projects in areas designated as mixed-use within the official Comprehensive Plan and any other specific plans subsequently approved. Specifically, the Planned Mixed-Use District serves to:

- Provide flexibility in the planning and construction of development projects by allowing a combination of uses developed in accordance with an approved plan that protects adjacent properties;
- Provide an environment within the layout of a site that contributes to a sense of community and a coherent living style;
- Encourage the preservation and enhancement of natural amenities and cultural resources; to protect the natural features of a site that relate to its topography, shape, and size; and to provide for a maximum amount of open space;
- Provide for a more efficient arrangement of land uses, buildings, circulation systems, and infrastructure; and
- Encourage infill projects and the development of sites made difficult for conventionally designed development because of shape, size, abutting development, poor accessibility, or topography.

4.6.1.2 **Eligibility.** Eligibility for rezoning to a PMU is based on the City of Hattiesburg Comprehensive Plan as well as other specific plans adopted by the City. Areas generally eligible for rezoning to a Planned Mixed Use District are indicated as Neighborhood Business, General Business, and Planned Unit Development on the Future Land Use Map.

4.6.1.3 **District Types.** When requesting a rezoning to a new PMU district, the applicant must identify which Comprehensive Plan Area, or areas, applies. Each request for rezoning to a PMU must demonstrate substantial conformance with the characteristics, acceptable land uses and minimum project size as indicated in table 4.6-1.

4.6.1.4 **Zoning Map Designation.** If approved, all requests for a PMU rezoning shall carry the map designation of PMU along with the abbreviation for the Comprehensive Plan Area it is intended to implement. Abbreviations shall be as follows:

- PMU - NB (Neighborhood Business)
- PMU - GB (General Business)
- PMU - PD (Planned Unit Development)

4.6.1.5 **District Regulations.**

i. Permitted Uses. There are no permitted uses in the PMU district.

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ii. Conditional Uses. All uses within a PMU are conditioned upon review and approval of a detailed site plan and other schematics required to prove consistency with specific regulations within this Code as well as the intent of the Comprehensive Plan. While use-specific conditions shall apply, other conditions required to mitigate incompatibilities and address site-specific conditions as imposed by the applicant or required by City Council shall apply and be binding.

iii. Conditional uses within a PMU shall conform to the acceptable uses list for the Comprehensive Plan Area that is applicable; however, customary accessory uses shall also be permitted as conditional uses. Uses not substantially similar to the uses listed, as determined by the Director, shall be prohibited.

iv. All requests for rezoning to a PMU-PD shall be accompanied by a detailed site plan indicating specific uses for each phase, parcel and structure. The site plan and the list of uses must conform to all applicable requirements of the LDC as well as rezoning application requirements and shall, once approved, be binding on the property.

v. All requests for rezoning to any PMU except PMU-PD shall be accompanied by sufficient information to determine compliance with all applicable requirements of this Code. However, site plans and specified uses presented as part of the rezoning process shall not be binding on the property if the rezoning is approved and shall be prominently noted as such on any materials presented as part of a public process. Any property configuration or use that is consistent with the characteristics and acceptable uses for the Comprehensive Plan Area indicated shall be permitted upon review and approval by the Site and Design Committee as part of a zoning permit request.

vi. Mix of Uses Required. The PMU District is specifically intended to contain and support a mix of acceptable uses including residential, commercial, office and open spaces located within a walkable and bikable neighborhood.

vii. Change of Use. Subsequent to approval of a PMU-PD District, any change of use shall be reviewed and approved by the Director. Any requested change that is not substantially consistent with the approved plan shall require the applicant to submit a request for plan amendment. Such revision shall be reviewed and approved by the City Council following the same procedures and requirements for rezoning except that the Director may exempt any site plan requirements deemed inapplicable to the request. All changes of use in any other PMU District shall be reviewed and approved by the Site Design and Review Committee prior to issuance of a zoning permit.

viii. Dimensional Standards. The following dimensional standards shall apply to the PMU district unless otherwise approved by City Council as part of a site specific development plan. Any exception to these standards must be shown on the site plan and requested by the applicant in their presentation to the Council including an explanation for the exception. Any exception granted may require the applicant to incorporate conditions or design mitigation strategies imposed by the Council. Such conditions or strategies shall be presented by the Council and agreed to by the applicant prior to the action to rezone.

*Multi-family developments are restricted to no more than 10 units if located in a PMU-NB.

ix. Open Space. Open space shall be allocated, designed and maintained as an integral part of all PMU District areas. Open space shall be required as follows:

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Land Use Category	Required Open Space
Residential	250 square feet per dwelling unit
Nonresidential	200 square feet per 1,000 square feet of gross floor area and 250 square feet per 1,000 square feet of parking and loading area

x. At its discretion, the City Council or Site and Design Committee, whichever has authority to approve the plan, may approve a decrease in the amount of required open space when the plan includes unique design features or amenities that achieve an especially attractive and desirable development such as, but not limited to, terraces, sculptures, water features, preservation and enhancement of unusual natural features, or landscape sculpture (i.e., areas that are intensely landscaped). Open space may be held in common by a property owners association, dedicated to the City for use as a public amenity, or donated to a land conservancy where it will be held and maintained for the intended use. Permanent ownership and maintenance responsibility of open space by the City is subject to approval by the City.

xi. Design Standards. All uses within a PMU district shall be subject to specific design standards as detailed in Section 6 Design Standards in addition to any other standards stipulated in adopted area plans. Where conflicts between standards exist between the two, standards in the adopted plan shall prevail.

xii. Design Mitigation. When submitting any application for rezoning to a PMU or any zoning permit request within an existing PMU, the applicant shall make a particular effort to mitigate potential incompatibilities with adjacent zoning districts. Such mitigation measures may include: the addition or increase of buffers, landscaping, open space, and screens; decreasing intensity, structure height, or bulk; reducing the amount of parking and restricting loading, solid and liquid waste collection (e.g. dumpsters, grease pits, and recyclable materials) adjacent to the perimeter; restricting access to local streets; and integration of other relevant design features that helps to merge the districts into a cohesive whole. Mitigation measures integrated into the application at time of submittal that exceed the standards of this Code shall be noted as binding conditions imposed by the applicant.

4.6.2 Corridor District (CD)

4.6.2.1 **Zoning Map Designation.** When approved, all Corridor District rezonings shall carry the map designation of CD along with the abbreviation for the Plan Area it is intended to implement. Such abbreviations may include, but shall not be limited to:

- CD - AE (Arts and Entertainment)
- CD - MU (Mixed-Use)
- CD - LW (Live Work)

4.6.2.2 **District Regulations.**

i. Permitted Uses. There are no permitted uses in the CD district.

ii. Conditional Uses. All uses within a CD are conditioned upon review and approval of a detailed site plan and other schematics required to prove consistency with specific regulations within this Code as well as the intent of the adopted plan. While use-specific conditions shall apply, other conditions required to mitigate incompatibilities and address site-specific conditions as imposed by the applicant or required by City Council shall apply and be binding.

iii. Conditional uses within a CD shall conform to the acceptable uses list for the adopted plan area that is applicable; however, customary accessory uses shall also be permitted as conditional uses.

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Uses not substantially similar to the uses listed, as determined by the Director, shall be prohibited.

- All requests for rezoning to a CD District shall be accompanied by a detailed site plan indicating specific uses for each phase, parcel and structure. The site plan and the list of uses must conform to all applicable requirements of the LDC as well as rezoning application requirements and shall, once approved, be binding on the property.
- All requests for rezoning to any CD District shall be accompanied by sufficient information to determine compliance with all applicable requirements of this Code and the plan it implements. Site plans and specified uses presented as part of the rezoning process shall be binding on the property if the rezoning is approved and shall be prominently on any materials presented as part of a public process.

iv. Any request for a CD District that includes a neighborhood business component must demonstrate compliance with the following standards within the neighborhood business area:

- Business hours for non-residential uses shall be 6 A.M. to 11 P.M.
- Outside speakers, live music and outdoor events are prohibited and other sound generated by the use is limited to 45 decibels at the property line.
- Lighting is restricted to low level security lighting when the business is closed for the day or is no longer operating.
- Any use the Director determines is a potential nuisance to neighboring residential districts must be approved as a conditional use.
- **Change of Use.** After the approval of a CD District, any change of use shall be reviewed and approved by the Director. Any requested change that is not substantially consistent with the approved plan shall require the applicant to submit a request for plan amendment. Such revision shall be reviewed and approved by the City Council following the same procedures and requirements for rezoning except that the Director may exempt any site plan requirements deemed inapplicable to the request. All changes of use that is substantially consistent shall be reviewed and approved by the Site and Design Committee prior to issuance of a zoning permit.

v. **Dimensional Standards.** The dimensional standards shall be specified at the time of rezoning and shall be consistent with the approved plan the district is implementing. Once the CD District is approved, all such standards shall be binding on the property.

vi. **Design Standards.** All uses within a CD district shall be subject to specific design standards as established by an approved plan.

vii. **Design Mitigation.** When submitting any application for rezoning to a CD District or any zoning permit request within an existing CD, the applicant shall make a particular effort to mitigate potential incompatibilities with adjacent zoning districts. Such mitigation measures may include: the addition or increase of buffers, landscaping, open space, and screens; decreasing intensity, structure height, or bulk; reducing the amount of parking and restricting loading, solid and liquid waste collection (e.g. dumpsters, grease pits, and recyclable materials) adjacent to the perimeter; restricting access to local streets; and integration of other relevant design features that helps to merge the districts into a cohesive whole. Mitigation measures integrated into the application at time of submittal that exceed the standards of this Code shall be noted as binding conditions imposed by the ap-

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plicant.

4.7 Overlay Zoning Districts Described; Purpose.

Unless otherwise stated below, permitted uses and conditional uses are regulated by the base district as listed in Section 5, Use Regulations or by standards set forth in Section 9, Environmental Standards. Similarly, dimensional standards and design requirements are regulated by the base district or use standards as listed in Section 6, Dimensional Standards or Section 7, Design Standards respectively unless otherwise modified below.

4.7.1 **Floodplain Overlay District.** The Floodplain Overlay District is a special district that has a set of regulations detailed in Section 9 of this Code. All other standards and regulations contained within this Code not superseded by these floodplain requirements shall be in full force and effect for all properties within the overlay as specified in the base district as well as general requirements applicable to all properties within the City.

4.7.2 **Historic Overlay District.** The Historic Overlay District is a special district that has a specific plan and set of regulations that are administered separately from this Code, except that all standards and regulations not superseded by Historic District requirements shall be in full force and effect for all properties within the overlay as specified in the base district as well as general requirements applicable to all properties within the City.

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SECTION 5 USE REGULATIONS AND CONDITIONS

5.1 Establishment of a Table of Uses for Standard Districts.

The uses permitted in the standard zoning districts established by Section 3 are set forth in Table 5.1, Table of Uses and repeated in the zoning district standards. Whenever there is a conflict between what is listed in the Table of Uses and the zoning district standards, the Table of Uses shall govern.

5.2 Determination of Use Category.

The Director shall make a determination as to whether or not any proposed use is permitted within Hattiesburg's zoning jurisdiction based on the uses listed in the Table of Uses. Whenever it is not clear whether a proposed use is or is not permitted, the Director shall consult the purpose statement for each district and the latest version of the North American Industrial Classification System (NAICS) to help make a determination. Any use not specifically listed in the Permitted Uses Table and any proposed use not substantially similar to a listed use as determined by the Director after consultation shall be deemed to be prohibited.

5.3 Table of Uses.

5.3.1 **In General.** The following table lists uses permitted in each standard zoning district by a) approval by the Director with or without conditions; and, b) approval by the Planning Commission with or without conditions. The table also denotes in which districts certain uses are not permitted.

5.3.2 **Districts.** The Table of Uses lists uses for each standard district within the City's zoning jurisdiction. Planned, Overlay and Form Based Districts are not listed in the table. The Historic District and Floodplain District are overlay districts within which uses allowed shall be governed by the underlying district. Uses within Planned Mixed-Use District are established on a case-by-case basis consistent with an adopted plan for the area if one exists, the intent of the Comprehensive Plan and the list of acceptable uses included in Section 4 of this code. The Form Based District appears as Appendix 1 attached to this code

5.3.3 **Symbols.**

5.3.3.1 Where the symbol "■" is shown, the use to which it refers is permitted as a "use by right" in the indicated district, provided it complies fully with all applicable development standards of this chapter.

5.3.3.2 Where the symbol "□" is shown, the use to which it refers is permitted subject to use specific conditions contained in this section. Further, a use with conditions may be subject to Planning Commission review.

5.3.3.3 Where the symbol "♦" is shown, the use to which it refers must be approved by the Planning Commission and is subject to any use specific conditions of this Code.

5.3.3.4 Where an "×" is shown on the table, the use to which it refers is not permitted in the indicated district

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Table 5.1 Table of Uses

■ Permitted
□ Permitted with conditions
◆ Conditional Use
× Not Permitted

Use	Agricultural		Residential					Business					Industrial		Additional Use Conditions Cross Reference
	A - 1	A - 2	R - 1A	R - 1B	R - 1C	R - 2	R - 3	B-1	B - 2	B - 3	B - 4	B - 5	I - 1	I - 2	
Accessory buildings and structures, excluding dwellings	□	□	□	□	□	□	□	□	□	□	□	□	□	□	5.4.2
Accessory communication antennae	□	□	□	□	□	□	□	□	□	□	□	□	□	□	5.4.1
Adult entertainment	×	×	×	×	×	×	×		×	×	×	◆	×	×	5.4.3
Agriculture-related feed, supply and equipment sales and services	×	×	×	×	×	×	×		×	×	×	■	■	■	5.4.4
Airport, public or private	□		×	×	×	×	×		×	×	×	×	■	■	
Amusement facilities	×	×	×	×	×	×	×		×	□	□	□	×	×	5.4.5
Animal husbandry—for profit and research-related, excluding CAFOs as defined by the US EPA	□	□	×	×	×	×	×		×	×	×	×	×	×	-
Animal husbandry—for profit and research-related, including Concetrated Animal Feeding Operation as defined by the US EPA	□	×	×	×	×	×	×		×	×	×	×	×	×	-
Animal shelter	■	×	×	×	×	×	×		×	×	×	■	×	×	-
Aquaculture— for profit and research-related	□	×	×	×	×	×	×		×	×	×	×	×	×	-
Armory	×	×	×	×	×	×	×		×	×	×	■	■	■	-
ATM, outdoor	×	×	×	×	×	×	×		□	□	□	□	■	■	5.4.6
Auction house	×	×	×	×	×	×	×		×	×	■	■	×	×	-
Automotive/truck and maintenance	×	×	×	×	×	×	×	■	■	■	×	×	×	×	5.4.7
Automotive/truck repair	×	×	×	×	×	×	×	×	×	■	×	×	■	×	5.4.7
Boarding house	×	×	×	×	×	◆	◆	×	×	×	×	×	×	×	5.4.9
Boat, canoe, and kayak rental	□	□	×	×	×	×	×	×	×	□	□	■	×	×	5.4.10
Broadcast studio	×	×	×	×	×	×	×	×	×	■	■	■	×	×	5.4.11
Building maintenance and services	×	×	×	×	×	×	×	×	×	×	×	■	■	■	-
Bus station	×	×	×	×	×	×	×	×	×	□	□	□	□	□	-
Care center	×	×	×	×	×	×	□	□	□	□	□	□	×	×	5.4.12
Care center, home	□	□	□	□	□	□	□	□	□	□	□	□	×	×	5.4.12
Cemeteries and columbariums accessory to a worship center	■	■	■	■	■	■	■	■	■	■	■	■	×	×	5.4.13

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Table 5.1 Table of Uses

Use	Agricultural		Residential					Business					Industrial		Additional Use Conditions Cross Reference
■ Permitted □ Permitted with conditions ◆ Conditional Use × Not Permitted	A - 1	A - 2	R - 1A	R - 1B	R - 1C	R - 2	R - 3	B-1	B - 2	B - 3	B - 4	B - 5	I - 1	I - 2	
Cemetery and columbarium as principal uses	×	×	×	×	×	×	×	×	×	■	×	■	×	×	5.4.13
Check cashing agencies	×	×	×	×	×	×	×	×	×	×	×	■	×	×	
Civic/cultural/community center	×	×	◆	◆	◆	◆	◆	□	□	□	□	□	×	×	5.4.14
Clubs and bars	×	×	×	×	×	×	×	×	×	□	□	□	×	×	5.4.15
Construction offices (plumbing/ gas/electrical /welding – with equipment, supplies and retail sales)	×	×	×	×	×	×	×	×	×	×	×	■	■	■	5.4.17
Construction offices (plumbing/ gas/electrical /welding -office only)	×	×	×	×	×	×	×	×	×	■	×	■	■	■	-
Correctional facilities and jails	×	×	×	×	×	×	×	×	×	×	×	□	×	×	-
Country club	×	×	■	■	■	■	■	×	×	×	×	×	×	×	-
Dry Cleaner	×	×	×	×	×	×	×	□	■	■	■	■			
Dwelling, manufactured (mobile) home	□	□	×	×	×	×	×	×	×	×	×	×	×	×	5.4.31
Dwelling, multi-family	×	×	×	×	×	×	□	×	×	×	■	×	×	×	5.4.18
Dwelling, single family attached	×	×	×	×	×	■	■	×	×	×	×	×	×	×	-
Dwelling, single family detached	■	■	■	■	■	■	■	×	×	×	×	×	×	×	-
Dwelling, two family	×	×	×	×	×	□	□	×	×	×	×	×	×	×	5.4.19
Dwelling, zero lot line detached	×	×	×	×	×	■	■	×	×	×	×	×	×	×	5.4.20
Exterminators	×	×	×	×	×	×	×	×	×	×	×	■	×	×	-
Fairgrounds and stadiums, public or private	□	×	×	×	×	×	×	×	×	×	×	□	□	×	-
FDIC financial institutions and mortgage companies, excluding check cashing agencies	×	×	×	×	×	×	×	×	×	■	■	■	×	×	-
Fishing, hunting and trapping	□	×	×	×	×	×	×	×	×	×	×	×	×	×	-
Fitness centers	×	×	×	×	×	×	×	■	■	■	■	■	■	■	-
Funeral home, mortuary and crematorium	×	×	×	×	×	×	×	×	×	□	■	■	×	×	5.4.22
Gallery, museum, and library	×	×	□	□	□	□	□	□	■	■	■	■	×	×	-
Gated communities	×	×		◆	◆	◆	◆	×	×	×	×	×	×	×	5.4.23
Glass repair and replacement	×	×	×	×	×	×	×	×	×	×	×	■	×	×	-

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Table 5.1 Table of Uses

■ Permitted
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× Not Permitted

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Golf course	■	■	■	■	■	■	■	×	×	×	×	×	×	×	-
Government center/complex and offices	×	×	×	×	×	×	×	×	■	■	■	■	×	×	-
Group facility	×	×	×	×	×	×	◆	◆	◆	×	×	×	×	×	5.4.24
Group home	◆	◆	◆	◆	◆	◆	◆	×	×	×	×	×	×	×	5.4.24
Heliport	×	×	×	×	×	×	×	×	×	□	□	□	×	□	5.4.25
Home occupation	□	□	□	□	□	□	□	×	×	×	□	×	×	×	5.4.26
Horticulture— for profit and research-related	□	□	×	×	×	×	×	×	×	×	×	×	×	×	-
Horticulture— private	■	■	■	■	■	■	■	×	■	■	■	■	×	×	-
Hospital and outpatient clinic	×	×	×	×	×	×	×	×	×	□	□	□	×	×	-
Hunting camp/lodge	■	×	×	×	×	×	×	×	×	×	×	×	×	×	5.4.27
Ice machines and similar commercial accessory structures	×	×	×	×	×	×	×	×	×	□	×	□	×	×	5.4.28
Impoundment lot	×	×	×	×	×	×	×	×	×	×	×	×	■	■	-
Industry, heavy	×	×	×	×	×	×	×	×	×	×	×	×	×	■	-
Industry, light	×	×	×	×	×	×	×	×	×	×	×	×	■	■	-
Kennel	■	■	×	×	×	×	×	×	×	×	×	■	×	×	5.4.29
Laboratory, dental or medical	×	×	×	×	×	×	×	■	×	■	■	■	■	■	-
Laundromat	×	×	×	×	×	×	×	×	■	■	×	■	×	×	-
Life care communities	×	×	×	×	×	◆	◆	×	×	×	×	×	×	×	5.4.30
Lodging—bed and breakfast home	×	×	×	◆	◆	◆	◆	×	■	■	■	×	×	×	5.4.8
Lodging—bed and breakfast inn	×	×	×	◆	◆	◆	◆	×	■	■	■	×	×	×	5.4.8
Lodging—hotel, motel, tourist home	×	×	×	×	×	×	×	×	×	□	■	■	×	×	-
Machinery, tools/construction equipment, limited sales and service	×	×	×	×	×	×	×	×	×	×	×	■	■	■	-
Marine sales and service	×	×	×	×	×	×	×	×	×	×	×	■	■	×	-
Medical or dental office	×	×	×	×	×	×	×	■	×	■	■	■	×	×	-
Microbreweries	×	×	×	×	×	×	×	×	×	×	■	×	■	■	
Mining and extraction	×	×	×	×	×	×	×	×	×	×	×	×	×	◆	-
Motor vehicle rental and sales	×	×	×	×	×	×	×		×	×	×	□	×	×	5.4.32
Open space, common and public	■	■	■	■	■	■	■	■	■	■	■	■	■	■	-

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■ Permitted □ Permitted with conditions ◆ Conditional Use × Not Permitted	A - 1	A - 2	R - 1A	R - 1B	R - 1C	R - 2	R - 3	B-1	B - 2	B - 3	B - 4	B - 5	I - 1	I - 2	
Open storage	■	×	×	×	×	×	×	×	×	×	×	□	□	□	-
Other professional office	×	×	×	×	×	×	×	■	■	■	■	■	■	□	-
Package liquor store	×	×	×	×	×	×	×	×	×	■	■	■	×	×	-
Park/playground	■	■	■	■	■	■	■	■	■	■	■	■	◆	◆	-
Parking, garage	×	×	×	×	×	×	□	×	×	□	□	□	■	■	-
Parking, surface	×	×	×	×	×	×	×	■	■	■	■	■	×	×	-
Pawn shop	×	×	×	×	×	×	×	×	×	×	×	■	×	×	-
Personal and professional services, excluding tattoo parlors	×	×	×	×	×	×	×	■	■	■	■	■	×	×	-
Places of assembly not otherwise listed	□	□	□	□	□	□	□	×	□	■	■	■	×	×	5.4.33
Product wholesale	×	×	×	×	×	×	×	×	×	×	×	□	×	×	-
Public and community utility facilities	□	□	□	□	□	□	□	□	□	□	□	□	□	□	5.4.34
Public safety station (police, fire, ambulance)	□	□	□	□	□	□	□	□	□	□	□	□	□	□	5.4.35
Railroad facilities including terminals, excluding maintenance yards	×	×	×	×	×	×	×	×	×	■	■	■	■	■	-
Railroad maintenance yard	×	×	×	×	×	×	×	×	×	×	×	×	×	■	-
Recycling center	×	×	×	×	×	×	×	×	×	×	×	×	■	■	-
Rehabilitation center, nursing care, assisted living, congregate care, palliative care, and hospice care	×	×	×	×	×	×	□	□	□	□	□	□	×	×	5.4.36
Repair shop (small appliance, shoes, excluding engine)	×	×	×	×	×	×	×	×	■	■	■	■	×	×	-
Restaurant, with drive-thru	×	×	×	×	×	×	×	×	×	□	×	□	□	□	5.4.37
Restaurant, without drive-thru	×	×	×	×	×	×	×	□	□	□	□	□	□	□	
Retail, <10,000 sq.ft.	×	×	×	×	×	×	×	□	□	□	□	■	□	□	5.4.38
Retail, >50,000 sq.ft.	×	×	×	×	×	×	×	×	×	×	×	□	×	×	5.4.38
Retail, 10,000-50,000 sq.ft.	×	×	×	×	×	×	×	×	×	□	□	□	□	□	5.4.38
Riding academy or stable	■	■	×	×	×	×	×	×	×	×	×	□	×	×	5.4.39
Sanitary landfill	×	×	×	×	×	×	×	×	×	×	×	×	×	×	-
Satellite receiving systems	×	×	×	×	×	×	×	×	×	×	×	×	■	■	-

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School, K-12	×	×	□	□	□	□	□	□	□	□	□	□	×	×	5.4.40
School, trade	×	×	×	×	×	×	×		×	□	□	□	■	■	5.4.40
School, university or college	×	×	×	×	×	×	■	×	×	■	■	■	×	×	-
Seasonal uses and markets	□	□	×	×	×	×	×	×	×	□	□	□	×	×	5.4.41
Seasonal uses and markets	□	□	×	×	×	×	×	×	×	×	×	×	×	×	-
Self-storage	×	×	×	×	×	×	×	×	×	×	×	□	×	×	5.4.42
Sewage disposal plant	×	×	×	×	×	×	×	×	×	×	×	×	×	■	-
Shopping center, <25,000 sq.ft.	×	×	×	×	×	×	×	×	×	□	×	□	×	×	5.4.43
Shopping center, >75,000	×	×	×	×	×	×	×	×	×	×	×	□	×	×	5.4.43
Shopping center, 25,000-75,000 sq.ft.	×	×	×	×	×	×	×	×	×	×	×	□	×	×	5.4.43
Silviculture— for profit and research-related	□	□	×	×	×	×	×	×	×	×	×	×	×	×	-
Storage of junk, junk vehicles, salvage materials and waste	×	×	×	×	×	×	×	×	×	×	×	×	□	□	-
Tattoo parlor	×	×	×	×	×	×	×	×	×	×	×	■	×	×	-
Taxidermist	■	×	×	×	×	×	×	×	×	×	×	■	×	×	--
Telecommunication facilities and towers, wireless	□	□	×	×	×	×	×	□	□	□	□	□	■	■	5.4.44
Theater, indoor	×	×	×	×	×	×	×	×	×	■	■	■	×	×	-
Theater, outdoor	×	×	×	×	×	×	×	×	×	■	□	■	×	×	-
Tow yards (impoundment lots)	×	×	×	×	×	×	×	×	×	×	×	×	□	□	-
Utility operation center	×	×	×	×	×	×	×	×	×	■	×	■	■	■	-
Veterinary clinic and hospital	■	■	×	×	×	×	×	×	×	□	×	□	×	×	-
Warehousing	×	×	×	×	×	×	×	×	×	×	×	■	■	■	-

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5.4 Additional Use Conditions.

Certain uses, as noted in the Table of Uses as permitted with conditions or requiring Planning Commission approval, must meet additional conditions in order to be permitted within the City of Hattiesburg. These uses along with their applicable conditions are listed below.

5.4.1 Accessory Communication Antenna.

5.4.1.1 The following uses are permitted accessory uses:

i. The placement of an antenna, including other supporting equipment, on City Property that is zoned commercial or industrial.

ii. Installation of an Antenna on an existing structure excluding a tower (such as a building, light pole, water tower, or other free-standing nonresidential structure) that is 50 feet in height or greater, provided that the additional antenna adds no more than 21 feet to the height of the existing structure.

iii. Installation of an antenna on any existing tower of any height, so long as the addition of said antenna extends no more than 21 feet above the height of the existing tower or structure and the existing tower is not a legal, non-conforming tower.

iv. An antenna that is attached to a C.O.W. (Cellular on Wheels) may be located on property containing a legal conforming telecommunication tower.

5.4.1.2 Prior to the installation of any Antenna or tower covered by this ordinance the owner of such Antenna or tower shall make written application as required and include all information required therein. If the use requires a Use Permit Upon Review then the applicant shall also comply with the application for such permit and other requirements set forth by the City of Hattierburg.

5.4.1.3 Accessory antennas shall be concealed within or have an exterior appearance as a permitted principal or accessory structure permitted in the district where located.

5.4.2 **Accessory Uses, Buildings.**

5.4.2.1 In no event shall "accessory use" or "accessory structure" be construed to authorize a use or structure not otherwise permitted in the district in which the principal use is located.

5.4.2.2 All accessory uses and accessory structures shall conform to the applicable requirements of this ordinance, including all dimensional requirements and use, design and landscaping standards applicable to the primary use/structure. The provisions of this section establish additional requirements and restrictions for particular accessory uses and structures.

5.4.2.3 Accessory uses and structures that are clearly related to and incidental to the permitted principal use or structure on the lot are permitted in all districts.

5.4.2.4 All accessory uses and structures shall require the issuance of a certificate of zoning compliance.

5.4.2.5 Structures accessory to residential uses (except for agricultural buildings located in agricultural districts) shall have a combined floor area (aggregate of all detached accessory structures) of no more than 33% of the total floor area of the principal structure.

5.4.2.6 No accessory structure shall be located in a required front yard nor shall any accessory structure on a residential lot located in any zoning district be placed between the street and the rear building line of the principal structure except that:

i. In the A1 District, accessory structures located more than 100 feet from the primary street may be placed in the front yard; and

ii. Detached garages shall be permitted in side yards.

5.4.2.7 Temporary buildings and storage of materials and goods associated with construction or remodeling activity are permitted for a period not to exceed six months. One six-month extension may be granted on a case-by-case basis..

5.4.3 Adult Entertainment Establishments.

5.4.3.1 No adult establishment shall be located within 1,000 feet of the closest boundary line of any residential zoning district, or of the closest point on the property line of any church, school, day care, public park, residence or playground as measured by a horizontal straight line distance from the closest point on the closest boundary line of the property occupied by the adult establishment.

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5.4.3.2 No adult establishment shall be located within 1,000 feet of any other adult establishment as measured by a horizontal, straight line distance from the closest point on the closest boundary line of the property occupied by each.

5.4.3.3 No more than one adult establishment may be located within the same structure.

5.4.3.4 No printed material, slide, video, photograph, written text, live show, or other visual presentation shall be visible to the public or an adjacent property or use, nor shall any live or recorded voices, music, or sounds be heard from outside the walls of the establishment.

5.4.3.5 Any retail establishment having a preponderance of materials or sexually oriented devices shall be classified an adult establishment and shall meet all of the requirements of this ordinance for such.

5.4.4 **Agriculture, including Bona fide Farms.**

5.4.4.1 No more than one animal unit for each acre of suitable agricultural land shall be allowed.

5.4.4.2 No pens, enclosures, buildings, or other structures intended or used for the containment of livestock shall be permitted within 250 feet of the property line. This shall not include pastures, riding rings, small non-commercial enclosures for female chickens or similar areas intended or used for the containment of animals in such small numbers that they do not present any significant offsite impacts related to noise, odor, or stormwater runoff. All uses deemed exempt from this standard shall meet all other minimum setbacks for principal uses of the lot.

5.4.4.3 Two or more principal buildings used as part of the bona fide farm operation may be placed on a single lot of record when such buildings meet the siting requirements of this ordinance.

5.4.5 **Amusement Facilities, Fairgrounds and Stadiums, public or private.**

5.4.5.1 Outdoor amusement facilities shall be separated by an opaque screen as provided in Section 7 from any abutting property located in a residential district or containing a legal, conforming residential use.

5.4.5.2 No permanently established outdoor amusement facilities, such as miniature golf courses, skateboard courses, or mechanical rides shall be located within 500 feet of the closest point of any abutting property line located in a residential district.

5.4.5.3 The hours of operations may be determined by the Director; however, hours shall be no earlier than 8:00 a.m. and no later than 11:00 p.m.

5.4.5.4 All facilities that have amusement rides will include mandatory ride inspections by a Level II certified ride inspector as recognized by the National Association of Ride Safety Officials and copies of these inspections shall be on file in the recreational facility office and shall be required by the City before a permit to operate is approved.

5.4.5.5 Fairgrounds and stadiums shall have direct access to a major arterial or collector.

5.4.6 **Automatic Teller Machines (ATMs).**

5.4.6.1 Automatic teller machines shall be permitted as accessory uses as either freestanding or attached facilities.

5.4.6.2 Automatic teller machines shall be permitted as freestanding facilities only when the location of such facilities do not present a hazard to the motoring public and they are lighted and located in such a manner as to maximize the safety of the public using the facility.

5.4.7 **Automotive and truck repair and maintenance.**

5.4.7.1 **Car washes, Automatic and Full Service.**

i. All exterior walls and accessory washing areas shall be constructed so that they match the principal structure in design and materials.

ii. The outdoor service area of a car wash shall be placed and screened in accordance with the standards for on-site

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parking.

iii. Car washes, vacuums, and similar service devices shall be a minimum of 50 feet from the nearest portion of an adjacent residential zoning district or lot containing a legal, conforming residential use for facilities that do not include an automatic dryer. Where automatic dryers are installed, separation shall be 500 feet from the nearest lot line of an adjacent residential zoning district or lot containing a legal, conforming residential use.

iv. Car washes accessory to a principal use shall be located in the side or rear yard only.

v. Hours of operation shall be no earlier than 8:00 a.m. and no later than 11:00 p.m.

5.4.7.2 **Repair.**

i. The number of outside stored vehicles awaiting repair is limited to no more than 5 or 1 per service bay, whichever is greater. Stored vehicles must have a current tag and inspection sticker.

ii. Accessory junkyards including the storage of vehicles used for parts are not permitted.

5.4.8 **Bed and Breakfast Home; Bed and Breakfast Inn.**

5.4.8.1 **Meals and Alcohol.**

i. The establishment shall serve breakfast only to registered guests of the establishment. The price of breakfast shall be included in the room rate.

ii. Food services may only be provided to overnight guests of a Bed and Breakfast facility or to the guests at a commercial meeting.

iii. The proprietor shall meet all the requirements and seek approval by the County Health Department prior to serving meals.

iv. Serving alcohol to overnight and commercial meeting guests is allowed. The proprietor must meet all requirements of the Mississippi Alcohol Beverage Control Commission as governed by the standards set forth under Section 67-1-5 of the Mississippi Code of 1972, as amended, in order to serve alcohol at a bed and breakfast facility.

5.4.8.2 **Location.** A Bed and Breakfast Home shall be located in a property located within an existing local or National Register historic district, in a property listed in the National Register of Historic Places, a designated National Historic Landmark, or a property designated a Mississippi Landmark with the Mississippi Department of Archives and History.

5.4.8.3 **Residency required.** A Bed and Breakfast Home shall be the permanent residence of the owner of the establishment. A Bed and Breakfast Inn shall be the permanent residence of the owner of the establishment or resident manager.

5.4.8.4 **Commercial meetings.** Commercial meeting privileges are considered an accessory use to the Bed and Breakfast Home, and will be granted in the following manner:

i. Commercial meeting privileges shall be permitted on a case-by-case basis if the physical conditions of the property—size of the property, size of the residence, buffering of activities and parking areas, volume of traffic on adjacent streets—are adequate to accommodate a commercial land use. It shall be the burden of the applicant to prove that all requirements of this ordinance can be met, and that the proposed use will not have a negative impact on the safety, welfare and convenience of neighboring properties.

ii. The facility used for commercial meetings shall comply with all applicable standards under the International Fire Code adopted by the City of Hattiesburg. The

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square footage of assembly space and the number or capacity of people therein who will be attending such commercial meetings must be submitted in writing to the Planning Division with the permit application.

5.4.8.5 **Guest Book.** All Bed and Breakfast Homes shall maintain a guest book for overnight guests and for commercial meetings. It should include dates of stay, origin of visitors, and the dates of commercial meeting. The guest book may serve as evidence in the event that the bed and breakfast or commercial meeting privilege is in question or under review by the Planning Commission.

5.4.8.6 **Insurance.** Each person having a permit under this ordinance shall carry general liability insurance in the minimum amount of $500,000.00 covering such operation. Proof of insurance shall be kept on file in the Tax Department of the City of Hattiesburg.

5.4.8.7 **Compatibility.** Each application for a Bed and Breakfast shall be accompanied by clear and convincing evidence that there will be no substantial interference with the health, safety and welfare of the general public, as well as, the character and integrity of the surrounding residential area. In addition, a bed and breakfast facility shall not promote the commercialization of residential neighborhoods.

5.4.8.8 **Parking.**

i. No more than two off-street parking spaces shall be provided in the front yard.

ii. Off-street parking must be within 300 feet of the facility, and proof of such parking (lease agreement, site plan, etc.) must be provided to the Department of Urban Development at the time of application.

iii. The Planning Commission may require the screening of parking (landscaping, fencing, etc.) as a condition of approval. On-street parking will be acceptable on a case-by-case basis depending on individual neighborhood parking conditions and site limitations or characteristics.

iv. A maximum of one parking space for every three commercial meeting attendees as permitted by the Fire Code shall be provided.

v. Spaces required for commercial meetings shall be surfaced according to the standards set forth under the Residential Buildings section of the Historic Hattiesburg Design Guidelines Manual.

5.4.8.9 **Rooms.** Overnight guest accommodations shall be in the principal structure only, except that the Planning Commission must authorize the use of pre-existing accessory structures or outbuildings in residential districts. Such may be approved if it can be demonstrated to the satisfaction of the commission that the accessory buildings or structures proposed had been used previously as residences, and if the use of the same would not infringe on neighboring residents' privacy and the use and enjoyment of adjacent properties.

5.4.8.10 **Signs.** One (1), non-illuminated freestanding sign shall be permitted at bed and breakfast facilities in residential zoning districts. Signs must meet the guidelines set forth under Section 10. All other banners or flags used for advertisement or Bed and Breakfast identification purposes are prohibited. Signs identifying bed and breakfast facilities in non-residential zoning districts shall be erected according to the requirements of the individual district.

5.4.9 **Boarding House.**

5.4.9.1 The house shall be the permanent residence of the owner of the establishment.

5.4.9.2 In any residential zoning district, no more than two off-street parking spaces shall be provided in the front yard.

5.4.9.3 Off-street parking in the side and rear yards shall be screened in accordance with parking lot landscaping and screening requirements.

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Parking shall be placed on the lot in a manner designed to have the least physical impact on adjoining residential uses.

5.4.9.4 At all times the character of the use shall be residential and shall be designed and maintained to appear as a single-family use.

5.4.10 **Boat, Canoe, and Kayak Rental**

5.4.10.1 Facilities must include an office for the conduct of business.

5.4.10.2 In the B4 district, all storage must be indoors.

5.4.11 **Broadcast Studios, Radio and Television.**

5.4.11.1 Broadcast studios shall be permitted only when the applicant can adequately demonstrate that any antenna and/or transmission related to the use will not interfere with the normal and customary television and radio reception enjoyed by city residents.

5.4.12 **Care Center; Care Home.**

5.4.12.1 Drop-off and pick-up areas must be shown on the site plan and approved as part of the Site Plan Review.

5.4.12.2 Outdoor play and recreation areas shall be located behind the front building line in the rear yard or side yard only.

5.4.12.3 All outdoor play and recreation areas shall be surrounded by a fence or wall at least four feet in height. A minimum of 50% of the area shall be pervious.

5.4.12.4 Outdoor activities are limited to the fenced area between 8:00 a.m. and 8:00 p.m.

5.4.12.5 Care of a person shall not exceed 12 1/2 hours for any part of the 24 hour day.

5.4.12.6 Care Home must be clearly incidental to the residential use of the dwelling and must not change the essential residential character of the dwelling; all building and lot standards for residential dwellings shall be maintained.

5.4.12.7 A Care Home shall be staffed by persons residing in the dwelling in which the care is located except that up to one non-resident may report to work at the home.

5.4.12.8 Care Home shall be located in a structure originally constructed as and designed for a single-family dwelling which shall remain the principal use on the lot. The structure shall not be altered in any manner which diminishes its value as a single-family dwelling or which changes its exterior residential character.

5.4.12.9 The owner of a Care Home shall reside in the Care Home.

5.4.13 **Cemetery.**

5.4.13.1 Tombstones, crypts, monuments and mausoleums must be located at least 50 feet from any street right-of-way line or abutting property. Greater setbacks shall be observed if otherwise required by the zoning district in which it is located. Gravesites shall also be set back at least twenty feet from any side or rear lot lines in cemeteries (or cemetery expansions).

5.4.13.2 Sales of crypts shall be allowed as an accessory use on premises (for cemeteries as a principal use only). No building in conjunction with such sales shall be located closer than twenty feet from any side lot line abutting a residential district and forty feet from any such rear lot line. Greater setbacks shall be observed if otherwise required by the zoning district in which it is located.

5.4.13.3 A minimum of three acres shall be needed for any cemetery being developed as a principal use.

5.4.14 **Civic, Cultural and Community Centers.**

5.4.14.1 Facilities having a seating capacity in excess of 600 persons shall have direct access to a major thoroughfare.

5.4.15 **Clubs and Bars.**

5.4.15.1 Amplified music, loud speakers, and similar noise devices shall not be permitted outdoors. Noise emanating from the club shall not exceed ambient noise levels in the surrounding area at a distance of more than 100 feet from any point of the property containing the club.

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5.4.15.2 Off-premises parking for bars in B3 is not permitted.

5.4.16 **Cluster Subdivisions.**

5.4.16.1 All lots within the development shall be accessed solely by interior streets, except that lots used for permitted non-residential uses may have driveway access to adjacent streets if approved by the City.

5.4.16.2 No non-residential use in the development shall be permitted within 150 feet of the perimeter of the development site unless the adjacent zoning district permits such use.

5.4.16.3 The overall density of the cluster subdivision shall not exceed that of an unclustered subdivision except where increased density is allowed as an incentive. Land "saved" by clustering shall be dedicated for open space.

5.4.16.4 Permanent open space conserved as part of the cluster subdivision shall be designed to serve one of the stated purposes for cluster subdivisions or shall be so arranged as to mitigate the impacts of clustering on adjoining properties.

5.4.16.5 The minimum lot size and interior lot setbacks may not be reduced to less than fifty percent of the minimum lot size and setbacks for the district in which the cluster subdivision is located.

5.4.17 **Construction Offices.**

5.4.17.1 All outdoor storage of non-passenger vehicles and building materials shall be kept at least 100 linear feet from any adjacent lot containing a legal, conforming residential use and shall be located in a side or rear yard only.

5.4.17.2 Outdoor storage shall be screened from major thoroughfares and adjacent properties in accordance with the screening requirements set forth in Section 7.9

5.4.17.3 A maximum open storage space of 50% of the side and rear lot area is allowed for business and industrial equipment and materials.

5.4.17.4 Open storage of items shall not be piled or stacked over 20 feet in height above grade.

5.4.18 **Dwelling, Multi-Family.**

5.4.18.1 On infill development sites in residential districts, multi-family buildings shall be designed to blend in with surrounding single-family residential buildings to the maximum extent practicable with regards to building design, setbacks, driveway and garage design and location, porches, and sidewalks.

5.4.18.2 Site designs shall create a sense of "neighborhood" and shall meet the following requirements:

i. Buildings shall be sited with front entrances and porches oriented toward streets, drives, and plazas, rather than clustered around parking lots.

ii. An internal vehicular circulation system for private streets, when included, shall be reflective of a single-family residential street system.

iii. Parking lots shall be located behind buildings, except where it is deemed appropriate to use a parking lot as a buffer from an arterial street, or where such parking area will directly abut a property line exterior to the development site when located in or adjacent to a residential district.

iv. Walkways shall connect all buildings with parking areas, play areas, clubhouses, and existing public sidewalks adjacent to the development site.

v. Plazas, clubhouses, pools, and recreational facilities shall be centrally located, when provided.

5.4.18.3 Building designs that create variety and do not look monotonous if replicated throughout the development shall be required. Such designs shall include the following:

i. Side and rear building elevations, garages, carports, and all accessory structures shall have the same level of design, aes-

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thetic quality, and architectural detailing.

ii. Porches, varied rooflines, and varied façade depths shall be provided to create variety and individuality of each building.

iii. Windows and projecting wall surfaces shall be used to break up larger wall surfaces, establish visual interest and provide visibility of the street and other public spaces encouraging social interaction.

iv. Protective entry courts, common vestibules, covered breeze ways, or enclosed stair halls shall be used to reduce the number of visible doors, unless designed in a row house or townhouse manner oriented toward the street.

v. Garages shall be designed to be integrated with the building design or sited so as to avoid long monotonous rows of garage doors and building walls. Garages shall be oriented so that they do not visually dominate the building façade or the streetscape.

5.4.19 **Dwelling, Zero Lot Line.**

5.4.19.1 There shall be no minimum side setback on one side and 10 feet on the opposite side except on corner lots where the minimum side yard shall be 10 feet. A five foot maintenance easement shall be required for any structure where an exterior side abuts a lot line.

5.4.19.2 No appurtenance shall hang over the property line including but not limited to awnings, windows, porches, entryways and eaves.

5.4.19.3 Where adjacent zero lot line dwellings are not constructed against a common lot line, the builder or developer must provide for a perpetual wall maintenance easement of at least five feet in width along the adjacent lot and parallel with such wall.

5.4.19.4 No zero lot line dwellings shall be constructed less than 10 feet from a parcel zoned A-1, A-2, R-1A, R-1B, or R-1C.

5.4.19.5 Manufactured homes are not permissible structures for zero lot line developments.

5.4.20 **Funeral Home, Mortuary and Crematorium.**

5.4.20.1 Funeral homes must have access to collector or arterial streets. Access to local streets is prohibited.

5.4.21 Gated Communities.

5.4.21.1 **Design and Approval of Gatehouses and Entry Gates.**

i. Gatehouses and entry gates shall be located outside any required buffer areas.

ii. Entry gates shall be setback sufficiently far from public street entrances to allow for stacking of at least three vehicles out of the public travel lanes.

iii. Adequate space shall be required to allow a vehicle which is denied access to safely turn around and exit onto a public street.

iv. Pedestrian access to the gated community shall be provided at its entrance outside of the vehicle travel lanes.

v. Entry gates shall have sufficient minimum gate widths, heights and openings to allow safe passage of all vehicles permitted to use public roadways.

vi. All gatehouses and entry gates shall be subject to specific review and approval of the Planning Commission prior to the start of construction. Review and approval shall include any integral signage and illumination.

5.4.21.2 **Private Roads.** All private roads, traffic signs and markings shall meet all applicable minimum right-of-way, pavement, construction, and design standards for public roads. The city reserves the right to have streets inspected during the construction phase to insure that they are being built in accordance with all applicable standards. The developer of the subdivision shall bear all costs borne by the City in association with such inspec-

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tions.

5.4.21.3 **Homeowners Association Required.** Prior to the approval of a final plat, the subdivider shall submit to the City evidence that a homeowners' association has been created whose responsibility it will be to maintain common areas, gatehouses and entry gates, private streets, curb and gutter and sidewalks within the subdivision. Such evidence shall include filed copies of the articles of incorporation, declarations, and homeowners' association bylaws.

5.4.21.4 **Access.** The subdivider and homeowners' association shall guarantee access to all private streets by emergency and law enforcement vehicles and government officials on official business. Access procedures must ensure immediate access through the entry gates for emergency and law enforcement vehicles responding to emergencies. Approach and departure areas on both sides of a gated entrance must provide adequate setbacks and proper alignment to allow free and unimpeded passage of emergency vehicles through the entrance area. The subdivider shall provide documentation from the appropriate law enforcement agency that proposed entry gates and access procedures meet these standards.

5.4.22 **Group Care Home; Group Care Center.**

5.4.22.1 A group home shall be located in a structure originally constructed as and designed for a single-family dwelling which shall be the principal structure on the lot. The structure shall not be altered nor the site used in any manner which diminishes its value as a single-family dwelling or which changes its exterior residential character.

5.4.22.2 Group care centers serving individuals who are deemed to be a danger to themselves or others must be identified by the applicant during Site Plan Review Care centers may not serve more than 20 residents; however, in order to protect the health and safety of the community, the Planning Commission has the right to further restrict the location of facilities and the number of residents, and to require increased buffering, screening, and fencing.

5.4.23 Heliports.

5.4.23.1 Heliports shall only be permitted as accessory uses to emergency medical facilities and industries.

5.4.23.2 Landing pads for on-grade heliports shall be set back a minimum of 400 feet from lots used for residential purposes, public or private schools, or public parks. These distance requirements may be reduced one foot for each one foot of the elevation above ground level for elevated heliports.

5.4.23.3 The heliport landing area shall be constructed of a material which is free of dust and loose particles which may be blown about by the down blast of the helicopter rotor.

5.4.23.4 Lighting is to be provided according to Federal Aviation Administration (FAA) requirements and is to be oriented as much as possible away from adjacent uses.

5.4.24 Home Occupations.

5.4.24.1 A customary home occupation is permitted accessory to any dwelling unit (except manufactured housing) in accordance with the following requirements:

5.4.24.2 The home occupation must be clearly incidental to the residential use of the dwelling and must not change the essential residential character of the residential dwelling.

5.4.24.3 Home occupations shall not be carried out in more than 10 percent of the total dwelling building area, not to exceed 500 square feet.

5.4.24.4 Customer and client contact shall be primarily by telephone or mail, and not on the premises of the home occupation, except those home occupations, such as tutoring, counseling or personal services which cannot be conducted except by personal contact. Services or sales conducted on the premises shall be by appointment only, and shall not be oriented toward, or attract, off-the-street

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customer or client traffic. Barber shops and beauty shops shall be limited to one chair for clients.

5.4.24.5 There shall be no use of utilities or community facilities beyond that reasonable to the use of the property for residential purposes.

5.4.24.6 Off-street parking for customers shall not exceed one space. Vehicles used in connection with a home occupation shall not be parked overnight on a public right of way. The conduct of any home occupation shall not reduce or render unusable areas provided for the required off-street parking or prevent the number of cars intended to be parked in a garage from doing so.

5.4.24.7 Not more than one home occupation related vehicle, excluding pick-up trucks, is permitted, which must be 20 feet or less in overall length and not more than seven feet in overall height and which must be parked off any public ROW behind the residence. All exterior storage of cargo, equipment or other material shall be shielded from view at all times when such vehicle is located on a residential lot.

5.4.24.8 A home occupation located on a local street, or privately maintained road servicing three or more residences, shall not generate more than 20 vehicle trips in one day. A "trip" is a vehicle traveling in one direction to or from a source. 20 trips is equivalent to 10 round trips.

5.4.24.9 Delivery of materials to and from the premises shall not involve the use or frequency of vehicles not normally experienced in residential areas.

5.4.24.10 Primary sale of goods in connection with such home occupation shall be that which is prepared, produced or grown on the premises.

5.4.24.11 There shall be no retail, wholesale or warehousing activity other than that which is clearly incidental to the direct provision of service.

5.4.24.12 A home occupation conducted in an accessory structure shall be housed only in a garage or other accessory structure typically associated with a dwelling.

5.4.24.13 The use shall employ no more than one person who is not a resident of the dwelling including volunteers.

5.4.24.14 There shall be no visible outside display of stock in trade which is sold on the premises.

5.4.24.15 There shall be no outdoor storage or visible evidence of equipment or materials used in the home occupation, except equipment or materials of a type and quantity that could reasonably be associated with the principal residential use.

5.4.24.16 Only vehicles used primarily as passenger vehicles will be permitted in connection with the conduct of the home occupation.

5.4.24.17 The home occupation shall not use mechanical, electrical, or other equipment which produces noise, electrical or magnetic interference, dust, vibration, heat, glare, or other nuisances outside the dwelling or accessory structure housing the home occupation.

5.4.24.18 Home occupations shall be limited to those uses which do not draw clients to the dwelling on a regular basis except that instruction in music, dance, voice and similar activities shall be limited to two students at one time.

5.4.24.19 No advertising signs shall be permitted.

5.4.25 **Ice machines and Similar Commercial Accessory Structures.**

5.4.25.1 **Accessory Only.** Ice machines and similar structures are only permitted as accessory structures to legal, conforming principal uses.

5.4.25.2 **Location.** Such structures shall be located in a side or rear yard only.

5.4.25.3 **Design.** Such structures are subject to all of the design standards applicable to the district in which they are located as well as those that apply to all districts.

5.4.25.4 **Parking.** Parking for at least two vehicles is required to be shown on the site plan.

5.4.26 **Kennels; Veterinary Clinics and Hospitals.**

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5.4.26.1 A maximum of twenty outside runs shall be permitted and shall be 250 feet from restaurants and residential uses..

5.4.26.2 Facilities shall at all times be maintained in neat and sanitary condition.

5.4.27 **Life Care Communities.**

5.4.27.1 A minimum of five acres shall be required. All land used for the community shall be contiguous and shall not be divided or transected by public roads, private roads granting easement(s) to tracts of land not included within the community, or natural features which would visually or functionally divide the development.

5.4.27.2 Accessory buildings shall only include accessory dwellings containing no more than four dwelling units or recreation centers and similar facilities, dining halls, and maintenance buildings. All other buildings shall be principal buildings the use of which shall be for single family dwellings, multi-family dwellings, congregate or nursing care.

5.4.27.3 All structures shall be limited in occupancy to persons aged 55 years or older, the physically handicapped, and their spouses except for rooms or units occupied by resident staff personnel performing duties directly related to the operation of the facility.

5.4.27.4 Driveway access to accessory structures shall be through the main entrance to the community.

5.4.27.5 Paved walkways shall be provided between accessory dwellings, the principal building, and all common facilities such as dining halls and recreation centers.

5.4.27.6 Principal and accessory buildings shall be predominately designed and constructed with architectural features common to residential structures including, but not limited to, the following features: roof pitch, façade material, and size, type and placement of windows and doors.

5.4.27.7 No single building shall be greater than 40,000 square feet if located within 500 feet, as measured in any direction from the closest point, from an adjacent residentially zoned lot.

5.4.27.8 No site shall have a density greater than eight units per acre for accessory single family dwellings. For the purposes of calculating density all land lying underneath and within twenty feet of any congregate care or nursing care facility and all loading/unloading, garbage collection, and parking areas associated with congregate care or nursing care facilities shall be excluded from the total acreage.

5.4.28 **Manufactured Home.** Manufactured homes on individual lots shall meet the following requirements:

5.4.28.1 **Compatibility.** Homes shall be generally in keeping with the scale, size and texture of the residential structures in the surrounding neighborhood.

5.4.28.2 **Anchoring.** Homes shall be anchored according to International Building Code requirements.

5.4.28.3 **Labeling.** Shall bear FMHCCS Label or Seal of Compliance.

5.4.28.4 **Exterior finish.** Homes shall have horizontal siding. At a minimum, the exterior siding shall consist predominantly of vinyl or aluminum lap siding whose reflectivity does not exceed that of flat white paint, wood or hardboard, comparable in composition, appearance, and durability to the exterior siding commonly used in standard residential construction.

5.4.28.5 **Roof construction and pitch.** Homes shall have a minimum of a 3/12 roof pitch with asphalt shingles.

5.4.28.6 **Placement.** All homes shall be placed on the lot in harmony with the existing site-built structures. Where no neighboring structures are available for comparison, it shall be sited with the front running parallel to the street providing access to the site.

5.4.28.7 **Equipment Removal.** The towing tongue, wheels and hitch-axle shall be removed upon

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final placement of the unit.

5.4.28.8 **Foundation.** All manufactured homes shall be placed on permanent masonry foundations, preferably brick, with no visible concrete block.

5.4.28.9 **Size.** Homes shall be a minimum of 24 feet in width, transportable in two or more sections.

5.4.28.10 **Porch Required.** All manufactured homes shall have either a deck or porch with steps at each entrance constructed and installed in accordance with the standards set forth by the International Building Code. The minimum square footage of the floor of such porch or deck shall measure at least 36 square feet.

5.4.28.11 **Age.** No home more than five years old may be relocated or moved onto a lot.

5.4.29 **Motor Vehicle Repair, Maintenance, Rental and Sales.**

5.4.29.1 **Display of Vehicles for Sale or Lease.**

i. Vehicles for sale or lease may be displayed in the established front yard provided that no vehicle shall be displayed within fifteen feet of the street right-of-way.

ii. All new display areas shall be paved.

5.4.29.2 **Outdoor Storage.**

i. A motor vehicle repair, service, body or paint shop which has wrecked, partially dismantled, or inoperative vehicles located on-site shall store these vehicles in an enclosed building or in a separate motor vehicle storage yard which meets the requirements of this ordinance for such yards.

ii. Storage areas are exempt from the interior landscaping requirements for parking lots. However, the perimeter landscaping requirements of parking lots shall apply to such storage areas

iii. Storage areas may only be located behind the principal building and/or its accessory buildings, and shall not be placed within 100 feet of any property line that abuts a thoroughfare or local public street

5.4.29.3 **Speakers.** Businesses are prohibited from using amplified speaker/public address systems except within fully enclosed building(s).

5.4.30 **Places of Assembly.**

5.4.30.1 Places of assembly seating more than 600 people must have direct access to a major thoroughfare Pedestrian and bicycle access is encouraged and will be required whenever a public sidewalk or trail abuts the property.

5.4.30.2 Accessory uses such as administrative offices, bookstores, parking lots, community centers, multi-purpose facilities, outdoor recreational facilities, and care centers on the same site or sites contiguous to the principal use shall be permitted. Similar uses on non-contiguous sites or on a site separated from the principal use by a public street shall be considered principal uses in their own right and will be regulated as such. No merchandise or merchandise display shall be visible from outside a building. No business or identification sign pertaining to an accessory use shall be visible from outside the building

5.4.30.3 Except as noted in 5.4.33.2 accessory uses not permitted as principal uses (including television stations, radio stations, printing presses, or sports complexes) are prohibited.

5.4.31 **Public and Community Utility Facilities.**

5.4.31.1 Utility distribution lines, which deliver service to the end user from a substation fed by a transmission line providing service to an area larger than the individual parcel or project area, shall be installed underground, unless subsurface conditions make underground installation not possible or practical.

5.4.31.2 All distribution and transmission equipment and structures associated with a utility shall be designed and installed to be as inconspicuous as possible; shall not interfere with the installation or enjoyment of public facili-

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ties or facilities that serve the public such as sidewalks, bike paths, and driveways; and shall be installed away from public streets and residences to the maximum extent practicable.

5.4.32 **Public Safety Station.**

5.4.32.1 Architectural drawings and site plans shall be submitted with each application for gun ranges intended for the training of law enforcement personnel demonstrating that the safe use of the property and its ability to integrate with the area in which it is located is possible.

5.4.32.2 Public safety gun ranges shall only be permitted in the A-1 district.

5.4.33 Rehabilitation Centers, Nursing Care, Assisted Living, Congregate Care, Palliative Care, and Hospice Care.

5.4.33.1 Driveway access to accessory structures shall be through the main entrance to the facility.

5.4.33.2 No single building shall be greater than 40,000 square feet if located within 500 feet, as measured in any direction from the closest point, to a lot line of an adjacent residentially zoned lot.

5.4.34 **Restaurants With and Without Drive-Through Service.**

5.4.34.1 All restaurants with drive-through service shall provide a minimum of five stacking spaces associated with each drive through window.

5.4.34.2 No required or intended stacking spaces shall block the safe flow of motoring and pedestrian traffic within the parking lot.

5.4.34.3 Drive-through facilities located closer than 300 feet to a residential use shall operate no earlier than 6:00 a.m. or later than 12:00 a.m.

5.4.34.4 No part of the active use area of a drive-through restaurant shall be located closer than 300 feet to a lot containing a legal, conforming residential use.

5.4.34.5 All restaurants located within the B-1 and B-2 districts shall be limited to a capacity of 80 seats.

5.4.34.6 All restaurants that abut residential districts shall be screened entirely from view of adjacent residential properties by an opaque fence and/or vegetative screen to a minimum height of six feet. Such screen shall meet the minimum height requirement at the time of issuance of a certificate of occupancy.

5.4.35 **Retail (all sizes).**

5.4.35.1 No outside storage shall be permitted unless approved by the City as approved by the Site Plan Review Committee.

5.4.35.2 All proposed areas for outside display and storage shall be clearly marked on the site plan, including but not limited to, open displays of garden supplies, equipment, and other materials and any cargo containers, tractor trailers, storage buildings or similar structures used or intended to be used to contain materials for sale, maintenance, construction, etc. All outdoor storage of logs, lumber and building materials shall be kept at least 100 linear feet from any adjacent residential lot and shall be located in a side or rear yard only.

5.4.35.3 The parking of recreational vehicles overnight or camping in any manner on any portion of the lot shall be prohibited.

5.4.35.4 Any area intended for use by vendors, civic groups, and other parties either on a temporary or permanent basis for outdoor display, sales, fundraising, etc. shall be clearly marked on the approved site plan.

5.4.35.5 Should a structure and/or lot containing an approved retail establishment become vacant, the exterior of such structure and lot shall be maintained in the same manner as during occupancy including the condition of landscaping, paved surfaces, exterior lighting, façade, etc. The reuse of the structure or lot for any purpose shall be approved by the City prior to such reuse.

5.4.36 **Riding Academy and Stables.**

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5.4.36.1 Facilities shall occupy a zoning lot containing not less than five acres.

5.4.37 Schools.

5.4.37.1 Accessory and incidental buildings shall be placed within established rear yards and side yards that do not abut a street.

5.4.37.2 Schools shall be planned, sized and sited to serve as community assets and to integrate with and complement surrounding development. Whenever possible, large schools on greenfield sites away from city should be avoided.

5.4.37.3 Truck driving schools with outdoor maneuvering areas shall not be permitted in any residential or mixed use district.

5.4.38 **Seasonal Uses and Markets.**

5.4.38.1 The sales period for temporary Christmas tree sales lots shall start no sooner than November 15.

5.4.38.2 No more than one trailer shall be used to store goods for sale. All sales structures shall meet the setback of the district in which they are located.

5.4.38.3 The use may only be located on a vacant lot, on a lot occupied by a nonresidential use, or on the site of a bona fide farm operation.

5.4.38.4 Off-street parking may be provided behind or to the side of the established use, but not forward of the required front setback.

5.4.38.5 On-site parking may be provided on a low dust, pervious surface area and need not comply with additional paving requirements.

5.4.38.6 Such uses shall not include flea markets or any sales of merchandise or products not related to the seasonal sale of agricultural produce.

5.4.38.7 Farm-type enterprises when considered as being part of bona fide farms such as plant nurseries, commercial greenhouses, fruit or vegetable packing sheds, retail sale of products grown on premises, hatcheries, and similar commercial and processing activities shall be permitted in the A districts without a certificate of zoning compliance unless new parking, driveways, or structures are required. Curb markets are exempt from zoning requirements.

5.4.39 **Self-Storage Facilities.**

5.4.39.1 Self-storage warehouse spaces shall be used for storage only. No space shall be leased or used for any other purpose. Any other use associated with the warehouse, such as office or commercial, shall meet all applicable standards of this ordinance for that use for the district in which it is located as well as all other local or state codes that may apply. All uses of the site shall be clearly defined and designated on the site plan prior to zoning approval.

5.4.39.2 Outside storage shall be screened and shall not be located closer than 100 feet, lot line to lot line, to a residential or mixed-use zoning district or a lot containing a legal, conforming residential use. Outside storage of recreational vehicles, boats and trailers shall be completely screened or located on the rear one half of the property and not visble form the street.

5.4.39.3 All driveways and parking areas between and around buildings shall be paved with asphalt or concrete including parking areas for the storage of boats, recreational vehicles and similar vehicles.

5.4.40 **Shopping Centers (all sizes).**

5.4.40.1 Shopping centers shall meet the additional conditions for retail uses.

5.4.41 **Telecommunication Towers.**

5.4.41.1 The following requirements shall govern the location of telecommunication towers and associated accessories which, when installed, will exceed 21 feet in height above existing grade. The height limitations applicable to buildings and non-tower structures shall not apply to towers, antennas and associated accessories.

5.4.41.2 **Purpose and intent.** The purpose of these reg-

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ulations is to facilitate the reasonable needs of wireless telecommunications service providers and tower owners and to minimize potential adverse impact of such facilities on the community, aesthetic or otherwise, by:

i. Minimizing the total number of towers throughout the city and immediate surrounding area.

ii. Promoting joint use of existing and new towers for placement of antennas by multiple providers and by encouraging multiple providers to place Antennas in or on other existing structures.

iii. Encouraging placement of towers and antennas on city property, non-residential and other properties where adverse impact would be minimal.

iv. Protecting residential areas and other appropriate land uses from the potential adverse impact of towers and antennas, both aesthetic and otherwise.

v. Encouraging users of towers and antennas to place and configure them in such a way that minimizes visual impact, effects from lighting, design and signs.

vi. Avoiding potential damage to adjacent properties from tower failure, through engineering design and siting with adequate setback from adjacent properties and safety review prior to installation.

vii. Provide the minimum regulation of amateur radio antennas to insure the health, safety and welfare of adjoining landowners.

5.4.41.3 In addition to general site plan requirements as set forth in Appendix B, Site Plan Requirements, each application for a new tower shall be accompanied by site plans showing:

i. The actual dimensions of the lot to be built upon or leased. If leased, then also the dimensions of the lot on which leased portion is located.

ii. The size and height of the tower to be erected.

iii. Tower type (e.g., monopole, guyed or lattice).

iv. The location of any existing structures on the lot, if any.

v. The distance to the nearest residential structure.

vi. Setbacks or the collapse zone. If collapse zone is used, documentation verifying the collapse zone dimensions.

vii. The location of all other towers and antennas owned by the applicant inside the City and within one mile of the City limits.

viii. Other information as may be essential and any information requested by the Planning Commission which is necessary for determining whether the provisions of this ordinance are met.

5.4.41.4 Each application for a new tower shall include a report from a qualified and licensed professional engineer that provides the following:

i. Engineer's statement that:

- Existing or approved telecommunications towers with available co-location space are not located within the search area.
- Existing or approved towers or structures are not of sufficient height to meet the provider's specifications.
- Existing or approved towers or structures do not have sufficient structural strength to support the applicant's proposed antennas.
- The provider's proposed antenna would cause objectionable radio frequency interference with existing or planned antennas on an existing or planned tower, (e.g., the spacing requirement between

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antennas cannot be met).Existing or approved towers lack co-location space.

i. If it is determined that an existing tower does not have the structural strength or integrity to support additional antennas and associated equipment, then documentation shall be submitted that the existing tower cannot be structurally strengthened to accommodate an additional user.

ii. The tower and/or antenna height and design, including a cross section and elevation.

iii. The height above grade for all potential mounting positions for co-located antennas and the minimum separation distances between antennas.

iv. The tower's capacity, including the number and type of antennas.

v. A statement of non-interference with established public safety telecommunications structures.

vi. Engineer's stamp and registration number licensed in the State of Mississippi.

vii. The estimated cost of the tower, antenna and other related equipment.

viii. Estimated costs for removal of the tower or antenna should it become abandoned or unused.

5.4.41.5 It is the intent of the City to encourage providers to co-locate facilities in an effort to reduce the number of telecommunication towers. Unless it is determined to be unfeasible, new communications towers should be capable of supporting additional communications antennas. The city requires providers to negotiate in good faith with other providers to lease space at a reasonable cost and for reasonable terms, and to publicize the fact that space is available on a lease basis as part of the certificate of zoning compliance process. Owners of all commercial towers shall file a letter of intent committing the tower owner and all successors to allow the shared use of the tower provided the additional user agrees in writing to meet reasonable terms and conditions for shared use.

5.4.41.6 **Prior to issuance of a certificate of zoning compliance, the following additional items shall be submitted:**

i. Site Plan approved by the Site Plan Review Committee.

ii. Copy of the appropriate FAA or FCC license or pending application for approval of the tower or Antenna, if applicable.

iii. Proof that the proposed tower complies with regulations administered by the FAA and FCC or that it is exempt from those requirements.

iv. If an Environmental Assessment (EA) is required as a result of FCC action granting applicant's Application for Antenna Structure Registration pursuant to the National Environmental Policy Act (NEPA), the applicant must provide a copy of the EA with the application. No permit shall be issued until the EA has been submitted to the Department of Urban Development along with the findings of the FCC regarding the EA. Specifically, the applicant must advise the board whether the FCC has issued a finding of no significant impact (FONSI) or has required the preparation of an environmental impact statement (EIS).

v. A report from a licensed professional engineer, registered in the State of Mississippi, which demonstrates the tower's compliance with all applicable codes and ordinances.

vi. An annual performance bond covering 125% of the projected cost of tower removal, including appurtenances, shall be filed with the City and renewed and refiled every twelve months thereafter along with proof of adequate insurance

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coverage (see Subsection 5.4.3 - 5.4.7). The amount of removal shall be determined by a removal company and certified by a qualified professional. This amount shall be updated and recertified annually as part of the bond renewal. In the event the tower shall become abandoned and the owner fail to remove the tower within ninety days the City shall be authorized to cash the performance bond and remove the tower and all of its appurtenances.

vii. Proof of liability insurance for a minimum of $1,000,000 naming the City of Hattiesburg as additional insured.

viii. A copy of all information submitted to the Mississippi Department of Archives and History for Section 106 review purposes under the National Preservation Act and 36 CFR Part 800 along with a copy of the letter or certificate clearing the tower, by the Mississippi Department of Archives and History. No permit shall be issued until the clearance letter is issued by the Mississippi Department of Archives and History and received by the Department of Urban Development.

ix. If the applicant is not a wireless telecommunication services provider holding a FCC license to provide such service then the applicant shall provide a binding letter of intent or contract with a licensed wireless telecommunication services provider to locate on the proposed tower.

x. Parameters for the wireless telecommunication service search ring and the design criteria for the entire area including the City of Hattiesburg.

5.4.41.7 Design Criteria.

i. Where a telecommunication tower is to be located on a lot with an existing principle use, the tower shall be located in the rear yard only. In addition, a recorded easement for an access road at least twelve feet wide shall be maintained by the property owner and/or the applicant from a public street to the tower for use by service and emergency vehicles.

ii. The city encourages stealth tower design and locations.

iii. Towers are prohibited on the top of buildings or structures except that towers on roofs may be allowed when the tower height: a) does not exceed more than thirty percent of the height of the building; or b) is no more than fifty feet above the building/structure, whichever is less. Towers on roofs or walls shall be screened, constructed, and/or colored to match the structure to which they are attached.

iv. The city recognizes that telecommunications facilities (both towers and co-locators) cannot be prohibited, nor can a request for a telecommunications tower be denied on the basis of environmental or health concerns relating to radio emissions if the telecommunications equipment and facility complies with the federal radio frequency emission standards. The city requires that each applicant for a certificate of zoning compliance provide documentation proving that their telecommunications equipment complies with the federal radio frequency emission standards.

v. All accessory structures on the ground which contain switching equipment or other related equipment should be architecturally compatible with surrounding buildings and land uses in the zoning district, or otherwise integrated, through location and design, to blend in with the existing characteristics of the site to the extent practical. This means structures with pitched roofs, made of local construction materials, such as brick, wood, stone, or vinyl lapped siding.

vi. Landscape screening shall be required

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along the outside area of the perimeter-fenced area(s) to mitigate the visual impacts of the tower and equipment buildings from nearby viewers. All landscape materials and the planting schedule shall meet the requirements for screening listed in Section 7.10.

vii. Screening requirements shall not apply to telecommunications providers who have camouflaged (stealth towers) towers or who have located antennas within another structure (such as a steeple), or who have co-located on an existing tower. Nor shall screening apply when an antenna will be mounted on an electrical transmission tower or on structures such as a water tower/tank, grain silos, etc. or similar structures.

viii. The Planning Commission may waive any or all of the screening requirements upon determining that the existing topography or existing natural materials on site will screen the property as effectively as the required screening, provided that the spirit and intent of this subsection are met. The Commission may also waive screening on those sides of the proposed tower that are located adjacent to undevelopable property. Such a waiver may not be sought to relieve the screening requirement for towers to be located adjacent to vacant properties or along any public right-of-way. Undevelopable property shall constitute any such property or land that is unable to be used as a building site (e.g., a floodplain, etc.).

ix. Towers shall be a minimum of 300 feet from the nearest residentially zoned lot.

x. Telecommunications providers who are leasing a portion of a lot for the proposed telecommunication tower shall obtain written a signed certification from the property owner that no future development or subdivisions or leased portions will be made within the established setbacks of the telecommunication tower until such tower is removed from the site (e.g., is abandoned and removed by the provider). This does not apply to telecommunication providers seeking to co-locate on an existing tower.

xi. Freestanding signs are prohibited. Wall signs shall be limited to: a) identification signage allowed on equipment structures or fences surrounding the telecommunication tower/structure provided it does not exceed nine square feet in size; and b) "no trespassing" signs, "danger - high voltage" signs, and other similar warning signs shall be installed to discourage trespassing by unauthorized persons. Signs shall be installed and/or mounted on the perimeter fence, and/or on the tower at its base.

5.4.41.8 Applications by providers to use co-location space on a legally conforming existing tower shall be considered an accessory antenna application permitted by right as provided in Subsection 5.4.1. The issuance of a certificate of zoning compliance shall be required.

5.4.42 **Temporary Units and Temporary Dwellings.**

5.4.42.1 A temporary certificate zoning compliance may be issued for a period of one year, according to specific use and other requirements of the zoning district in which the unit is to be located, under the following circumstances: 1) an urgent hardship situation is established upon review by the zoning enforcement officer. Such hardship shall involve loss of a principle dwelling due to disaster; 2) housing need of parents or dependents of the family occupying the principal dwelling, considering factors such as illness, need to care for elderly, lack of space within the principal dwelling; or 3) financial hardship.

5.4.42.2 Extensions shall be possible only upon administrative review by the Planning Commission establishing continued hardship, except that financial hardship alone shall not be the basis for any extension. Extensions shall be granted in one year increments. No more than two extensions shall be permitted.

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5.4.42.3 The Director may approve a temporary permit for a camper or other mobile unit to be used as an office by a builder during construction in any district. Permits for two consecutive six-month periods may be issued provided that construction is carried on diligently. Any further extension of permits for temporary units shall be approved by the Planning Commission. No such temporary unit shall be used as living quarters.

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SECTION 6. DIMENSIONAL STANDARDS AND MEASUREMENTS

6.1 District Dimensional Standards.

The following dimensional standards shall apply to all development in all standard districts unless otherwise noted in this ordinance. Dimensional standards for special districts shall be set by adopted plans for those districts.

*Whichever is less

6.2 Additional Dimensional Standards Requirements for Standard Districts.

6.2.1 Roof overhangs or appurtenances not at grade may project from outside wall of residence no more than three feet, and are not considered as

Table 6.1 Dimensional Standards

District	Minimum Lot Size in SF/ Width at Setback	Max. Dwelling Units	Max. Floor Area Ratio	Setbacks in feet				Max. Height*	Max. Impervious Surface Lot Coverage	Buffer in Feet
				Min. Front	Max. Front	Min. Side	Min. Rear			
A-1	130,680 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	35%	-
A-2	43,560 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	50%	-
R-1A	10,000/ 50	1 per lot	-	30	-	10	25	35 feet or 3 stories	50%	-
R-1B	7,500/ 50	1 per lot	-	25	-	10	25	35 feet or 3 stories	50%	-
R-1C	5,000/ 50	1 per lot	-	20	-	10	25	35 feet or 3 stories	50%	-
R-2	4,000/ 40	2 per lot	-	20	-	10	20	35 feet or 3 stories	50%	-
R-3	7,500/ 40	17 per acre	-	20	-	5	20	35 feet or 3 stories	50%	-
B-1	0/100	-	.75	20	25	0 or 15	0	35 feet or 3 stories	80%	20
B-2	4,000/ 100	-	0.75	0	10	0 or 10	0	35 feet or 3 stories	80%	20
B-3	No minimum/ 100	-	1.00	30	-	0 or 10	0	40 feet or 3 stories	80%	30
B-4	No minimum/ none	-	No limit	0	10	0	0	135 feet or 10 stories	100%	40
B-5	No minimum/ 100	-	1.50	0	30	0 or 10	0	72 feet or 6 stories	90%	50
I-1	No minimum/ 100	-	0.75	40	40	0 or 10	0	75 feet	60%	60
I-2	No minimum/ 100	-	0.75	40	40	0 or 10	0	75 feet	60%	60

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part of the setback.

6.2.2 Corner lots shall have two front setbacks and two side setbacks The Planning Director may waive this requirement and determine the front yard to be on the street front that is in line with the prevailing pattern of front yards on the street in order to be consistent with the established pattern of the street.

6.2.3 At grade appurtenances or mechanical equipment shall be allowed to encroach into setbacks proved such equipment is placed as near to the primary structure as possible and does not encroach into utility easements.

6.2.4 If both the front and rear yards of a lot abut public streets (known as a double frontage or through lot), then the rear building line shall respect the alignment of buildings on the back street while the front building line shall respect the alignment of buildings on the fronting street.

6.2.5 Encroachments into setbacks are permitted for uncovered decks, patios, steps, ramps stoops, driveways and similar features.

6.3 Yard and Setback Modifications, Generally.

6.3.1 **Front Yards.**

6.3.1.1 The front yard setback requirements for dwellings shall not apply on any lot where the average setback of existing buildings located wholly or in part within 100 feet on each side of such lot within the same block and zoning district and fronting on the same side of the street is less than the minimum required setback. In such cases, the setback on such lot may be less than the required setback, but not less than the average of the setbacks of the existing buildings. See 6.3.2 for front yard setbacks in historic districts.

6.3.1.2 Where a lot fronts on two nonintersecting streets or two intersecting streets forming an angle of 60 degrees or less, front yards shall be provided on both streets.

6.3.2 **Setbacks in Historic Districts.** Setback requirements for dwellings shall not apply on any lot in a designated historic district where the average setback of existing buildings located on the same side of the street in the same block and, in the case of rear setbacks, on lots abutting rear lot lines, is less or greater than the minimum required setback. In such cases, the setbacks on such lot shall be established as the average of the setbacks of the existing buildings but in no case shall be less than five feet.

6.3.3 **Side Yards.** When the intersection of two streets forms a corner lot, then the following criteria for side setbacks shall apply.

6.3.3.1 For detached single-family residential uses except in the R-3 zone, the side setback on the side street shall be equal to the front setback. However if the lot is located on a short cul-du-sac, sharp curve, has three street frontages, the Director may permit a reduction of up to 25% of the required side yard setback.

6.3.3.2 For all uses other than detached single-family residential the side setback on the side street shall be not less than the required front setback.

6.4 Yard and Setback Modifications for Infill and Redevelopment Areas.

On infill and redevelopment sites, the Director may reduce side yard setbacks and lot width requirements to permit development on existing lots as follows.

6.4.1 **Side Yards.**

A minimum of five feet of green strip shall be maintained as a minimum side yard. In lieu of this requirement, a zero lot line maintenance agreement providing a minimum five foot maintenance easement may be granted by the adjacent property owner.

6.4.2 **Lot Width.**

Lot widths of less than 75 feet in a B-2 zone may be permitted provided all other dimensional standards can be met.

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6.5 Yard Measurements; Buildable Area.

The required front, side and rear yards for individual lots, as set forth for the particular zoning district within which a given lot is located, shall be measured inward toward the center of the lot from all points along the respective front, side and rear property lines. Once the required yard areas of a given lot have been established, the remaining area of the lot which is not included in any required front, side or rear lot shall be known as the buildable area within which the approved structure(s) shall be placed.

6.6 Exception to Height Limitations for Certain Structures and Appurtenances.

The height limitations of this code shall not apply to spires, belfries, cupolas, domes not intended for human occupancy, water towers, utility poles, chimneys, conveyors, or roof mounted mechanical equipment.

6.7 How to Measure.

6.7.1 **Distances.** When determining distances for setbacks, uses and structure dimensions, all distances are measured along a horizontal plane from the appropriate property line, edge of building, structure, storage area, parking area, or other object. These distances are not measured by following the topography of the land. Measurements are also taken along the shortest distance between two points. See Diagram 6.1.

6.7.2 **Measuring Structure Distance.** When determining distances for setbacks and structure dimensions, all distances are measured along a horizontal plane from the appropriate property line, edge of building, structure, storage area, parking area, or other object. These distances are not measured by following the topography of the land. Measurements are also taken along the shortest distance between two points. See Diagram 6.2.

6.7.3 **Setback Measurement on Cul-de-Sacs and Curved Lots.** The front setback for lots on cul-de-sacs and curved lots shall be measured parallel to the arc of the street right-of-way and inward toward the center of the lot, as illustrated in diagram 6.3.

6.7.4 **Measurement of Building Height.** Building height as expressed in feet shall be measured using the

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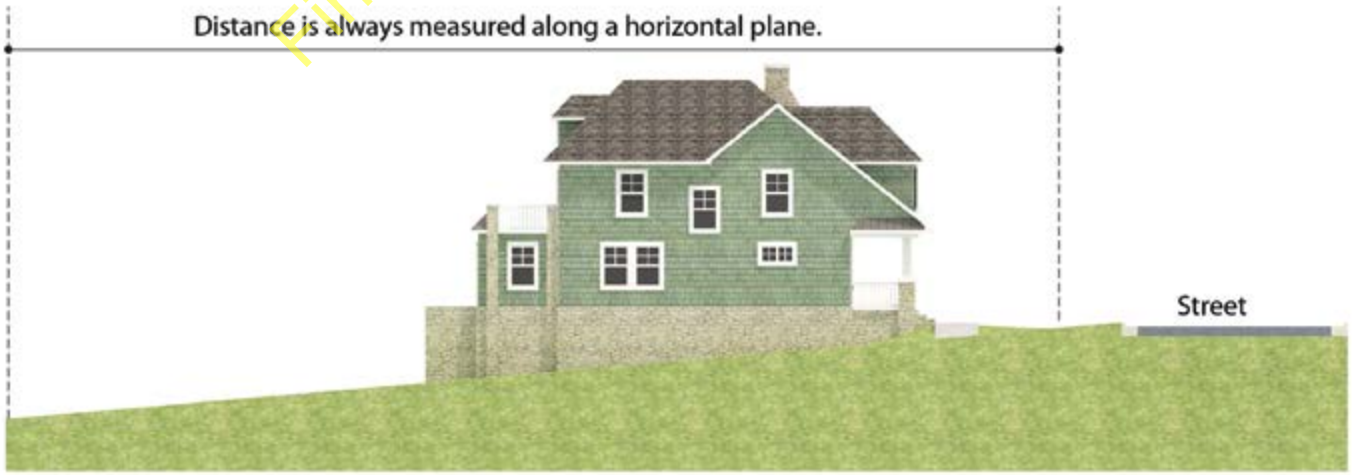
Diagram 6.1



MEASUREMENT ALONG A HORIZONTAL PLANE

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Diagram 6.2

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Diagram 6.3

following procedures.

6.7.4.1 **Measuring building height from grade.** The height of buildings is the vertical distance above grade.

6.7.4.2 **Measuring building height for different roof types.**

i. Flat roof: measure to the top of the parapet, or if there is no parapet, to the highest point of the roof.

ii. Mansard roof: measure to the deck line.

iii. Pitched, hipped, or gambrel roof where roof pitch is 12 in 12 or less: measure to the average height of the top.

iv. Other roofs where the roof pitch is 12 in 12 or less: measure to the highest point.

v. Stepped or terraced building: measure to the highest point of any segment of the building.

6.7.5 **Measuring Height of Signs and other Structures.** The height in feet of other structures such as signs, flag poles and fences is the vertical distance from the ground level immediately under the structure to the top of a structure, excluding exempted portions. When chimneys and other objects are allowed to exceed the base height of the zone by a set amount, that set amount is measured to the top of these objects.

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SECTION 7. STANDARDS OF DESIGN

7.1 Purpose

In order to fully implement the goals of the City of Hattiesburg Comprehensive Plan, supplementary development standards are required to insure that new development, renovation, and reconstruction are designed, sized, and sited to achieve functionally efficient, economically productive, pedestrian friendly, aesthetically pleasing environments. These standards are intended to contribute to the stability, vitality and long term livability of the City.

7.2 Applicability.

7.2.1 Generally.

The following development standards shall be applied by zoning district according to the development standards tables with the following exceptions:

i. Routine maintenance related to plumbing, mechanical, or electrical systems of buildings and sites.

ii. All plumbing, mechanical and electrical equipment when such work is entirely within the interior of a building.

iii. Construction or alteration necessary for the compliance with a lawful order of the City, Fire Department, Police Department, or Public Works Department related to the immediate public health or safety.

iv. Any interior alterations, repairs, or renovation which do not change the principal use of the structure.

v. Demolition or wrecking, repair, construction, reconstruction, alteration, rehabilitation, moving, demolition, or change in use for either land or buildings within any historic district approved by the Historic Preservation Commission.

7.3 Relation to Overlay Districts.

These standards shall also apply in all overlay districts if the standard would apply to the applicable underlying district, unless an alternative standard is set forth in the overlay district.

7.4 Organizational Principles and Design Standards Table.

The development standards are organized in Table 7.1. The symbol "■" means that the standard is required and compliance shall be determined by the Department of Urban Development. The symbol "×" means that the standard is not required. Standards are divided into the following major building and construction elements.

- Parking and Traffic Circulation
- Pedestrian Circulation
- Building Form and Materials
- Lighting and Illumination
- Fences, Walls and Screening

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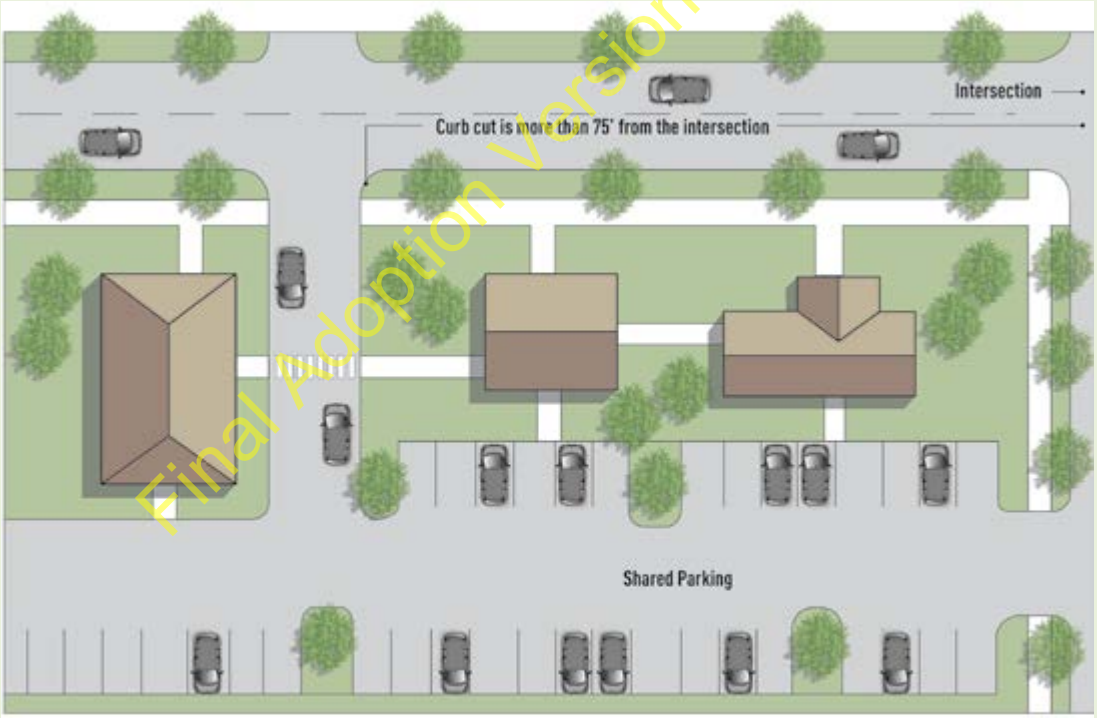
Table 7.1 Design Standards

STANDARD	DISTRICT														
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.5 Parking and Traffic Circulation															
7.1.1 Curb Cuts.															
7.1.1.1 Curb cuts shall be located no closer than 75 feet from the intersection of two streets as measured from the end of the radius nearest the proposed cut. Where the width of the site is less than 75 feet, the curb cut shall be placed the as far as possible from the street intersection. (See Illustration 7.5-1)	×	×	×	×	×	×	×	■	■	■	■	■	■	×	×

Illustration7.5 -1



Curb cuts reduced by sharing parking, concentrating vehicle turning movements.
Curb cuts aligned across the street.
Curb cuts are removed from the intersection.

7.1.1.2 Curb cuts, except where shared, shall be located a minimum of 10 feet from a parcel or lot line. (See Illustration 7.5-2)	×	×	×	×	×	■	■	■	■	■	■	■	■	■	■
7.1.1.3 Curb cuts shall be located directly opposite one another or separated by a minimum of 150 fifty feet.	×	×	×	×	×	×	×	■	■	■	×	■	■	■	■

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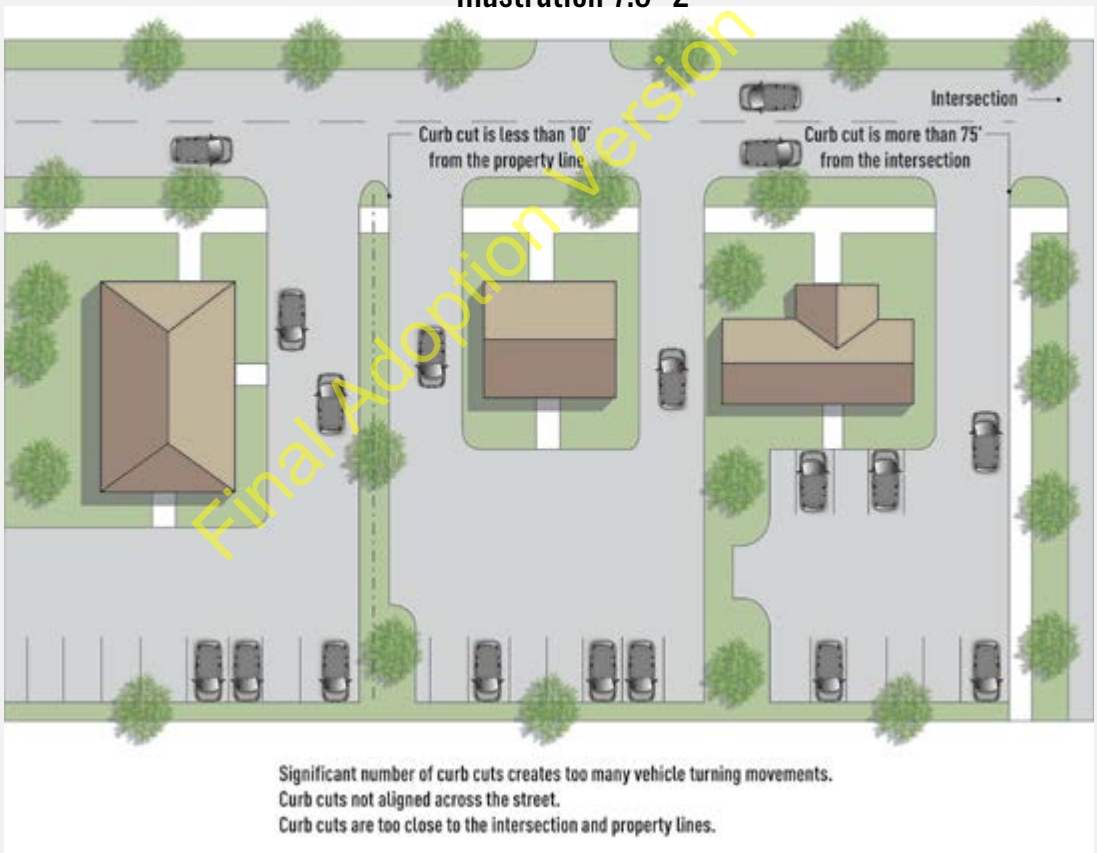
Table 7.1 Design Standards

STANDARD	DISTRICT														
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.1.1.4 Curb cuts shall be limited to one for every 40 feet of street frontage. Parcels with less than 40 feet of frontage shall be limited to one curb cut per street frontage.	×	×	×	×	×	×	×	■	■	■	×	■	■	■	■
7.1.2 Parking Lot and Driveway Entrances.															
7.1.2.1 Entrances and exits to the site shall be so located such that parking spaces and traffic aisles do not conflict with entering and exiting traffic. (See Illustration 7.5-2)	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■

Illustration 7.5 -2



7.1.2.2 One-way driveway entrances curb cuts shall be a minimum of 12 feet and a maximum 14 feet wide.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■

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Table 7.1 Design Standards

STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.5.2.3	Two-way driveway entrances shall be a maximum of 24 feet wide.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	×
7.5.2.4	Three-way driveway entrances shall be a maximum of 36 feet wide.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■
7.5.2.5	Shared driveways are encouraged.	■	■	■	■	■	■	■	■	■	■	■	■	×	×	■
7.5.3	Interior Design of Parking Lots.															
7.5.3.1	Vehicular and pedestrian cross access adjacent commercial properties. in new development contexts is required where feasible and in existing development contexts is encouraged by mutual consent of owners.	×	×	×	×	×	×	×	■	■	■	×	■	×	×	■
7.5.3.2	The number of required spaces shall conform to parking space requirements in this Section.	■	■	■	■	■	■	■	■	■	■	×	■	■	■	■
7.5.3.3	No parking or loading areas may be designed to allow vehicles to back directly onto an adjacent public street.	×	×	×	×	×	×	×	■	■	■	×	■	■	■	■
7.5.3.4	Parking spaces are encouraged to be delineated by white pavement striping unless otherwise required by ADA. Reflective striping is encouraged.	×	×	×	×	×	×	■	■	■	■	■	■	■	×	×
7.5.3.5	Non-residential uses shall provide emergency vehicle access in accordance with the currently adopted Fire Code.	×	×	×	×	×	×	×	■	■	■	■	■	■	■	■
7.5.3.6	Fire lanes shall be provided as specified by the applicable fire code.	×	×	×	×	×	×	×	■	■	■	×	■	■	■	■
7.5.3.7	Rear access to buildings shall comply with the adopted fire code.	×	×	×	×	×	×	■	■	■	■	×	■	■	■	■

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Table 7.1 Design Standards

STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.5.3.8	All parking areas and loading areas shall be provided with a permanent concrete curb designed to permit low impact stormwater treatment as approved by the City Engineer. All landscaped areas that may be encroached upon by a motor vehicle shall be protected by a cement wheel stop appropriately anchored to the pavement, and set a minimum of 30 inches back from the edge of pavement to restrict the destruction of landscape materials by vehicles.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.5.3.9	A landscaped island not less than 8 feet wide and 15 feet in length, measured from back of curb, shall be installed for each 150 lineal feet of parking area and shall cap ends of parking rows. Islands shall be landscaped in accordance with the landscape standards of this code. (See Illustration 7.5-3)	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■

7.5.3.10	Loading docks and truck parking shall be positioned, or screened in such a way as to not be visible from the public street.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■

7.6 Pedestrian Circulation.

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Table 7.1 Design Standards

STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.6.1	Circulation External to a Site.															
7.6.1.1	Sidewalks shall be provided along all public streets on the entire frontage of a development site and align with existing sidewalks on adjacent properties including both frontages on corner lots. Minimum sidewalk width is five feet. Additional width may be required as determined by Site and Design Review.	×	×	■	■	■	■	■	■	■	■	■	■	×	×	■
7.6.1.2	Sidewalks shall be ADA complaint. ADA access ramps shall be constructed at street corners.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.6.1.3	Where sidewalks are not yet present on adjacent sites, sidewalks shall be constructed at least five feet behind the curb to allow for landscaping and street trees. If sidewalks are present on adjacent properties, the new sidewalk shall connect to the existing sidewalk.		×	■	■	■	■	■	■	■	■	■	■	×	×	■
7.6.1.4	Sidewalks shall not be required to cross driveways as long as the driveway provides an ADA compliant connection between the sidewalk ends.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.6.1.5	Sidewalks shall be composed of broom finished. Asphalt sidewalks are prohibited.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.6.1.6	Crosswalks shall be provided to connect external pedestrian circulation systems to a site and safely convey pedestrians to the site destination.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.6.1.7	Crosswalks shall be striped in conformance with the latest edition of the Manual on Uniform Traffic Control Devices.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.6.2	Internal Site Circulation															

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Table 7.1 Design Standards

STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.6.2.1	Internal pedestrian circulation shall be provided to create interconnected walkways safely conveying pedestrians from adjacent streets and parking areas to the site destination.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.6.2.2	Material may include brick, pavers, tile, stone, or stamped or brush finished concrete. The use of asphalt, cinderblock, and gravel is prohibited.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.6.2.3	Crosswalks shall be designated by white pavement striping or materials of a different color and texture from the surrounding surface but conforming to the overall color scheme of the development.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.7 SITE LIGHTING AND BUILDING ILLUMINATION.																
7.7.1	Lighting and Illumination Generally.															
7.7.1.1	Streets, driveways, parking lots, walks and service areas shall be adequately illuminated as evenly as possible, not exceeding an average of .3 foot-candles diminishing to zero at a site's boundary. Lighting intensity shall be demonstrated by means of a site lighting plan illustrating compliance.	×	×	×	×	×	×	×	■	■	■	■	■	■	■	■
7.7.1.2	Site lighting shall not extend beyond site boundaries. Luminaries shall be shielded, shaded, or directed to prevent light from being cast on adjacent property. (See Illustration 7.7-1)	×	×	×	×	×	×	■	■	■	■	×	■	■	■	■
7.7.1.3	No exterior lighting fixture shall be placed or directed so as to interfere with the operation of vehicles.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.7.1.4	No exterior light shall have any blinking, flashing, or fluttering light, or other illuminating device which has a changing light intensity or brightness of color.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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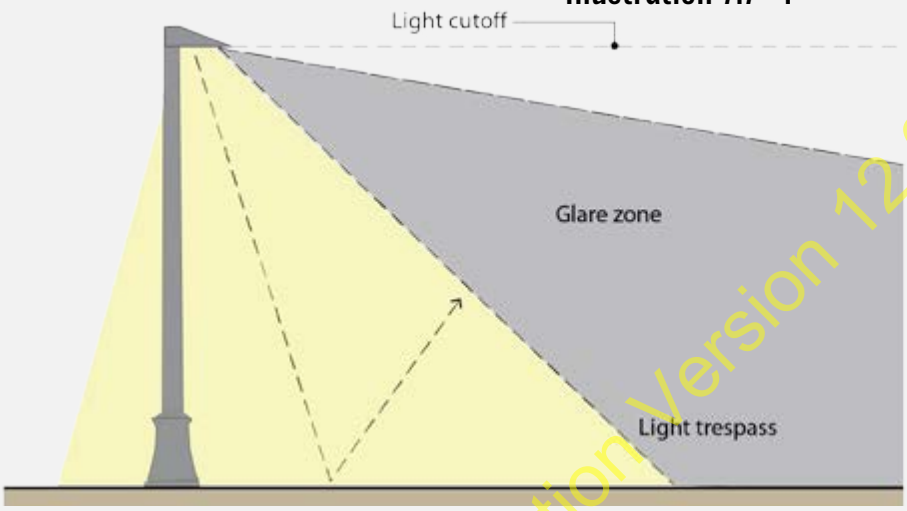
STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.7.1.5	Lighting fixtures shall be compatible in style with the architecture of their associated buildings and shall otherwise comply with any officially adopted streetscape plan.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Illustration 7.7 -1



Good Lighting:
* Directs light dowan and to the sides as needed; light control.
* Reduces glare; more even illumination.
* Does not trespass onto neighboring property.
* Helps preserve the dark night sky.
* Cost efficient.

Bad Lighting:
* Contributes to the skyglow with upward direction of light, reducing the enjoyment of the night sky.
* Causes glare, light trespass, and harsh illumination.
* Wastes energy.

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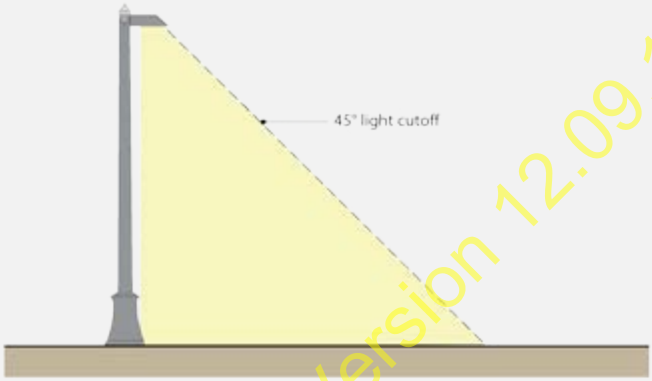
7.7.2	Luminaries.															
7.7.2.1	Pole mounted luminaries shall be full cut-off with shields, reflectors, or refractor panels to direct and cut-off emitted light at 90 degrees or less.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.7.2.2	Building mounted luminaries shall be full cut-off using shields, reflectors, or refractor panels to direct and cut-off the emitted light at a 45 degrees or less except for low intensity decorative lighting not exceeding 45 watts per bulb (incandescent equivalent). (See Illustration 7.7-2)	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.7.3	Mounting.															
7.7.3.1	Poles in commercial and multiple-family developments, whether mounted upon a building or independently upon a light standard, shall not exceed 25 feet in height.	×	×	×	×	×	×	■	■	■	■	×	■	×	×	×

Table 7.1 Design Standards																
STANDARD	DISTRICT															
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.7.3.2 Lighting fixtures within industrial developments shall not exceed the height of the roof line of the associated building.	×	×	×	×	×	×	×	×	×	×	×	×	■	■	■

Illustration 7.7 -2



7.8 Building Form and Materials.

7.8.1 Form.																
7.8.1.1 When adjoining a residential zone, structures shall be compatible with the character of single-family residential structures. Compatibility shall be determined by comparing the consistency of existing and proposed design elements, colors, materials, height, bulk and landscaping.	×	×	×	×	×	×	×	■	■	■	×	■	×	×	■

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STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
Illustration 7.8 -1																
7.1.1.1	Building facades shall be oriented parallel to the streets they face. Main entrances shall be visible as a means of creating continuous streetscapes.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.1.1.2	Multiple buildings on a site should be clustered to create plaza or pedestrian mall areas. Where this cannot be achieved buildings shall be connected by means of pedestrian walkways defined by separate paving textures and accented by landscape areas.	×	×	×	×	×	×	×	■	■	■	×	■	×	×	■
7.1.1.3	False or stage-set facades are prohibited. Similar materials and colors used on the street façade shall be used to the sides and rear of the building where visible from a street right-of-way or adjacent residence. (See illustration 7.8-2)	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■

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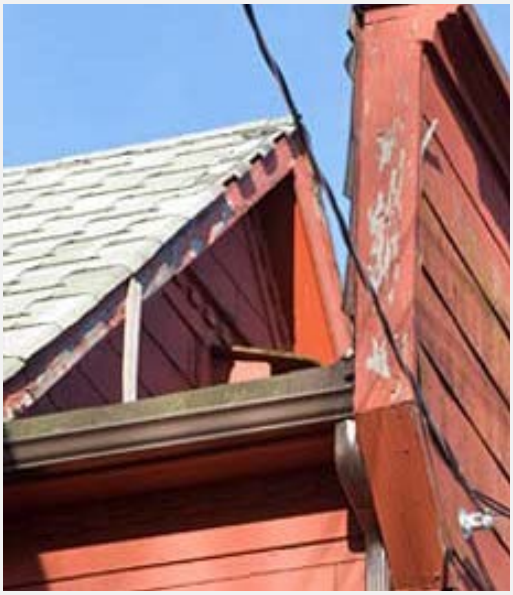
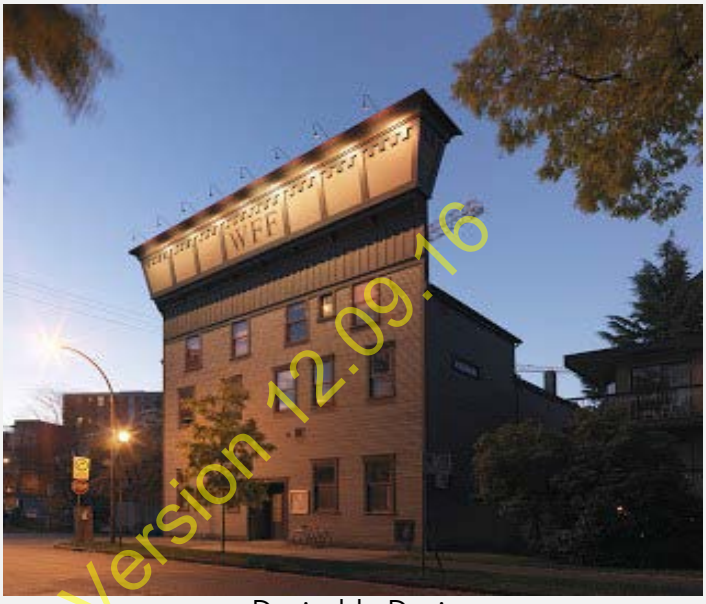
Table 7.1 Design Standards

STANDARD	DISTRICT														
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
Illustration 7.8 -2  Undesirable Design  Desirable Design															
7.1.1.4 The maximum, unbroken facade plane shall be 60 feet and should be interrupted by projections, recesses, portals, courtyards, plazas, or other architectural design. Facade plane breaks shall have a minimum depth of six inches.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
Illustration 7.8 -3 															

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STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.8.1.6	No flat-faced cement block or metal surfaces shall be visible upon the exterior of any building as a primary surface material or mansard. Alternatives of equal or better quality may be considered. (See illustration 7.8-4)	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■

Illustration 7.8 - 4

Not Permitted

7.8.1.7	Exposed pitched roofs, as a primary roof form, have a slope not less than 5/12. Porches shall be sloped not less than 3/12.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.8.1.8	Parapet facades may be used when of unified construction with the primary surface of the wall and of the same material and color. The parapet shall be designed such that the reverse side of all elements shall not be visible to public view. False mansards are prohibited.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.8.1.9	Parapets should extend above the highest level of any roof mounted equipment. In no case shall such equipment be visible from adjacent grades at a distance of 75 feet.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■

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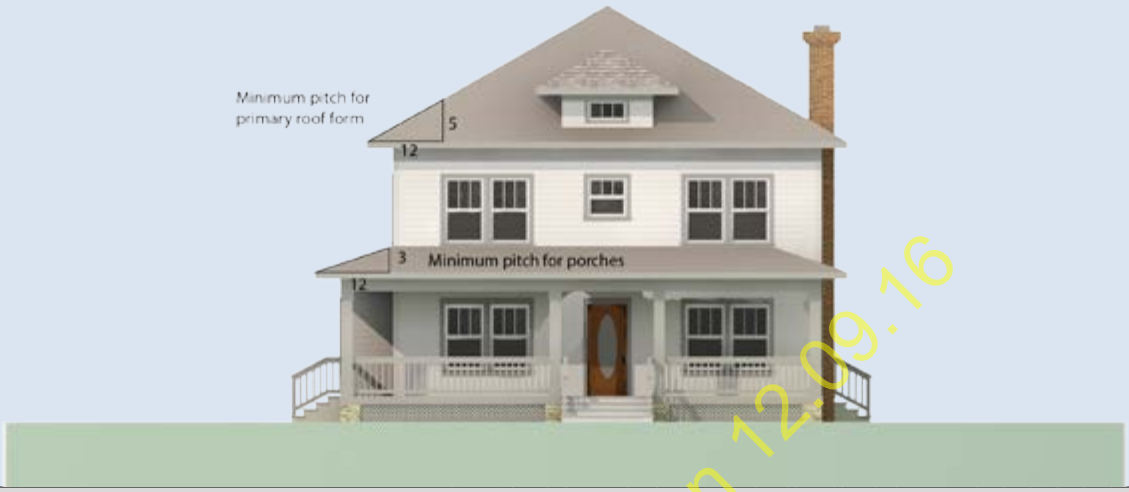
Table 7.1 Design Standards

STANDARD	DISTRICT														
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
															
7.8.2 Materials.															
7.8.2.1 Building materials shall suit the architectural style of a building and be consistent or complementary throughout. Exterior surface materials shall be selected from among the following: brick, cementitious stucco, stone, vertical board and batten, wood or cementations siding and approved architectural concrete masonry unit. EFIS may only be used in banding, decorator strips, cornice lines and wall capping.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■

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STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
Appropriate use of materials																
7.8.2.2	Roof design shall be appropriate to the architectural style of a building. Where exposed to public view, roof material shall be selected from enameled standing seam metal, concrete or clay tiles, copper metal, or wood textured (architectural grade) or composition asphalt shingles. The use of plastic, fiberglass, other metal, or glass visible to public view is prohibited.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.8.3	Design Detail.															
7.8.3.1	Wall surfaces shall be composed of at least 75% a single material and color. With the exception of decorator accents, colors shall be subtle, neutral, or earth tone or relate to appropriate historic building colors found within the City.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■
7.8.3.2	Walls that can be seen from an arterial or collector street shall be treated as a building façade.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■

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Table 7.1 Design Standards

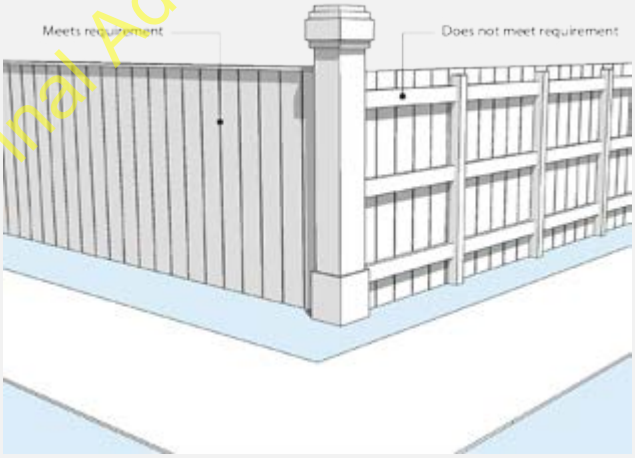
STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.8.3.3	No less than 40% of the horizontal distance of any building front entrance shall be designed with arcades, windows, entrances, awnings, or similar features.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■
7.8.3.4	Retail facades shall be glazed with clear glass no less than 30% of the first story, or 70% in the B-4 District. Other uses may provide the authentic appearance of such transparency.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.9 ACCESSORY USES AND EQUIPMENT.																
7.9.1	Fences.															
7.9.1.1	Fences and walls within a development shall be of compatible design and materials.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.1.2	Fences and walls shall be constructed such that the "finished" part of the fence or wall is located toward and facing the exterior of the property.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
																
7.9.1.3	Barbed wire, woven wire or electrical fencing may be used in agricultural applications only.	■	■	×	×	×	×	×	×	×	×	×	×	■	■	×
7.9.1.4	Fences or walls topped with or containing metal spikes, broken glass, razor wire or similar material are prohibited.	■	■	■	■	■	■	■	■	■	■	■	×	×	×	■

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Table 7.1 Design Standards

STANDARD		DISTRICT														
■ = Required × = Not required		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.9.1.5	Uncoated chain link and other wire material fences shall not be permitted in a front setback except in the case of athletic or play surfaces.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.1.6	Chain link fencing shall be green or black vinyl coated.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■
7.9.1.6	The maximum height of fences and walls shall be four feet above grade when located in a front yard. Otherwise the maximum height of a fence is eight feet.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.2	Walls.															
7.9.2.1	Retaining walls less than three feet tall may be constructed of treated timbers, split-faced concrete block, flat-faced concrete block, or poured-in-place concrete with either a flat or decorative face.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.2.2	Retaining walls three feet or more in height shall only be constructed of split-faced concrete block, modular block keystone systems, or poured-in place concrete with a decorative face.	×	×	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.3	Outside Storage and Waste.															
7.9.3.1	Masonry walls and buildings, or a combination thereof, shall be used to screen outside storage areas. The use of wooden fences or chain-link fences with slats as a screening device for garbage collection areas is prohibited.	×	×	×	×	×	×	■	■	■	■	■	■	■	×	■
7.9.3.2	Trash containers, oil and grease containers must be visually screened on all sides including gates. Combinations of berming, landscaping, walls, fences and buildings shall be used to screen containers and enclosures.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.9.3.3	Wash down, where required, areas shall be tied into the sanitary sewer in accordance with city specifications.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■

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Table 7.1 Design Standards																
STANDARD	DISTRICT															
■ = Required × = Not required	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2	PMU
7.9.3.4 Outside storage areas and waste containers shall be located to the side or rear of principal structures.	×	×	×	×	×	×	×	■	■	■	■	■	×	×	■
7.9.3.5 Outside storage areas and waste containers shall be sited to avoid conflict with vehicular and pedestrian movement.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7.9.3.6 All activities related to non-residential material management, including deliveries and removal, and non-residential waste removal shall be conducted fully onsite and shall not involve the use of public streets for vehicle parking or maneuvering.	×	×	×	×	×	×	■	■	■	■	■	■	■	■	■
7.10 LANDSCAPING.															
7.10.1 Interior Site Landscaping.															
7.10.1.1 There shall be a minimum of 20 square feet of interior landscaped area provided within each parking lot for each parking space provided exclusive of landscape islands.	×	×	×	×	×	×	■	■	■	■	×	■	×	×	■
7.10.1.2 Parking lot islands shall contain a minimum of one large, shade or canopy tree per island. Parking islands directly abutting buildings shall substitute shrub plantings.	×	×	×	×	×	×	■	■	■	■	×	■	×	×	■
7.10.1.3 Landscaped areas shall be at least 75 percent covered with grass or other types of live or organic ground cover. Planting shall be established prior to building occupancy.	×	×	×	×	×	×	■	■	■	■	■	■	×	×	■
7.10.2 Perimeter Landscaping.															
7.10.2.1 A green strip 10 feet in width shall be planted with at least one large, deciduous tree per 60 feet of lineal frontage.	×	×	×	×	×	×	×	■	■	■	×	■	■	■	■
7.10.2.2 Landscaping shall comply with the Plant Standards, Installation and Maintenance in this section.	■	■	■	■	■	■	■	■	■	■	×	■	■	■	■

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7.11 Plant Standards and Buffers.

7.11.1 The standards listed in Table 7.2 shall apply to all planting required as a part of this Code.

Table 7.11-1 Plant Standards, Installation and Maintenance

Plants	Trees	At Initial Planting: "Large" trees shall be a minimum of two and one half inches in caliper or 30 gallon container. "Medium" and "Small" trees shall be two inches in caliper or 15 gallon container. Caliper shall be measured six inches above ground level at the time of planting.
		At Mature Growth: "Large" trees shall be a minimum of 40 feet tall at mature growth height. "Medium" trees shall be a minimum of 20 to 35 feet tall at mature growth height. "Small" trees shall be a minimum of 8 to 10 feet tall at mature growth height.
		Acceptable Tree Species: Both Deciduous and Evergreen species are acceptable, native trees and trees species recommended for Zone 8 are preferred. Trees listed as invasive by the Mississippi Forestry Commission and National Forest Service are prohibited. A list of recommended tree species is available from the city arborist.
	Shrubs	Shrubs are low woody plants, sometimes with multiple shoots or stems at the base. These plants may be evergreen or deciduous, and are considered unstory species but may reach up to 15 feet in height at maturity. Large shrubs shall be a minimum of 5 gallon/24 inches in size at planting. Medium shrubs shall be a minimum of 3 gallon/12 inches in size at planting. Small shrubs shall be a minimum of 2 gallon/8 inches in size at planting.
	Ground Cover	Living ground covers may be used in lieu of grass, in whole or part, shall be planted in such a manner as to present a finished appearance and reasonably complete coverage with three months after planting. Non-living ground cover such as mulch, rocks and other materials may be used to enhance the aesthetics of the landscape, up to 25% of the total green space area.
	Grass	Grass areas shall be planted and grown as permanent lawns. Grass may be sodded, plugged, sprigged or seeded, except that solid sod shall be used in swales or other areas subject to erosion and providing that in areas where other solid sod or grass seed is used, grass seed shall be sown for immediate effect and protection until coverage is achieved.
Maintenance		Trees, shrubs and other landscaping materials approved as part of the site development plan, shall be considered binding elements of the project in the same manner as parking, building, materials and other details. The applicant, owner, subsequent owners and their agents shall be responsible for the continued maintenance of all landscaping materials. All landscaping shall be maintained in good condition with at least the same quality and quantity of the landscaping originally approved. Plant materials which exhibits evidence of insects, disease and/or damage shall be appropriately treated. Dead plants shall be removed and replaced within 30 days following notification by the city.
Credit for Existing Plant Material		If the owner/developer can demonstrate that healthy plant materials exists on a site prior to its development that meet the purposes of the landscape ordinances, the Site Plan Committee may allow credit for such plant materials in order to meet the intent of the land development code and preserve existing landscape elements. All credited landscape materials shall be clearly marked and protected from any encroachment or damage. If any credited plant dies or fails to thrive, new plant materials shall be installed to replace the lost landscape element.
Quality		Planting materials shall be nursery grown and meet ANSI Z60.1 Standards. Plants should be free of disease and insect adults, eggs, pupa or larvae. Plants should have well developed root systems and free from physical damage or other conditions that would prevent correct growth habits.

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Installation	Landscape installation shall follow the approved site plan or landscape plan, including plant species, locations, sizes, quantities and other green space requirements. All landscaping materials shall be installed in a professional manner, and according to accepted professional planting procedures. Any landscape material that fails to meet the minimum requirements at the time of installation shall be removed and replaced with acceptable materials. Planting areas that maybe compacted or poorly drained such as landscaped parking islands, planting beds around buildings and roadways, should be backfilled with quality soil and organic matter to promote better plant establishment and growth. Irrigation systems are not required but are recommended to help maintain and promote the health and quality of the landscape.

7.11.2 **Zoning Buffer Requirements.**

Table 7.11-2 Zoning Buffer Requirements

Zones	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1/B-2	B-3	B-4	B-5	I-1	I-2	Buffer Yard Specifications
R-3	10'	10'	10'	10'	10'	10'	-	-	-	-	-	-	-	Type 10 shall consist of a landscaped area a minimum of 10 feet in width, landscaped with One (1) large canopy tree (ultimate height 50± feet) for every seventy-five (75) lineal feet of buffer yard and Three (3) medium evergreen trees (planted on a 25 foot triangular staggered spacing) and one small ornamental tree for every 75 lineal feet of buffer yard.
B-1/ B-2	20'	20'	20'	20'	20'	20'	20'	20'	-	-	-	-	-	Type 20 shall consist of a landscaped area a minimum of 20 feet in width, landscaped as an opaque barrier. One large canopy tree (ultimate height 50± feet) and 2 small ornamental deciduous trees spaced 30 feet on center for every 60 lineal feet of buffer yard. An opaque wall may be substituted for landscape screening.
B-3	30'	30'	30'	30'	30'	30'	30'	-	-	-	-	-	-	Type 30 shall consist of a landscaped area a minimum of 30 feet in width, landscaped as an opaque barrier, one large canopy tree (ultimate height 50± feet) for every 60 lineal feet of buffer yard and 1 medium evergreen tree planted on a triangular staggered spacing for every 15 lineal feet of buffer yard.
B-4	40'	40'	40'	40'	40'	40'	40'	-	-	-	-	-	-	Type 40 shall consist of a landscaped area a minimum of 40 feet in width, landscaped a an opaque barrier, as required by this section and one large canopy tree (ultimate height 50± feet) and one small ornamental deciduous tree for every 60 lineal feet of buffer yard and one medium evergreen tree (planted on a triangular staggered spacing) for every 15 lineal feet of buffer yard.

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Table 7.11-2 Zoning Buffer Requirements

Zones	A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1/B-2	B-3	B-4	B-5	I-1	I-2	Buffer Yard Specifications
B-5	50'	50'	50'	50'	50'	50'	50'	-	-	-	-	-	-	Type 50 shall consist of a landscaped area a minimum of 50 feet in width, landscaped as an opaque barrier with 1 large canopy tree (ultimate height 50± feet) and one small ornamental deciduous tree for every 60 lineal feet of buffer yard and 1 medium evergreen tree planted on a triangular staggered spacing for every 10 lineal feet of buffer yard.
I-1	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'	-	-	-	Type 60 shall consist of a landscaped area a minimum of 60 feet in width, landscaped as an opaque barrier and 1 large canopy tree (ultimate height 50± feet) and 1 small ornamental deciduous tree for every 50 lineal feet of buffer yard and one medium evergreen tree planted on a triangular staggered spacing for every 10 lineal feet of buffer yard.
I-2	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'	-	-	-	

7.12 Parking Requirements.

Off-street automobile parking or storage space shall be provided on every lot unless otherwise stated herein. All parking shall meet all of the requirements of this Section as well as design standards set forth in Section 7.5. The Site Design and Review Committee may permit the phased construction of required parking spaces or a higher or lesser number of required spaces according to the standards set forth below.

7.12.1 General Requirements.

7.12.1.1 Permanent off-street parking for all structures and uses of land, except parking for individual single-family residences, shall conform to the minimum requirements for parking as listed in the use table. These standards, to be used as a guide to the Director, are based on parking standards for general land use categories. The developer is ultimately responsible for ensuring that sufficient parking is provided.

7.12.1.2 Off-street parking is permitted in required yard and setback areas as provided in this section, but shall not be permitted in any required buffer area.

7.12.2 Calculation of Off-Street Parking Requirements.

7.12.2.1 The number of parking spaces required shall be calculated so that fractional portions of parking spaces are considered a full space (e.g. 56.12 parking spaces shall be calculated as 57 total spaces).

7.12.2.2 Calculation for required off-street parking for any bar, lounge, nightclub, or restaurant shall include all outdoor seating areas.

7.12.3 Change or Expansion of an Existing Use.

7.12.3.1 Change in the use of an existing structure or site shall require compliance with the minimum parking requirements applicable to the new use. However, if the new use also requires additional buffer or parking lot landscaping, the Director may permit a maximum 20% reduction in the required number of spaces to accommodate additional landscaping and buffering.

7.12.3.2 Any expansion of an existing building or use including addition of dwelling units, personnel, seats, chairs, and similar changes shall require review by the Director to determine

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additional off-street parking necessary to accommodate the expansion area or change.

7.12.4 **Parking for Uses Not Listed.** Parking for uses not expressly provided for shall be determined by the Director who shall apply the unit of measurement set forth in the table for a use that the Director deems to be most similar to the proposed use.

7.12.5 **Multiple Uses.** Combined parking areas serving two or more principal uses shall contain spaces equal in number to the total of spaces required for all principal uses served. This requirement is also in effect if the principal uses are the same or have the same parking requirements.

7.12.6 **Location of Parking.** Required off-street parking must be provided: 1) on the same lot or parcel or within 300 feet of the principal use for which it is required, 2) in a parking facility the title to which or easement for the use of which runs with and is appurtenant to such use, 3) offsite in an area approved by the City as shared parking, or 4) approved by the Director.

7.12.7 **Parking in the B-4, Downtown Business District.** No off-street parking shall be required, except that adequate on-street and off-street parking and unloading spaces must be demonstrated by the applicant for places of assembly, daycare centers, schools, and residences.

7.12.8 **Applicant Submitted Parking Data; Phased Parking.**

7.12.8.1 The Director may accept a higher or lower number of parking spaces than required in Table 7.12 Table of Parking Requirements (or a specific number of spaces for a use not listed) based upon a phased development plan or applicant-submitted parking data such as a shared parking analysis or appropriate standards from The Institute of Transportation Engineers (ITE) or other credible sources, provided the following requirements are met.

7.12.8.2 **Reduced and Phased Parking.** If the Director accepts a lower number of parking spaces than is otherwise required, the plan for the site must be designed to accommodate all required parking, and all areas set aside to accommodate unconstructed parking. Should the Director determine that the originally constructed parking is insufficient, they shall order that the unconstructed parking and/or loading be provided and a certificate of occupancy for such obtained within 12 months of such order. The design and location of these unconstructed parking spaces shall meet design standards as provided in this ordinance and the following:

i. The area necessary to accommodate these unconstructed spaces shall not be included as part of the site's minimum open space requirement.

ii. The area necessary to accommodate these unconstructed spaces shall be included in the impervious coverage for the site and accounted for in the drainage design.

iii. Until or unless such spaces are needed the area shall be maintained as undisturbed open space. If it is determined that grading or disturbing these areas during development is necessary, the areas shall be stabilized and re-vegetated prior to the issuance of a certificate of occupancy. Subsequent adherence to landscaping and buffer requirements shall not occur until or unless such additional parking is required to be constructed.

7.12.8.3 **Paving.**

When Maximum Exceeded. Parking that exceeds maximums must be paved with pervious pavers/pavement.

7.12.8.4 **Shared Parking.**

Any shared parking analysis shall follow the guidelines provided in the most recent edition of the Urban Land Institute's "Shared Parking" publication, a copy of which is on file in the office of the Director. Any off-site parking to be used shall require the recording of a perpetual easement prior to occupancy in

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the office of the Chanclery Clerk of the appropriate county, the form and substance of which must be approved by the Director.

7.12.8.5 **Parking Waiver.**

The Director may authorize up to a 25% reduction in the total number of parking spaces required when parking requirements cause the potential demolition of a historic structure or damage of significant tree stands The Director may issue such waiver at the request of the applicant after determining that the reduction will not unreasonably increase parking congestion. The applicant shall not disturb the structure or trees for which the waiver is granted.

7.12.9 **Number of Spaces Required.**

The following table lists the procedures for calculating parking requirements. Some uses and use groups are too variable to preset a parking standard calculation. Such are noted "by administrative review." In these cases, the Director shall determine the number of parking spaces required after consultation with the applicant, reviewing preliminary site designs, consulting publications such as ITE's "Parking Generation" publication, and observing parking demand in Hattiesburg for similar uses. GFA as used in the table means "gross floor area."

7.12.10 **Maximum Number of Spaces Allowed.**

In no case shall the minimum number of parking spaces be exceeded by five percent.

Table 7.12 - Table of Parking Requirements.

Standard District Table of Permitted Uses	Minimum Spaces Required
Accessory buildings and structures, excluding dwellings	-
Accessory communication antennae	-
Adult entertainment	1 per 4 seats

Table 7.12 - Table of Parking Requirements.

Standard District Table of Permitted Uses	Minimum Spaces Required
Agriculture-related feed, supply and equipment sales and services	1 per 300 sf GFA
Airport, public or private	1 per 4 seating accommodations for waiting passengers plus 1 per each 2 employees
Amusement facilities	1 per 6 seats or 1 per 300 sf of GFA if no permanent seats
Animal husbandry—for profit and research-related, excluding CAFOs as defined by the US EPA	1 per 1,500 sf GFA
Animal husbandry—for profit and research-related, including CAFOs as defined by the US EPA	1 per 1,500 sf GFA
Animal shelter	1 per employee
Aquaculture— for profit and research-related	1 per employee
Armory	1 per employee
ATM, outdoor	-
Auction house	1 per 4 seats
Automotive/truck repair and maintenance	1 per 375 sf GFA, including service bays, wash tunnels, and retail areas
Boarding house	1 per guest room plus 2 spaces for owner's portion
Boat, canoe, and kayak rental	-
Broadcast studio	1 per employee
Building maintenance and services	1 per employee
Bus station	1 per employee plus spaces required to satisfy projected peak parking needs
Care center	1 per 375 sf GFA
Care center, home	1 per 375 sf GFA

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Table 7.12 - Table of Parking Requirements.	
Standard District Table of Permitted Uses	**Minimum Spaces Required**
Cemeteries and columbariums accessory to a worship center	-
Cemetery and columbarium as principal uses	-
Check cashing agencies	1 per 400 sf GFA
Civic/cultural/community center	1 per 6 seats or 1 per 30 sf of GFA if no permanent seats
Clubs and bars	1 per 2 seats or 2 persons based on occupancy load whichever is greater
Construction offices (plumbing/ gas/electrical /welding – with equipment, supplies and retail sales)	1 per 500 sf GFA
Construction offices (plumbing/ gas/electrical /welding -office only)	1 per 1,000 sf GFA
Correctional facilities and jails	1 per employee on maximum shift, 1 per service vehicle
Country club	1.5 per 1,000 sf GFA
Dwelling, manufactured (mobile) home	-
Dwelling, multi-family	1.25 per DU
Dwelling, single-family attached	1 per DU
Dwelling, single-family detached	1 per DU
Dwelling, two family	1 per DU
Dwelling, zero lot line detached	1 per DU
Exterminators	1 per employee
Fairgrounds and stadiums, public or private	1 per 6 seats or 1 per 30 sf of GFA if no permanent seats
FDIC financial institutions and mortgage companies, excluding check cashing agencies	1 per 400 sf GFA
Fishing, hunting and trapping	-

Table 7.12 - Table of Parking Requirements.	
Standard District Table of Permitted Uses	**Minimum Spaces Required**
Fitness centers	1.5 per 1,000 sf GFA
Food trucks	-
Funeral home, mortuary and crematorium	1 per 4 seats
Gallery, museum, and library	1 per 1,000 sf GFA
Gated communities	-
Glass repair and replacement	1 per 375 sf GFA
Golf course	1.5 per hole
Government center/complex and offices	1 per 300 sf GFA
Group facility	0.3 per room
Group home	0.3 per room
Heliport	-
Home occupation	-
Horticulture— for profit and research-related	-
Horticulture— private	-
Hospital and outpatient clinic	1 per 400 sf GFA
Hunting camp/lodge	-
Ice machines and similar commercial accessory structures	-
Impoundment lot	-
Industry, heavy	1 per employee/maximum shift
Industry, light	1 per employee/maximum shift
Kennel	1 per 300 sf GFA
Laboratory, dental or medical	1 per 1,000 sf GFA
Laundromat	1 per 500 sf GFA
Life care communities	0.3 per room

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Table 7.12 - Table of Parking Requirements.

Standard District Table of Permitted Uses	Minimum Spaces Required
Lodging—bed and breakfast home	1 per guest room plus 2 spaces for owner's portion
Lodging—bed and breakfast inn	1 per guest room plus 2 spaces for owner's portion
Lodging—hotel, motel, tourist home	0.8 per room plus1 per 800 sf of public meeting area and restaurant space
Machinery, tools/construction equipment, limited sales and service	1 per 500 sf GFA of sales and service building
Marine sales and service	1 per 500 sf GFA of sales and service building
Medical or dental office	1 per 400 sf GFA
Mining and extraction	-
Motor vehicle rental and sales	1 per 500 sf GFA of sales and service building
Open space, common and public	-
Open storage	-
Other professional office	1 per 400 sf GFA
Package liquor store	1 per 300 sf GFA
Park/playground	1 per 1,000 sf GFA
Parking, garage	-
Parking, surface	-
Parking, surface or garage	-
Pawn shop	1 per 300 sf GFA
Personal and professional services, excluding tattoo parlors	1 per 300 sf GFA
Places of assembly not otherwise listed	1 per 6 seats
Product wholesale	1 per 600 sf GFA
Public and community utility facilities	-

Table 7.12 - Table of Parking Requirements.

Standard District Table of Permitted Uses	Minimum Spaces Required
Public safety station (police, fire, ambulance)	1 per employee + 1 per each 3 volunteer personnel on normal shift + 1 per 200 sf usable office space
Railroad facilities including terminals, excluding maintenance yards	1 per employee plus spaces required to satisfy projected peak parking needs
Railroad maintenance yard	-
Recycling center	-
Rehabilitation center, nursing care, assisted living, congregate care, palliative care, and hospice care	0.3 per room
Repair shop (small appliance, shoes, excluding engine)	1 per 400 sf GFA
Restaurant, with drive-thru	1 per 4 seats
Restaurant, without drive-thru	1 per 4 seats
Retail, <10,000 sq.ft.	1 per 300 sf GFA
Retail, >50,000 sq.ft.	1 per 300 sf GFA
Retail, 10,000-50,000 sq.ft.	1 per 300 sf GFA
Riding academy or stable	-
Sanitary landfill	-
Satellite receiving systems	-
School, K-12	2 per classroom (K-8)/1 per 2 students (9-12)
School, trade	1 per 300 sf
School, university or college	1 per 4 students
Seasonal uses and markets	1 per 100 sf gross public sales area
Self-storage	4 spaces plus 2 for manager's quarters
Sewage disposal plant	-
Shopping center, <25,000 sq.ft.	1 per 300 sf GFA

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Table 7.12 - Table of Parking Requirements.	
Standard District Table of Permitted Uses	**Minimum Spaces Required**
Shopping center, >75,000	1 per 300 sf GFA
Shopping center, 25,000-75,000 sq.ft.	1 per 300 sf GFA
Silviculture— for profit and research-related	-
Storage of junk, junk vehicles, salvage materials and waste	-
Tattoo parlor	1 per 500 sf GFA
Taxidermist	-
Telecommunication facilities and towers, wireless	-
Theater, indoor	1 per 6 seats
Theater, outdoor	1 per 6 seats or 1 per 30 sf of GFA if no permanent seats
Tow yards (impoundment lots)	-
Utility operation center	-
Veterinary clinic and hospital	1 per employee
Warehousing	1 per 1,000 sf GFA

7.12.11 **Parking or Storage in a Front or Side Yard.**

7.12.11.1 The following standards apply to all single-family and two family residential properties in all residential and mixed use districts.

7.12.11.2 No vehicle shall be parked or stored in a front or side yard of a residential property, except in:

i. A driveway made of an all weather surface not to exceed the maximum curb cut width set forth by and subject to the Land Development Code.

ii. A paved parking space composed of an all-weather surface, accessed by means of a driveway, depicted on an approved site plan, and set back a minimum of five feet from all City rights-of-way.

iii. An area adjacent to a driveway composed of an all-weather surface, set back a minimum of five feet from all City rights-of-way, and that when measured with the driveway is not wider than 50% of the minimum lot width established by the zoning district.

iv. A front yard, side yard, or rear yard for the purpose of unloading a vehicle, washing a vehicle or some other similar, temporary purpose. The vehicle, however, must be removed from the front yard, side yard, or rear yard once the purpose for temporarily parking the vehicle is accomplished.

7.12.11.3 Parking or storage of a recreational vehicle in the front yard or side yard of a residential property is subject to the standards set forth in Section 7.12.13.

7.12.11.4 The addition of impervious surfaces including driveways, parking spaces and adjacent areas may not cause total impervious surface ratio to exceed the maximums allowed by this ordinance.

7.12.11.5 Parking under this section is not prohibited for a vehicle displaying a license plate or placard issued to a disabled person under Section 27-19-56 of the Mississippi Code Annotated of 1972, as amended.

7.12.12 **Parking, Storage, or Use of Campers, Boats, Trailers, or Recreational Vehicles in Residential Zones and other Major Equipment.** Only one such vehicle or piece of equipment may be stored or parked on a residential lot provided that the vehicle is no longer than 17 feet. Longer vehicles are prohibited. No such vehicle or equipment shall be stored in a required front or side yard. No such equipment shall be used for living, sleeping, or housekeeping purposes on any lot.

7.12.13 **Parking, Storage, and Use of Non-Recreational or Commercial Vehicles and Equipment in Residential Zones.**

7.12.13.1 All vehicles must maintain current license plates and inspection stickers. Unlicensed

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vehicles shall not be stored or parked on any lot zoned for residential use, unless in completely enclosed buildings.

7.12.13.2 **In residential and mixed-use districts:**

i. Only one vehicle with a capacity of one ton or greater is allowed on a residential lot and only if parked in the rear yard area or parked within an enclosed building.

ii. Vehicles with a capacity greater than one ton and used for commercial, industrial, farm, or construction purposes are prohibited on residential lots and on street or highway rights-of-way, except when actively involved in pick-up or delivery to the residence.

iii. Cars or pick-up trucks (with or without signs) which are properly licensed, inspected, and used for commercial purposes may be parked anywhere on a residential lot designed, constructed and approved for vehicle parking.

iv. Moving trailers, vans, or POD storage units may be placed no closer than five feet from adjoining residential property lines on a residential lot for a period not to exceed 90 days while owners are moving in or out of a residence.

v. Dumpsters used for debris during construction and renovation of a residence may be placed no closer than five feet from adjoining residential property lines on a residential lot for a period not to exceed period of construction

7.12.14 **Parking Vehicles for Sale.** In all residential zones, only one item of the property owner (motor vehicle, recreational vehicle, boat, trailer or other large item of personal property) may be offered for sale and may only be placed for a total accumulated period not exceeding 60 days per year.

7.12.15 **Bicycle Parking.**

7.12.15.1 Parking areas on lots adjacent to a marked bicycle route, bike lane, or shared use facility shall include a conveniently and safely located bike rack providing parking for a minimum of 10 bicycles unless reduced by the Director.

7.12.15.2 Bicycle parking should be provided for all uses except single-family and two family dwellings and non-residential uses with less than 2,500 square feet of gross floor area at a rate of 5% of automobile parking requirements. The Director may waive or reduce the number of bicycle parking spaces required based on the surrounding land uses of a particular development and the accessibility of a site by bicycle. (e.g. freeway interchanges with no connection to the surrounding neighborhoods.) The number of parking spaces required shall be calculated so that fractional portions of parking spaces are considered a full space.

7.12.15.3 Bicycle parking should be located along a major building approach line and clearly visible from the approach. The rack area shall be no more than 120 feet from the entrance it serves, or as close as the nearest non-handicap, off-street auto parking space, whichever is farther. Rack area(s) should be clearly visible from the entrance they serve and should be provided near each actively used entrance. In general, multiple buildings should not be served with a combined, distant rack area. It is preferred to place smaller rack areas in locations that are more convenient.

7.12.15.4 **Bicycle Parking Design.**

i. Bike lockers and racks shall be securely anchored to the ground and on a hard surface.

ii. Each required bicycle parking space shall be accessible without moving another bicycle

iii. Required bicycle parking spaces shall be available for residents, visitors, customers and/or employees of the use.

7.12.16 **Stacking Space.**

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7.12.16.1 **Number of Spaces Required.** In addition to required parking spaces, drive-thru facilities shall provide a minimum of five stacking spaces per drive-thru facility, window, or bay, with the following exceptions. Note: the space directly in front of the facility, window or bay shall not count towards meeting the stacking requirements.

i. Fast food restaurants shall have an additional five stacking spaces. A minimum of five of the total stacking spaces shall be located at or prior to the ordering station.

ii. Non-automated car washes shall only be required to have two stacking spaces per bay, one of which is located for use as a dry down area.

iii. Automated car washes shall be required to have four stacking spaces per bay.

iv. Freestanding ATMs shall only be required to have two stacking spaces.

7.12.16.2 **Location.** Stacking spaces shall be located entirely outside of a required driveway or parking aisle needed to access required parking spaces.

7.12.16.3 **Size.** For the purposes of determining compliance, stacking spaces shall measure 9 x 18 and shall be illustrated on site plans.

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SECTION 8. INFRASTRUCTURE STANDARDS

8.1 Applicability.

8.1.1 This section applies to any application for any of the following:

- Subdivision plat approval
- Any application for site and design plan approval if no subdivision plat is required
- Any administrative development approval

8.2 Streets and Transportation.

8.2.1 Street Design.

The design of streets shall conform to the minimum criteria set forth herein and shall be considered in relationship to existing and planned streets, topographic conditions, public convenience and safety, and appropriate relationship to the proposed development to be served.

8.2.1.1 The arrangement of streets in a subdivision shall either:

i. Provide for the continuation of existing streets in surrounding areas where desirable and feasible, or

ii. Conform to an adopted development plan that demonstrates, due to topographical or other condition, the impracticality of such extension to adjacent properties.

8.2.1.2 Where a proposed residential subdivision abuts or contains an existing or proposed arterial street, the Site Design and Review Committee may require that the streets or lots be designed in such a way as to provide adequate protection of residential properties.

8.2.1.3 Where a proposed subdivision abuts or contains a railroad, freeway, or limited or controlled access highway right-of-way, parallel frontage roads may be required.

8.2.1.4 Half-Streets **shall be prohibited.**

8.2.1.5 **Horizontal and Vertical Alignment.**

i. The maximum length of a minor street designed to have only one end open shall be 400 feet unless a greater length is required due to unusual topographic conditions or property access limitations. A turn-around having a minimum diameter of 75 feet between curb faces and a minimum right-of-way of 100 feet shall be provided at the closed end of such streets.

ii. The minimum stopping sight distances for horizontal curves on minor residential streets shall be 200 feet.

iii. Reverse curves shall be avoided where possible. Should it become absolutely necessary to use a reverse curve, a tangent of at least 100 feet shall be used between curves.

iv. The minimum radius of curvature permitted on a horizontal curve shall depend upon design speed and corresponding friction coefficients developed by AASHTO (American Association of State Highway and Transportation Officials), but shall not be less than 175 feet.

v. All changes in street grades shall be made with vertical curves. The minimum required stopping sight distance for a vertical curve shall be computed using formulas developed by AASHTO, but shall not be less than 200 feet, except in residential areas, the minimum required shall not be less than 100 feet.

vi. The maximum gradient shall not exceed 15 percent except where steeper grades are necessary due to unusual topographic conditions and approval is granted by the City Engineer. The minimum grade shall be designed to conform to MDOT

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standards.

8.2.1.6 **Intersection Design.**

i. Streets shall be designed to intersect at approximately right angles. Skewed intersections shall be avoided and in no case shall the angle of intersection be less than 75 degrees.

ii. Street intersections and approaches shall be designed on as flat a grade as possible. Street gradients within 100 feet of intersections shall not exceed four percent, and every reasonable effort shall be made to keep the gradient below two percent.

iii. The minimum curb radius permitted at intersections shall be 20 feet for minor residential streets, and 25 feet for collector streets, and for streets serving commercial or industrial developments.

iv. Street intersections, when not aligned, shall be offset by a minimum of 125 feet from centerline.

v. Turn lanes shall be provided at heavily traveled intersections as determined by the City Engineer.

vi. When possible, intersections on sharp horizontal curves or near the vertex of crest vertical curves shall be avoided.

8.2.1.7 **Standard Street Cross Sections and Design Requirements.** Except where a Corridor, Neighborhood or Special Area Plan containing alternative street designs, or where a special zoning district requires otherwise, streets shall conform to the following standards.

i. Streets shall be designed with a crown of two percent.

ii. Street pavement designs shall be based on consideration of the anticipated traffic volumes by weight, the subgrade soil, surface drainage, ground water and climatic conditions. The pavement thickness shall be a function of the load supporting value of the subgrade soil beneath the pavement and of the load distribution characteristics of the proposed pavement structure. Soil borings by a qualified expert may be required by the City Engineer to establish street design requirements.

iii. All streets shall be designed with curb and gutter, unless proposed with alternative LEED compliant drainage provisions.

iv. Proposed streets which align with existing named streets shall continue the existing name as designated with the Forrest County Emergency Operations Center. In no case shall names of proposed streets duplicate or be confused with existing street names.

8.3 Street Design Standards Illustrations

8.3.1 **The following illustrations set forth minimum street design standards for new streets.**

8.3.2 **Private Streets.** If private street owners should request that such streets be changed to public streets, the owners shall fully agree that, before the acceptance of such streets by the City, the owners will bear full expense of any reconstruction or alteration necessary to make the streets fully conform to the requirements applicable to public streets prior to dedication and acceptance including a minimum 24-foot travel way. The owners also shall agree that these streets shall be dedicated to public use without compensation to the owners.

8.3.3 Alleys.

8.3.3.1 Alleys may be provided to the rear of lots when carefully integrated into the circulation system of a development.

8.3.3.2 Alley width shall be a minimum of 20 feet and shall conform to the construction standards of public streets.

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Right-of-Way (feet)	50	As the lowest-order street, the access street usually carries no through traffic. With properly designed access streets without through traffic, travel distances from residences to collector streets are short, traffic speeds are low, lane capacity and design speed are not controlling design factors, and minor delays are inconsequential considerations. Drivers and residents expect and accept both brief delays and the need to decrease speed. ADT = 0 - 250
Number of Travel Lanes	2 lanes	
Parking Lane Width (feet)	0'	
Pavement Width (feet)	24 – 32	
Corner Radius	20'	
Centerline Radius	90'	
Block Length (feet)	800'	
Sidewalk width (minimum)	5'	
Planting Strip Required?	Yes	
Bike Lanes Required?	In conformance with Complete Streets Ordinance	
Street Trees Required?	Yes	

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Right-of-Way (feet)	50'	The sub-collector provides passage to access streets and conveys traffic to collectors. Like access streets, the sub-collector provides frontage and access to residential lots but also carries some through traffic to lower-order (access) streets. The sub-collector is a relatively low-volume street. ADT = 250 - 1,000
Number of Travel Lanes	2 lanes	
Parking Lane Width (feet)	8'	
Pavement Width (feet)	30'	
Corner Radius	20'	
Centerline Radius	90'	
Block Length (feet)	400'	
Sidewalk width (minimum)	5 ft. or 6 ft. adjacent to on street parking.	
Planting Strip Required?	Yes	
Bike Lanes Required?	In conformance with Complete Streets Ordinance	
Street Trees Required?	Yes	

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Right-of-Way (feet)	50'	A high-volume street connects communities and activity centers, and connects communities to major state and interstate highways. ADT = Over 3,000
Number of Travel Lanes	2'	
Parking Lane Width (feet)	8'	
Pavement Width (feet)	27'	
Corner Radius	25'	
Centerline Radius	90'	
Block Length (feet)	400'	
Sidewalk width (minimum)	5 ft. or 6 ft. adjacent to on street parking.	
Planting Strip Required?	Yes	
Bike Lanes Required?	In conformance with Complete Streets Ordinance	
Street Trees Required?	Yes	

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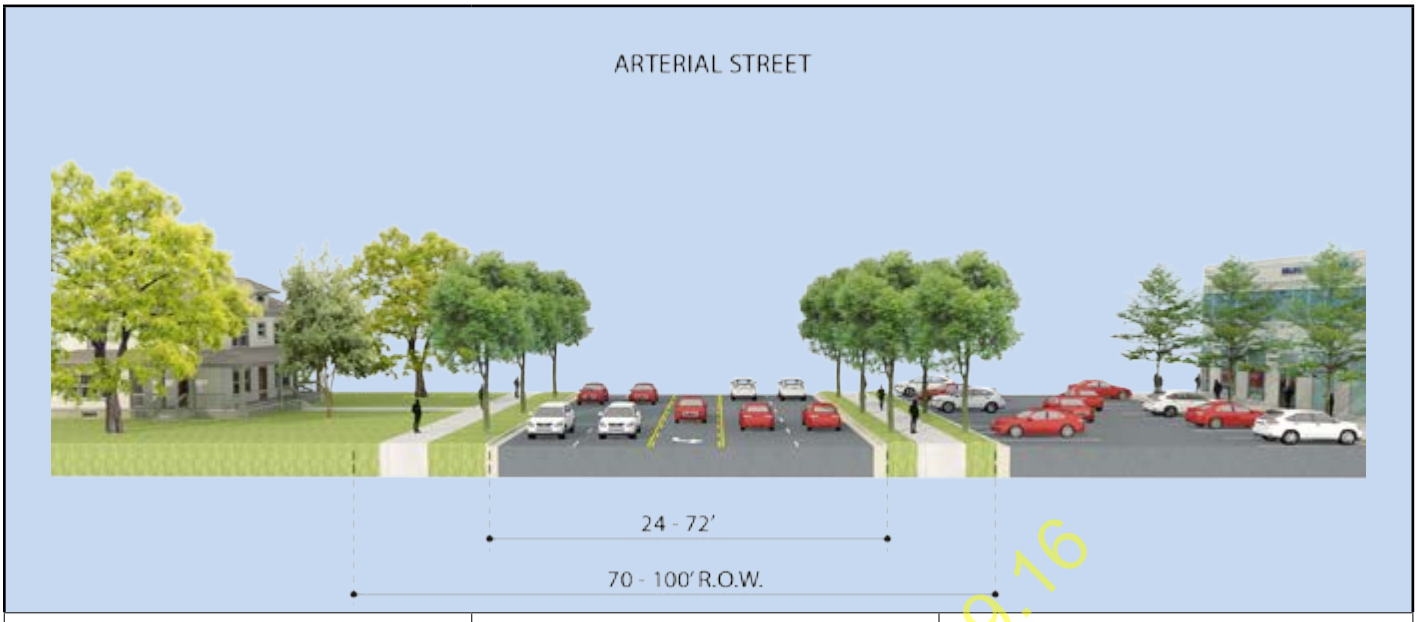

Right-of-Way (feet)	Up to 70 to 100 feet	A high-volume street connects communities and activity centers, and connects communities to major state and interstate highways. ADT = Over 3,000
Number of Travel Lanes	2 to 4	
Parking Lane Width (feet)	0'	
Pavement Width (feet)	24 - 72'	
Corner Radius	25'	
Centerline Radius	250'	
Block Length (feet)	400'	
Sidewalk width (minimum)	5'	
Planting Strip Required?	Yes	
Bike Lanes Required?	In conformance with Complete Streets Ordinance	
Street Trees Required?	Yes	

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8.3.3.3 Dead-end alleys shall be avoided. Where unavoidable, such alleys shall be provided with adequate turnaround facilities at the dead-end.

8.4 Easements and Right-of-Ways

8.4.1 Utility, drainage, transportation easements, or right-of-ways of an appropriate width as required shall be provided.

8.4.2 Where easements or right-of-ways intersect or sharp changes in alignment are necessary, corners shall be cut off sufficiently to permit equipment access, subject to the approval of the City Engineer.

8.4.3 No buildings or structures shall be placed within easements or rights-of-way. Any landscaping and fencing placed within an easement or right-of-way by a property owner is done at the risk of the property owner. If the City removes the fence or landscaping for any reason, the property owner will not be compensated and the fencing or landscaping will not be replaced by the City.

8.4.4 Any overhanging limbs, shrubbery, or other vegetation forming an obstruction may be removed if necessary from within the limits of a utility easement at the discretion of the maintenance personnel of the utility which has installed or is installing or maintaining within such easement.

8.4.5 Easements or right-of-ways which do not open at both ends upon a street, alley, or another easement, shall not be permitted unless approved by the City Engineer in limited circumstances where such easement cannot be avoided.

8.4.6 Whenever practical, agreements for utility easements shall include the ability to use the easement for a public trail as approved by the City.

8.5 Sanitary Sewer Systems

8.5.1 **Design Criteria.** The minimum design standards of the sanitary sewer system for each subdivision shall conform to the following:

8.5.1.1 **Minimum pipe size** - eight inches

8.5.1.2 **Minimum pipe slope** - 0.400% for eight inch pipe

8.5.1.3 **Minimum velocity** - two feet per second

8.5.1.4 **Maximum velocity** - nine feet per second or greater when topography dictates

8.5.1.5 **Maximum depth flow** - one-half pipe diameter after multiplying by peak factor

8.5.1.6 **Waste per person** - 120 gallons per day including infiltration

8.5.1.7 **People per dwelling unit** - four

8.5.1.8 **Peak factor** - three and one-half minimum

8.5.1.9 **Maximum manhole separation** - 400 feet with manholes required at each grade change and alignment change

8.5.1.10 **Minimum cover** - three feet

8.5.1.11 **Minimum stub out diameter** - six inches, one stubout per lot

8.5.1.12 **Top manhole elevation** - at grade in pavement or six inches above grade in unpaved areas

8.5.2 **Pump Stations.** The use of sewer lift stations should be minimized. However, when pump stations cannot be avoided, they should be designed for easy maintenance, maximum operating life, and adequate pumping capacity. The designed calculations must show flow rates and velocities for the pump station and force main. Some requirements for pump stations include:

8.5.2.1 Minimum of two pumps, each of which has capacity to handle the expected load, said pumps shall alternate

8.5.2.2 Adequate controls with overload and lightning protection and alternators

8.5.2.3 Adequate pump housing and heaters to prevent freezing

8.5.2.4 Adequate capacity for not more than 75 percent duty cycle under peak flow conditions

8.5.2.5 Necessary access road and security fencing

8.5.2.6 Minimum flow rate of two feet per second in force main, with a maximum of 12 feet per second with dual pump operation

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8.5.2.7 Adequate vented wet well

8.5.2.8 Three phase pumps shall be required

8.5.2.9 An approved alarm system

8.5.2.10 Auxiliary power generators

8.5.3 All plans and specifications shall comply with appropriate state and federal regulations.

8.6 Water Supply Systems

8.6.1 Where Hattiesburg provides drinking water, mains shall be designed, constructed and properly connected with the public water supply system in such a manner as to adequately serve all lots shown on the subdivision plat for both domestic and fire protection purposes, and will adhere to the minimum requirements set forth herein below.

8.6.1.1 Water distribution systems shall be designed using the Hardy Cross Method. The Hazen-Williams formula shall be used in computing head loss.

8.6.1.2 Water distribution systems shall be designed for the peak hour flow, or the maximum day flow, plus fire flow, whichever is greater. Domestic flows and fire flows shall be determined by the Department of Health.

8.6.1.3 The water distribution system shall be designed so that the following range of dynamic pressures is provided: 50 psi to 110 psi for average daily flows; minimum 20 psi to 35 psi for peak hour flows; 35 to 50 psi for maximum daily flow plus fire flow. The minimum dynamic pressure at any point shall be 20 psi.

8.6.1.4 The maximum design velocity shall not exceed five fps.

8.6.1.5 Water distribution systems shall be laid out on a grid system with cross connections at cross streets. Dead end pipes shall be avoided whenever possible.

8.6.1.6 Valves shall be installed at each intersection or change in pipe size, and shall be placed so that no single case of pipe breakage shall require a service cutoff from an artery, or more than 800 feet of pipe in non-residential districts, or more than 1,000 feet of pipe in a residential district.

8.6.1.7 The distribution and spacing of hydrants shall be based on the following table which is subject to periodic update, but in no case shall the maximum spacing exceed 500 feet. Valves shall be installed on each fire hydrant to meet Mississippi Fire Rating Bureau specifications.

8.6.1.8 Mains shall be constructed of ductile iron and shall be a minimum of six inches in diameter where length is 800 feet or less. Mains installed for distances greater than 800 feet shall be gridded or looped with more than one source of supply. The size shall be determined by using accepted engineering calculation methods as approved by the City Engineer.

8.6.1.9 Fire hydrant nozzles shall be three-way nozzles. The fire hydrant's lowest nozzle shall be a minimum of 18 inches and a maximum of 30 inches above street or curb grade.

8.6.2 The calculating method for areas of higher density development potential, based upon the zoning of the properties to be served, shall reflect the highest density development possible and the main size increased, if conditions warrant.

8.6.3 The requirements for water distribution systems serving commercial and industrial developments shall be determined by engineering analysis based on specific water requirements for the type of use intended or those required by the height and density permitted by the zoning classification of the property, whichever is greater.

8.6.4 Newly installed systems shall be pressure tested at 125 pounds for eight hours under the inspection of the City of Hattiesburg Engineer.

8.6.5 All newly installed systems shall be sterilized and must pass bacteriological test to the satisfaction of the City of Hattiesburg's Water Department and the Mississippi State Board of Health, prior to placing said system in service, or accepted by City.

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8.6.6 All water used in hydrostatic tests shall be potable water; containers holding water shall be sterile.

8.6.7 The City Engineer shall be notified prior to the beginning of any project in order that the installation can be made under the inspection of the appropriate technical personnel of that office.

8.6.8 It shall be the responsibility of the developer, or his contractor, to reimburse the City of Hattiesburg for tie-ins to existing mains, if made by the City, and sterilizing based upon the adopted Fee Schedule.

8.6.9 The Developer shall provide the Fire Department with residual flow pressure, static pressure and gallons per minute (gpm) flows for each fire hydrant installed.

8.6.10 All plans and specifications shall comply with appropriate state and federal regulations.

8.6.11 There shall be 10 feet of separation between water and sewer lines.

8.6.12 Upon completion of utility work, the contractor shall submit electronic as-built drawings to the City Engineer.

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SECTION 9. ENVIRONMENTAL STANDARDS

9.1 Stormwater.

9.1.1 Purpose. The purpose of these regulations is to safeguard persons, protect property, prevent damage to the environment and promote the public welfare by guiding, regulating, and controlling the design, construction, use and maintenance of all stormwater facilities and development. It is more specifically the intent of these regulations to address requirements under the federal Clean Water Act, National Pollution Discharge Elimination System Phase II or any appropriate national standard.

9.1.2 Definitions

9.1.2.1 Best Management Practices (BMPs) - schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater , receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

9.1.2.2 Clearing - any activity which removes part or all of the vegetative ground cover and/or trees including, but not limited to, root mat removal and/or topsoil removal.

9.1.2.3 Design Storm - design criteria used for sizing stormwater management facilities and their conveyance. Design storms are a combination of the design storm return period (which refers to the frequency) and the storm duration (which defines the rainfall depth or intensity). A prescribed hyetograph and total precipitation amount (for a specific duration recurrence frequency) are used to estimate runoff for a hypothetical storm for the purposes of analyzing existing drainage, designing new drainage facilities, or assessing other impacts of a proposed project on the flow of surface water.

9.1.2.4 Fill - the deposit of soil, rock or other material placed by man.

9.1.2.5 Grading - any excavating or filling of earth materials or any combination thereof.

9.1.2.6 Illicit Discharge - any direct or indirect non-stormwater discharge to the storm drain system, except as exempted in this Ordinance.

9.1.2.7 Land Disturbance Activity - any clearing, filling, excavation or grading activity on one or more contiguous undeveloped lots.

9.1.2.8 Low Impact Design (LID) - an approach to land development/redevelopment that works with nature to manage stormwater as close to its source as possible. It includes principles such as bioretention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements.

9.1.2.9 National Pollution Discharge Elimination System (NPDES) permit - a permit issued pursuant to 33 U.S.C. Chapter 26 Water Pollution Prevention and Control, Subchapter IV Permits and Licenses, Section 1342 that authorizes the discharge or pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

9.1.2.10 Stormwater Pollution Prevention Plan (SWPPP) - a document which describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

9.1.2.11 Stormwater - water induced or created from precipitation whether rain, snow or ice and either stored, collected, detained, absorbed, or discharged.

9.1.3 Post Development Discharge. Post-development discharge rates shall not exceed pre-develop-

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ment discharge rates from any development site. Engineering detail and documentation including a stormwater plan for the site shall be required at the time of application as specified herein.

9.1.4 Illicit Discharges and Connections.

9.1.4.1 It shall be unlawful for any person to allow discharges to the city stormwater drainage system that are not composed entirely of stormwater runoff, or to contribute to increased non-point source pollution and degradation of receiving waters.

9.1.4.2 It shall be unlawful for any person, or to allow others under its control, to throw, deposit, empty, drain, discharge or to permit to be thrown, deposited, emptied, drained or discharged into the city stormwater drainage system or watercourses located within the city limits any materials, including but not limited to pollutants or waters containing pollutants that cause or contribute to a violation of applicable water quality standards, or stormwater.

9.1.4.3 Discharge exemptions.

1. Discharges specified in writing by the city or other authorized enforcement agency as being necessary to protect public health and safety;
2. Water line flushing performed by a government agency or utility authority; and
3. The following activities and discharge of any other water source not containing pollutants:
   a. Landscape irrigation or lawn watering;
   b. Rising groundwater;
   c. Ground water infiltration to storm drains;
   d. Uncontaminated pumped ground water;
   e. Foundation or footing drains (not including active groundwater dewatering systems);
   f. Crawl space pumps;
   g. Air conditioning condensation;
   h. Springs;
   i. Non-commercial washing of vehicles;
   j. Natural riparian habitat or wetland flows;
   k. Swimming pools;
   l. Firefighting activities; and
   m. External building wash down.
   n. The prohibition shall not apply to any non-stormwater discharge permitted under NPDES permit, waiver, or waste discharge order issued to the discharger and administrated under the authority of the Federal Environmental Protection Agency, provided that the discharge is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the stormwater drainage system.

9.1.4.4 Illegal Connections.

a. The construction, connection, use, maintenance or continued existence of any illegal connections to the city stormwater drainage system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

b. A person is considered to be in violation of this chapter if the person connects a line conveying sewage to the city's stormwater drainage system, or allows such a connection to continue.

c. Improper connections in violation of this section must be disconnected and redirected, if necessary, to an approved onsite wastewater management system or the sanitary sewer system upon approval by the appropriate city department or other authorized enforcement agency.

   1. Any drain or conveyance that has not been documented in plans, maps or equivalent, and which may be connected to the city's stormwater drainage system,

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shall be located by the owner or occupant of that property upon receipt of a written notice of violation from the city requiring that such locating be completed; and

2. The format in which the written results of the investigation will be provided to the city shall include, but not be limited to, the following:

- Identification of the drain or conveyance as storm sewer, sanitary sewer or other;
- Identification of the outfall location or point of connection to the stormwater drain system, sanitary sewer system or other discharge point; and
- Information regarding sizing, content and volume of outfall, and date of connection to the city system.
- Specify a reasonable time period, within which the location of the drain or conveyance is to be completed.

9.1.5 Notification of Spills. Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials from that facility or operation that are resulting or may result in illegal discharges or pollutants discharging into stormwater, the city stormwater drainage system, state or United State waters, said person shall take all necessary steps to ensure the discovery, containment, and clean-up of such release.

9.1.5.1 In the event of a release of hazardous materials, said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services.

9.1.5.2 In the event of a release of non-hazardous materials, said person shall notify the Director of Engineering or his/her representative in person or by telephone or e-mail no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed, certified receipt required, to the Engineering Department within three business days of the verbal notice.

9.1.5.3 If the discharge of prohibited material emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years. Said person also shall take immediate steps to ensure no recurrence of the discharge or spill.

9.1.5.4 Any violation of this section is subject to the violations and penalties and prosecution found in the Hattiesburg Land Development Code.

9.1.6 Low Impact Design Encouraged. In order to balance growth needs with environmental protection, reduce municipal infrastructure and utility maintenance costs (e.g. streets, curbs, gutters, sidewalks, storm sewer), reduce stormwater management costs, preserve the integrity of ecological and biological systems, protect water quality by reducing sediment, nutrient, and toxic loads to water bodies, and to preserve trees and natural vegetation, low impact design is encouraged for all non-residential projects and all residential projects containing more than 10 dwelling units. All projects are encouraged to meet the following criteria.

9.1.6.1 Site design. Site design shall minimize impervious surface and alteration of natural vegetation and topography, and shall meet the following requirements:

i. Clearing and re-grading on a development site shall be minimized.

ii. Clearing shall be done in phases to minimize the amount of bare ground at any one time.

9.1.6.2 New streets, whether dedicated to the public or private internal drives serving multiple tenants on a single parcel, shall be designed in such a way as to minimize the total amount

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of impervious surface.

9.1.6.3 Curb and guttering that directs the first one inch of rainfall to an offsite stormwater conveyance shall be prohibited unless such conveyance is designed to discharge to an adjacent bioretention island or detention pond that has been approved by the City and is part of an approved stormwater plan.

9.1.6.4 Shared parking shall be used whenever possible.

9.1.6.5 Open space areas set aside in residential cluster developments may be used for onsite treatment of stormwater consistent with an approved stormwater plan.

9.1.7 Storm Drainage System Design. All storm drainage systems shall meet the following standards. For design elements not covered by the following standards, the standards approved by MDOT or AASHTO, whichever is most stringent, shall prevail.

9.1.7.1 General Standards.

1. The design of stormwater drainage systems shall insure adequate control of stormwater runoff through the use of properly sized and positioned drainage structures including both conventional and low impact development structures.

2. The design of stormwater drainage systems shall be compatible with a stormwater drainage plan approved for the site by the City Engineer at a site plan review meeting. Minimum right-of-way required by the plan shall be dedicated.

3. Drainage facilities shall be designed to prevent damage to adjacent properties.

- Accommodation of Upstream Drainage Areas: A culvert or other drainage facility shall in each case be large enough to accommodate potential runoff from the entire upstream drainage area as determined by the design engineer. The City Engineer shall approve the necessary size of the facility, based on the provisions of the construction standards and specifications assuming conditions of maximum potential watershed development.

- Effect on Downstream Drainage Areas: The Developer's Engineer shall also study the effect of each subdivision on existing downstream drainage facilities outside the area of the development

- Design Storm Frequency: Projects shall be designed for the twenty-five (25) year, twenty-four 24 hour frequency storm event. Peak discharge rates for fifty (50) and one hundred (100) year frequency storm events shall be calculated and the effect of these storms on the stormwater system shown. This shall be submitted as part of the Land Disturbance Permit application.

9.1.7.2 Low Impact System Design. Natural and vegetated stormwater management systems such as swales, constructed wetlands, and bioretention cells may be used to manage stormwater and comply with federal and local stormwater regulations. All low impact stormwater systems shall meet the intent and specifications specified in Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, Volume 2, Stormwater Management, published by the Mississippi Department of Environmental Quality (MDEQ) or current version thereof, unless otherwise specified in these regulations.

9.1.7.3 Storm Drainage Pipe and Culverts.

1. Pipe and culvert sizes shall be selected by use of computed hydrological and hydraulic data. Design flows shall be based on climatic factors such as rainfall intensity, duration, frequency and distribution and physiographic factors such as size, shape, and slope of drainage area, anticipated land use or cover, surface infiltration condition, soil type and topographical condition. Pipe selection shall be based on its hydraulic capacity con-

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sidering size, slope, and roughness characteristics as well as its tendency to become choked and the ability to clean and remove obstructions. Selection is subject to Engineer's approval.

2. Cross drains shall be provided to accommodate all natural water flow and shall be of sufficient length to permit construction of a full width roadway including side slopes. Headwalls or flared end sections as well as channel bottom and slope protection shall be provided at the upstream and discharge end of the cross drain as required by the City Engineer.

3. Pipe material must be approved by the City Engineer, however, corrugated metal pipe is prohibited.

9.1.7.4 Streets, Curb and Gutter, Inlets and Parking.

1. The horizontal and vertical alignment of streets shall be compatible with the storm water runoff system and drainage design.

2. Street grades shall be coordinated with lot drainage as proposed in the grading plan.

3. The hydraulic capacity of the curb and gutter shall be determined by accepted engineering procedure taking into consideration roughness, street cross-slope, and street gradient, and allowable spread of water over the travel line.

4. Curb inlets shall be designed in accordanced with MDOT standards.

9.1.7.5 Detention and Retention Areas.

1. Retention and Detention areas shall be landscaped. A vegetated green space shall be placed and maintained around stormwater runoff storage areas.

2. Retention and Detention areas with a water surface area smaller than 1,000 sq. ft. shall have a five foot vegetated green space around the perimeter and a 10 foot vegetated green space around the perimeter of areas larger than 1,000 sq. ft.

3. Design of vegetated green space required by this subsection, including materials to be used shall be submitted on a landscaping plan for the site and shall be subject to site plan approval as part of a land development permit application.

9.1.7.6 Maintenance Agreements.

1. A legally binding Maintenance Agreement specifying the parties responsible for the proper operation and maintenance for all permanent stormwater management facilities shall be included as part of the Land Disturbance Permit application and secured prior to the issuance for any permits for land disturbance activities.

2. Enforceable operations and maintenance agreements included as part of the covenant are required to ensure the system will function as designed during and after construction. The Maintenance Agreement will include any and all maintenance easements required to access and inspect the stormwater treatment practices, and to perform routine maintenance as necessary to ensure proper functioning of the stormwater treatment practices. The parties responsible for the documented SWPPP BMPs shall make records of the installation, maintenance and repairs of the facility and shall retain these records for at least 5 years. These records shall be made available to the City of Hattiesburg during inspection of the facility and at other reasonable times upon request.

3. Failure of the owner or operator to maintain the premises shall be cause for the city to take action and to remedy the violation. If the owner fails to perform the maintenance the City of Hattiesburg

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may complete the work with the owner responsible for all the costs.

9.1.7.7 Additional Site Plan Requirements. In addition to all other site plan or subdivision plat submittal requirements, the following information shall be shown on or submitted along with applications for land development or land subdivision where there are additions or alterations to existing natural or manmade stormwater infrastructure.

1. The location of all private drainageways.

2. Ownership, intended or actual, of all private drainageways.

9.1.7.8 Box Culverts and Bridges. The structural design of all box culverts or bridges shall conform to the standards established by MDOT. Bridges requiring spans greater than 19 feet shall be constructed of reinforced concrete or structural steel with a reinforced concrete deck. No mud sills or timber grills will be permitted for bridge foundations. All bridges shall be provided with substantial guard rails on both sides of two five foot sidewalks.

9.1.7.9 Additional Site Plan Requirements. In addition to all other site plan or subdivision plat submittal requirements, the following information shall be shown on or submitted along with applications for land development or land subdivision where there are additions or alterations to existing natural or man-made stormwater infrastructure.

i. The location of all private drainage ways.

ii. Ownership, intended or actual, of all private drainage ways.

iii. A proposed maintenance plan for all private stormwater infrastructure. Such plan shall be required to be recorded in the Chancery Clerk's office after approval by the City prior to issuance of a certificate of occupancy or other use of the property.

iv. The location of all maintenance easements providing access to any stormwater structure such as detention ponds and bioretention areas.

9.2 Sedimentation and Erosion Control.

In order to safeguard persons, protect property, and prevent damage to the natural environment, habitat and stormwater systems in Hattiesburg the following regulations are hereby established to guide and control the design, construction, use, and maintenance of any development or other activity that disturbs the topsoil or alters the flow of stormwater as a result from land disturbance activity within the City.

9.2.1 Land Disturbance Permit Required. No land disturbance, construction or land development activity may commence, and no land owner or land developer shall receive Site Plan Approval, preliminary plat approval, or any building, grading or other land development permits required for land disturbance activities without first meeting the requirements of this ordinance. Permits for land disturbance and storm water pollution prevention plans (SWPPP) are required as follows.

9.2.1.1 Less Than One-Half Acre (21,780 square feet) of Land Disturbed. Land disturbance activity on a site from one-half acre to 0.999 acres shall require a Land Disturbance Permit and shall follow best management practices. If the site has, at a minimum, one-half acre (21,780 square feet) of impervious area, a SWPPP and storm water calculations shall be required. Additional information may be requested at site plan review.

9.2.1.2 One-Half Acre to 0.999 Acre of Land Disturbed. A City of Hattiesburg Land Disturbance Permit is required. A SWPP is not required.

9.2.1.3 One Acre to 4.999 Acres of Land Disturbed. A City of Hattiesburg Land Disturbance Permit, a Small Construction General Permit, a Notice of Intent (NOI) and SWPPP are required. The application packets are available from the City of Hattiesburg's Department of Urban Development. (MDEQ's approval of

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the Small Construction General Permit application is not required, unless deemed necessary.).

9.2.1.4 Five Acres or Greater. A City of Hattiesburg Land Disturbance Permit, a MDEQ Large Construction Permit, NOI and SWPPP are required. The Large Construction General Permit package must be submitted directly to MDEQ, Jackson, MS. No permits will be issued pending MDEQ approval of a Large Construction General permit. Copies of the permit application and subsequent modifications and approvals shall be submitted to the City of Hattiesburg Site and Design Review Committee.

Table 9.2 Land Disturbance Permit Requirements

Acre(s) Disturbed	Land Disturbance Permit Required from the City	Construction Permits (including Notice of Intent & SWPPP) Required	Submittal and Approval Required by:
Less than ½ acre (21,780 sq. ft.)	Yes	No	City
0.5 (½) acre to 0.999 acre	Yes	No	City
1 acre to 4.999 acres	Yes	Small Construction General Permit	City
5 acres or greater	Yes	MDEQ Large Construction General Permit	MDEQ

9.2.2 Land Disturbance Permit Exceptions. No land disturbance permit is required for the following activities.

9.2.2.1 Any emergency activity that is immediately necessary for the protection of life, property, or natural resources.

9.2.2.2 Existing nursery, agricultural or silvicultural operations conducted as a permitted main or accessory use.

9.2.2.3 Activities not requiring a permit from the City of Hattiesburg are subject to fines for not complying with BMPs.

9.2.2.4 If waters of the United States are being filled, rerouted or dammed, the applicant shall provide proof of issuance of applicable permits/approvals from the U.S. Army Corps of Engineers.

9.2.2.5 No land disturbance or construction related permits will be issued by the City of Hattiesburg for developments five acres or larger without MDEQ approval of the Large Construction General permit. Subsequent plan modifications and approvals shall be made available to the City.

9.2.3 Area Limited. Clearing and grading shall be limited to that portion of a lot or development tract for which a valid land disturbance permit has been issued.

9.2.4 Stabilization Required. All lots or tracts cleared or graded shall be stabilized with manmade or vegetative cover.

9.2.4.1 Soil must be stabilized within seven days of clearing or inactivity in construction.

9.2.4.2 If vegetative erosion control methods, such as seeding, have not become established within two weeks, the City of Hattiesburg may require the site to be reseeded, or that a non-vegetative option be employed.

9.2.4.3 Any temporary soil stockpiles shall be stabilized or protected with sediment trapping measures to prevent erosion.

9.2.4.4 Selected permanent or temporary erosion control measures should be appropriate for the time of year, site conditions and estimated duration of use.

9.2.5 Installation of BMP's required prior to land disturbance activities.

9.2.5.1 Installation of BMPs, which address stormwater runoff, shall be required for all projects involving land disturbance activities within the City of Hattiesburg. BMPs shall be in place upon commencement of construction.

1. Utilization of pre-construction BMPs is required prior to the commencement of demolition or development/redevelopment activities.

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2. Utilization of construction BMPs are required throughout demolition or development/redevelopment until such time as a certificate of occupancy is issued or until permanent vegetation is established.

3. Post-Construction BMPs are required to be installed and maintained until such time as either title transfers or the approved use of the subject property changes. A new SWPPP must be submitted by the new owner at any time there is a change in use of the property.

9.2.5.2 BMP selection is site specific, dependent upon site conditions and proposed activities, thus each project's MDEQ or city-approved SWPPP, if required, will identify appropriate pre-construction, construction and post-construction BMPs that will be subject to ongoing inspection by the city.

9.2.5.3 The Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas manual, prepared by the Mississippi Department of Environmental Quality, identifies BMPs acceptable to the City of Hattiesburg and related standards for the prevention, treatment and control of non-point sources (NPS).

9.2.5.4 Acceptable methods for accomplishing the installation and maintenance of site specific BMPs is provided in detail in the Erosion Control, Sediment Control and Storm water Management on Construction Sites and Urban Areas, Volume 2, Storm Water Management, published by the Mississippi Department of Environmental Quality (MDEQ) or current version thereof.

9.2.6 Permit Procedures.

9.2.6.1 Responsibilities. The following responsibilities will apply to this ordinance:

a. Site Design and Review Committee. The City of Hattiesburg Site Design and Review Committee shall be responsible for reviewing and approving SWPPPs and BMPs when part of an applicable development.

b. Director of Engineering. The Director of Engineering or his/her designee shall be responsible for review of all Land Disturbance Permits. The Director of Engineering or his/her designee shall also be responsible for monitoring and inspecting construction projects in accordance with this Ordinance. This shall include enforcement of properties found non-compliant with this ordinance. The Engineering Department will coordinate with the Department of Urban Development on enforcement issues.

c. Building Official. The Building Official, acting as a representative of the Urban Development Department, or his/her designee shall be responsible for receiving and issuing land disturbance permits, subject to approval. Other responsibilities may include monitoring and inspecting, as required of properties with approved Land Disturbance Permits.

9.2.6.2 Application. Applications for a Land Disturbance Permit may be obtained at the City of Hattiesburg's Building Office in the Department of Urban Development and shall be returned to this office when the application is completed.

9.2.6.3 Review. The Land Disturbance Permit application will be reviewed by the Director of Engineering or his/her designee in accordance with all the requirements of this Ordinance. If required, the Director of Engineering or his/her designee shall submit his recommendation for the application to the Site Design and Review Committee for review.

9.2.6.4 Permit Issuance. Upon approval by the Director of Engineering and the Site Design and Review Committee, if required, the City of Hattiesburg's Building Office in the Department of Urban Development shall issue a Land Disturbance Permit to the applicant.

9.2.6.5 Inspection. The City of Hattiesburg Engineering Department will inspect all projects issued a Land Disturbance Permit upon initial installation of all erosion and sedimentation control devices. The Engineering Department will also conduct random inspections

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throughout the construction of the project to ensure proper maintenance of BMPs is occurring and the requirements of this ordinance are being met.

9.2.6.6 Enforcement. The City of Hattiesburg Engineering Department will provide enforcement of the Stormwater Ordinance in coordination with the Department of Urban Development.

9.2.7 Stormwater Pollution Prevention Plan (SWPPP). A SWPPP shall be developed and implemented by the owner or operator of Small and Large Construction General permit projects or as requested by the City Engineer. The Stormwater Pollution Prevention Plan (SWPPP) shall at a minimum, be in accordance with the standards set forth in the "MS Storm Water Pollution Prevention Plan (SWPPP) Guidance Manual for Construction Activities" or MDEQ equivalent. The planning and design manual can be obtained from the Mississippi Department of Environmental Quality, Jackson, Mississippi.

9.2.7.1 The SWPPP must include a description of the appropriate control measures (i.e., BMPs) that will be implemented as part of the construction activity to control pollutants in stormwater discharges.

a. The SWPPP shall be retained at the permitted site or locally available. A copy of the SWPPP and all inspections reports must be made available to the City of Hattiesburg and/or MDEQ inspectors for review at the time of an on-site inspection.

b. BMPs shall be in place upon commencement of construction.

c. The Director of Engineering or their designated representative may notify the owner or operator at any time that the SWPPP does not meet the minimum requirements of this permit. After notification, the owner or operator shall amend the SWPPP, implement the changes and certify in writing to the Director of Engineering that the requested changes shall be made within 5 business days.

d. The owner or operator shall amend the SWPPP and implement the changes before there is a change in land disturbance, construction, operation, or maintenance, which may potentially affect the discharge of pollutants to State waters.

9.2.7.2 The owner or operator shall amend the SWPPP and implement the changes if the SWPPP proves to be ineffective in controlling stormwater pollutants including, but not limited to, significant sediment leaving the site and non-functioning BMPs.

9.2.8 Inspections.

9.2.8.1 Right of Entry for Inspections.

a. When any new drainage control facility is installed on private property, or when any new connection is made between private property and a public drainage control system, sanitary sewer or combined sewer, the property owner shall grant to the city the right to enter the property at reasonable times and in a reasonable manner for the purpose of inspection. This includes the right to enter a property whenever there is a reasonable basis to believe that a violation of this Ordinance is occurring or has occurred, and to enter when necessary for abatement of a public nuisance or corrections of a violation of this Ordinance.

b. All drainage facilities located on private property, whether dedicated to the city or not, shall be accessible at all times for inspection by the city.

9.2.8.2 City Inspections. The Director of the Engineering Department or his/her designated representative shall coordinate all inspections required by this ordinance and shall notify the permittee wherein the work fails to comply with this ordinance or their approved Storm Water Pollution Prevention Plan.

9.2.8.3 Plans bearing the stamp of approval of the Site Design and Review Committee shall be maintained at the project site and made available for periodic inspection by the City of Hattiesburg and/or MDEQ during the progress of the work.

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9.2.8.4 To obtain inspections, the permittee shall notify the Director of Engineering after installation of sediment and erosion measures and at least two days prior to any land disturbance activities.

9.2.8.5 Permittee Inspection Requirements.

a. The permittee or his/her representative shall make regular weekly inspections of all control measures in accordance with the inspection schedule outlined on the approved Storm Water Pollution Prevention Plan. The purpose of such inspections will be to determine the overall effectiveness of the control plan and the need for additional control measures. All inspections shall be documented in written form.

b. Inspection of all erosion controls and other SWPPP requirements shall be performed by the permittee or his/her representative during land disturbing activities. Inspections shall be performed as follows.

1. At least once a week.

2. Within 24 hours of the end of a storm event of a half-inch or greater.

3. As often as is necessary to ensure that appropriate erosion and sediment controls have been properly constructed and maintained and determine if additional or alternative control measures are required.

4. All inspections associated with a Small Construction or Large Construction General Permit must be documented and certified, as required by the permit.

5. Documentation must include the day and time the inspection was performed, who performed the inspection, any deficiencies noted, and corrective action needed. Documentation of all inspections must be kept with the SWPPP. Inspections must continue until such time that planned construction activities have been completed, land disturbing activities have ceased and disturbed areas have been stabilized with no significant erosion occurring.

9.3 Floodplain Management.

The City of Hattiesburg Floodplain Management Ordinance adopted as Chapter 10 of the City's Code of Ordinances, as amended, shall be a part of this Land Development Code as fully as if set forth herein in its entirety. All regulations within that ordinance shall apply to any lands for which a Floodplain Overlay District has been established.

9.4 Riparian Buffers and Bank Stabilization.

9.4.1 Riparian Buffer Required. A minimum 25 foot undisturbed vegetated buffer is required along all perennial streams and around all other water bodies including wetlands. A minimum 10 foot undisturbed vegetated buffer is required along all intermittent streams.

9.4.1.1 Exceptions. Ephemeral streams, ditches, and manmade ponds and lakes located outside of natural drainageways shall not be subject to the provisions of this subsection.

9.4.2 Measurement. The buffer shall be measured landward from the top of bank of streams, the mean high water line of all ponds and lakes, and the upland edge of wetlands.

9.4.3 Permitted Uses and Activities. The following uses and activities shall be permitted by right in all riparian buffers subject to any other conditions required by this Code.

9.4.3.1 Natural or pervious footpaths no more than four feet in width providing a homeowner direct access to the stream or water body.

9.4.3.2 Passive recreational and educational uses that require limited areas of disturbance and minimal impervious surfaces including non-motorized recreational and greenway trails constructed of natural or pervious surfaces located no closer than 25 feet from the stream or water body within existing or planned public or private easements, approved as part of a site specific development

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plan.

9.4.3.3 Buffer planting that does not require grubbing or grading of more than 100 square feet or the removal of natural cover for more than 48 hours.

9.4.3.4 Streambank stabilization including live staking and other natural planting techniques to control erosion.

9.4.3.5 Maintenance of plant materials as needed, including pruning, trimming and removal of dead or dying plant materials, including underbrush, invasive plant management, and removal of hazardous trees where owners' property or adjacent properties, or the health and safety of the general public or employees are in danger of damage or where slope stabilization could be negatively affected where otherwise consistent with the requirements of this Code.

9.4.3.6 Maintenance, operation and reconstruction of existing roads, streets, railroad lines, utilities and associated structures undertaken pursuant to best management practices, provided activities shall not increase the impervious area by more than two hundred square feet and disturbed areas are restored to an acceptable usable condition as required by the City Engineer.

9.4.3.7 Normal maintenance, repair and reconstruction of private or publicly-owned structures undertaken pursuant to City Engineer approved best management practices; provided, that reconstruction of any structures shall not significantly impact the performance of buffers, and shall not increase structural footprint.

9.4.3.8 Site investigation work and studies necessary to prepare land use applications, including soils tests, water quality studies, wildlife studies and similar tests and investigations; provided, that any disturbance of the buffer shall be the minimum necessary to carry out the work or studies.

9.4.3.9 Education activities, scientific research, and outdoor recreational activities, including but not limited to, interpretive field trips, bird watching and hiking and associated interpretive signage that will not have a significant effect on the buffer.

9.4.3.10 Emergency activities that are required due to acts of nature or emergency utility repairs that are necessary to prevent an immediate threat to public health, safety or property.

9.4.4 Prohibited Uses and Activities. Any use or activity not expressly permitted by 9.4.3 shall be prohibited.

9.4.5 Protection During Development and Construction. Existing vegetation in riparian buffers shall be protected during all development and construction activities unless expressly permitted by the City for removal. Buffers shall be effectively demarcated in the field to prevent accidental disturbance. The drip line of trees within the buffer shall be protected even when they lie outside the minimum buffer and shall be included in the demarcated area. The method of demarcation shall be approved by the City Arborist and must at minimum be consistent with generally accepted best management practices.

9.4.6 Discharge. No stormwater shall be directly discharged into a jurisdictional wetland without onsite pretreatment.

9.4.7 Use of Natural Streambank and Shoreline Stabilization Required. Unless otherwise approved by the City Engineer, only natural streambank and shoreline stabilization may be used along any perennial stream or water body. Natural stabilization includes bioengineering techniques such as live staking, root wads, tree revetments and the limited, strategic use of large rocks. Loose gravel, sand, rip rap, wire mesh and similar materials not commonly used in bioengineering shall not be used.

9.5 Wetlands

9.5.1 Purpose. The purpose of these regulations is to protect public health, safety and general welfare by protecting the integrity of jurisdictional wetlands. Wetlands perform important biological and physical functions such as helping to maintain water quality, storing and conveying

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stormwater and floodwater, recharging groundwater, and providing important wildlife habitat.

9.5.2 Activities Limited. The following activities shall not be permitted within or adjacent to any wetland unless otherwise approved as part of a Land Development or Floodplain Permit.

9.5.2.1 Removing, excavating, disturbing or dredging soil, sand, gravel, minerals, organic matter or materials of any kind.

9.5.2.2 Dumping, discharging or filling any material.

9.5.2.3 Draining, flooding or disturbing the water level or water table.

9.5.2.4 Alteration, construction, reconstruction, or demolition of any structure or infrastructure, including driving pilings or placing obstructions.

9.5.2.5 Destroying or altering wetland vegetation through clearing, harvesting, shading or planting vegetation that would alter the wetland or buffer character; provided, that these activities are not part of a permitted siviculture use.

9.5.2.6 Activities that result in significant changes in water temperature, physical or chemical characteristics of the wetland or buffer, including water quantity and quality, soil flow, or natural contours.

9.5.2.7 Any other activity potentially affecting a wetland or wetland buffer not otherwise exempt from this Code.

9.5.3 Activities Exempted. The following activities are exempt from the requirements of this section.

9.5.3.1 Work such as mowing, maintenance, cleaning, excavation, or repair/replacement of flow control structures of artificially created wetlands intentionally created from non-wetland sites, including but not limited to grass-lined swales, irrigation and drainage ditches, detention facilities, and landscaping features. In those cases where stormwater control structures or devices were previously permitted in regulated wetlands, the only exempt activity shall be allowed and it shall be limited to the minimum necessary to maintain the outlet or inlet structure. If the wetland requires additional work to maintain storage capacity as envisioned per the original permit approval, a report shall be prepared by a qualified wetland specialist that analyzes the extent, type, and function of wetland to determine the extent of the regulated or exempt activity.

9.5.3.2 Work in wetlands unintentionally created as a result of road, street, or highway construction.

9.5.3.3 Maintenance, operation and reconstruction of existing roads, streets, railroad lines, utilities and associated structures undertaken pursuant to best management practices, provided activities shall not increase the impervious area by more than two hundred square feet and disturbed areas are restored to an acceptable usable condition as required by the City Engineer.

9.5.3.4 Normal maintenance, repair and reconstruction of private or publicly-owned structures undertaken pursuant to City Engineer approved best management practices; provided, that reconstruction of any structures shall not impact more than 1,000 square feet of wetlands, including their associated buffers, and shall not increase the structural footprint.

9.5.3.5 Site investigation work and studies necessary to prepare land use applications, including soils tests, water quality studies, wildlife studies and similar tests and investigations; provided, that any disturbance of the wetland shall be the minimum necessary to carry out the work or studies.

9.5.3.6 Education activities, scientific research, and outdoor recreational activities, including but not limited to, interpretive field trips, bird watching and hiking and associated interpretive signage that will not have a significant effect on the wetland.

9.5.3.7 Emergency activities that are required due to acts of nature or emergency utility repairs that are necessary to prevent an immediate

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threat to public health, safety or property.

9.5.3.8 Minor activities such as invasive plant management; snagging of dead, dying, or diseased vegetation; and removal of hazardous trees where owners' property or adjacent properties, or the health and safety of the general public or employees are in danger of damage or where slope stabilization could be negatively affected that are determined by the City to have minimal impacts to wetlands and wetland buffers.

9.5.3.9 Construction of new utility facilities or improvements to existing utility facilities that take place within existing improved right-of-way or existing impervious surface that does not increase the amount of impervious surface, or the use of trenchless technology that would not disturb the wetland or wetland buffer such as boring, tunneling or jacking under a wetland.

9.6 Grading and Clearing.

9.6.1 Permit. No lot shall be graded or disturbed prior to issuance of a Land Development Permit.

9.6.2 Area Limited. Clearing and grading shall be limited to that portion of a lot or development tract for which a valid building permit has been issued or for which a preliminary plat has been approved.

9.6.3 Stabilization Required. All lots or tracts cleared or graded shall be stabilized with manmade or vegetative cover as required by the landscaping provisions of this Code.

9.6.4 Activities Exempted. Any activities related to commercial tree harvesting, bona fide agricultural operations, and the creation or extension of public infrastructure or other activities occurring within a public right-of-way for which a Land Development Permit is not required shall not be subject to the grading and clearing regulations, but shall meet any and all other applicable regulations contained within this Code.

9.7 Green Development, Infill and Gray-field Development

9.7.1 Purpose. The City encourages the creation of green development, infill development and grayfield development and establishes incentives for such in order to:

- Promote energy independence
- Conserve natural resources
- Encourage clean energy
- Improve environmental quality
- Maximize public investment and minimize public cost
- Reduce sprawl and greenfield development

9.7.2 Definitions. As used in this Section, green development shall mean any one or a number of sustainable land development or building construction practices certified by the US Green Building Council or comparable organization approved by the City. Infill development shall mean the location of new development on parcels, whether or not previously developed, that are surrounded on two or more sides by existing development or development-related infrastructure. Grayfield development is a particular type of infill development that occurs on previously developed parcels that are underused, obsolete, or in a state of disrepair or decline.

9.7.3 Applications and Review. Developers, homeowners and contractors may apply for one or more of the following incentives. The Director shall review each application and shall determine whether or not the project is eligible for these incentives. Applications shall be submitted prior to construction.

9.7.4 Incentives Available. The following incentives shall be available for eligible projects as noted.

9.7.4.1 Density Bonus. All eligible residential developments shall be granted a density bonus equal to 130% of the maximum dwelling units per acre permitted in the zoning district in which they are located. All eligible non-residential and mixed use buildings shall be granted a density bonus equal to 130% of the maximum floor area ratio permitted in

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the zoning district in which they are located. In no case shall such bonuses permit the building or development to encroach upon any required buffer or open space; however, minimum setbacks may be reduced by up to 20% to accommodate the increased density.

9.7.4.2 Fee Waiver. All fees related to land development approval shall be waived for all eligible development.

9.7.4.3 Tax Abatement. Abatement of any taxes as specified by City policy for any green, development, infill, or grayfield development located within an adopted Central Business District or Redevelopment Area.

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SECTION 10. SIGNS

10.1 Purpose.

10.1.1 The purpose of sign control in the City of Hattiesburg is to:

- Provide for identification, information and advertisement in an orderly manner
- Protect the public health, safety and welfare of the City
- Improve the visual quality of gateways and corridors and protect the integrity of adjacent neighborhoods
- Implement the City of Hattiesburg Comprehensive Plan

The following signage rules facilitate improvements in the visual quality of Hattiesburg's streetscapes through the establishment of standards related to the type, size, location, illumination and design of signs.

Table 10.1 Allowed Sign Types

Type and Definition	Category	Illustrative Examples
Ground Sign – A sign suspended or supported by one or more uprights or braces anchored in the ground with no more than 30 inches clearance from the bottom of the sign to the ground below.	On-premises freestanding sign	
Pole Sign – As sign that is mounted on a freestanding pole or other support so that the bottom edge of the face is six feet or more above grade.	On-premises freestanding sign	
Neighborhood Entrance Sign - A sign located at the entrance to the subdivision for the purpose of a permanent identification of the subdivision.	On-premises freestanding sign	
Wall Sign - A sign fastened to or painted on the wall of a building or structure in such a manner that the wall becomes the supporting structure for, or forms the background surface of the sign and which does not project more than teninches from such building or structure.	On-premises attached sign	
Projecting Sign - A sign that is wholly or partly dependent upon a building for support and which projects at an angle away from the building.	On-premises attached sign	
Marquee Sign - A permanent structure attached to the front of a building which incorporates a large message center. Typically illuminated and often ornate in design, a marquee sign projects over the entrance of the building and provides a canopy over at least a portion of the sidewalk or street.	On-premises attached sign	

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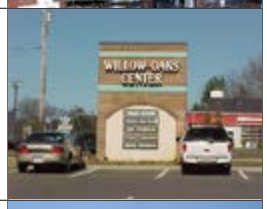
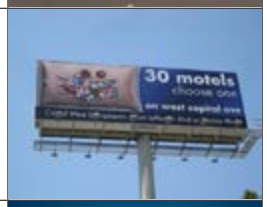
Canopy Sign - Awnings and canopies are roof-like covers that project from the wall of a building or are freestanding for the purpose of shielding from the elements. Canopies may also be freestanding, such as a covering over a service station island. Canopy does not include marquee signs.	On-premises attached sign	
Shopping Center and Multi-Tenant Sign – A freestanding sign that provides space for major tenants in a multi-tenant location, including shopping centers to advertise their business.	On-premises freestanding sign	
Billboard Sign– A sign which directs attention to a business, product, service or entertainment conducted, sold, or offered as a location other than on the premises on which the sign is located.	Off-premises freestanding sign	
Billboard Sign, Digital - An off-premise sign capable of displaying static electronic images, graphic or pictures, with or without textual information that can be changed by remote or automatic means.	Off-premises freestanding sign	

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10.2 Sign Permit Required.

Except for certain exempt permanent and temporary signs as explicitly noted in this Section, no sign may be constructed, installed, erected, moved, enlarged, illuminated, substantially altered or otherwise established including the changing of a sign face without first having been issued a City of Hattiesburg Sign Permit demonstrating that such activity conforms to the provisions of this ordinance.

10.3 Sign Types Established.

10.3.1 Table 10.1 establishes, sets forth and illustrates the allowed sign types in the standard districts in the City of Hattiesburg.

10.4 Temporary Signs, including Banners, Requiring Permit

10.4.1 A single sign advertising special events provided that such sign shall be displayed not more than 45 days in a calendar year, is not larger than 32 square feet and is mounted on an associated building. Such signs, including banners, shall be securely mounted flat against the building, shall be made of durable all-weather material, and shall not contain any advertising for products or services not directly related to the purpose of the event.

10.5 Certain Permanent and Temporary Signs Exempt.

10.5.1 The following signs are exempt from regulation under this section:

10.5.1.1 Signs Customarily Associated with Residential Use. Signs not exceeding two (2) square feet in area that are not of a commercial nature, such as:

- Address signs not larger than one square foot
- Mail box signs
- Signs posted on private property relating to private parking or warning the public against trespassing or danger from animals

10.5.1.2 Signs Associated with Public Bodies, Public and Private Universities and Schools. Such signs include:

- Signs erected by or on behalf of or pursuant to the authorization of a governmental body, including legal notices, identification and informational signs, and traffic, directional, or regulatory signs
- Official signs of a noncommercial nature erected by public utilities
- Flags, pennants, or insignia of any governmental or nonprofit organization when not displayed in connection with a commercial promotion or as an advertising device

10.5.1.3 Signs Designating Historic Resources provided such signs have been approved by the Hattiesburg Historic Conservation Commission.

10.5.1.4 Integral decorative or architectural features of buildings or works of art, so long as such features or works do not contain letters, trademarks, moving parts, or lights.

10.5.1.5 Signs directing and guiding traffic on private property that do not exceed four square feet each, and that do not exceed three feet in height, bear no advertising message, and are limited to one per driveway. Such signs may include a corporate logo or icon.

10.5.1.6 Signs painted on or otherwise permanently attached to currently licensed motor vehicles that are not primarily used as signs, not parked adjacent to the street and are street legal with the sign affixed.

10.5.1.7 Real estate signs containing the message that the real estate on which the sign is located (including buildings) is for sale, lease, or rent, together with information identifying the owner or agent provided that such signs do not exceed four square feet in area and are removed immediately after sale, lease, or rental. For lots of less than two acres, a single sign on each street frontage may be erected. An exception to this regulation is that lots of two acres or more in area and having a street frontage in excess of 400 feet may have one sign not exceeding 32 square feet in area erected per street frontage.

10.5.1.8 Window signs provided not more than 20% of a window area is covered, whether interior or exterior.

10.5.1.9 Temporary displays, including lighting, erected in connection with the observance of holidays that are removed within 30 days following the holidays.

10.5.1.10 Political signs erected in connection with elections or political campaigns. Such signs shall be placed no more than 60 days before the election and be removed within three days following the election or conclusion of the campaign. No such sign may exceed 16 square feet in surface area and is prohibited on public rights-of-way.

10.5.1.11 Construction signs associated with land development or building construction provided such signs are no larger than 32 square feet in size and do not exceed eight feet in height and number not more than two per project. Such signs shall be displayed no sooner than 60 days prior to the commencement of construction and shall be removed within 10 days of completing construction.

10.5.1.12 Carport, garage and yard sale signs not exceeding four square feet in size or four feet in height placed not more than three days in advance of the sale and removed within one day of the completion of the sale.

10.5.1.13 Public and semi-public signs advertising public and semi-public affairs such as civic, school, charitable and other non-profit events and affairs provided that such signs do not exceed 32 square feet in size, are posted not more than 14 days prior to the event, and are removed within three days after the event's conclusion.

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10.6 Signs Standards By Zoning District.

Table 10.6-1 sets forth the list of permitted signs by zoning district.

Table 10.6 - 1 Permitted Signs By Zoning District

■= Permitted ×= Not Permitted		Zone													
		Agricultural		Residential					Business					Industrial	
		A-1	A-2	R-1A	R-1B	R-1C	R-2	R-3	B-1	B-2	B-3	B-4	B-5	I-1	I-2
Sign Type	On Premises Freestanding Sign														
	Ground*	×	×	■	■	■	■	■	■	■	■	×	■	■	■
	Pole	×	×	×	×	×	×	×	×	×	■	×	■	■	■
	Subdivision or Multi-family Sign	■	■	■	■	■	■	■	×	×	×	×	×	×	×
	On Premises Building Sign														
	Wall	×	×	■	■	■	■	■	■	■	■	■	■	■	■
	Projecting	×	×	×	×	×	×	×	×	×	×	■	×	×	×
	Marquee	×	×	×	×	×	×	×	×	×	■	■	■	×	×
	Canopy (door or window)	×	×	×	×	×	×	×	■	■	■	■	■	×	×
	Off Premises Freestanding Sign														
	Billboards	×	×	×	×	×	×	×	×	×	×	×	■	■	■
	Billboards, Digital	See Section 10.12													
	Off Premises Building Sign - Off Premises Building Signs are Not Permitted														
	Wall	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Projecting	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Roof	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Marquee	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Canopy	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Notes	* Ground signs in residential districts are limited to non-residential uses. See Section 10.8.2.5 for electronic message boards as a conditional use in the R-1A district.														

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Table 10.6 - 2 Dimensional Requirements By Sign Type					
Sign Type	Sign Height/Width (max)	Sign Message Area (max) (sq. ft.)	Setback (min.)		Additional Criteria
			Front	Side	
On Premises Signs Freestanding					
Ground Sign	8'/8'	32	5'	15'	1 per lot/2 on corner lot (1 per street) with 150' min. frontage
Pole Sign	35'/16'	For B-3 – 1' sign size/ 1' frontage up to 200'	10'	15'	1 per 500' of parcel frontage/2 on corner lot (1 per street) with 150' min. frontage; maximum width 16'
		B-5, I-1, I-2 - 2' sign size /1' frontage up to 400'			
Subdivision or Multi-family Sign	6'/8'	32	5'	2'	2 per entrance
On Premises Signs Building					
Wall Sign	Wall signs shall not extend above roof line	For B-2 - 1' sign area/1' front facade width – 100'	n/a	n/a	2 per structure
		For B-4 - 1' sign area/1' front facade width up to 150'	n/a	n/a	3 per structure
		For B-3, B-5, I-1, I-2 - maximum of 15% of the single wall 350' max or for canopy 5% not to exceed 50'	n/a	n/a	3 per structure
Projecting Sign	8' min above sidewalk	5% of Façade Area/ 45 square feet for 2 stories	n/a	n/a	1/ May not project into public ROW, except sidewalks, or impede traffic
Marquee	10' min above sidewalk	200	n/a	n/a	No higher than roof line of 2nd story
Canopy	10' min above sidewalk	10	n/a	n/a	Under or on the face of the canopy only
Off Premises Free Standing (Billboards)					
Billboard Signs - B5, I-1 and I-2 Only	10' (min)/35' (max) Height 40' width	400	25' (Front and Rear)	15'	1 per lot, 1000' from any other off premises sign, maximum of 2 faces, and not within 100' of A or R zones
Billboards, Digital	See Section 10.12				

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10.7 Method of Measurement

10.7.1 The message area of a sign shall be the entire width within a single, continuous perimeter enclosing the outer dimensions of the actual message or copy area including decorative trim, customary extensions or embellishments, any structural elements outside the limits of such display surface.

10.7.2 If the sign consists of more than one section or module, all of the area, including that between sections or modules, shall be included in the computation of the sign area.

10.7.3 With respect to two-sided, multi-sided, or three-dimensional signs, the sign message area shall be computed by including the total of all sides designed to attract attention or communicate information that can be seen at any one time by a person from one vantage point. Without otherwise limiting the generality of the foregoing the sign message area of a double-faced, back to back sign shall be calculated by using the area of only one side of such sign, so long as the distance between the backs of such signs does not exceed five (5) feet.

10.8 Sign Design

10.8.1 Design of Ground Signs. Ground signs shall have a minimum of 18 inches and maximum of 30 inches separation between the ground and the sign face. This separation may consist of a solid base of masonry material or consist of landscaping.

10.8.2 Illumination. The City of Hattiesburg recognizes that for signs to be fully effective, illumination may be preferred in certain development contexts and but should be restricted in other contexts generally related to proximity to residential areas, development intensity and specific planning goals for particular areas. Accordingly, illumination of signs shall conform to the following criteria:

10.8.2.1 All external sign illumination shall shield point sources of light from any public right-of-way or adjacent residential uses.

10.8.2.2 Signs within 150 feet of any residential zone district may not be illuminated between the hours of 11 p.m. and 6 a.m., unless the impact of such lighting beyond the boundaries of the lot where it is located is entirely inconsequential.

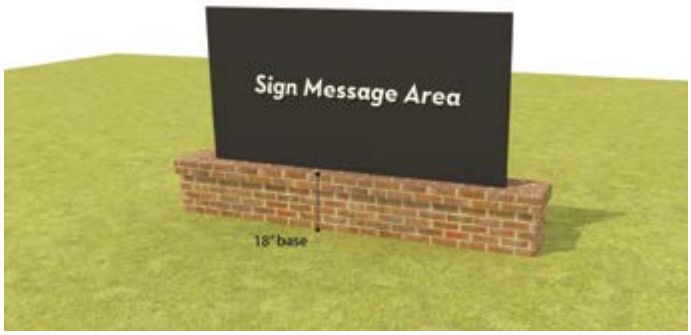
10.8.2.3 Internally illuminated signs are not permitted in any Agricultural or Residential district.

10.8.2.4 Illuminated strings of lights that outline property lines, sales areas, roof lines, doors, windows, or similar area are prohibited.

10.8.2.5 No sign may contain or be illuminated with flashing or intermittent lights or lights of changing degrees of intensity except electronic message boards or historic signs under the following conditions and restrictions:

i. The restoration or operation of historic signs within a local historic conservation district or a district listed in the National Register of Historic Places.

ii. Electronic message board lighting may be provided by right in the B-3 and B-5



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Districts or in the R-1A District as a conditional use as follows:

iii. Flashing, blinking, animated or scrolling messages are prohibited.

iv. Messages shall post for a minimum time of 30 seconds and the minimum elapsed times between messages shall be 3 seconds;

v. Messages consisting of time or alphabetic or numeric characters on a background that may not include any video or moving images;

vi. The use of red lights is discouraged in electronic message board signs;

vii. An electronic message is considered accessory to a larger static sign. The electronic message portion of such sign shall constitute no more than 40% of sign area of a freestanding sign and shall be limited to one such sign per lot.

viii. Electronic message boards shall be separated from the nearest lot line of any residential use by a minimum 200 feet.

10.8.3 Measuring Sign Height. For directions on how to measure sign height, please refer to Section 6.7.5 of this Code.

10.9 Prohibited Signs

The following signs are prohibited in Hattiesburg in all zoning districts.

10.9.1 Any sign not expressly permitted by this Section.

10.9.2 Any sign that it interferes with the sight triangle (clear view area) necessary for motorists to proceed safely through intersections or to enter onto or exit from public streets, private roads or driveways.

10.9.3 Banners, streamers, animated displays, moving signs that rotate, flutter or use similar moment, pennants, and propellers are prohibited unless expressly permitted in Section 10.4.

10.9.4 Any sign that by its location, color, size, shape, nature, or message would tend to obstruct the view of or be confused with official traffic signs or other signs erected by governmental agencies.

10.9.5 Any sign which bears or contains statements, words or pictures of an obscene, pornographic, or which contains advertising matter that is untruthful.

10.9.6 Signs which emit audible sound, odor or visible matter.

10.9.7 Any sign or advertising material written on or affixed upon any tree, bush, shrubbery, utility pole, traffic sign, hydrant, fence or street marker.

10.9.8 Any sign placed on, in, or over any public property, including public right-of-way, without the written consent of the public authority having jurisdiction over the property. Such signs shall be subject to forfeit without notice.

10.9.9 Signs painted on or otherwise permanently attached to motor vehicles or trailers and conspicuously and routinely parked adjacent to or near a street are prohibited and shall be parked or stored as remotely as possible from public streets.

10.9.10 Signs installed over a drive aisle.

10.9.11 Tri-vision signs.

10.10 General Sign Standards Applying to All Zones.

10.10.1 Free standing signs shall be securely fastened to the ground or to some other substantial supportive structure so that there is virtually no danger that either the sign or the supportive structure may be moved by the wind or other forces of nature and cause injury to persons or property. The sign shall be designed to be removable at the sign structure base or foundation. The free standing sign shall meet the adopted building code specifications for wind load and design.

10.10.2 Building mounted signs shall be securely fastened to the building structure so that there is no danger that either the sign or the support

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structure may be moved by the wind or other forces of nature and cause injury to persons or property. These signs shall be designed to be removable. The building mounted signs shall meet the adopted building code specifications for wind load.

10.10.3 Billboard signs shall be in a separate lease area with a clear zone radius where parking, storage and other uses are prohibited. The lease area must be landscaped. No part of the billboard sign can overhang the boundaries of the lease area.

10.11 Maintenance of Signs.

10.11.1 All signs and all components thereof, including supports, braces, and anchors, shall be maintained in finished condition.

10.11.2 If a sign advertises a business, service, commodity, accommodation, attraction, or other enterprise or activity that is no longer operating or being offered or conducted, that sign shall be considered abandoned and shall, within 90 days after such abandonment, be removed by the sign owner, owner of the property where the sign is located, or other party having control over such sign.

10.11.3 If the message portion of a sign is removed, leaving only the supporting "shell" of a sign or the supporting braces, anchors, or similar components, the owner of the sign or the owner of the property where the sign is located or other person having control over such sign shall, within ninety days of the removal of the message portion of the sign, either replace the entire message portion of the sign or remove the remaining components of the sign.

10.11.4 The immediate area around a freestanding sign shall be kept clear of all debris and maintained by the landowner, or by the sign owner as agent of the landowner, in an attractive manner so as not to create visual blight.

10.11.5 The Director of Urban Development may cause to be removed any sign if on which the advertising message becomes illegible in whole or in part.

10.12 Unlawful Cutting of Trees or Shrubs.

10.12.1 No person may, for the purpose of increasing or enhancing the visibility of any sign, damage, trim, destroy, or remove any trees, shrubs, or other vegetation located:

10.12.1.1 Within the right-of-way of any public street or road, unless the work is done pursuant to the express written authorization of the City or other agency having jurisdiction over the streets; or

10.12.1.2 In any area where such trees or shrubs are required to remain by City Code.

10.13 Digital Billboards

10.13.1 General Provisions: The use of digital technology is allowed for billboards, subject to the following limitations, restrictions and perm its which are in addition to and intended to supplement all other applicable requirements. Digital billboards shall only be allowed along certain business corridors within the city, namely Regional and Community as defined below. Corridors are considered to be groups of commercial properties that are identified by the street or highway along which they are located. Corridors are also identified by transportation elements, land use, building mass, building form, pedestrian ways and streetscape.

10.13.2 Permit Review: A Permit approved by the City Council after review by the Hattiesburg Planning Commission and Site Design and Review Committee is required for all new Digital Billboards or replacement static billboards, including billboard supports and/or faces.

10.13.3 Digital Billboard-New: Shall be limited to B-5, Regional Business District, I-1 and I-2 Industrial Districts located within the Regional and Community Business Corridors as defined in this section.

10.13.4 Primary Structure: A new digital billboard will be considered as a primary structure and will require a legal description of the property whether leased or purchased, and no other uses shall co-exist on the same property as the pri-

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mary structure. The site is to be grassed and landscaped as approved by the Site Design and Review Committee. New structures shall be designed to complement the surrounding businesses and/or residential properties.

10.13.5 Accessory Structure: A new digital billboard will be considered as an accessory structure when constructed on a site that is occupied with a primary structure(s) which may include parking areas, buildings, and similar uses except for other off-premise or on-premise free standing signs. The area immediately adjacent to the billboard shall be landscaped as approved by the Site Design and Review Committee. This landscaped area shall extend ten (10) feet from the face(s) of the billboard. If a billboard has only one face (single sided), the landscaped area shall extend ten (10) feet from the rear or back of the sign. This landscaped area should extend ten (10) from the outer most edges (street edge and opposite edge) of the sign. The intent of this regulation is to provide a landscaped area around the entire perimeter of the proposed digital billboard. Flexibility for this buffer area may be provided and permitted by the Site Design and Review Committee if the total required area is not reduced and landscaped area extends beyond the perimeter of the sign to the greatest extent possible. No parking shall be allowed in the required landscaped area. If the landscaped area is adjacent to a parking area, concrete curbing shall be provided along all edges of the perimeter that abut parking areas or lanes. Variances shall not be allowed for a reduction in parking spaces for the placement of a new digital billboard as an accessory structure.

10.13.6 Replacing a Static Billboard with a Digital Billboard:

a. Billboard replacement, of all or any part thereof, shall require the removal of two additional static billboard structures. A building permit for the removal of three static billboards and installation of one digital billboard (location of sites as approved under the Use Permit Upon Review) for the conversion of an existing static billboard structure to a digital bill board structure. Confirmation of the removal of the required number of existing static bill board structures shall be on file with the Land Development Code Administrator prior to the issuance of a permit to convert an existing static billboard structure to a digital billboard structure.

b. After an existing billboard structure, digital or static, has been removed of the Land Development Code, no other billboard structure, digital or static, shall be placed on that parcel for a minimum of 24 months.

c. The applicant shall provide an inventory of their outdoor advertising sign locations with in the city. A company that converts an existing static billboard to a digital billboard must provide, with each permit application, a complete current inventory of is billboards located within the corporate limits of the city of Hattiesburg. The inventory shall include per structure: location (longitude/latitude), size, number of faces and type of illumination.

d. No person shall convert an existing static billboard structure to a digital billboard structure, without first obtaining a sign permit as required by this section.

e. Digital billboards shall be the same size or smaller than the static billboard being replaced, but shall not exceed the dimensions contained herein whichever is smaller.

f. A digital billboard replacing a non-conforming static billboard may be exempt from the Land Development Code, tables 10.12-1 and 10.12-2, if approved by the City Council after review by the Hattiesburg Planning Commission and Site Plan Review Committee.

g. Movement: The image will change instantaneously as seen by the human eye, and shall not use blinking, fading, rolling, shading, dissolving, or similar effects as part of the change.

h. Light levels: All digital billboards shall be equipped with light sensing devices or a scheduled dimming timer that will automatically dim the intensity of the light emitted by the sign during ambient low-light conditions and at night so that the sign does not exceed the maxi mum brightness levels allowed in this section.

i. Maximum brightness shall not exceed 465 lu-

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mens when measured from the sign's face at its maximum brightness during daylight hours and shall not exceed 46 lumens when measured from the sign's face at its maximum brightness at night.

j. If such sign is located within 100 feet of a property with residential zoning, the sign must be oriented such that no portion of the electronic sign face is visible from a residentially-zoned property or the brightness is reduced to no more than 23 lumens at night.

k. Prior to the issuance of a permit for such sign, the applicant shall provide written certification from the sign manufacturer that the light intensity has been factory preset not to exceed the levels specified above.

l. Malfunctions: Any malfunction shall be repaired or disconnected with in 48 hours by the owner or operator of such billboard.

m. Prohibited Locations: Digital billboard signs are prohibited in any designated local historic districts, or along Veteran's Memorial Blvd. and Classic Drive.

10.13.7 Corridor Designations:

10.13.7.1 Regional Business Corridors: The Regional Business District is primarily a non-residential district located along major arterial streets and highways. The land uses i n this district may generate a higher volume of regional traffic and/or require frequent access by large trucks and commercial vehicles. The characteristics of this district include the following: suburban-style commercial centers and bigbox buildings; high-density residential developments such as apartment complexes; large, private parking areas; and light industrial campuses and employment centers.

a. U.S. Highway 49: From Northern city limit southward to intersection with Old Highway 42;

b. U.S. Highway 49: From intersection at Edwards Street and Elk's Lake Road south to southern city limit.

c. Old Highway 42: From intersection at U.S. High way 49 to Main Street.

d. U.S. Highway 98: From Western city limit eastward to intersection with I-59

e. U.S. Highway 98: From Eastern city limit westward to intersection with I- 59;

f. Interstate 59

10.13.8 Community Business Corridors: The Community Business District is primarily a non-residential corridor surrounded by single and multi-family residential districts located along the city's interior road ways. In this district, certain residential and non- residential land uses may be found that exhibit suburban development patterns, as well as development patterns that complement the residential, pedestrian-oriented character of surrounding neighborhoods. The characteristics of this district include less-intensive commercial uses than are found in the Regional Business District.

a. U.S. Highway 49: From intersection at Old Highway 42 southward to intersection with Edwards Street.

b. Old Highway 42: From intersection at Main Street eastward to city limit.

c. Broadway Drive: From intersection at West Pine Street southwesterly to intersect ion with U.S. Highway 49.

d. Hardy Street: From intersection at Interstate 59 eastward to intersection with U.S. Highway 49.

e. Bouie Street: From intersection at Old Highway 42 south to intersection with East 4th Street.

f. James Street (north): From the intersection at Edwards Street south to intersection with J. M. Tatum Industrial Drive.

g. WSF Tatum Boulevard: From U .S. Highway 11 to U .S. Highway 49.

h. Old Highway 11 from US Highway 98 to the city limits.

i. Old Hwy 11: From intersection at Hwy 98 south to the City limits.

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Table 10.12 - 2 Area and Setback Regulations Chart: Billboard-Replacement		
1. Area and Setback regulations	**Regional Business Corridors**	**Community Business Corridors**
2. Use Permit Required	Yes	Yes
3. Primary Structure	Does not apply	Does not apply
4. Spacing between Digital Billboards	Minimum 1000 lineal feet measured radially	Minimum 2500 lineal feet measured radially
5. Spacing between Digital Billboards and Static Billboards	Minimum 1000 lineal feet measured radially	Minimum 1250 lineal feet measured radially
6. Distance from residentially zoned districts	Does not apply	Does not apply
7. Face Area	Maximum 400 Square feet	Maximum 230 square feet
8. Face Width	Maximum 40 feet	Maximum 23 feet
9. Face Height	Maximum 10 feet	Maximum 10 feet
10. Structure Height	Maximum 35 feet	Maximum 35 feet
11. Clearance above ground	Minimum 10 feet	Minimum 10 feet
12. Front Setback	Does not apply	Does not apply
13. Side Setback	Does not apply	Does not apply
14. Rear Setback	Does not apply	Does not apply
15. Static Display time for east message	Minimum 8 seconds	Minimum 8 seconds
16. Off time for each message change	Maximum 2 seconds	Maximum 2 seconds

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SECTION 11. ADMINISTRATION AND ENFORCEMENT

11.1 Purpose.

City entities responsible for the administration of the Land Development Code, in whole or in part, include the Mayor, City Council, Planning Commission, Board of Adjustment, Historic Conservation Commission, Site and Design Review Committee, Director of Urban Development and the City Engineer. The purpose of this section is to set forth their respective responsibilities and duties.

11.2 City Council.

The City Council shall have certain duties and responsibilities related to this Land Development Code including, but not necessarily limited to, the following:

11.2.1 Ratify membership of the Planning Commission and Board of Adjustment appointed by the Mayor.

11.2.2 Decide, adopt and amend the Hattiesburg Comprehensive Plan, special area plans, corridor plans, neighborhood plans, the Land Development Code, and any other plans and policies effecting growth and development of the City.

11.2.3 Designate historic districts and landmarks.

11.2.4 Establish all fees associated with development applications required by this Code.

11.2.5 Hear and decide requests for annexations and changes to the corporate limits.

11.2.6 Hear and decide requests for changes to the Official Zoning Map.

11.2.7 Hear and decide requests for preliminary plats for major subdivisions.

11.2.8 Hear and decide recommendations of, or appeals from, the decisions of the Planning Commission, Board of Adjustment, and Historic Conservation Commission.

11.2.9 Decide all requests for site and building design approval for properties located within a PMU district.

11.2.10 Decide requests for rights-of-way, street and utility acceptance.

11.3 Planning Commission.

The Planning Commission shall have certain duties and responsibilities related to this Land Development Code including, but not necessarily limited to, the following:

11.3.1 Hear and make recommendations to the City Council regarding the adoption or amendment of the Hattiesburg Comprehensive Plan, special area plans, corridor plans, neighborhood plans, the Land Development Code, the Official Zoning Map, and any other plans and policies impacting growth and development of the City.

11.3.2 Hear and make recommendations to the City Council all requests for preliminary plats for major subdivisions.

11.4 Board of Adjustment.

The Board of Adjustment shall have certain duties and responsibilities related to this Land Development Code including, but not necessarily limited to, the following. At its discretion, the city council may decide to delegate either or both of these duties and responsibilities to another board.

11.4.1 Hear and recommend requests for variances to the requirements of this Code.

11.4.2 Hear and decide requests for appeal to interpretations of this Code made by the Director.

11.5 Historic Conservation Commission.

The Historic Conservation Commission shall decide all requests for site and building design approval for properties located in a designated historic district.

11.6 Site and Design Review Committee.

11.6.1 The Site and Design Review Committee shall have certain duties and responsibilities related to this Land Development Code including, but not necessarily limited to, the following.

11.6.2 Review and make recommendations for prelimi-

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nary plats for minor subdivisions.

11.6.3 Decide requests for preliminary and final plats of major subdivisions.

11.6.4 Decide requests for final plats for all subdivisions.

11.6.5 Decide requests for uses permitted with conditions.

11.6.6 Hear and decide appeals to decisions of the Director regarding site and building design for properties located outside a designated historic district.

11.6.7 Review and make recommendations to the Planning Commission on requests for changes to the Official Zoning Map and requests for preliminary plats for major subdivisions.

11.6.8 Review and make recommendations to the Board of Adjustment on findings for requests for variances and appeals.

11.6.9 Review and decide any staff-approved site plans as requested by the Director.

11.6.10 Review and decide any requests for administrative waivers.

11.7 Director of the Department of Urban Development.

The Director shall have certain duties and responsibilities related to this Land Development Code including but not limited to, the following:

11.7.1 Decide all requests for site and building design approval for properties located outside a designated historic district or PMU district.

11.7.2 Decide all requests for interpretation of the intent or meaning of provisions of this Code.

11.7.3 Decide all requests for interpretation of zoning district boundaries in certain instances where:

11.7.3.1 Zoning district boundaries divide a single lot.

11.7.3.2 Actual street layouts differ from street layouts on the Official Zoning Map and street layouts reflect zoning district boundaries.

11.7.4 Administer the functions required by the Land Development Code which include but are not limited to:

11.7.4.1 Serve as staff to the City Council, Planning Commission and Board of Adjustment, coordinating the placement of land use items on agendas, providing information regarding any agenda items brought before them as required by this Code, and providing a professional recommendation as noted in this section.

11.7.4.2 Serve as Chair of the Site and Design Review Committee, establish meeting agendas and protocol, and forward committee recommendations to the decision making body as described in the code.

11.7.4.3 Establish submittal requirements, review procedures and application forms for all development applications in the Land Development Code.

11.7.4.4 Ensure all public notice requirements are met as required by this Code.

11.7.4.5 Make recommendations on changes to the schedule of fees related to all development applications.

11.7.4.6 Maintain the Official Zoning Map and record on the Map all amendments to the Land Development Code that change zoning district boundaries.

11.7.4.7 Conduct inspections of buildings, structures and use of land to determine compliance with the Code.

11.7.4.8 Enforce the rules and regulations of the Code.

11.7.4.9 Issue Certificates of Zoning Compliance (CZC) certifying the proposed use of land or a new or altered structure is in compliance with the provisions of the Land Development Code within 2 days of such request. A Temporary CZC may be issued when a structure has met the requirements of the applicable building code but elements of an approved site plan have not yet been completed. A certified letter stating a completion date of all remaining site plan requirements shall be

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submitted by the builder or developer and accepted by the Director. Items remaining to be completed shall, in general, be limited to landscaping and security posted with the City guaranteeing compliance within the stated completion date.

11.7.4.10 Create and make available any applications and other forms necessary for applications required by this Code

11.7.4.11 Maintain records and maps of nonconforming uses, structures and lots.

11.7.4.12 Maintain a map of existing land uses in the City.

11.7.4.13 Perform any other ministerial review and approval required to ensure compliance with this Code.

11.7.5 Develop public information materials regarding the content, purpose and procedures of the Land Development Code.

11.8 City Engineer.

The City Engineer shall have certain duties and responsibilities related to this Land Development Code including, but not necessarily limited to, the following:

11.8.1 To review, recommend and approve proposals of development infrastructure specified in this code.

11.8.2 To review, recommend and approve proposals for development under the environmental standards set forth in Section 9, Environmental Standards.

11.8.3 To review, recommend and approve any other development matter set forth in the Land Development code in which duties and responsibilities are assigned to the City Engineer.

11.9 Fees.

The City Council shall establish a schedule of fees and a collection procedure covering the processing of applications, notices, and enforcement actions necessary to implement this Code. No action will be taken on any development application until applicable fees are paid.

11.10 Enforcement.

11.10.1 Remedies. In case any building or structure is erected, constructed, reconstructed, altered, repaired, converted or maintained or any building, structure, land subdivision/ platting, land re-subdivision or re-platting, or land is used in violation of this Code, the City, in addition to other remedies, may institute any appropriate action or proceedings under City Ordinance and/or State Law to prevent such unlawful erection, construction, reconstruction, alteration, repair, conversion, maintenance or use to restrain, correct, or abate such violation, to prevent occupancy of said building, structure or land, or to prevent any illegal act, conduct, business, or use in or about such premises. Specific remedies include the following as well as any other remedies permitted under Mississippi State Law.

11.10.1.1 Specific Remedies. Specific remedies for the violation of any provision of this Code include the following:

11.10.1.2 Permit Revocation. The Director may revoke any zoning permit issued by staff after written notification to the permit holder when violations of this Code have occurred, when false statements or misrepresentations were made in securing the permit, work is being or has been done in substantial departure from the approved application or plan, or a permit has been mistakenly issued in violation of this Code.

11.10.1.3 Stop Work Orders. Whenever a building, structure or part thereof is being constructed, demolished, renovated, altered, or repaired in substantial violation of any applicable provision of this ordinance, the Director may order the specific part of the work that is in violation, or would be when the work is completed, to be immediately stopped. The stop work order shall be in writing, directed to the person doing the work, and shall state the specific work to be stopped, the specific reasons for cessation and the action(s) necessary to lawfully resume work.

11.10.1.4 Criminal Penalties. Any person violating any provision of this Code shall upon convic-

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tion be guilty of a misdemeanor and shall be fined $500, or an amount as otherwise determined by the court, for each offense.

11.10.1.5 Injunction. When a violation occurs, the Director may, either before or after the institution of other authorized action, apply to the appropriate division of court for a mandatory or prohibitory injunction commanding the defendant to correct the unlawful condition or cease the unlawful use of the property.

11.10.1.6 Order of Abatement. In addition to an injunction, the Director may apply for and the court may enter into an order of abatement as part of the judgment in the case. An order of abatement may direct any or all of the following actions:

i. Buildings or other structures on the property be closed, demolished, or removed.

ii. Fixtures, furniture or other moveable property be moved or removed entirely.

iii. Improvements, alterations, modifications or repairs be made or removed.

iv. Any other action be taken that is necessary to bring the property into compliance with this Code.

11.10.1.7 Withholding Approvals. Any violation of this Code shall constitute grounds for withholding new building permits directly related to the violation until the violation has been corrected, including the payment of all fines and fees and the planting of all trees and vegetation required as mitigation.

11.10.1.8 Subdivision Violations. The owner of a subdivision shall not transfer title to any lot in such subdivision until such time as the final plat has been approved by the appropriate authority as outlined in this Code and duly recorded in the office of the Chancery Clerk of Forrest County or Lamar County, Mississippi. Transfers prior to such approval and recording shall be deemed a violation of this Code and shall be subject to any and all remedies available to the City.

11.10.1.9 Recording Violations. The Chancery Clerks of Forrest County and Lamar County, Mississippi shall not receive, file or record a plat of a subdivision within the jurisdiction of this Land Development Code without prior approval of the appropriate authority as outlined in this Code. Plats recorded prior to such approval shall be deemed unlawful and invalid.

11.10.1.10 Continuing Violations. If a violation is repeated within a two year period from the date of the initial violation, it shall be considered to be a continuation of the initial violation and shall be subject to additional penalties and remedies. A repeat violation is one which is identical to or reasonably similar to a previous violation for which a warning citation or civil citation has been issued by the City.

11.10.2 Enforcement Actions. The following procedures shall be used related to enforcement actions:

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Table 11-10 Table of Enforcement Actions		
Steps	WHAT (Action)	WHO - WHERE
Step 1:	A. Discovery of alleged violation	A. Public B. Other City Staff or Officials
Step 2:	A. Verification of violation B. Prepare recommendation or decision C. Action or clearance of alleged violation	A. Support Staff B. Director of Urban Development
Step 3:	A. Issue citation for violation/ designated time 1. Verbally/sticker 2. Certified mail	A. Support Staff B. Director of Urban Development
Step 4:	A. Reinspection B. (Optional) 1. Refer to appropriate board/ commission for confirmation when special conditions apply 2. Action or clearance of alleged violations	A. Support Staff B. Director of Urban Development C. Appropriate Board/Commission
Step 5:	A. Sign affidavit	A. Concerned Citizen B. Director of Urban Development C. Support Staff
Step 6:	A. Pursue decision through the Courts B. Clearance or specific legal penalty	A. City Attorney B. Director of Urban Development C. City Judge

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SECTION 12. PROCESS AND PROCEDURES

12.1 Development Application Required.

No development or redevelopment shall be allowed to proceed unless all approvals applicable to the proposed development are issued in accordance with this section. Development approvals are required for all development, unless otherwise excepted, to ensure compliance with various adopted codes, standards and laws, and to ensure consistency with the Comprehensive Plan and other policies of the City of Hattiesburg.

12.2 Categories of Development Approvals.

There are three basic categories of development approvals required by this Code: legislative development approvals, quasi-judicial development approvals, and administrative development approvals. These include the following specific approvals addressed in this Section:

Approval Category	Approval Type
Legislative Development Approvals	Zoning map and code text amendments Preliminary plat approval for major subdivisions Street closings
Quasi-Judicial Development Approvals	Variances Appeals Uses requiring Planning Commission Approval
Administrative Development Approvals	Minor subdivision approval Final plat approval Uses permitted with conditions Staff approved site plans Administrative waivers Administrative development approvals

12.3 Legislative Development Approvals; Process.

12.3.1 Zoning Map and Code Text Amendments.

12.3.1.1 The Official Zoning Map will only be amended if public and community facilities are adequate to serve the type and scope of land use proposed and at least one of the following conditions is met:

i. Events subsequent have invalidated the original premises and findings upon which the zoning category was established;

ii. The character or condition of the area has changed such that the amendment is consistent with the Hattiesburg Comprehensive Plan. If a proposed amendment does not conform to the City's Comprehensive Plan, the applicant shall be required to offer proof with regard to what major economic, zoning, physical, or social changes, if any, have occurred in the vicinity of the property which were not anticipated by the Comprehensive Plan and have altered the basic character of the area to make the amendment appropriate.

iii. An inadequate supply of suitably designated and sited land is available in the community to accommodate the proposed land use as presented by the applicant.

12.3.1.2 Initiating a Text Amendment. A request for an amendment to the text of this Code may be initiated by the City Council, Planning Commission, staff, a citizen of Hattiesburg upon filing an official application and proof of residency, or an authorized representative.

12.3.1.3 Initiating a Map Amendment. A request for an amendment to the Official Zoning Map may be initiated by the City Council, Planning Commission, staff, the owner of the parcel for which the rezoning is requested upon filing an official application and proof of residency, or an authorized representative of such owner.

12.3.1.4 Application Requirement; Action. Any application for an amendment to the text of the

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Land Development Code or Zoning Map shall address in writing the reason for the proposed amendment. City Council shall consider the request and, if it approves the request, may ask staff to begin drafting the text amendment for consideration, or to amend the Official Zoning Map, whichever action is relevant.

12.3.1.5 Application Forms. Application forms are created and maintained in the office of the Department of Urban Development and must be filled out completely, including any required additional material, and all fees paid prior to any request being scheduled for hearing.

12.3.1.6 Withdrawal or Amendment of an Application. An application may be withdrawn by the applicant at any time up to the scheduling of the date of the public hearing for the request. If the applicant wishes to withdraw the application after the scheduling of the public hearing a request may be filed with the Director and the Director may determine that withdrawal will not be detrimental to the interests of citizens affected by the application. Changes to an application for amendment may only be made if the change causes a request to be more restrictive. Otherwise, no changes to an application may be made after a public hearing is scheduled.

12.3.1.7 An application for a map amendment that has been denied in whole or in part shall not be re-submitted within one year of the date of the City Council's action on the original petition. The City Council may, however, allow re-submission of a petition within the one-year restricted period if it determines that, since the date of action on the prior petition, one of the following criteria has been met:

i. There has been a similar change in the zoning district classification of an adjacent property.

ii. The City Council has adopted a new or amended plan for the area that changes public policy regarding how the property affected by the amendment should be developed.

iii. Construction or expansion of a road, water line, sewer line, or other infrastructure has occurred or is to occur in such a time frame as to serve the property and comfortably accommodate the intensity of development allowed under the proposed classification, if the lack of such infrastructure capacity was the reason for previous denial.

12.3.2 Preliminary Plat Approval for Major Subdivisions.

12.3.2.1 Approval Criteria.

i. Conformance with the Hattiesburg Comprehensive Plan.

ii. Conformance with the standards of the zoning district.

iii. Conformance with other standards and requirements of this Code and other City policies and regulations.

iv. Determination that adequate public facilities and services will be available concurrent with the impacts of the subdivision.

v. Determination that the project will have little or no adverse or negative impacts upon the natural environment.

12.3.2.2 Construction Plans and Specifications.

i. Approval Criteria. Construction Plans shall meet all engineering standards and requirements related to the actual construction of infrastructure and legal identification of building lots.

ii. Decision Maker. The City Engineer shall make the final determination of acceptance of construction plans.

iii. Application and Review Procedures. Submittal form and requirements are

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established by the City Engineer who will be the final authority approving construction plans.

12.3.2.3 As-Built Construction Plans and Specification; Drawings.

i. Approval Criteria. As-built drawings shall depict the actual construction of all required improvements based on an inspection by City staff.

ii. Certification of the as-built drawings by a registered engineer both by stamp on the drawings and by letter to the City Engineer.

iii. Application and Review Procedures. Submittal form and requirements are established by the City Engineer who will be the final authority accepting as-built plans.

12.3.2.4 Final Plat.

i. No Significant Change. Final plats of major subdivisions that are substantially the same as the approved preliminary plat, as determined by the Site and Design Review Committee, shall be approved administratively.

ii. Significant Change. Final plats that exhibit any significant deviation from the approved preliminary plat, as determined by the Site Plan Review Committee, shall require approval by the Planning Commission.

12.3.2.5 Recording. In order to be an official and legal plat, the final approved plat must be recorded along with all applicable covenants, deed restrictions and property owners' association documents with the Chancery Clerk of Forrest or Lamar County, as appropriate. The City Engineer shall ensure that the City records this information in a timely fashion.

12.3.3 Uses Requiring Planning Commission Approval.

12.3.3.1 Compliance Required. Uses requiring Planning Commission approval, as noted in the Table of Uses in Section 5 of this Code, shall be approved subject to this Section. Any application for such use must comply with all applicable standards that apply to similar uses and properties in the zoning district in general, the specific conditions listed for that use in Section 5, and the following criteria. Where conflicts exist, the Planning Commission shall determine which criteria apply on a case by case basis.

12.3.3.2 Additional Approval Criteria. In addition to the standards mentioned above, the applicant for a request for the Planning Commission to approve a use shall be required to demonstrate that his/her proposal addresses the following additional requirements, except that the Planning Commission may waive any one or more criteria that it determines are not applicable based upon the expected impact of the proposal.

i. Determination that adequate public facilities and services will be available concurrent with the impacts of the development as evidenced by letters of sufficiency from utilities and schools and a determination by the city engineer that the available capacity of existing streets can safely provide access to the site.

ii. The proposed development will be compatible with surrounding uses and will protect adjacent properties through the following measures:

- Protection of privacy. The proposed plan shall provide reasonable visual and auditory privacy for all dwelling units located within and adjacent to the site. Fences, walls, barriers and / or vegetation shall be arranged to protect and enhance the property and to enhance the privacy of on-site and neighboring occupants.

- Protection of use and enjoyment. The proposed plan shall be designed and arranged to have minimal negative impact on the use and enjoyment of adjoining property.

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- Compatible design and integration. The use meets all design criteria required by this Code that apply and is designed to integrate well both on and off site.

12.3.3.3 Application and Review Procedures. Applications shall be made on forms created and maintained by the Director.

12.3.4 Approved Site Plans. Whenever a site plan is required for an appeal, the site plan shall be reviewed for conformity with the requirements of this Code and, if approved, shall be binding on the property. The Site and Design Review Committee may approve minor variations to the site plan during construction to accommodate unforeseen onsite issues provided that those variations do not alter the location, character, use, function, capacity or offsite impacts of the project as determined by the Committee. Any significant change in a site plan shall require the applicant to apply for board approval using the same process and procedures required for original approval. Approved site plans are good for a maximum of one year unless a valid building permit exists for construction according to the site plan.

12.3.5 Application Requirements for Legislative Approval.

12.3.5.1 Pre-Application Review.

i. A pre-application review allows the staff to review and discuss a project with an applicant to provide general feedback and ideas. After a pre-application review, a development application may be submitted. If the Director determines there is little value to the applicant or staff for the requirement for a pre-application review, the Director may waive this requirement.

ii. A pre-application review will:

- Help the City understand the project and the applicant's objectives;
- Identify required project approvals and processes;
- Identify submittal requirements including required documents, drawings, special studies, fees and other materials necessary for a complete application, and,
- Identify significant issues including Code related issues and physical constraints.

iii. The Site and Design Review Committee conducts the pre-application review.

12.3.5.2 Application Requirements.

i. During the pre-application review, required submittal materials to begin review of the project will be identified in checklist form including fees.

ii. The Director will determine if an application is complete. If it is not complete, the applicant will be notified and the submittal will be returned.

12.3.5.3 General Approval Criteria. No application will be approved unless all of the following criteria are satisfied.

i. Compliance with the Hattiesburg Comprehensive Plan.

ii. Compliance with this Code.

iii. Conditions of any prior approvals.

iv. The availability of adequate public facilities and utilities concurrent with the development.

v. The receipt of any applicable local, state and federal permits.

12.3.5.4 Procedures.

i. Once the Director determines an application is complete, the Site and Design Review Committee and representatives from City departments and divisions for compliance with City codes and policies will review applications. Upon completion of this review, staff and the Site and Design Review Committee will provide

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comments to the applicant.

ii. Review by other agencies. Copies of completed applications will be forwarded to appropriate agencies outside the City for comments when applicable as determined by the Director.

iii. Department and Agency Comments. All comments will be forwarded to the applicant for response.

iv. Applicant Response.

- Within 60 calendar days of the mailing of the City's review comments on any submittal (or resubmittal), the applicant must resubmit revised documents to address City department and agency comments. If the resubmittal does not occur within this time period, the development application will become null and void.
- The Director may grant two extensions of this resubmittal time period not to exceed a total of 30 days.

v. Review of Response.

- The Site and Design Review Committee and representatives from City departments and divisions will determine if sufficient information has been provided to schedule the application for a hearing. If the application is insufficient, the applicant will be notified. The applicant is allowed additional resubmittals and responses before the application is scheduled for a hearing.
- At any time during the review process, the applicant can request that the application be scheduled for a hearing.

vi. Notice.

- A notice setting forth the date, time, place of the hearing, the name of the applicant, identification of the subject property and proposed City action shall be at least 15 days prior to any public hearing.
- The Director is responsible for providing such notice.
- All notices will be published in an official newspaper recognized by the City.
- The applicant will post a sign provided by the City on each street frontage of the property at least 15 days prior to the date of the hearing. The sign will show the time, date and place of the hearing, the reason for the hearing, the date of the notice and signature of the Director, and a telephone number that can be called for information. The applicant is required to maintain the sign(s) on the subject property until the day after the final public hearing.

vii. Public Hearing and Planning Commission Meeting Procedure.

- The Director will schedule an application for Public Hearing only after it has been determined the application is complete.
- A Public Hearing shall be advertised 15 days prior to the date of the hearing in accordance with state law. At least 7 days prior to a Public Hearing or Planning Commission Meeting, the Director will provide a staff report and recommendation to the public hearing body.
- The staff report will provide a complete description of the application, analysis of the review criteria describing compliance with the Land Development Code, other required regulations and all relevant information associated with the application.
- The Director will provide a recommendation for approval, approval with conditions or denial based on compliance with review criteria from the Land Development Code.
- The staff report will be made available for public review at the Department of Urban Development.

viii. Conditions.

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- Conditions may be imposed on any application to ensure compliance with the Land Development Code and other rules and regulations and to protect the neighborhood. Such conditions shall be reasonable and related to the expected impacts of the development.

ix. Post Decision Making Procedures.

- Any aggrieved person with standing may request a rehearing or file an appeal of any final action.

- The Director or the Site and Design Review Committee may approve corrections and revisions deemed minor to an approved application, in writing, subject to appeal to the decision maker. A minor revision is one necessary in light of technical considerations that does not substantially change the character of the development approval.

- For any minor corrections or revisions, the Director shall give five days notice of such corrections or revisions by posting at the City Clerk's office.

12.3.6 Planned Developments and Master Plans.

12.3.6.1 Planned Developments. Whenever a planned development is proposed submittal requirements include a detailed site plan reviewed by the Site and Design Review Committee and approved by the City Council. If the planned development site plan is for any portion of the site less than the whole, a master plan must be submitted according to the requirements for master plans.

12.3.6.2 Master Plans. Whenever any portion of a large site is proposed for development, a master plan must accompany the detailed site plan. The master plan must indicate phase lines and show the approximate location and size of future public improvements, open space, recreational areas, buffers, and uses for each phase. Each phase of a master plan must be in general conformity with the master plan and is subject to approval by the City Council. Demonstrating conformity with the master plan as well as any and all local, state and federal requirements is the responsibility of the applicant.

12.4 Quasi-Judicial Development Approvals; Process.

12.4.1 Variances. Variances are departures from the standards of the Land Development Code, except land use, which will not be contrary to the public interest and where, owing to conditions peculiar to the property and not as a result of the action of the applicant, a literal enforcement of this Code would result in unnecessary and undue hardship.

12.4.1.1 Approval Criteria. A variance is not a right, but a privilege that property owners meeting the following criteria may request. These criteria are to be used to consider all variance requests. It shall be the burden of the applicant to prove that the request meets these criteria.

i. Hardship.

- The hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant.

- There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.

ii. Special Privilege. A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.

iii. Literal Interpretation. The literal interpretation of the provisions of the regulations would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant.

iv. Reasonable Use. The applicant cannot

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make reasonable use of the property without the requested variance.

v. Minimum Required. The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.

vi. Conformance with the Purposes of this Code. The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

12.4.1.2 Conditions of Approval. In recommending the granting of a variance, the Board of Adjustment may require appropriate conditions and safeguards in conformity with this Code. Violation of such conditions and safeguards, when made a part of the terms under which a variance is granted, shall be deemed a violation of this Code. The recommendation of the Board of Adjustment shall be the City Council for final action.

12.4.1.3 Application and Review Procedures. The application and review of variances to the requirements of this Code shall follow the procedures in Section 12.3.2 of this Code.

12.4.2 Appeals. Appeals may be made from any order, requirement, decision, or determination made by the Director, the Site and Design Review Committee, the Historic Conservation Commission or the Planning Commission pertaining to this Code. An appeal may be taken by any person aggrieved by such order, requirement, decision or determination. An appeal shall be made within 10 days of the order, requirement, decision, or determination. An appeal stays all legal proceedings in furtherance of the action appealed from, unless the officer or board from whom the appeal is taken certifies to the appeals body that by reason of facts stated in the certificate a stay would, in their opinion, cause imminent peril to life and property. Appeals must be made in writing and shall specify the grounds for the appeal. All appeals shall be heard within 60 days of filing. The appeals body may reverse or affirm, in whole or in part, or may modify the order, requirement, decision, or determination that is the subject of the appeal.

12.4.3 Application Requirements for Quasi-Judicial Approvals. Applications for quasi-judicial approval shall meet all requirements set forth for applications for legislative approval

12.4.3.1 Application Requirements.

i. Required submittal materials to initiate the request will be identified in checklist form, including fees, created and maintained in the office of the Director.

ii. The Director will determine if the application is complete. If it is not complete, the applicant will be notified and the submittal will be returned.

12.4.3.2 Procedures.

i. Scheduling. Once the Director determines an application is complete, the hearing will be placed on the next available Board/Commission agenda.

ii. Notice.

- A notice setting forth the date, time, place of the hearing, the name of the applicant, identification of the subject property and proposed City action shall be at least 15 days prior to any public hearing.
- The Director is responsible for providing such notice.
- All notices will be published in an official newspaper recognized by the City.
- The applicant will post a sign provided by the City on each street frontage of the property at least 15 days prior to the date of the hearing. The sign will show the time, date and place of the hearing, the reason for the hearing, the date of the notice and signature of the Director, and a telephone number that can be called for information. The applicant is required to maintain the sign(s) on the subject property until the day after the

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final public hearing.

iii. Staff Report. At least 7 days prior to a hearing , the Director will provide a staff report to the Board and the applicant. The staff report will provide a complete description of the application and relevant facts for consideration by the Board.

iv. Appeals and Rehearings. Any aggrieved person with standing may request a rehearing or file an appeal of any final action. Rehearings shall only be permitted when it can be shown that relevant information was omitted from the previous hearing, or that new information has been discovered that materially changes, or could change, the decision of the Board. A request for a rehearing shall be accompanied by a written explanation and explicit description of such omitted or new information.

12.5 Administrative Development Approvals; Process.

12.5.1 Subdivisions.

12.5.1.1 Minor Subdivision Approval.

i. Approval Criteria.

- Conformance with the Comprehensive Plan.
- Conformance with the standards of the zoning district.
- Conformance with other standards and requirements of this Code and other City policies and regulations that apply.
- Determination that adequate public facilities and services will be available concurrent with the impacts of the subdivision as evidenced by letters of sufficiency from utilities and schools and a determination by the city engineer that the available capacity of existing streets can safely provide access to the site.

ii. Options If Denied. If the application is denied, the applicant may then proceed to make application for consideration as a major subdivision, if the reason for denial was that it does not meet the definition of a minor subdivision, or appeal the decision to City Council.

12.5.1.2 Final Plat Approval For Major Subdivisions.

i. No Significant Change. Final plats of major subdivisions that are substantially the same as the approved preliminary plat, as determined by the Site and Design Review Committee, shall be approved by the Site and Design Review Committee.

ii. Significant Change. Final plats that exhibit any significant deviation from the approved preliminary plat, as determined by the Site and Design Review Committee, shall require approval by the City Council.

12.5.1.3 Recording. In order to be an official and legal plat, final approved plats must be recorded with the Chancery Clerk of Forrest or Lamar County, as appropriate. The Director shall ensure that the City records this information in a timely fashion.

12.5.2 Uses Permitted With Conditions. Uses permitted with conditions, as noted in the Table of Uses in Section 5 of this Code, shall be approved subject to this Section. Any application for a permitted use with conditions must comply with all applicable standards that apply to similar uses and properties in the zoning district in general in addition to the specific conditions listed for that use. Where conflicts exist, the most stringent regulation shall apply.

12.5.3 Staff Approved Site Plans. Whenever a permit request before the Director or Site and Design Review Committee requires a site plan, the site plan shall be reviewed for conformity with the requirements of this Code and, if approved along with the request, shall be binding on the property for that permit. Staff may approve minor variations to the site plan during construc-

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tion to accommodate unforeseen onsite issues provided that those variations do not significantly alter the approved plan. Any significant change in a site plan shall require the applicant to reapply for approval and pay all fees associated with the application process. Approved site plans are good for a maximum of one year unless a valid building permit exists for construction according to the site plan.

12.5.4 Administrative Waivers.

In order to encourage creative design, to avoid undue hardship, to allow minimal variations in approved plans to accommodate unforeseen site conditions, and to expedite the development approval process for projects within the City, a waiver of certain Code requirements may be approved by the Site and Design Review Committee provided the waiver meets the following criteria.

12.5.4.1 Waivers shall be limited to requirements regarding dimensional standards, parking, sign setbacks and landscaping.

12.5.4.2 The waiver is needed to address unique conditions of the property, to preserve significant trees or site features, to connect pedestrian facilities, to protect historic features, or to promote consistency of design that meets the intent of this Code.

12.5.4.3 No waiver may deviate more than 10 percent from any measurable standard of this Code.

12.5.4.4 The waiver granted is the minimal waiver needed to address the site or design issue.

12.5.4.5 The applicant has provided information sufficient to prove the need for and allow the Committee to assess the impacts of the requested waiver.

12.5.4.6 The authority given to the Site and Design Review Committee to grant such waiver shall be construed to be permissive and not mandatory and the Committee may decline to make such waiver. In the event this occurs, the applicant shall have the right to appeal such decision to the Board of Adjustment or to request a variance to any requirement of this Code. The standards and requirements for applying for and granting such variances shall apply to any such request.

12.5.5 Administrative Development Approvals. An administrative approval is any decision on a development approval application rendered by an administrative official, such as the Director or the Site and Design Review Committee that does not require legislative or quasi-judicial discretion, is not subject to a public hearing or public process, and is not otherwise covered by one of the administrative approvals outlined in this subsection. Examples may include code compliance review for building permits and certificates of occupancy as well as other determinations of code compliance. Such applications and notices associated with them shall be on forms created and maintained by the Director.

12.5.6 Application Requirements for Administrative Review and Approval.

12.5.6.1 Pre-Application Review.

i. A pre-application review is required to allow the staff the opportunity to review and discuss the project with the applicant and to provide general feedback and ideas. After a pre-application review, a development application may be submitted. The Director of Urban Development may waive the requirement for a pre-application review if it is determined there is little value to the applicant or staff.

ii. The Site and Design Review Committee shall conduct the pre-application review.

12.5.6.2 Application Requirements.

i. During the pre-application review, required submittal materials and fees to begin review of the project will be identified in checklist form.

ii. The Director will determine if an application is complete. If it is not complete, the applicant will be notified and the submittal will be returned

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12.5.6.3 General Approval Criteria. No application will be approved unless all of the following criteria are satisfied.

i. Compliance with the Comprehensive Plan.

ii. Compliance with this Code.

iii. Conditions of any prior approvals.

iv. The availability of adequate public facilities and utilities concurrent with the development.

v. The receipt of any applicable local, state and federal permits required.

12.5.7 Site Plan Review.

12.5.8 When Required.

Site Plan Review review is required for any of the following actions or whenever, in the opinion of the Director, a review is necessary to determine an applicant's intent to comply with these regulations.

12.5.8.1 Any subdivision, re-subdivision or re-platting of land subject to this Code.

12.5.8.2 All new development, expansions, or redevelopment except single-family detached dwellings.

12.5.8.3 Any change in use that results or will need to result in a physical alteration of the property including but not limited to façade changes, parking, and landscaping.

12.5.8.4 Any hazardous development or use within the I-2, Heavy Industrial zoning district.

12.5.8.5 Any Planned Mixed-Use District.

12.5.8.6 Manufactured Home Parks.

12.5.8.7 Parking lots and garages, new, expanded or redeveloped.

12.5.8.8 Any development or redevelopment in a regulated floodplain or adjacent to an identified wetland, perennial stream, or lake including single-family dwellings.

12.5.8.9 Any development or redevelopment for which a Land Disturbance Permit is required.

12.5.8.10 The existence of a legal nonconformity on a development site.

12.5.9 Approval Criteria.

12.5.9.1 Conformance with the Hattiesburg Comprehensive Plan.

12.5.9.2 Compliance with all other applicable plans and regulations, including this Code, regarding, any site, use and structure requirements including but not limited to:

i. Traffic circulation, ingress and egress, emergency access.

ii. Drainage with particular reference to the impacts of the proposed development on adjacent properties and the consequences of drainage on overall City capacities.

iii. Ownership, use and maintenance of open space and common lands to ensure preservation of such lands for their intended purposes.

iv. Provision of utilities in conformance with requirements of utility providers.

v. Off-street parking and loading areas.

vi. Recreation areas and facilities.

vii. Landscaping, screening and setbacks.

viii. Waste disposal and pollution control standards.

ix. Noise.

12.5.10 Forms. Any forms required for Site Plan Review review shall be created and maintained in the office of the Director.

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12.5 Summary Table—Roles By Approval Type

Approval Type	Staff	Public Body				
	Dept. of Urban Development	Site and Design Review Committee	Historic Conservation Commission	Planning Commission/ Board of Adjustments		City Council
				Planning Com-mission Meeting Only	Public Hearing	
Site and Building Design Outside Historic District	Reviews, Advises, Recommends	Decides		Appeal		Appeal
Site and Building Design In Historic District	Reviews, Advises, Recommends	Decides	Decides			Appeal
Variance	Reviews, Advises, Recommends	Recommends			Recommends	Decides
Conditional Use	Reviews, Advises, Recommends				Recommends	Decides
Rezoning (Text or Map)	Reviews, Advises, Recommends				Recommends	Decides
Preliminary Subdivi-sion, Minor	Reviews, Advises, Recommends	Decides				Appeal
Preliminary Subdivi-sion, Major	Reviews, Advises, Recommends	Recommends		Recom-mends		Decides
Final Subdivision, Without Changes	Decides	Recommends				
Final Subdivision, With Changes	Reviews, Advises, Recommends	Recommends		Recom-mends		Decides

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SECTION 13. DEFINITIONS

13.1 Rules of Construction; Interpretation.

To help interpret and apply this Code, the following rules shall apply:

- The particular controls the general.
- The words "shall" or "must" are always mandatory and not permissive. The words "may" and "should" are permissive not mandatory and are at the discretion of the decision-makers.
- Words used in the present tense include the future tense; words used in the future tense include the present tense.
- Words in the singular include the plural; words used in the plural include the singular.
- Words of one gender include the other gender, unless the context clearly indicates otherwise.
- Unless otherwise indicated, the term "days" means days the City is open for business.
- In computing any period of time prescribed or allowed by this Code, the day of the notice or final application, after which the designated period of time begins to run, is not to be included. Further, the last day is to be included unless it is not a working day, in which event the period runs until the next working day.
- The word "structure" includes the words "building" and "accessory structure."
- The word "street" includes the words "road" and "highway."
- The word "person" includes an individual, firm, association, organization, partnership, corporation, company, trust, governmental unit, and any combination thereof.
- The words "Land Development Code," "Code," and "LDC" shall mean the Official Land Development Code of the City of Hattiesburg.
- The words "zoning map" or "Official Zoning Map" shall mean the Official Zoning Map of the City of Hattiesburg.
- Use of words like "City Council," "Planning Commission," "Director," "Administrator," "Urban Forester" and "Engineer" indicates City of Hattiesburg officials and staff as well as their designees.
- The word "city" capitalized or not means the City of Hattiesburg, MS.
- The word "Director" shall mean the City of Hattiesburg Director of Urban Development or their designee.
- The words "ordinance" or "this ordinance" mean the Land Development Code unless otherwise specified or implied in the context of the reference.
- Within the LDC, sections prefaced "purpose and findings" are intended as official statements of legislative finding or purpose. These "purpose and findings" statements are legislatively adopted, together with the formal text of the LDC. They are intended as a guide to the administration and interpretation of the LDC and shall be treated in the same manner as other aspects of legislative history; however, they are not binding standards.
- Any term not herein defined shall be as defined elsewhere in the Municipal Code or, if not defined there, shall have their customary dictionary meaning.

13.2 Definitions.

Unless otherwise defined within the text of this Code, the following definitions shall be used for interpretation. Words and terms used but not defined within this Code shall have their customary dictionary meaning.

Abandoned Vehicle or Junked Vehicle: Any vehicle which is without current license tag and/or which is (a) wrecked, (b) dismantled, (c) partially dismantled, or (d) inoperative. Storage shall mean being on or occupying the premises for 30 days or more.

Abandoned Personal Property or Junk: Any scrap, waste, reclaimable material or debris, whether or not stored or used in conjunction with dismantling,

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processing, salvage, storage, baling, disposal or other use or disposition.

Abandonment: Unless otherwise defined within the context of the regulation, this word shall mean the discontinuance of nonconformity voluntarily for a period of 12 months with an intent to abandon, or the commission of an overt act of substantial discontinuance for a period of 12 months with or without voluntary intent.

Abut or Abutting: Having property lines in common.

Accessory Structure: Any structure on the same lot with and customarily incidental and secondary to the main structure or use, including structures such as liquid petroleum gas storage tanks and ice vending machines.

Accessory Use: A use of land or building or portion thereof customarily incidental and subordinate to the principal use of the land or building and located on the same lot with such principal use.

Addition: A completely new structure or new component to an existing structure.

Adjacent: Two properties, lots, or parcels are "adjacent" where they abut, or where they are separated by a roadway or street, right-of-way, or railroad line, or any stream, river, canal, lake or other body of water.

Administration, Director of /City Clerk: That person designated by the Mayor and ratified by the City Council who is responsible for the activities and functions of the Department of Administration, or their designated representative.

Adult Arcade: An establishment where, for any form of consideration, one or more motion picture projectors, slide projectors, or similar machines, for viewing by five or fewer persons are used to show films, motion pictures, video cassettes, slides or other photographic reproductions which are characterized by emphasis upon the depiction or description of "specified sexual activities" or specified anatomical areas."

Adult Bookstore: An establishment which has a substantial portion of its stock-in-trade and offers for sale for any form of consideration, any one or more of the following:

- Books, magazines, periodicals or other printed matter or photographs, films, motion pictures, video cassettes, slides or other visual representations which are characterized by an emphasis upon the depiction or description of "specified sexual activities" or "specified anatomical areas," or
- Instruments, devices or paraphernalia which are designed for use in connection with "specified sexual activities."

Adult Cabaret: A nightclub, bar, restaurant, theater, or similar establishment which regularly features live performances which are characterized by the exposure of "specified anatomical areas" or by "specified sexual activities," or films, motion pictures, video cassettes, slides or other photographic reproductions which are characterized by an emphasis upon the depiction or description of "specified sexual activities" or "specified anatomical areas."

Adult Entertainment Establishment: An adult arcade, adult bookstore, adult cabaret, adult motel, adult motion picture theater, or similar establishment which regularly features or depicts behavior which is characterized by the exposure of "specified anatomical areas," or where any employee, operator or owner exposes his/her "specified anatomical area" for viewing by patrons.

Adult Motel: means a motel, hotel, or similar commercial establishment which:

- Offers accommodations to the public for any form of consideration; provides patrons with closed-circuit television transmissions, films, motion pictures, video cassettes, other photographic reproductions, or live performances which are characterized by the display of "specified sexual activities" or "specified anatomical areas"; and which advertises the availability of such material by means of a sign visible from the public right-of-way, or by means of any on or off-premises advertising, including but not limited to, newspapers, magazines, pamphlets or leaflets, radio or television; and
- Offers a sleeping room for rent for a period of

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time that is less than ten hours; or

- Allows a tenant or occupant of a sleeping room to subrent the room for a period of time that is less than ten hours.

Adult Motion Picture Theater: An establishment where, for any form of consideration, films, motion pictures, video cassettes, slides or similar photographic reproductions are shown, and in which a substantial portion of the total presentation time is devoted to the showing of material which is characterized by an emphasis upon the depiction or description of "specified sexual activities" or "specified anatomical areas."

Adverse Effect/Impact: A negative change in the quality of the historical, architectural, archaeological, environmental or cultural significance of a resource, or in the characteristics that qualify the resource as historically, architecturally, archaeologically, environmentally or culturally important.

Affordable Housing: Housing that is affordable to very low-income, low-income, or moderate-income persons as defined by the Department of Housing and Urban Development regulation for Hattiesburg, and is maintained for occupancy exclusively for such very low income, low-income, or moderate-income person or persons for a period of at least 30 years, through the use of a covenant or deed restriction, by a development agreement, or by transferring an interest to a state or municipal housing agency or nonprofit housing organization.

Agriculture: The raising or growing of crops, fowl, or livestock, provided such use does not constitute a nuisance or health hazard. Also, sale of agricultural products grown on the premises.

Alcoholic Beverage: Any alcoholic liquid capable of being consumed as a beverage by a human being, but shall not include wine containing not more than five percent of alcohol by weight and shall not include beer containing not more than eight percent alcohol by weight.

Alley: A public or private right-of-way primarily designed to serve as secondary access to the side or rear of those properties whose principal frontage is on some other street.

Alteration, Building or Site: Any change or rearrangement in the supporting members (such as bearing walls, beams, columns, or girders) of a building, any addition to a building or movement of a building from one location to another, and any change in the physical properties of a site.

Americans with Disabilities Act: 42 U.S.C. Subsection 1281 et seq., Pub. L. 101-336 and implementing regulations at 28 C.F.R. parts 35 and 36, as amended.

Amusement facilities, fairgrounds and stadiums: Permanent or temporary establishments engaged in providing amusement or entertainment for a fee or admission charge and include such activities as dance halls; studios; theatrical producers; bands, orchestras, and other musical entertainment; bowling alleys and billiard and pool establishments; commercial sports such as arenas, auto racetracks, public golf courses and coin-operated devices; amusement parks, membership sports, and recreation clubs; amusement and bathing beaches; swimming pools, riding academies, carnival operations, expositions, game parlors, circuses, bingo parlors and horse shows. These operations may be of either a permanent or temporary nature.

Antenna: a rod, wire, dish, array or similar device used to transmit or receive cellular, radio and other wireless signals.

Apartment House or Multi-Family Dwelling: A building designed or used to contain more than two dwelling units not including hotels, motels, or life care communities.

Appurtenance: Any accessory or ancillary building, object, structure, fence, street furniture, fixture, vending machine, fountain, public artwork, or bicycle rack located on the grounds of an historic landmark, in an historic district, on public property, or in the public right-of-way.

Assembly: Structures and land designed for 50 or more people to congregate for civic, social, religious, or recreational functions. This definition includes but is not limited to theaters, arenas, coliseums, and worship centers.

Automobile-Junk Area or Automobile Graveyard: An area used for the dismantling or wrecking of

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used automobiles or the storage, sale or dumping of dismantled, partially dismantled, inoperative, or wrecked automobiles or their parts.

Automobile Maintenance

Automobile Repair

Auto Wrecking: The collecting, dismantling or wrecking of used motor vehicles, wheeled or track laying equipment, or trailers; or the storage, sale or dumping of dismantled, partially dismantled, obsolete or inoperative or wrecked motor vehicles, wheeled or track laying equipment or trailers or their parts. The dismantling and rebuilding, other than repair, of more than one motor vehicle, piece of wheeled or track laying equipment, or trailer at a time, even though not for profit or a principal use of a parcel of land, shall be defined as auto wrecking. The storage of a partially dismantled motor vehicle, piece of wheeled or track laying equipment or trailer shall be considered auto wrecking.

Bar: An establishment licensed to sell alcoholic beverages to be consumed on the premises.

Base Flood: The flood having a 1 percent chance of being equaled or exceeded in any given year (also called "100-year frequency flood").

Base Flood Elevation: The elevation for which there is a 1 percent chance in a given year that flood levels will equal or exceed it.

Basement: Any area of the building having its floor subgrade (below ground level) on all sides

Bed and Breakfast: A residential establishment wherein units are rented to transient guests on an overnight basis, and wherein breakfast is the only meal served to these guests.

Bed and Breakfast Home: A bed and breakfast facility operated by a resident owner that contains a maximum of five bedrooms for rent.

Bed and Breakfast Inn: A bed and breakfast facility operated by a resident owner or resident manager that contains six or more bedrooms for rent.

Best Management Practices: An effective integration of stormwater management systems, with appropriate combinations of landscape conservation, enhancement, structural controls, impervious cover, schedules of activities, prohibitions of practices, maintenance procedures, and other management practices that provide an optimum way to convey, store, and release run-off, in order to reduce peak discharge, remove pollutants, and enhance the environment.

Bicycle Lane: A designated portion of a street pavement for the exclusive use of bicycles. Bicycle signs and pavement markings designate the presence and limits of a bicycle lane.

Bike Path: A designated paved travelway intended for bicycle use, to the exclusion of routine motor vehicle use. Typically used by two-way bicycle traffic.

Billboard, Digital: An off-premise sign capable of displaying static electronic images, graphic or pictures, with or without textual information that can be changed by remote or automatic means.

Billboard-Digital New Primary Structure: New construction of a digital billboard as a primary structure on an undeveloped site

Billboard-Digital New Accessory Structure: New construction of a digital billboard as an accessory structure on a developed site.

Billboard-Replacement: Converting an existing static billboard to a digital billboard. This means changing static faces to digital faces only; or completely removing the existing static billboard (supports and faces) and constructing new supports and faces in the exact location of the "removed/replaced" static billboard.

Block: A tract of land bounded by streets, or by a combination of streets and public parks, cemeteries, railroad rights-of- way, shorelines of waterways, or boundary lines of local governments.

Boarding House: Any dwelling unit other than a hotel where for compensation and by prearrangement for definite periods, meals or lodging and meals are provided for not more than three patrons.

Buffer Area/Strip: An area with sufficient planting and/or screening which acts as a separation area between two or more incompatible uses and/or districts.

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Buildable Area: That portion of a lot remaining after required yards have been provided. See district diagram.

Buildable Width: Width of the building site left after the required yards have been provided.

Building: Any structure used or intended for supporting or sheltering any use or occupancy.

Building Code: The current Building Code promulgated by the International Code Council and adopted by the City.

Building Elevation: The view of any building or other structure from any one of four sides showing features, such as construction materials, design, height, dimensions, windows, doors, other architectural features, and the relationship of grade to floor level.

Building Height: The vertical dimension measured from the average elevation of the finished lot grade at the front of the building to the highest point of the ceiling of the top story in the case of a flat roof; to the deck line of a mansard roof; and to the average height between the plate and ridge of a gable, hip, or gambrel roof.

Building Official: The official designated by the Director and charged with the responsibility of enforcing the Building Code and issuing building permits.

Building, Main: A building in which is conducted the principal use of the lot on which it is situated.

Building Permit: An official document or certificate issued by the Building Official authorizing performance of a specified activity.

Building Setback Line: The distance required by this Code to be maintained between a given lot line, easement or right-of-way line and any structure foundation: front, rear, or side, as specified.

Building Site: A single parcel of land or any portion of such that is occupied or intended to be occupied by a building or structure, and appropriate accessory building or uses.

Camp/Lodge (Fish, Deer, Hunting): An area of land used for temporary occupancy and owned, rented or leased by the owner including and limited to cabins, camper trailers, boats and accessory structures or uses, but excluding manufactured homes.

Canopy: Any structural protective cover that is not enclosed on any of its four sides and is provided for a service area designated for the dispensing or installation of gasoline, oil, antifreeze, headlights, wiper blades, and similar products.

Care Center: Any home, center, agency or place, however styled, where children or adults not related to the operator are received for custodial care, apart from their parents or guardians, whether for compensation, reward, or otherwise during part or all of the day or night and upon any number of successive days or nights. Includes the terms "child daycare and adult daycare.

Care Center, Home: A care center enrolling up to four persons located in the primary residence of the care giver. A Home Care Center is a home occupation. (Amended by Ord. 2434, Sec. 1, 11/17/92)

Care Center Facility: A care center enrolling five or more persons. Excluded from this definition is any facility operating as a kindergarten, nursery school or Head Start in conjunction with an elementary and/or secondary school system, whether it be public, private or parochial, whose primary purpose is a structured school readiness program. Also excluded is any medical facility.

Cemetery, Animal: A tract of private land divided into plots for interment of the animal dead in compliance with applicable State statutes and City ordinances.

Cemetery, Human: A tract of land, private or public, divided into plots for interment of the human dead in compliance with applicable State statutes and City ordinances.

Certificate of Zoning Compliance: A permit issued by the Director indicating that the use of the building or land in question is in conformity with this Code, is a use permitted by right or a use permitted with conditions, or is a legal nonconforming use, or that there has been a legal variance granted, as provided by the Code. This is a check and balance system on the zoning procedure. It means that an inspection has indicated that the

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use is being carried on at the time of occupancy and the condition of the structure or lot at the time of occupation meets all the requirements and legitimately can continue. No structure or lot shall be occupied until a certificate of zoning compliance has been issued when such is required in the Land Development Code.

Certified Sanitary Sewer: A public sewage disposal system of a type approved by the Mississippi Air and Water Pollution Control Commission, or individual sewage disposal systems of a type approved by State.

Clinic, Dental, or Medical: A building in which physicians and/or dentists and their allied professional assistants carry on their profession. This term shall not include inpatient care or operating rooms for major surgery.

Clinic, Veterinary: A building in which veterinarians and their allied professional assistants carry on their profession.

Club: A group of people organized for a common purpose to pursue common goals, interests, or activities. Usually characterized by certain membership qualifications, payment of fees and dues, regular meetings, a constitution, and by-laws.

Clubhouse: A building and related facilities used by a club, fraternal organization, or a membership organization. See assembly.

Cluster Development: A development design technique that concentrates buildings in specific areas on the site to allow the remaining land to be used for recreation, common open space, or preservation of environmentally sensitive features.

Common Area: A parcel or parcels of land, or an area of water, or a combination of land and water, and/or developed facilities and complimentary structures and improvements, including, but not limited to, areas for vehicular and pedestrian access and recreational facilities within the site.

Complete Message: A complete message contains all the necessary components to understand the message in its entirety; it is not necessary for the reader to await additional information to understand the meaning of the message or to receive additional the information related to the message.

Comprehensive Plan and Planning Process: The officially adopted plan and comprehensive planning process that contains the elements that provide long range development policies for the City of Hattiesburg and the area subject to urbanization in and around the city.

Conforming Use: Any lawful use of a building or lot which complies with the provisions of this Code.

Contiguous: Lots are contiguous when at least one boundary line of one lot touches a boundary line or lines of another lot.

Courtyard: A space, open and unobstructed to the sky, located at or above grade level on a lot, and bounded on three or more sides by the walls of a building.

Crosswalk: That part of a street at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the street (public, private, or safety lane) measured from the curbs, in the absence of curbs from the edges of the traversable roadway; any portion of a street (public, private, or safety lane) at an intersection or elsewhere distinctly indicated for pedestrian crossing by lines or other markings on the street surfaces.

Curb Market: A curbside location at which Mississippi produce is sold to the end consumer including any product of the soil (e.g. fruit, vegetables, herbs, etc.) or animals (e.g. meats, hides, etc.).

Day Care Center: A place which provides shelter and personal care for six or more children.

Demolition: Any act or process that destroys or razes in whole or in part, or permanently impairs the structural integrity, or allows deterioration by neglect of a building or structure, wherever located, or a building, object, site, or structure, including interior spaces, located within an historic district, on public property, or on the public right-of-way.

Density: The intensity of the use of land observing all yard, height and lot coverage provisions of this Code.

Developed: A site that contains manmade structures including but not limited to buildings, parking lots and signs.

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Developer: Any person engaging in developing or improving a lot or group of lots or placing structures thereon for use or occupancy.

Development: Any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or a drilling operation.

Development Plan: A proposal for development approval, including such drawings, documents, and other information necessary to illustrate completely the proposed development.

Diameter at Breast Height (DBH): The measurement of the width of the trunk of the tree at four and one-half feet above the existing grade. For multi-trunk trees the DBH shall be the sum of the diameter of the trunks.

District: Any zoning district established by this Code.

Drainage System, Storm: The facility to carry off large amounts of water produced from rain and which meets or exceeds the requirements to control stormwater runoff for the minimum 25 year flood level.

Dwelling: One or more rooms providing complete living facilities for one family, including kitchen facilities or equipment for cooking or provisions for same, and including a room or multiple rooms for living, sleeping, bathing, and eating. Also known as a "dwelling unit."

Dwelling, Attached: A one-family dwelling attached to two or more one-family dwellings by common walls.

Dwelling, Detached: A one-family dwelling which is not attached to any other dwelling by any means.

Dwelling, Manufactured (Mobile) Home: A factory-built single-family structure that is manufactured under the authority of 42 U.S.C., Sec. 5401, the National Federal Manufactured Home Construction and Safety Standards Act, is transportable in two or more sections, is built on a permanent chassis, and is used as a place of human habitation; but which is not constructed with a permanent non-removable hitch or other device allowing transport of the unit other than for the purpose of delivery to a permanent site, and which does not have non-removable wheels or hitch-axles, permanently attached to its body or frame.

Dwelling, Multi-Family: A dwelling designed and intended to be occupied by three or more families living independently of each other but which may include joint services or facilities.

Dwelling, Single-Family: A single dwelling designed and occupied exclusively by not more than one family.

Dwelling, Two-Family: A dwelling designed and intended to be occupied by two families living independently of each other.

Dwelling, Condominium: A building or group of buildings in which dwelling units are owned individually and the exterior structure, common areas and facilities are owned in common.

Dwelling Unit: See "Dwelling."

Easement: A grant by the property owner to the public, a corporation, or persons, of the use of a strip of land for specific purposes.

Excavate: Means to dig out, scoop out, hollow out, or otherwise make a hole or cavity by removing soil, sand, gravel, or other material from any property so as to change the grade of such property.

Facade: Any separate face of a building, including parapet walls and omitted wall lines, or any part of a building which encloses or covers usable space. Where separate faces are oriented in the same direction, or in the direction within 45° of one another, they are to be considered as part of a single façade.

Face: The area of a billboard where the advertisement is displayed.

Face Frame: The area directly behind the face on a billboard structure to which the face is attached.

Family: One or more persons occupying a dwelling and living together as a separate housekeeping unit in one or more rooms with complete living facilities, including kitchen facilities or equipment for cooking or provisions for same, and including a room or rooms for living, sleeping, bathing, and

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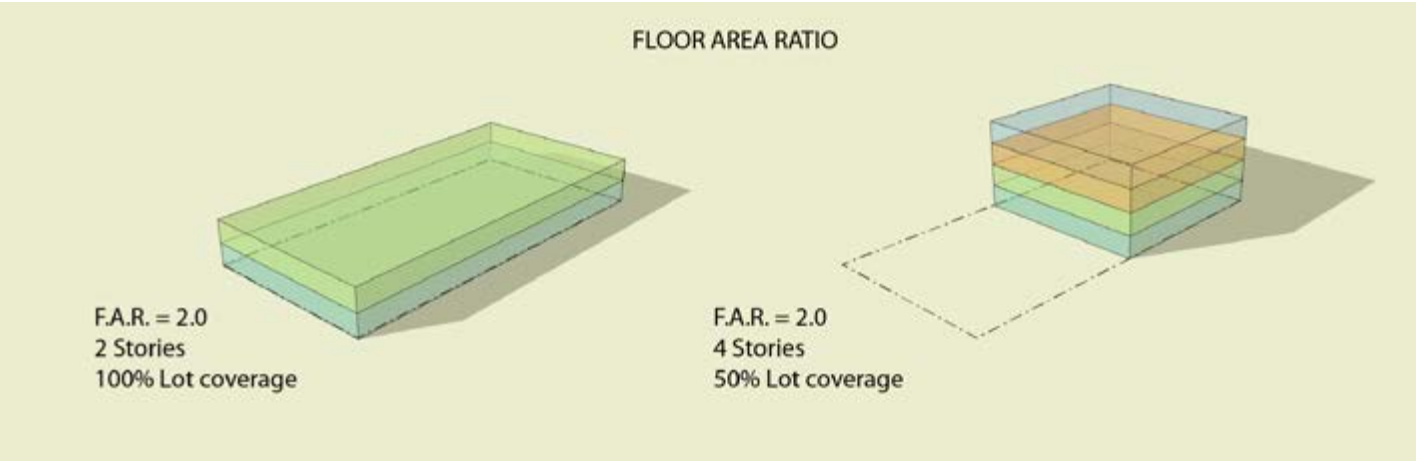

eating. Any household employees residing on the premises shall not be considered as a separate family for purposes of this Code.

Fill: The placing, storing or dumping of any materials such as earth, clay, sand, concrete, rubble or non-decomposable waste of any kind upon the surface of the ground, which results in increasing the natural surface elevation.

Final Subdivision Plat: A map of a subdivision to be recorded after official approval and any accompanying material as described in these regulations

Fire Code: The current Standard Fire Prevention Code as promulgated by the International Code Council and adopted by the City.

Flammable Liquids: Any liquid which gives off flammable vapors, as determined by the flash point from an open cup tester as used for test of burning oils, at or below a temperature of 80 degrees Fahrenheit, is flammable.

Floodplain: The land area adjoining a river, stream, watercourse, or lake that has been or may be covered by flood water.

Flood Damage Prevention Code: An overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works, and land use and control measures, and Flood Damage Prevention Code.

Floodproofing: Structural and/or nonstructural adjustments to a building which make it watertight below the base flood level and which enable the building to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the base flood level. Said adjustments are to be certified by a registered professional engineer or architect.

Floodway: The channel of a river or other water course and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot.

Floor Area: The sum of the gross horizontal areas of all floors of a structure, including interior balconies and mezzanines, measured from the exterior face of exterior walls or from the centerline of a wall separating two structures. This term shall include the area of roofed porches having more than one wall and of accessory structures on the same lot. Stairwells and elevator shafts shall be excluded.

Floor Area Ratio: The ratio of the total building floor area in square feet to the total land area in square feet, based upon a 1:0 ratio, constituting a one-story building or structure occupying 100 percent of the underlying land.

Food Truck: A service establishment operated from a licensed and moveable vehicle (with or without an attached trailer) that vends or sells food or drink processed or prepared on-site to walk-up customers.

Frontage: That distance where a property line is common with a street right-of-way line.

Future Land Use Plan: That part of the Comprehensive Plan now and hereafter adopted which

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includes the adopted Future Land Use Plan, and which sets forth identification, location, area and classifications of proposed land uses.

Garage Apartment: A dwelling unit above a private garage.

Garage, Private: A privately owned and restricted accessory building or part of a main building used for storage purposes for one or more automobiles. This term also includes carports.

Garage, Public: Any garage not defined as a private garage.

Gasoline, Service or Filling Station: Any area of land, including structures thereon, that is used for the retail sale of gasoline or oil fuels, and installation of other minor automobile accessories, and which may or may not include facilities for maintenance, washing or cleaning, but not including storage,rental of vehicular equipment, or vehicle repair.

Gated Community: A residential area in which access to the subdivision streets is restricted by the use of a guard house or electronic arms, and in which residents may gain entry by using electronic cards, identification stickers, codes, or remote control devices.

Glare: The sensation produced by luminance within the visual field that is sufficiently greater than the luminance to which the eyes are adapted to cause annoyance, discomfort, or loss in visual performance and visibility.

Governing Authorities: Mayor and Council of the City of Hattiesburg, Mississippi.

Grade or Grade Level: The slope of a road, street, or other public way specified in percentage terms.

Gross Floor Area: See "Floor Area."

Ground Elevation: The height of the ground above sea level expressed in terms of NAVD88.

Group Care Facility: A facility or dwelling unit housing persons unrelated by blood or marriage and operating as a group household. A group care facility may include half-way houses, recovery homes, and homes for orphans, foster children, the elderly, battered children and women. It would include a specific treatment providing less than primary health care by staff appropriately certified or licensed to provide such treatment.

Group Care Home: A dwelling unit housing up to six persons unrelated by blood or marriage and operating as a family-based household. A group care home provides less than primary health care by staff appropriately certified or licensed to provide such treatment for persons who are not a danger to themselves or others.

Grubbing: The effective removal of undesirable under story vegetation and tree stumps.

Hardship: An unusual situation on the part of an individual property owner that will not permit the full use of their property as is allowed others within the community. A hardship exists only when it is not self-created or when it is not economic in nature. In other words, a true hardship exists only when the literal interpretation of the requirements of the Code would place an individual in an unusual circumstance and would deny the right to use property for any purpose, or create an unnecessary burden unless relief is granted.

Heliport: That area used by helicopters or other steep gradient aircraft for take-offs and landings. Such area may include passenger, cargo, maintenance, and overhaul facilities, plus fueling service, storage space, tie-down area, hangars, and other accessory buildings and open spaces.

Historic Conservation Code: The Hattiesburg Historic Conservation Code, an overall program of protection, enhancement and perpetuation of landmarks, landmark sites and historic districts along with standards and requirements as established and adopted by the City and administered by the Historic Conservation Commission.

Home Care Center: See Care Center.

Home Occupation: Any activity carried out for gain by a resident conducted as an accessory use in the resident's dwelling unit.

Homeowners Association: An association or organization, whether or not incorporated, which operates under and pursuant to recorded covenants or deed restrictions, through which each owner of a portion of a subdivision— whether a lot,

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parcel site, unit plot, condominium, or any other interest—is automatically a member as a condition of ownership, and each such member is subject to a charge or assessment for a prorated share of expense of the association, which may become a lien against the lot, parcel, unit, condominium, or other interest of the member.

Hospital: A facility that provides medical, diagnostic, and treatment services that include physician, nursing, and other health services to inpatients and the specialized accommodation services required by inpatients including as an integral part of the institution such related facilities as laboratories, outpatient departments, training facilities, central service facilities, and staff offices.

Hotel: A building containing rooms intended or designed to be used or that are used, rented, or hired out to be occupied or that are occupied for sleeping purposes by guests, and where only a general kitchen and dining room are provided within the building or in an accessory building. See "Motel."

Improvement: Any one or more of the following that is required for land development: streets, roadways, and bicycle paths; sidewalks and pedestrian paths; signage for traffic control and other governmental purposes, including street name, signs, and other traffic control devices on streets, roadways, and pedestrian and bicycle paths; lighting of streets and pedestrian and bicycle paths; water mains and connections, including facilities and connections for the suppression of fires; sanitary sewers and storm drainage sewer mains and connections; utility lines and poles, conduits, and connections; off-street parking and access; landscaping and contouring of land and other provisions for drainage, sedimentation, and erosion control; open space, parks, recreation facilities, and playgrounds; and public elementary and secondary school sites

Industry, heavy: Any manufacturing use that, due to its appearance, noise, odor, risk of toxic emissions, or fire and explosion hazards are incompatible with residential, commercial, and other land Uses.

Industry, light: A manufacturing business where: 1) all processing, fabricating, assembly, or disassembly of items takes place wholly within an enclosed building, and 2) offsite impacts, especially nuisance impacts, related to light, noise, odor, dust, vibration, and traffic are minimal if present. This use category includes science laboratories that meet the use criteria including polymer sciences.

Infill development: Development designed to occupy scattered or vacant parcels of land that remain after the majority of development has occurred in an area.

Infrastructure: Any physical system or facility that provides essential services, such as transportation, utilities, energy, telecommunications, waste disposal, parklands, sports, buildings, housing facilities, and the management and use of resources regarding same. Includes drainage systems, irrigation systems, sidewalks, roadways, sewer systems, water systems, driveways, trails, parking lots, and other physical systems or facilities as generally described above that may not be specifically enumerated in this definition.

Intermittent Stream: A stream in which surface water is absent during a portion of the year, as shown on the most recent 7.5- minute topographic quadrangle published by the United States Geologic Survey as confirmed by field verification.

Junk: Any worn-out, cast-off, or discarded article or material that is ready for destruction or has been collected or stored for salvage or conversion to some use. This does not include any article or material which, unaltered or unchanged and without further reconditioning, can be used for its original purpose as readily as when new.

Junkyard: Any area, lot, land, parcel, building or structure or part thereof used for the storage, collection, processing, purchase, sale or abandonment of wastepaper, rags, scrap metal or other scrap or discarded goods, materials, machinery or wrecked, dismantled, partially dismantled or inoperative motor vehicles or other type of junk.

Kennel: An establishment in which more than three domesticated animals are housed, groomed, bred, boarded or trained for compensation or offered for sale.

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Laboratory, Dental or Medical: Facilities primarily engaged in providing analytic or diagnostic services, including body fluid analysis, generally to the medical profession or to the patient on referral from a health practitioner, and dental, orthopedic, and optical laboratories engaged in making dentures, artificial teeth, and orthodontic appliances, lenses and orthopedic or prosthetic appliances to prescription.

Land Clearing: Those operations where trees and vegetation are removed and which normally occur prior to building; e.g., road right-of-way excavation, lake and drainage system excavation, utility excavation, grubbing, and any other necessary or approved clearing operations.

Level of the 100-Year Flood: The highest level of flooding that has a one (1.0) percent chance of occurring each year.

Life Care Community: Senior housing including provides independent living, assisted living and/or nursing home care requiring a long-term, upfront financial commitment that, in turn, guarantees housing, services and nursing care all in one location through the end of life.

Livestock: A domestic animal normally raised on a farm such as poultry, swine, cattle, horses, sheep, goats, or similar animals, but not wildlife.

Lot: A tract, plot, or portion of a subdivision or other parcel of land intended as a unit for the purpose, whether immediate or future, of transfer of ownership, or possession, or for building development.

Lot Area: The total area included within the front, side and rear lot lines.

Lot Lines: The lines bounding a lot as defined herein.

Lot, Corner: A lot or parcel of land abutting upon two or more streets at their intersection, or upon two parts of the same street forming an interior angle of less than 135 degrees.

Lot, Double Frontage: A lot, other than a corner lot which has frontage on more than one street. Also referred to as a through lot.

Lot, Interior: A lot other than a corner lot.

Lot Depth: The average horizontal distance between the front lot line and the rear lot line.

Lot Frontage: Construed to be the portion nearest the street right-of-way extending from lot line to lot line. For the purposes of determining yard requirements on corner lots, all sides of a lot adjacent to streets shall be considered frontage.

Lot Line, Front: In the case of an interior lot, the line separating said lot from the street right-of-way. In the case of a corner or through lot, the line separating said lot from the street which the house will face, to be determined from the request for a building permit. Front lot line is synonymous with street right-of-way line.

Lot Line, Side: The side lot line is the property boundary line between the front and rear lot lines.

Lot of Record: A lot which is part of a subdivision recorded in the Office of the County Chancery Clerk, or a lot or parcel of land described by metes and bounds, the description of which has been recorded in the office of the County Chancery Clerk and that at the time of recording was a legal, conforming lot.

Lot Width: The width of a lot at the front building setback line. See Building Setback Line, Section 6.1.

Low Impact Design: An innovative stormwater management approach that seeks to mimic a site's predevelopment hydrology by using design techniques that infiltrate, filter, store, evaporate, and detain runoff close to its source.

Luminary: A complete lighting unit, consisting of the light source and all necessary mechanical, electrical and decorative parts

Marina: A boat basin, harbor or dock, with facilities for berthing and servicing boats, including associated bait and fishing tackle shops and eating establishments.

Manufactured Home: A structure defined by, and constructed in accordance with, the National Manufactured Housing Construction and Safety Standards Act of 1974, as amended (42 USCS 5401

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et seq.), and manufactured after June 14, 1976. With or without a permanent foundation. Does not include a "recreational vehicle." Also known as "manufactured housing."

Manufactured Home Park: A parcel of land in which spaces are rented or leased for placement of two or more manufactured homes.

Manufacturing: Operations required in the mechanical, biological, or chemical transformation of materials or substances into new products, including the assembling of component parts; the manufacture of products; and the blending of materials, such as lubricating oils, plastics, resins, or liquors. Covers all mechanical, biological, or chemical transformations, whether the new product is finished or semi-finished as raw materials in some other process.

Master Site Plan: A conceptual development plan for a phased development site that has been approved by the City.

Mayor: Mayor (Chief Executive) of the City of Hattiesburg.

Medical Facilities: Facilities and clinics, including dental, that provide health care services directly or indirectly to ambulatory patients, but which do not provide inpatient services. See NAICS code group 621 for a list of such facilities.

Message: See definition in Section 5.150 (9) of the Land Development Code.

Mitigation: A system by which a developer causing some adverse agricultural, environmental, or fiscal impact is required to counterbalance that impact by creating an equivalent benefit through dedication, payments, offsets, and alternative construction of self-imposed restrictions.

Mixed-Use Building: A building that contains two or more of the following major use types: residential, office, or retail.

Mobile Home: A manufactured home that does not conform to the United States Department of Housing and Urban Development Code (HUD Code) or the local building code.

Modular Home: A structure transportable in one or more sections, is designed to be used as a dwelling when connected to the required utilities, and includes plumbing, heating, air conditioning and electrical systems with the home; and certified by its manufacturers as being constructed in accordance with a nationally recognized building code.

Motel: A building or group of detached, semidetached, or attached buildings on a lot containing guest dwellings, each of which has a separate outside entrance leading directly to rooms, with a garage or parking space conveniently located with each unit, and which is designed, used, or intended to be used primarily for the accommodation of automobile transients. See "Hotel."

New Construction: New construction refers to site preparation for, and construction of, entirely new structures and/or significant extensions to existing structures whether or not the site was previously occupied. Significant extensions shall be interpreted to mean any change in the façade, size or footprint of a structure that effects more than, or results in new constructions that exceeds, 50% of the existing facade, structure size or footprint."

Nit: The unit of measurement most commonly used to measure luminance (brightness of a surface which is emitting light) is candelas per square meter, often referred to as nits in the U.S. (1 nit = 1 cd/m2). The nocturnal appearance and environmental effect of objects such as internally lit signs may be analyzed both by total light output (lumens) and by their surface brightness (nits).

North American Industry Classification System (NAICS): The standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. All references in this code to the NAICS shall mean the 2012 edition.

Nursing Home: An establishment primarily engaged in providing primary inpatient nursing and rehabilitative services usually on an extended basis.

Open Space: An area that is intended to provide light and air, and is designed, depending upon the particular situation, for environmental, scenic, or recreational purposes. May include, but need

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not be limited to, lawns, decorative plantings, bikeways, walkways, outdoor recreation areas, wooded areas, greenways, and water courses. The computation of open space shall not include driveways, parking lots, or other surfaces designed or intended for motorized vehicular traffic, or to buildings. The term "open space" also includes any land, water, or submerged land that is provided for, preserved for, or used for park or recreational purposes; conservation of land or other natural resources; cultural, historic, or scenic purposes; assisting in the shaping of the character, direction, and timing of community development; or wetlands.

Open Space, Common: Open space that is available to, accessible to, and maintained in a suitable state for the shared use by the owners of property within a particular development.

Open Storage: The keeping, in an unroofed area, of any goods, junk, material, or merchandise in the same place for more than 24 hours.

Overlay District: A district that is superimposed over one or more zoning districts or parts of districts and that imposes specified requirements in addition to those applicable in the underlying base zoning district.

Owner: The record owners of land or facilities or a vendee or lessee in possession, including any person, group of persons, firm or firms, corporation or corporations, or any other legal entity having legal title to or sufficient proprietary interest in the land sought to be subdivided or developed under the definition of same ownership.

Parking Lot: An off-street, ground-level open area for the temporary parking of motor vehicles. This term does not include an area used exclusively for the display of motor vehicles for sale as part of an automobile dealership.

Parking Space: A space located on private or public property sufficient in size to store one (1) automobile and meeting the requirements of this Code and the ADA Parking Code.

Pawn Shop: A business that lends money on the security of pledged goods. May also purchase merchandise for resale from dealers and traders.

Perennial Stream: A stream that contains surface water throughout an average rainfall year, as shown on the most recent 7.5-minute topographic quadrangle published by the United States Geologic Survey, as confirmed by field verification

Permit: Written governmental permission issued by an authorized official, empowering the holder to undertake some aspect of land development as defined within the scope of this ordinance.

Personal Services: Refers collectively to commercial services, such as catering and cleaning, that supply the personal needs of customers.

Phased Development: Land development that occurs in planned phases or stages each of which and as a whole meet the requirements of this ordinance.

Phased Development Plan: A plan for one portion, or phase, of a phased development for which a master site plan has been approved by the City.

Planned Development: A development constructed on a tract of minimum size under single ownership planned and developed as an integral unit and consisting of a combination of residential and/or nonresidential uses on the land.

Planned Residential Development: A residential planned development.

Planned Unit Development: A mixed-use planned development.

Plat: A complete and exact map representing a tract of land, showing the boundaries and location of individual lots, easements, and streets, which has been approved by the planning commission and recorded in the office of the county clerk. Includes a replat.

Plot: See "tract" or "lot."

Preliminary Plat: The preliminary drawing or drawings, described in this ordinance, indicating the proposed manner or layout of the subdivision to be submitted to the appropriate official for city approval.

Premises: Land together with the structure or structures occupying it.

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Principal Building: See principal structure.

Principal Dwelling: A dwelling unit that constitutes the principal building or principal structure on a lot or parcel.

Principal Structure: A structure or, where the context so indicates, a group of structures, in which the principal use of a lot or parcel is conducted. This includes any buildings that are attached to the principal structure by a covered structure.

Principal Use: The primary or main use of land or structures, as distinguished from a secondary or accessory use.

Private Driveway: A driveway located on a lot or development site that serves only that lot or development site, and which is not otherwise defined as a private street.

Private Street: See "street, private."

Property Owner: The person, entity, corporation, or partnership in whose name a certificate of occupancy is issued; the current owner of the property if a certificate of occupancy is no longer valid; or, if the current owner cannot be contacted after due diligence, the lessee/occupant of the property who is in apparent control of such property.

Proposed Development: The uses, structures, and buildings contained in the application for development approval.

Public Property: Property that is owned by the City or any agency of the state or federal government.

Public Tree: A tree located on any property owned by the City, such as street and alley rights of way, parks and other public areas

Public or Private Utility: Any person, firm, corporation, city department or board duly authorized under state or municipal regulations to furnish public services such as electricity, gas, water, sewer, telephone, television cable, fiber optic, transportation or other public services to its subscribers or customers.

Public Use: A use owned and/or operated by the City or any agency of the state or federal government for the benefit and wellbeing of the general public.

Reconstruction: The act or process of reassembling, reproducing, or replacing by new construction the form, detail, and appearance of property and its setting as it appeared at a particular period of time by means of the removal of later work, by the replacement of missing earlier work, or by the reuse of original materials.

Recreational Vehicle: A vehicle that is built on a single chassis; 400 square feet or less when measured at the largest horizontal projections; designed to be self-propelled or permanently towable by a light duty truck; and designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.

Recycling Centers: A facility for the recycling and sorting of paper, bottles, cans, or other materials, including small collection facilities and reverse vending machines. This definition specifically excludes junkyards.

Registered Architect: A professional architect properly licensed and registered in the State of Mississippi.

Registered Engineer: A professional engineer properly licensed and registered in the State of Mississippi.

Registered Land Surveyor: Shall mean a professional land surveyor licensed in the State of Mississippi.

Relocation: Any change of the location of a building, object, site feature or structure in its present setting or to another setting.

Residential Structure: A building or portion thereof designed or used exclusively for residential occupancy not including hotels and motels.

Restaurant: A business establishment whose primary service is the providing of food for patrons for consumption on the premises or for take-out. Beverages containing alcohol may also be sold and consumed within the confines of the structure in conjunction with the food service and shall meet Mississippi Code 67-1-5 and City ordinances and this Code. See Section 73, Alcoholic Beverage

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Sales. Examples of these types of restaurants include but are not limited to the following: Cafes, cafeterias, delicatessen, fast food drive-ins, fast food with counter service, and drive through.

Retail Trade: Establishments engaged in selling goods or merchandise to the general public for personal or household consumption and rendering services incidental to the sale of such goods. Characteristics of retail trade establishments include the following: the establishment is usually a place of business and is engaged in activity to attract the general public to buy; the establishment buys and receives as well as sells merchandise; the establishment may process some of the products, but such processing is incidental or subordinate to the selling activities; and retail establishments sell to customers for their own personal or household use.

Retail Use: Any use engaged in retail trade, including any use listed under the category "Commercial Buildings" in the Table of Uses.

Sanitary Landfill: A controlled area of land upon which solid waste is disposed of in accordance with standards, rules, or orders established by the state of Mississippi.

School: A public or private institution at which persons are instructed in the specifics of learning for purposes of this Code including kindergarten, but does not include business schools, colleges, or universities. Included in this definition is any facility operating as a kindergarten, nursery school, Head Start, or like facility in conjunction with an elementary and/or secondary school system, whether it be public, private, or parochial, whose primary purpose is a structured school readiness program.

Scrolling Message: The traveling or moving of lines of text horizontally or vertically across the electronic message board. Self-Storage Facility: Any building or group of buildings that is composed of contiguous individual rooms, which are rented to the public for the storage of personal property and which have independent access and locks under the control of the tenant.

Semi-Public Use: A use owned, operated or maintained by a private, charitable institute or other group generally for the benefit of a selected public group and the community (e.g. religious group).

Setback Line: The distance between a building and the street right-of-way line nearest to the building. Establishes the minimum required yard and governs the placement of structures and uses on the lot.

Shared Driveway: A driveway providing access to two adjacent properties.

Shopping Center: An integrated grouping of commercial activity, primarily of a retail and personal service nature, in a single building complex having the individual establishments joined by a common covered pedestrian mall. Also known as a shopping mall or strip center.

Sidewalk: A paved, surfaced or leveled area, usually paralleling and separated from the street, used as a pedestrian walkway.

Sign: Any device, fixture, placard, or structure that uses any color, form, graphic, illumination, symbol, or writing to advertise, announce the purpose of, or identify the purpose of a person or entity, or to communicate information of any kind to the public.

Sign Height: As applied to a sign, shall be measured as the vertical distance between the highest part of the sign or its supporting structure, whichever is higher, and the ground.

Sign Message Area: Means the area enclosed by the minimum imaginary rectangle of vertical and horizontal lines which fully contains all extremities of the sign, exclusive of its supports. This rectangle is to be calculated from an orthographic projection of the sign viewed horizontally. Also called sign area or surface area. A viewpoint for this projection is to be taken which gives the largest rectangle of that kind, as the viewpoint is rotated horizontally around the sign. If elements of the sign are movable or flexible, as a flag or string of lights, the measurement shall be taken when the elements are fully extended and parallel to the plan of view. The effective area for attached signs shall mean the sum of the areas of the minimum imaginary rectangles enclosing each word attached to any particular facade.

Sign Message Off-Time: The length of time between

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two message times when an electronic message board is blank/displays no part of any message.

Sign Message On-Time: The length of time that the text of a message is visible on an electronic message board.

Sign Support/Structure: Any pole, strut, cable, or other structural fixture or framework necessary to hold and secure a sign, providing that said fixture or framework is not imprinted with any picture, symbol or word using characters, nor is internally or decoratively illuminated.

Sign, Billboard/Outdoor Advertising: An outdoor advertising structure which advertises a use, product, or service.

Sign, Blinking: A means of animation on electronic message board signs whereby the message winks or flashes on and off.

Sign, Electronic Message Board: A sign or portion thereof with a fixed or changing display/message composed of a series of lights that may be changed through electronic means.

Sign, Flashing: A change in light intensity at regular intervals, including repeated brightening or dimming of lights, change in contrast or hue, or turning them on and off in a manner in which the duration of light is less than the duration of darkness.

Sign, Free Standing: Means any sign connected to the ground which is not an attached sign, inclusive of signs on movable objects, except signs on vehicles which are moving or are parked only temporarily. A freestanding sign may display on and off premise information.

Sign, Off-Premise: A sign advertising activities conducted off the property, or principal products sold off the property on which the sign is located.

Sign, On-Premise: A sign advertising activities conducted on, or principal products sold on the property on which the sign is located.

Sign, Projecting: A sign that is wholly or partly dependent upon a building for support and which projects at an angle away from the building.

Sign, Roof: A sign erected and constructed wholly on or above the roof of a building and supported by the roof structure.

Sign, Wall: A sign fastened to or painted on the wall of a building or structure in such a manner that the wall becomes the supporting structure for, or forms the background surface of the sign and which does not project more than six (6) inches from such building or structure.

Site and Design Review Committee: As established by the Land Development Code, its purpose shall be to utilize to the fullest extent possible its individual and collective technical expertise, to coordinate and expedite the review, processing and pre-hearing procedures as they may apply to the Land Development Code, and all development and building codes and all applicable City Codes.

Sight Triangle: A triangle formed by the intersection of two streets, or a street and a driveway, and a third line, which must be kept clear of obstructions such as hedges and fences so that people on one approach can see vehicles on the other.

Solar Farm: Energy generation facility that converts sunlight into electricity by multiple photovoltaics (PV) solar panels mounted on stationary poles and considered as a primary land use

Special Flood Hazard Area: The land in the floodplain within a community subject to a 1 percent or greater chance of flooding in any given year. The area is designated as a Federal Emergency Management Agency Zone A, AE, AH, AO, A1-99, VO, V1-30, VE, or V on the Flood Insurance Rate Maps.

Specified Anatomical Areas: Less than completely and opaquely covered human genitals, pubic region, buttocks, anus or less than fifty percent (50%) of the female breast below a point immediately above the top of the areolae; or human male genitals in a discernibly turgid state even if completely and opaquely covered.

Specified Sexual Activities: Human genitals in a state of sexual stimulation or arousal; acts of human masturbation, sexual intercourse, or sodomy; fondling or other erotic touching of human genitals, pubic regions, buttocks, or female breasts; flagellation or torture in the context of a sexual relationship; masochism, erotic or sexually ori-

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ented torture, beating or the infliction of physical pain; erotic touching, fondling or other such contact with an animal by a human being; or human excretion, urination, menstruation, vaginal or anal irrigation as part of or in connection with any of the activities set forth in this ordinance.

Story: That part of a building between the surface of a floor and the ceiling immediately above.

Street, Collector: A street designed to facilitate traffic movement between minor arteries and minor streets and indirect access to abutting properties.

Street, Major Arterial: A street with access control, channelized intersections, restricted parking, and which collects and distributes traffic to and from minor arterials.

Street, Minor Arterial: A street with signals at important intersections and stop signs on the side streets, and which collects and distributes traffic to and from collector streets.

Street, Cul-de-sac, Court, or Dead-end Street: A short street of a maximum of 800 feet in length having one end open to traffic and the other permanently terminated by a vehicular turn-around.

Street, Curb Line Radius: The radius used to join two intersecting streets or the curve of a street.

Street, Dedicated: A street with its right-of-way which has been given by the owner for public use and has been accepted by the responsible political entity in which the street is located and is so dedicated and recorded in the Office of the County Chancery Clerk.

Street Grade: The officially established grade of the street upon which a lot fronts. If there is no officially established grade, the existing grade of the street at the center of the street shall be considered as the street grade.

Street, Half: One half of the right-of-way of a street.

Street Intersection: The place where a street joins or crosses another street at an angle.

Street Line: Public right-of-way line of a street.

Street, Minor: A street designed primarily to provide access to abutting properties.

Street, Private: A privately owned and maintained right-of-way that gives vehicular access to two or more lots or development sites.

Street, Public: A publicly owned and maintained right-of-way that gives vehicular access to two or more lots or development sites constructed to City specifications and accepted by the City.

Street or Alley, Vacated: A dedicated right-of-way which has been officially closed and abandoned by ordinance.

Streetscape: The general appearance of a block or group of blocks with respect to the structures, setbacks from public rights-of-way, open space, and the number and proportion of trees and other vegetation.

Structure: Anything constructed or a combination of materials that form a construction for use, occupancy, or ornamentation, whether installed on, above, or below the surface of land or water.

Structure, Detached: A structure having no party wall or common wall with another structure unless it is an accessory structure.

Structural Alterations: Any change in the roof, exterior walls or supporting members of a building.

Subdivider: Any person who: having an interest in land, causes it, directly or indirectly, to be divided into a subdivision; directly or indirectly, sells, leases, or develops, or offers to sell, lease, or develop, or advertises to sell, lease, or develop, any interest, lot, parcel site, unit, or plat in a subdivision; engages directly or through an agent in the business of selling, leasing, developing, or offering for sale, lease, or development a subdivision or any interest, lot, parcel site, unit, or plat in a subdivision; or is directly or indirectly controlled by, or under direct or indirect common control with, any of the foregoing.

Subdivision: The division of a lot, tract, or parcel of land into two or more lots, plats, sites, or other divisions of land for the purpose, whether immediate or future, of sale, lease or building develop-

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ment by means of an appropriately recorded legal document.

Subdivision, Major: Any subdivision of land (lot split) that does not conform to the definition of a minor subdivision.

Subdivision, Minor: Any subdivision (lot split) containing not more than three lots fronting on an existing street that does not result in the creation of any new street, the extension of municipal utilities, or the need for additional public improvements. A series of related minor subdivisions on contiguous land cumulatively totaling four or more lots shall be construed to create a major subdivision.

Substantial Improvement: Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50 percent of the actual cash value of the structure either: (1) before the improvement is started, or (2) if the structure has been damaged and is being restored, before the damage occurred. Substantial improvement is defined to be started when the first alteration of any structural part of the building commences.

Telecommunications Facilities and Towers, Wireless: (see Wireless Telecommunication Ordinance)

Through Traffic: The continuous movement of traffic from one general area to another general area.

Townhouse: A building that has single-family dwelling units erected in a row as a single building on adjoining lots, each being separated from the adjoining unit or units by a fire wall (to be constructed in accordance with city codes and ordinances), along the dividing lot line, and each such building being separated from any other building by space on all sides.

Tow Yard: A holding place for motor vehicles until they are either placed back in the control of the owner, or auctioned off for the benefit of the impounding agency. This definition specifically does not include junkyards or service lots associated with automotive maintenance and repair.

Tract: A lot.

Tract, Large: A tract of property of one acre or more in size.

Tract, Small: A tract of property of less than one acre in size.

Trailer, Camper: A portable or mobile dwelling used for temporary occupancy, intended for camping purposes and not for extended or permanent occupancy. This term includes recreational vehicles and pop-up campers.

Tree Contractors: Any business or individual who receives compensation for tree pruning or removal.

Tree protection: On the ground visible protection of desirable trees from mechanical and other injury during land disturbing and construction activity.

Undeveloped: In its natural state, free of manmade structures including but not limited to buildings, parking lots and signs for the purposes of Section 95.10 (3.1) of the Land Development Code."

University/College/Business School: An institution at which persons are instructed in post-secondary vocational, career and academic learning for preparation for employment and education. Examples include The University of Southern Mississippi, Pearl River Community College and William Carey University.

Variance: A modification of the literal provisions of this code when strict enforcement of these provisions would cause undue hardship as determined by the authority vested with approval of the variance as outlined in Section 12 of this code.

Veterinary Clinic/Hospital: A commercial facility where sick or injured animals are given medical care, and in the course of same may be housed overnight, fed, and provided related services. This use may include temporary boarding as an accessory use.

Vicinity Map: A map of the general surrounding area indicating the location of the property being subdivided or proposed for development.

Water Supply System: Any system approved by the State Health Department and City of Hattiesburg which provides a source, means or process of supplying potable water.

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Wetland: Those areas that are inundated or saturated by surface or ground water (hydrology) at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation (hydrophytes) typically adapted for life in saturated soil conditions (hydric soils). Wetlands generally include swamps, marshes, bogs, and similar areas.

Wind Device: Means any flag, banner, pennant, streamer, or similar device that moves freely in the wind.

Yard: An area on a lot between the lot line and the nearest principal structure, unoccupied and unobstructed by any portion of a structure from the ground upward.

Yard, Front: An area extending the full width of a lot between the front lot line and the nearest principal structure.

Yard, Rear: An area extending the full width of a lot between the rear lot line and the nearest principal structure.

Yard, Side: An area extending the depth of a lot from the front yard to the rear yard between the side lot line and the nearest principal structure.

Zero Lot Line: The location of a building on a lot in such a manner that one or more of the building's sides rests directly on or immediately adjacent to the lot line.

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SECTION 14. APPENDIX

A.1 Site Plan Standards.

To Insert

A.2 Fees.

To Insert

Final Adoption Version 12.09.16

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG PLANNING COMMISSION

February 1, 2017

The Hattiesburg Planning Commission did meet in a regular session on February 1, 2017 at 1:00 p.m. at the Jackie Dole Community Center, 220 West Front Street, Hattiesburg, Mississippi. Peggy Horton, Secretary, presided over the meeting. A quorum was indicated and the attendance was as follows:

Commissioners Present: Dick Conville
Judy Corts (by phone)
Amy Hinton
Mark Miller
Peggy Horton, Secretary
Jessie Wilson

Commissioners Absent: Sandra Thompson

Also Present: Ginger Maddox, AICP, Planning Division Manager
Pattie Brantley, AICP, Director of Urban Development
Stephen Guthrie, Planner

Secretary Horton declared the meeting of the Hattiesburg Planning Commission open and in session at 1:03 P.M.

INVOCATION

Commissioner Conville held a moment of silence.

AGENDA REVIEW

There came the matter of the February 2017 Agenda. A request was made by Secretary Horton for a motion to approve the February 2017 Agenda. A motion was made to approve the February 2017 Agenda by Commissioner Wilson and seconded by Commissioner Conville.

Commissioners voting aye: Dick Conville
Judy Corts (by phone)
Amy Hinton
Mark Miller
Jessie Wilson

Commissioners voting nay: None

Commissioners abstaining: None

MINUTES REVIEW

There came the matter of the December 7, 2016 Minutes. A request was made by Secretary Horton for a motion to approve the December 7, 2016 minutes. A motion was made by Commissioner Hinton to approve the minutes and seconded by Commissioner Miller.

Commissioners voting aye: Dick Conville
Judy Corts (by phone)
Amy Hinton
Mark Miller
Jessie Wilson

Commissioners voting nay: None

Commissioners abstaining: None

REPORTS

BUILDING REPORT

There came the matter of the Building Inspection Report. Steve Mitchell provided a building report for December 2016 and January 2017.

PLANNING REPORT

There came the matter of the Planning Report by Ginger Maddox, Planning Division Manager. The Midtown FBC Variance petitioned by Phillip Perkins, Architect, on behalf of Doug Jones, COO, Forrest General Hospital, Owner, was approved by City Council.

2017 Officer Nominating Committee Chair, Judy Corts, provided the Nominating Committee Report to Ms. Maddox. Ms. Maddox presented the recommendations for officers to serve the Hattiesburg Planning Commission. The recommendations for officers were as follows: Richard Conville, Chairman; Amy Hinton, Vice-Chairman and Peggy Horton, Secretary. Commissioner Miller motioned and Commissioner Corts seconded that the recommendations of the Nominating Committee be accepted as submitted and that the positions be effective immediately. The motion carried.

Ms. Maddox introduced Planner, Stephen Guthrie. Mr. Guthrie started working for the City on January 23, 2017.

CHAIRMAN'S REPORT

There came the matter of the Chairman's Report. There was none.

PUBLIC HEARING

Chairman Conville declared the Public Hearing open at 1:15 P.M. and read the rules and procedures of the hearing.

There came the matter of Item A, by the City of Hattiesburg, with the Mayor and Council of the City of Hattiesburg, Mississippi, to consider and adopt the proposed 2016 Land Development Code of the City of Hattiesburg, Mississippi based on the following:

"To Implement the Vision, Goals and Strategies of the 2008-2028 Comprehensive Plan."

	Name	Address	City/State
Presented by:	City Staff		
Proponents:	None		
Opponents:	None		

Secretary Horton declared the Public Hearing closed and the Business Meeting open to vote on the request. Commissioner Miller made a motion to approve with the following changes:

A Scribner's error correcting "Automotive/truck and maintenance" use as it is listed in Section 5, Table 5.1, to allow the use as "Permitted with Conditions" in B-1, B-2, B-3, and B-5 & "Automotive/truck repair" use as it is listed in Section 5, Table 5.1, to allow the use as "Permitted with Conditions" in B-3, B-5, and I-1.

Changes to the proposed definition of "Family" to be combined with the existing definition to read as follows: "One or more persons who are related by blood, adoption or marriage occupying and living together as a separate house keeping unit or a group of not more than 4 persons living together by joint agreement in one or more rooms with complete living facilities, including kitchen facilities or equipment for cooking or provisions for same, and including a room or rooms for living, sleeping, bathing, and eating. And household employees residing on the premise shall not be considered as a separate family for purposes of this code."
The motion was seconded by Commissioner Wilson.

Commissioners voting aye: Judy Corts (by phone)
Amy Hinton
Mark Miller
Peggy Horton, Secretary
Jessie Wilson

Commissioners voting nay: None

Commissioners abstaining: None

BUSINESS MEETING

A preliminary plat review for lot subdivision at Lake View Golf Club Community, Phase II at Timberton was presented by Ginger Maddox to the Commission for approval. Commissioner Horton made a motion to approve the plat and Commissioner Hinton seconded the approval. The vote to approve the preliminary plat is detailed below:

Commissioners voting aye: Judy Corts (by phone)
Amy Hinton
Mark Miller
Peggy Horton, Secretary
Jessie Wilson

Commissioners voting nay: None

Commissioners abstaining: None

There being no further business, Commissioner Wilson made a motion to adjourn the meeting. The motion was seconded at Commissioner Horton.

_____
Dick Conville, Chairman

_____
Ginger Maddox, AICP, CFM, Planning Division Manager

Planning Commission
Case Fact Sheet

A petition has been filed by the City of Hattiesburg, with the Mayor and Council of the City of Hattiesburg, Mississippi, to consider and adopt the proposed 2016 Land Development Code of the City of Hattiesburg, Mississippi based on the following:

"To Implement the Vision, Goals and Strategies of the 2008-2028 Comprehensive Plan."

Letters or Concerns stated:

As requested at the July 27, 2016, Special-Called Planning Commission Meeting, the Planning Division and Orion Consulting met with the Home Builder's Association representative on August 22, 2016 to discuss the group's comments.

As requested at the September 7, 2016, Regular Planning Commission Meeting, the Public Comment Period was reopened until Friday, September 9, 2016, at 5pm. The Planning Division and Orion Consulting Received comments from the Home Builder's Association and the Area Development Partnership. These comments were noted or incorporated into the proposed code. Comments and responses are included in this report.

City Council held a Special Called meeting on November 28, 2016, to review the Proposed Land Development Code as recommended for approval by the Hattiesburg Planning Commission on October 5, 2016. City Council suggested the flowing changes be implemented prior to adoption:

- Language inserted at section 2.4.10 reflecting that the grandfather clause extends to the building and site.
- The section related to the streamlining of the process be removed. [Section 12, table 12.5 and supporting language. Planning Commission/Board of Adjustments to Recommend Variances and Conditional Uses, City Council to Decide]

These substantive changes to the ordinance require re-advertisement. These changes have been made and are presented to you in this version of the Proposed Land Development Code.

BE IT REMEMBERED that the Special Called meeting of the Hattiesburg City Council was held at 4:00 p.m. Monday, November 28, 2016, in Council Chambers at City Hall.

Those present included Mayor Johnny L. DuPree and members of the City Council Kim Bradley, Ward 1; Deborah Delgado, Ward 2 (Teleconference); Carter Carroll, Ward 3; Mary Dryden, Ward 4; and Henry Naylor, Ward 5. Others in attendance included Director of Administration/City Clerk, Kermas Eaton; City Engineer, Lamar Rutland; Fire Chief, Paul Presley; Assistant Fire Chief, Eddie Wilson; Police Chief, Anthony Parker; Director of Public Works, Larry Barnes; Director of Federal and State Programs, La'Keylah White; Director of the Water Department, Chadwick Frierson; Director of Parks and Recreation, Clemon Terrell; Director of Urban Development, Pattie Brantley; Planning Administrator, Ginger Maddox; Code Enforcement Manager, Mark Jordan; Clerk of Council, Debbie Bernardo; Deputy Clerk of Council, Lisa Luu; media; and the public.

The MEETING was called to order by Council President Carroll.

1. **2016-51** Adopt an Ordinance establishing a new Land Development Code and repealing Ordinance Number 2330, adopted 12-05-1989, and all subsequent amendments thereto and any other ordinances in conflict therewith.

Attachments: October PC Minutes (draft)
Staff Summary - New LDC
2016 LDC - Home Builders Assoc - Letter of Support
Hattiesburg LDC Edits - Home Builder Comments - 2nd Round Responses 9.12
Hattiesburg LDC Edits - ADP 9-8-16
Hattiesburg Land Development Code - Final Draft (9.12.16)
ADP Letter of Support

Ms. Brantley announced that Ms. Maddox has passed the AICP (American Institute of Certified Planners) exam. Council members congratulated Ms. Maddox.

Ms. Maddox provided a brief overview and introduced Bob Barber, partner at Orion Planning and Design, who presented the Proposed Land Development Code to the Council. He said the revised Code has roughly half the number of pages as the current Code, makes use of more images and illustrations, is searchable and includes hyperlinks; also, he said it includes re-worked environmental and infrastructure standards, a simpler signs section, and a streamlined administration/enforcement section.

Mr. Barber said the new code is easier to follow, that additional conditions are listed in a separate section and that it includes a streamlining of the process. He said his presentation to the Council for adoption is the final step, as there has been an extensive review process in the community and, prior to that with staff. He said the Planning Commission recommended approval at its meeting October 5, 2016, and stated that the Homeowners Association wants language inserted at section 2.4.10 reflecting that the grandfather clause extends to the building and site.

Subsequent discussion related to the proposed streamlining of the process, which would make the Council the final voice on variances only when an appeal has been filed, and to zoning and use permits, signs, redevelopment incentives, and the level of public engagement at the charrettes and open meetings on the proposed Land Development Code.

Council member Bradley spoke in favor of retaining the section on streamlining the process; Council President Carroll said that the planning staff had been told twice that [the Council] did not want this section included, and Council Vice President Dryden said that Council members are elected to represent [citizens in their respective wards] and that these items should come before the Council.

Dennis Pierce of Pierce Construction in support to the land code. He asked that the language in section 2.4.10 be amended to read “and/or.”

Builder Gary Fordham, whose office is at 723 Hardy Street, spoke on behalf of the Homebuilders Association. He said association members met with city staff members and the planning commission and that many, many changes were made; he said the association supports the proposed code, but does ask that the words “and/or” be inserted at section 2.4.10.

Joe White, president of the Planning Commission, discussed the many hours of work that Planning Commission members Linda McMurtry, Richard Conville and he have spent on the proposed land code and urged the Council to adopt it.

There were no other citizens present who wished to address the Council on the proposed Land Development Code, but Mr. Barber responded to questions from Mr. Pierce about the language in section 2.4.10.

Subsequent discussion related to adoption of the ordinance adopting the proposed Land Development Code, and specifically, whether it could be adopted with stipulations that the wording requested by the Homebuilders Association be added to section 2.4.10 and that the section related to the streamlining of the process be removed.

Attorney Jim Gladden provided options to the Council but said it is best not to stipulate with regard to substantive items; he stated that the section on streamlining the process is substantive. Also, he said that this type of revision will mean that the ordinance must be re-advertised. Subsequent discussion related to various options for adopting, amending and re-advertising the ordinance, with a conclusion that the ordinance be amended and re-advertised and brought back before the Council in January for a vote.

A MOTION was made by Council member Bradley to Adopt an Ordinance establishing a new Land Development Code and repealing Ordinance Number 2330, adopted 12-05-1989, and all subsequent amendments thereto and any other ordinances in conflict therewith, and to amend the ordinance later if necessary.

The MOTION failed for lack of a second.

2016-95 Bob Barber's Presentation on the new Proposed Land Development Code, 11-28-16.

Attachments: New Proposed Land Development Code Presentation, 11-28-16

2016-96 Public Comment Sign-In Sheet for the Proposed Land Development Code, 11-28-16.

Attachments: 11-28-16, Public Comment Sign-In Sheet

A MOTION was made by Council member Bradley and seconded by Council Vice President Dryden to adjourn.

There being no discussion, the motion received the affirmative vote of the Council as follows:

Yeas: 5 - Bradley, Delgado, Carroll, Dryden and Naylor

Nays: 0

Council President Carroll declared the meeting adjourned at 5:04 p.m., this 28th day of November, A.D., 2016.

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City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-258 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: ORD - amending the regulations for possession or consumption of alcoholic beverages, beer or light wine in certain places

Title: Adopt an Ordinance amending Ordinance No. 3148, Adopted 12-16-14, amending the regulations for possession or consumption of alcoholic beverages, beer or light wine in certain places and creating exceptions for special events; and adding chapter 3-9, to include Chain Park as part of the Downtown area.

Type: Ordinance

Drafter: Lisa Luu

In Control: City Council

Reference:

Attachments: ORD - Possession and Consumption of Beer and Light Wine, Downtown Map

File Created: 02/17/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

ORDINANCE NUMBER _____

OF THE

CITY OF HATTIESBURG, MISSISSIPPI

AN ORDINANCE AMENDING ORDINANCE NO. 3148, ADOPTED 12-16-14, TO AMEND ORDINANCE NO. 2103, ADOPTED 2-8-83, AMENDING THE REGULATIONS FOR POSSESSION OR CONSUMPTION OF ALCOHOLIC BEVERAGES, BEER OR LIGHT WINE IN CERTAIN PLACES AND CREATING EXCEPTIONS FOR SPECIAL EVENTS; AND ADDING CHAPTER 3-9, TO INCLUDE CHAIN PARK AS PART OF THE DOWNTOWN AREA

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI:

SECTION 1: That the purpose of this ordinance is to amend Chapter 3-7 of the Code of Ordinances, regulating the consumption of alcoholic beverages, beer or light wine in certain places; creating exceptions for special events; adding Chapter 3-9.

SECTION 2: That section 1 of Ordinance Number 2103, as amended by Ordinance 3148, be and the same is hereby amended to read as follows:

"It shall be unlawful for any person, group association, or any and all legal entities recognized by law to possess or consume alcoholic beverages, beer or light wine, as defined by any statute of this state, in the city hall, municipal school buildings, stadiums, any public playgrounds, or public parks, or clubhouses situated therein, or any fire station, or on any and all other public grounds, buildings, parks and places owned, maintained or operated by the city; except, that this section shall not apply to any individuals, groups or associations utilizing any municipally owned building under a written lease or rental agreement granted by the city; and it shall be unlawful for any person to consume any alcoholic beverage, beer, or light wine on any public street, sidewalk or alley owned, maintained or operated by the city, except that it shall not be unlawful for any person to consume beer or light wine on streets in the downtown area that have been closed to vehicular traffic, and in designated public parks, for special events that are sponsored or approved by the City of Hattiesburg; during said City-sponsored or approved events in the downtown area, no beer or light wine may be possessed in or consumed from glass containers."

SECTION 3: The sale and/or consumption of beer and light wine shall be allowed on public property and on streets in the downtown area that have been closed to vehicular traffic and in designated public parks for special events that are sponsored or approved by the City of Hattiesburg; sale of beer and light wine shall be allowed by any downtown business that possesses a current permit for the sale of beer and light wine and that has obtained any additional permits required by the Mississippi Department of Revenue for such sales. During said City-sponsored or approved events in the downtown area, no beer or light wine may be consumed, or sold for possession in or consumption from, glass containers. To receive City approval, event sponsor(s) shall submit a request in writing, addressed to the Mayor and City Council, outlining the date, time, place and purpose of the event, at least four weeks in advance of the event or in time to be placed on the City Council agenda for action by the City. The downtown area is defined in the attached city map; location in the downtown area in no way implies or conveys automatic approval for an exception to the regulations for possession or consumption of alcoholic beverages, beer or light wine. Requests for events located outside the defined downtown area will be considered on a case-by-case basis.

SECTION 4: That except as hereby expressly changed and amended, Ordinance Number 3148, adopted December 16, 2014, and Ordinance 2103, adopted February 8, 1983, shall be and do remain in full force and effect as adopted.

SECTION 5: This Ordinance shall take effect and be in force within the time and manner provided by law.

The foregoing Ordinance having been reduced to writing, the same was introduced by Council member _____ , seconded by Council member _____ , and was adopted by the following vote, to-wit:

YEAS: NAYS: ABSENT:

THE President thereby declared the motion carried and the foregoing Ordinance adopted and approved, this the **21st** day of **February, 2017**.

(SEAL)

ATTEST: **ADOPTED:**

_____ _____

CLERK OF COUNCIL **PRESIDENT**

THE above foregoing Ordinance having been submitted to and approved by the Mayor, this the **21st** day of **February, 2017**.

ATTEST: **APPROVED:**

_____ _____

CITY CLERK **MAYOR**

Downtown Hattiesburg and Chain Park

Date: 2/15/2017

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-255 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Adopt the February 21, 2017 Amendments to the Budg

Title: Adopt the February 21, 2017 Amendments to the Budget for the City of Hattiesburg for the fiscal year ending September 30, 2017 and adopt resolution authorizing publication of amendments for funds in excess of 10% of the original appropriation fund balance.

Type: Resolution

Drafter: Sharon Waits

In Control: City Council

Reference:

Attachments: Resolution, Worksheet, Urban Development Employee Request, Published Budgets, Memo

File Created: 02/15/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

RESOLUTION

WHEREAS, the Mayor and City Council of the City of Hattiesburg, Mississippi, have determined that expenditures within the City will exceed the original budget appropriation; and

WHEREAS, the additional appropriation needed is in excess of ten percent (10%) of the original appropriation, and in accordance with Section 21-35-25 of the Mississippi Code of 1972, as amended, shall be published;

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF HATTIESBURG:

Section 1. That the following budget amendments are hereby authorized to be made in the City's General Fund General Government Supplies Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$224,455	$50,858	$275,313	Adjust for prior yr purchase orders, tornado expenses, court utilities, budget MPO grant

Section 2. That the following budget amendments are hereby authorized to be made in the City's General Fund General Government Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$328,700	$224,629	$553,329	Adjust for prior yr purchase orders, Old Federal Bldg renovations, purchase of church bldg..

Section 3. That the following budget amendments are hereby authorized to be made in the City's General Fund Police Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$169,250	$420,894	$590,144	Adjust for prior yr purchase orders, Body cameras

Section 4. That the following budget amendments are hereby authorized to be made in the City's General Fund Fire Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$110,900	$110,900	Budget Airpack harnesses and carbon filters

Section 5. That the following budget amendments are hereby authorized to be made in

the City's General Fund Code Enforcement Personnel Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$602,464	$61,557	$664,021	Budget for 2 new administrative assistants

Section 6. That the following budget amendments are hereby authorized to be made in

the City's General Fund Public Services Other Services & Charges Unappropriated Fund

Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$3,025,856	$901,860	$3,92,716	Prior yr purchase orders and paving, tornado expenses

Section 7. That the following budget amendments are hereby authorized to be made in

the City's General Fund Human and Social Asisstance Other Services and Charges

Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$199,500	$50,380	$249,880	Forrest Co. Contribution to Arts Council

Section 8. That the following budget amendments are hereby authorized to be made in

the City's General Fund Cemetery Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$1,000	$1,0000	Buyback of plots

Section 9. That the following budget amendments are hereby authorized to be made in

the City's General Fund Parking Supplies Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$7,170	$1,920	$9,090	Adjust for prior yr purchase orders, radios

Section 10. That the following budget amendments are hereby authorized to be made in

the City's Parks and Recreation Other Services and Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$808,799	$165,589	$974,388	Budget for prior yr purchase orders, tornado expenses

Section 11. That the following budget amendments are hereby authorized to be made in the City's Municipal Road & Bridge Fund Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$4,672,520	$516,665	$5,189,185	Budget for Landmark Preservation Grant & Water Tower Access Rd.

Section 12. That the following budget amendments are hereby authorized to be made in the City's Mass Transit Fund Personal Services Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$827,011	$114,191	$941,202	Budget for additional bus drivers for new routes

Section 13. That the following budget amendments are hereby authorized to be made in the City's Community Development Block Grant Fund Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$466,194	$468,000	$934,194	Budget additional grant funds

Section 14. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage, but nevertheless to be published according to law.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Councilperson _____, seconded by Councilperson _____, and was adopted by the following, to wit;

YEAS: NAYS:

The President thereby declared the motion carried and the Resolution adopted, this the 21st day of February, 2017.

(S E A L)

ATTEST: ADOPTED:

_____ _____

CLERK OF COUNCIL PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 21st day of February, 2017.

ATTEST: APPROVED:

_____ _____

CITY CLERK MAYOR

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
	Revenues & Beg. Cash Balance:					
	Taxes -Other	$35,000		$35,000		$35,000
	Licenses & Permits	4,448,800		4,448,800		$4,448,800
	Intergovernmental Revenues:					$0
	Federal	767,231		767,231	402,000	$1,169,231
	State	298,257		298,257		$298,257
	State-Shared	22,149,000		22,149,000		$22,149,000
	County/City Shared	58,948		58,948		$58,948
	Charges for Services:					$0
	Public Safety	157,000		157,000	40,000	$197,000
	Streets	1,500		1,500		$1,500
	Sanitation	2,206,000		2,206,000		$2,206,000
	Misc.	0		0		$0
	Fines & Forf.	1,353,200		1,353,200		$1,353,200
	Misc. Revenues	198,900		198,900	70,928	$269,828
	Transfers-In	543,000		543,000		$543,000
	Non-Revenue Receipts	278,912		278,912		$278,912
	TOTAL REVENUES EXCLUSIVE OF			0		$0
	PROPERTY TAXES	$32,495,748	$0	$32,495,748	$512,928	$33,008,676
	Beg. Fund Balance	5,500,000	2,647,959	8,147,959		8,147,959
	Property Tax Levy	14,500,000	0	14,500,000	500,000	15,000,000
	TOTAL AVAIL. REVENUES	**$52,495,748**	**$2,647,959**	**$55,143,707**	**$1,012,928**	**$56,156,635**
	THE GENERAL FUND EXPENDITURE BUDGETS:					
001003	City Council					
	Personnel	$297,046		$297,046		297,046
	Supplies & Expenses	3,400		3,400		3,400
	Other Services & Charges	131,200	290	131,490		131,490
	Capital Outlays	0		0		0
	Total - City Council	$431,646	$290	$431,936	$0	$431,936
001015	City Court					
	Personnel	$1,151,497	$30,850	$1,182,347	$20,732	1,203,079
	Supplies & Expenses	36,400		36,400	7,720	44,120
	Other Services & Charges	301,451	796	302,247		302,247
	Capital Outlays	0		0		0
	Total - City Court	$1,489,348	$31,646	$1,520,994	$28,452	$1,549,446

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001020	Mayor/Admin.					
	Personnel	$602,613		$602,613		602,613
	Supplies & Expenses	16,400	445	16,845	200	17,045
	Other Services & Charges	117,200	2,045	119,245	200	119,445
	Capital Outlays	3,700	1,696	5,396		5,396
	Total - Mayor/Admin.	$739,913	$4,186	$744,099	$400	$744,499
001030	Elections					
	Personnel	$0		$0		$0
	Supplies & Expenses	3,200		3,200		3,200
	Other Services & Charges	64,000		64,000		64,000
	Capital Outlays	0		0		0
	Total - Elections	$67,200	$0	$67,200	$0	$67,200
001040	Muni. Clerk					
	Personnel	$155,500		$155,500		$155,500
	Supplies & Expenses	900	3,000	3,900		3,900
	Other Services & Charges	31,275		31,275		31,275
	Capital Outlays	0		0		0
	Total - Muni Clerk	$187,675	$3,000	$190,675	$0	$190,675
001042	Accounting					
	Personnel	$245,800	$46,300	$292,100		$292,100
	Supplies & Expenses	5,705		5,705	3,300	9,005
	Other Services & Charges	3,430	300	3,730		3,730
	Capital Outlays	0		0		0
	Total - Accounting	$254,935	$46,600	$301,535	$3,300	$304,835
001045	Purchasing					
	Personnel	$147,144		$147,144		$147,144
	Supplies & Expenses	7,500	304	7,804	2,000	9,804
	Other Services & Charges	5,780		5,780		5,780
	Capital Outlays			0		0
	Total - Purchasing	$160,424	$304	$160,728	$2,000	$162,728
001060	City Attorney					
	Personnel	$101,876		$101,876		$101,876
	Supplies & Expenses	0		0		0
	Other Services & Charges	9,100		9,100		9,100
	Capital Outlays	0		0		0
	Total - City Attorney	$110,976	$0	$110,976	$0	$110,976

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001080	Human Resources					
	Personnel	$184,045		$184,045		$184,045
	Supplies & Expenses	8,900		8,900		8,900
	Other Services & Charges	20,520		20,520		20,520
	Capital Outlays	0		0		0
	Total - Human Resources	$213,465	$0	$213,465	$0	$213,465
001081	Loss Control					
	Personnel	$111,619		$111,619		$111,619
	Supplies & Expenses	6,690	248	6,938		6,938
	Other Services & Charges	2,860		2,860		2,860
	Capital Outlays	0		0		0
	Total - Loss Control	$121,169	$248	$121,417	$0	$121,417
001090	Urban Development					
	Personnel	$597,800		$597,800		$597,800
	Supplies & Expenses	28,150	252	28,402		28,402
	Other Services & Charges	69,050		69,050		69,050
	Capital Outlays	0		0		0
	Total - Urban Dev.	$695,000	$252	$695,252	$0	$695,252
001091	Information Systems					
	Personnel	$385,122		$385,122		$385,122
	Supplies & Expenses	57,600		57,600		57,600
	Other Services & Charges	527,200		527,200		527,200
	Capital Outlays	325,000		325,000		325,000
	Total - Inf. Systems	$1,294,922	$0	$1,294,922	$0	$1,294,922
001092	Gen. Gov't Building					
	Personnel			$0		$0
	Supplies & Expenses	24,160	225	24,385		24,385
	Other Services & Charges	151,150	61,184	212,334	30,000	242,334
	Capital Outlays	0	44,889	44,889	70,000	114,889
	Total - Gen. Gov't Building	$175,310	$106,298	$281,608	$100,000	$381,608
001093	Intermodal Facility (Depot) O & M:					
	Personnel	$0		$0		$0
	Supplies & Expenses	8,750		8,750		8,750
	Other Services & Charges	77,250	16,927	94,177		94,177
	Capital Outlays	0	100,000	100,000		100,000
	Total - Depot O & M	$86,000	$116,927	$202,927	$0	$202,927

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001094	Metro Planning					
	Personnel	$255,470		$255,470		$255,470
	Supplies & Expenses	9,300	525	9,825	6,000	15,825
	Other Services & Charges	74,500		74,500	30,100	104,600
	Capital Outlays	0	8,044	8,044		8,044
	Total - Metro Planning	$339,270	$8,569	$347,839	$36,100	$383,939
001095	Gen. Gov't Insurance/Other serv.					
	Personnel	$1,000		$1,000		$1,000
	Supplies & Expenses	1,200		1,200		1,200
	Other Services & Charges	2,950,660	34,500	2,985,160		2,985,160
	Capital Outlays			0		0
	Total - Gen. Gov't Insur/other Serv.	$2,952,860	$34,500	$2,987,360	$0	$2,987,360
001096	Federal Programs Administration					
	Personnel	$255,040		255,040		255,040
	Supplies	6,200	$1,639	7,839	$25,000	32,839
	Other Services & Charges	23,250		23,250	$47,250	70,500
	Capital Outlay	0		0		0
	Total - Federal Programs Admin.	$284,490	$1,639	$286,129	$72,250	$358,379
	Recap - General Government Cost Centers					
	Personnel	***$4,491,572***	***$77,150***	***$4,568,722***	***$20,732***	***$4,589,454***
	Supplies & Expenses	***$224,455***	***$6,638***	***$231,093***	***$44,220***	***$275,313***
	Other Services & Charges	***$4,559,876***	***$116,042***	***$4,675,918***	***$107,550***	***$4,783,468***
	Capital Outlays	***$328,700***	***$154,629***	***$483,329***	***$70,000***	***$553,329***
	Total - Gen. Government	***$9,604,603***	***$354,459***	***$9,959,062***	***$242,502***	***$10,201,564***
001100	Police					
	Personnel	$10,626,690	$114,390	$10,741,080	-$20,732	$10,720,348
	Supplies & Expenses	487,536	12,841	500,377	18,060	518,437
	Other Services & Charges	397,311	1,179	398,490	13,200	411,690
	Capital Outlays	169,250	297,894	467,144	123,000	590,144
	Total - Police	$11,680,787	$426,304	$12,107,091	$133,528	$12,240,619
001131	Police & Fire Training					
	Personnel	$36,897		$36,897		$36,897
	Supplies & Expenses	111,225	$3,507	114,732		114,732
	Other Services & Charges	93,925	111	94,036	45	94,081
	Capital Outlays	0	0	0		0
	Total - Police & Fire Training	$242,047	$3,618	$245,665	$45	$245,710

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001160	Fire					
	Personnel	$7,357,796		$7,357,796		$7,357,796
	Supplies & Expenses	308,661		308,661	2,050	310,711
	Other Services & Charges	296,547	10,038	306,585		306,585
	Capital Outlays	0		0	110,900	110,900
	Total - Fire Dept.	$7,963,004	$10,038	$7,973,042	$112,950	$8,085,992
001180	Code Enforcement					
	Personnel	$602,464		$602,464	$61,557	$664,021
	Supplies & Expenses	28,906	1,033	29,939		29,939
	Other Services & Charges	110,145	51,050	161,195		161,195
	Capital Outlays	0		0		0
	Total - Code Enforcement	$741,515	$52,083	$793,598	$61,557	$855,155
001190	Contractual Services - Public Safety					
	Personnel	$221,800		$221,800		$221,800
	Supplies & Expenses	0		0		0
	Other Services & Charges	1,301,000		1,301,000		1,301,000
	Capital Outlays			0		0
	Total - Cont. Serv. - Public Safety	$1,522,800	$0	$1,522,800	$0	$1,522,800
	Public Services Cost Centers:					
001191	Traffic Maint.					
	Personnel	$403,260		$403,260		$403,260
	Supplies & Expenses	142,070	141	142,211		142,211
	Other Services & Charges	47,400		47,400		47,400
	Capital Outlays	0		0		0
	Total - Traffic Maint.	$592,730	$141	$592,871	$0	$592,871
001201	Streets					
	Personnel	$1,831,973		$1,831,973		$1,831,973
	Supplies & Expenses	481,063	334	481,397	60,000	541,397
	Other Services & Charges	171,800	601,860	773,660	250,000	1,023,660
	Capital Outlays	0		0		0
	Total - Streets	$2,484,836	$602,194	$3,087,030	$310,000	$3,397,030

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001202 Street Lights					
Personnel			$0		$0
Supplies & Expenses			0		0
Other Services & Charges	1,170,000		1,170,000		1,170,000
Capital Outlays	0		0		0
Total - Street Lights	$1,170,000	$0	$1,170,000	$0	$1,170,000
001203 Engineering					
Personnel	$389,492		$389,492		$389,492
Supplies & Expenses	11,025		11,025		11,025
Other Services & Charges	303,374		303,374	37,000	340,374
Capital Outlays	0		0		0
Total - Engineering	$703,891	$0	$703,891	$37,000	$740,891
001204 Shop					
Personnel	$518,497		$518,497		$518,497
Supplies & Expenses	45,800	45	45,845		45,845
Other Services & Charges	44,000		44,000		44,000
Capital Outlays	0		0		0
Total - Shop	$608,297	$45	$608,342	$0	$608,342
001205 GOFS					
Personnel	$275,404		$275,404		$275,404
Supplies & Expenses	10,100		10,100		10,100
Other Services & Charges	16,500		16,500		16,500
Capital Outlays	0		0		0
Total - GOFS	$302,004	$0	$302,004	$0	$302,004
001206 Drainage					
Personnel	$169,902		$169,902		$169,902
Supplies & Expenses	61,750	2,050	63,800		63,800
Other Services & Charges	231,300		231,300		231,300
Capital Outlays	0		0		0
Total - Drainage	$462,952	$2,050	$465,002	$0	$465,002

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001207	Construction					
	Personnel	$695,671		$695,671		$695,671
	Supplies & Expenses	147,500		147,500	100	147,600
	Other Services & Charges	71,432	13,000	84,432		84,432
	Capital Outlays	0		0		0
	Total - Construction	$914,603	$13,000	$927,603	$100	$927,703
001220	Sanitation					
	Personnel	$1,545,756		1,545,756		$1,545,756
	Supplies & Expenses	291,696		291,696		291,696
	Other Services & Charges	958,750		958,750		958,750
	Capital Outlays	0		0		0
	Total - Sanitation	$2,796,202	$0	$2,796,202	$0	$2,796,202
001221	Street Cleaning					
	Personnel	$83,902		$83,902		$83,902
	Supplies & Expenses	19,200		19,200		19,200
	Other Services & Charges	2,600		2,600		2,600
	Capital Outlays	0		0		0
	Total - Street Cleaning	$105,702	$0	$105,702	$0	$105,702
001250	Health					
	Personnel	$482,203		$482,203		$482,203
	Supplies & Expenses	167,550		167,550		167,550
	Other Services & Charges	8,700		8,700		8,700
	Capital Outlays	0		0		0
	Total - Health	$658,453	$0	$658,453	$0	$658,453
	Recap - Public Services:					
	Personnel	***$6,396,060***	***$0***	***$6,396,060***	***$0***	***$6,396,060***
	Supplies & Expenses	***$1,377,754***	***2,570***	***1,380,324***	***60,100***	***1,440,424***
	Other Services & Charges	***$3,025,856***	***614,860***	***3,640,716***	***287,000***	***3,927,716***
	Capital Outlays	***$0***	***0***	***0***	***0***	***0***
	Total - Public Services	***$10,799,670***	***$617,430***	***$11,417,100***	***$347,100***	***$11,764,200***
001260	Animal Control					
	Personnel	$156,094		$156,094		$156,094
	Supplies & Expenses	14,800		14,800		14,800
	Other Services & Charges	126,685		126,685		126,685
	Capital Outlays	0		0		0
	Total - Animal Control	$297,579	$0	$297,579	$0	$297,579

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

		Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
001280	Human/Social Assist.					
	Personnel			$0		$0
	Supplies & Expenses			0		0
	Other Services & Charges	199,500	25,000	224,500	25,380	249,880
	Capital Outlays			0		0
	Total - Human/Social Assist.	$199,500	$25,000	$224,500	$25,380	$249,880
001402	Economic Dev.					
	Personnel			$0		$0
	Supplies & Expenses			0		0
	Other Services & Charges	230,000		230,000		230,000
	Capital Outlays			0		0
	Total - Economic Dev.	$230,000	$0	$230,000	$0	$230,000
001460	Debt Service					
	Principal	$590,650		$590,650	$3,000	$593,650
	Interest	386,874		$386,874		$386,874
	Total Debt Service	$977,524	$0	$977,524	$3,000	$980,524
001551	Airport					
	Personnel	$79,563		$79,563		$79,563
	Supplies & Expenses	38,200		38,200		38,200
	Other Services & Charges	85,958		85,958		85,958
	Capital Outlays	0		0		0
	Total - Airport	$203,721	$0	$203,721	$0	$203,721
001553	Cemetery					
	Personnel	$756,881		$756,881		$756,881
	Supplies & Expenses	83,700		83,700	1,250	84,950
	Other Services & Charges	49,351		49,351		49,351
	Capital Outlays	0		0	1,000	1,000
	Total - Cemetery	$889,932	$0	$889,932	$2,250	$892,182
001560	Parking Garages					
	Personnel	$234,680		$234,680		$234,680
	Supplies & Expenses	7,170	420	7,590	1,500	9,090
	Other Services & Charges	70,350		70,350		70,350
	Capital Outlays	0		0		0
	Total - Parking Garages	$312,200	$420	$312,620	$1,500	$314,120

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Transfers to Other Funds	$3,460,000		$3,460,000		$3,460,000
EXPENDITURES & TRANSFERS	**$49,124,882**	**$1,489,352**	**$50,614,234**	**$929,812**	**$51,544,046**
Recap - General Fund					
Personnel	*$30,960,497*	*$191,540*	*$31,152,037*	*$61,557*	*$31,213,594*
Supplies & Expenses	*2,682,407*	*27,009*	*2,709,416*	*127,180*	*2,836,596*
Other Services & Charges	*10,546,504*	*818,280*	*11,364,784*	*433,175*	*11,797,959*
Capital Outlays	*497,950*	*452,523*	*950,473*	*304,900*	*1,255,373*
Principal Payments	*590,650*	*0*	*590,650*	*3,000*	*593,650*
Interest Payments	*386,874*	*0*	*386,874*	*0*	*386,874*
Total - Gen. Fund Cost Centers	*$45,664,882*	*$1,489,352*	*$47,154,234*	*$929,812*	*$48,084,046*
Transfers to Other Funds	*3,460,000*	*0*	*3,460,000*	*0*	*3,460,000*
Total - Expenditures & Transfers	*$49,124,882*	*$1,489,352*	*$50,614,234*	*$929,812*	*$51,544,046*
Ending Cash Budget	**$3,370,866**	**$1,158,607**	**$4,529,473**	**$83,116**	**$4,612,589**
Ending Fund Balance Exclusive of Hercules Settlement			$1,529,473		
ADMINISTRATIVE	$9,604,603		$9,959,062		$10,201,564
POLICE & ACADEMY	$11,922,834		$12,352,756		$12,486,329
FIRE	$7,963,004		$7,973,042		$8,085,992
CODE ENFORCEMENT	$741,515		$793,598		$855,155
PUBLIC WORKS	$10,799,670		$11,417,100		$11,764,200
DEBT SERVICE	$977,524		$977,524		$980,524
OTHER	$3,655,732		$3,681,152		$3,710,282
TRANSFERS	$3,460,000		$3,460,000		$3,460,000
PERSONNEL	$30,960,497		$31,152,037		$31,213,594
SUPPLIES	$2,682,407		$2,709,416		$2,836,596
OTHER SERVICES & CHARGES	$10,546,504		$11,364,784		$11,797,959
CAPITAL OUTLAY	$497,950		$950,473		$1,255,373
DEBT SERVICE	$977,524		$977,524		$980,524
TRANSFERS	$3,460,000		$3,460,000		$3,460,000

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Parks & Recreation (Fund #2):					
Recreation Maint. Cost Center (002300)					
Personnel	$1,333,998		$1,333,998		$1,333,998
Supplies & Expenses	366,200	13,015	379,215	10,000	389,215
Other Services & Charges	345,005	60,981	405,986	100,000	505,986
Capital Outlays	0	61,543	61,543	55,207	116,750
Total - Recreation Maint.	$2,045,203	$135,539	$2,180,742	$165,207	$2,345,949
Recreation Admin. (002315)					
Personnel	$486,934		$486,934		$486,934
Supplies & Expenses	88,672	2,315	90,987		90,987
Other Services & Charges	463,794	4,608	468,402		468,402
Capital Outlays	0	46,998	46,998		46,998
Total - Recreation Admin.	$1,039,400	$53,921	$1,093,321	$0	$1,093,321
Kamper Park Zoo					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays	0		0		0
Total - Kamper Park	$0	$0	$0	$0	$0
Recap - Parks & Recreation Fund:					
Personnel	***$1,820,932***	***$0***	***$1,820,932***	***$0***	***$1,820,932***
Supplies & Expenses	***454,872***	***15,330***	***470,202***	***10,000***	***480,202***
Other Services & Charges	***808,799***	***65,589***	***874,388***	***100,000***	***974,388***
Capital Outlays	***0***	***108,541***	***108,541***	***55,207***	***163,748***
Total - Recreation Maint.	***$3,084,603***	***$189,460***	***$3,274,063***	***$165,207***	***$3,439,270***
Municipal Fire Protection (Fund #5):					
Personnel	$0		$0		$0
Supplies & Expenses	69,386		69,386		69,386
Other Services & Charges	26,970		26,970		26,970
Capital Outlays	179,000	4,535	183,535		183,535
Principal Payments	353,057		353,057		353,057
Interest Payments	15,569		15,569		15,569
Total - Municipal Fire Prot. Fund	***$643,982***	***$4,535***	***$648,517***	***$0***	***$648,517***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Special Streets (Fund #8):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	60,925	118,365	179,290		179,290
Capital Outlays	0		0		0
Total - Special Streets	***$60,925***	***$118,365***	***$179,290***	***$0***	***$179,290***
Water & Sewer Operation & Maint. (Fund #9):					
Customer Accounts Cost Center					
Personnel	$462,123		$462,123		$462,123
Supplies & Expenses	36,300	297	36,597		36,597
Other Services & Charges	141,200	75	141,275		141,275
Capital Outlays	0		0		0
Total - Customer Accounts	$639,623	$372	$639,995	$0	$639,995
Water Transmission Cost Center					
Personnel	$812,656		$812,656		$812,656
Supplies & Expenses	240,776	1,245	242,021	5,000	247,021
Other Services & Charges	776,000	10,994	786,994	5,000	791,994
Capital Outlays	0		0		0
Total - Water Trans.	$1,829,432	$12,239	$1,841,671	$10,000	$1,851,671
Plant Cost Center					
Personnel	$633,558		$633,558		$633,558
Supplies & Expenses	132,400	1,200	133,600	15,000	148,600
Other Services & Charges	1,062,899	44,056	1,106,955	235,000	1,341,955
Capital Outlays	0	156,000	156,000		156,000
Total - Plant	$1,828,857	$201,256	$2,030,113	$250,000	$2,280,113
Sewer Cost Center					
Personnel	$768,045		$768,045		$768,045
Supplies & Expenses	307,100		307,100		307,100
Other Services & Charges	1,332,660		1,332,660	4,000	1,336,660
Capital Outlays	0		0		0
Total - Water Trans.	$2,407,805	$0	$2,407,805	$4,000	$2,411,805
Lagoon Cost Center					
Personnel	$297,156		$297,156		$297,156
Supplies & Expenses	372,100	623	372,723		372,723
Other Services & Charges	1,773,820	30,825	1,804,645	6,000	1,810,645
Capital Outlays	12,000		12,000		12,000
Principal Payments	0		0		0
Interest Payments	0		0		0
Total - Lagoon Cost Center	$2,455,076	$31,448	$2,486,524	$6,000	$2,492,524

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Recap: Water & Sewer O & M Fund:					
Personnel	***$2,973,538***	***$0***	***$2,973,538***	***$0***	***$2,973,538***
Supplies & Expenses	***1,088,676***	***3,365***	***1,092,041***	***20,000***	***1,112,041***
Other Services & Charges	***5,086,579***	***85,950***	***5,172,529***	***250,000***	***5,422,529***
Capital Outlays	***12,000***	***156,000***	***168,000***	***0***	***168,000***
Principal Payments	***0***	***0***	***0***	***0***	***0***
Interest Payments	***0***	***0***	***0***	***0***	***0***
Total - Water & Sewer O & M Fund	***$9,160,793***	***$245,315***	***$9,406,108***	***$270,000***	***$9,676,108***
Water & Sewer Bond & Int. (Fund #10):					
Principal Payments	$4,805,000		$4,805,000		$4,805,000
Interest Payments	$2,595,800		$2,595,800		$2,595,800
Paying Agent Fees	$13,000		$13,000		$13,000
Total - W & S Bond & Int. Fund	***$7,413,800***	***$0***	***$7,413,800***	***$0***	***$7,413,800***
Water & Sewer Revenue (Fund #11):					
Principal Payments	$173,772		$173,772		$173,772
Interest Payments	8,763		8,763		8,763
other services & charges	29,900		29,900		29,900
Transfers to other funds	19,031,000		19,031,000		19,031,000
Total - W & S Revenue Fund	***$19,243,435***	***$0***	***$19,243,435***	***$0***	***$19,243,435***
1999 Tax Increment (Walmart) Bond & Int (Fund #12):					
Principal Payments	$0		$0		$0
Interest Payments	0		0		0
Paying Agent Fees	0		0		0
Total - 1999 TIF Bond & Int Fund	***$0***	***0***	***$0***	***0***	***$0***
City Bond & Interest (Fund #13):					
Principal Payments	$1,935,000		$1,935,000		$1,935,000
Interest Payments	273,200		273,200		273,200
Other Services & Charges	39,000		39,000		39,000
Paying Agent Fees	15,000		15,000		15,000
Total - 1999 TIF Bond & Int Fund	***$2,262,200***	***$0***	***$2,262,200***	***$0***	***$2,262,200***
USA Yeast Bond & Interest (Fund #15):					
Principal Payments	$0	$0	$0		$0
Interest Payments	0	0	0		0
Transfers Out	0	0	0		0
other services & charges	0		0		0
Total - 1999 TIF Bond & Int Fund	***$0***	***0***	***$0***	***0***	***0***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Police Fines & Forfeitures (Fund #19):					
Personnel	$0		$0		$0
Supplies & Expenses	37,000	4,441	41,441		41,441
Other Services & Charges	26,600		26,600		26,600
Capital Outlays	100,000	8,917	108,917		108,917
Transfers	0		0		0
Total - Fines & Forf. Fund	***$163,600***	***$13,358***	***$176,958***	***$0***	***$176,958***
Series 2002 TIF Bond & Int (Southern Pointe, Fund #20):					
Principal Payments	$135,000		$135,000		$135,000
Interest Payments	110,702		110,702		110,702
other services & charges	2,000		2,000		2,000
Total - 1999 TIF Bond & Int Fund	***$247,702***	***0***	***$247,702***	***0***	***$247,702***
Series 2004 TIF Bond & Int (Home Depot, Fund #21):					
Principal Payments	$0		$0		$0
Interest Payments	0		0		0
other services & charges	0		0		0
Total - 2004 TIF Bond & Int Fund	***$0***	***0***	***$0***	***0***	***$0***
Series 2003 TIF Bond & Int (Chauvet Sq., Fund #22):					
Principal Payments	$115,000		$115,000		$115,000
Interest Payments	77,318		77,318		77,318
other services & charges	2,000		2,000		2,000
Transfers to other Funds	0		0		0
Total - 2003 TIF Bond & Int Fund	***$194,318***	***$0***	***$194,318***	***$0***	***$194,318***
Series 2007 TIFBond & Int (Turtle Creek Fund 23):					
Principal Payments	355,000		355,000		355,000
Interest Payments	92,283		92,283		92,283
Other Services & Charges	3,500		3,500		3,500
Total - 2007 TIF Bond & Int Fund	***$450,783***		***$450,783***		***$450,783***
Series 2008 TIF Bond & Int (Lincoln Center Fund 24):					
Principal Payments	$40,000		40,000		40,000
Interest Payments	$13,200		13,200		13,200
Other Services & Charges	$1,000		1,000		1,000
Total - 2008 TIF Bond & Int Fund	***$54,200***	***$0***	***$54,200***	***$0***	***$54,200***
Series 2011 TIF Bond & Int (Turtle Creek Commons/Kohl's Fund 25):					
Principal Payments	$70,000		70,000		70,000
Interest Payments	$19,500		19,500		19,500
Other Services & Charges	$2,000		2,000		2,000
Total - 2008 TIF Bond & Int Fund	***$91,500***	***$0***	***$91,500***	***$0***	***$91,500***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Airport Imp. (Fund #39):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges			0		0
Capital Outlays	1,380,000		1,380,000		1,380,000
Total - Airport Imp. Fund	***$1,380,000***	***$0***	***$1,380,000***	***$0***	***$1,380,000***
Series 2015A & Series 2015B TIF Bond & Int (The Ridge at Turtle Creek and Midtown Market) (Fund #50)					
Principal Payments	70000		70,000		70,000
Interest Payments	77000		77,000		77,000
Paying Agent Fees	2000		2,000		2,000
Other Services & Charges	0		0		0
Total - 2007 G.O.Refunding	**149000**	**0**	**149,000**		**149,000**
Municipal Road & Bridge (Fund #72):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	875,000	880,406	1,755,406		1,755,406
Capital Outlays	4,672,520		4,672,520	516,665	5,189,185
Principal	0		0		0
Interest	0		0		0
Total - Municipal Road & Bridge	***$5,547,520***	***$880,406***	***$6,427,926***	***$516,665***	***$6,944,591***
Mass Transit (Fund #73):					
Personnel	$827,011	$18,056	$845,067	$96,135	$941,202
Supplies & Expenses	214,300	1,200	215,500		215,500
Other Services & Charges	517,350	35,704	553,054		553,054
Capital Outlays	386,318	0	386,318		386,318
Total - Mass Transit Fund	***$1,944,979***	***$54,960***	***$1,999,939***	***$96,135***	***$2,096,074***
Water & Sewer Construction (Fund #75):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	400,100		400,100		400,100
Capital Outlays	2,250,000		2,250,000		2,250,000
Total - W & S Construction Fund	***$2,650,100***	***$0***	***$2,650,100***	***$0***	***$2,650,100***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Community Centers (Fund #77):					
Personnel	$551,678		$551,678		$551,678
Supplies & Expenses	67,050		67,050		67,050
Other Services & Charges	175,010		175,010		175,010
Capital Outlays	0	5,400	5,400		5,400
Total - Community Centers Fund	***$793,738***	***$5,400***	***$799,138***	***$0***	***$799,138***
Community Dev. Block Grant (Fund #82):					
Personnel	$168,760		$168,760		$168,760
Supplies & Expenses	5,600		5,600		5,600
Other Services & Charges	106,017		106,017		106,017
Capital Outlays	466,194		466,194	468,000	934,194
Transfers	0		0		0
Total - CDBG Fund	***$746,571***	***$0***	***$746,571***	***$468,000***	***$1,214,571***
Series 2009 G.O. Bonds - AMR Project (Fund #78)					
Supplies	***$0***		0		0
Other Services & Charges	$0		0		0
Transfers Out	$0		0		0
Capital Outlay	0		0		0
Total - Series 2009 G.O. Bonds	***$0***	***$0***	***$0***	***$0***	***$0***
Public Safety/Recreation Construction (Fund #88):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	2,800,000		2,800,000		2,800,000
Capital Outlays	22,200,000		22,200,000		22,200,000
Transfers to other Funds	0		0		0
Total - Series 2002 Const. Fund	***$25,000,000***	***$0***	***$25,000,000***	***$0***	***$25,000,000***
MDA Energy Efficiency Capital Projects (Fund 89):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	3,000		3,000		3,000
Capital Outlays	2,172,000	263,738	2,435,738		2,435,738
Transfers	0		0		0
Total - Series 2004 Const. Fund	***$2,175,000***	***$263,738***	***$2,438,738***	***$0***	***$2,438,738***
Series 2008 G.O. Note (Downtown Lighting)(Fund # 90):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays			0		0
Transfers	0		0		0
Total - Series 2004 Const. Fund	***$0***	***$0***	***$0***	***$0***	***$0***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
TIF Construction (Fund # 91):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays	0		0		0
Transfers	0		0		0
Total - Series 2004 Const. Fund	***$0***	***$0***	***$0***	***$0***	***$0***
Series 2001 G.O. Bond Construction (Fund # 95):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays	173		173		173
Transfers	0		0		0
Total - Series 2001 Const. Fund	***$173***	***$0***	***$173***	***$0***	***$173***
Mississippi Dev. Bank Construction (Fund # 96):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Transfers			0		0
Capital Outlays	0		0		0
Total - MDB Fund	***$0***	***$0***	***$0***	***$0***	***$0***
Kamper Park Imp. (Fund #98):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays	2,238		2,238		2,238
Total - Kamper Park Imp. Fund	***$2,238***	***$0***	***$2,238***	***$0***	***$2,238***
Series 2010 Water & Sewer G.O. Constr. (Fund #99):					
Personnel					
Supplies & Expenses					
Other Services & Charges			0		0
Capital Outlay	$0		0		0
Transfers out	$0		0		$0
Total - Series 2010 Constr.	***$0***	***$0***	***$0***	***$0***	***$0***

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2017

	Original FY 2017 Budgets	Oct/Nov Amend'ts	Amended Budgets	Jan/Feb Amend'ts	Proposed Amended Budgets
Series 2013 Water & Sewer Revenue Constr. (Fund #105):					
Personnel			0		0
Supplies & Expenses			0		0
Other Services & Charges	$0	$740,672	740,672		740,672
Capital Outlay	$750,000	$596,110	1,346,110		1,346,110
Transfers			0		0
Total - Series 2013 Constr.	***$750,000***	***$1,336,782***	***$2,086,782***	***$0***	***$2,086,782***
Series 2016 Water & Sewer Taxable Bonds Constr. (Fund #):					
Personnel			0		0
Supplies & Expenses			0		0
Other Services & Charges	$0	$1,314,000	1,314,000		1,314,000
Capital Outlay	$0	$23,686,000	23,686,000		23,686,000
Transfers		$0	0		0
Total - Series 2016 Constr.	***$0***	***$25,000,000***	***$25,000,000***	***$0***	***$25,000,000***
Series 2012 Water & Sewer Const. (Fund #94):					
Personnel	$0		$0		$0
Supplies & Expenses	0		0		0
Other Services & Charges	0		0		0
Capital Outlays	21,244		21,244		21,244
Transfers Out	0		0		0
Total - Series 2012 Const.	***$21,244***	***$0***	***$21,244***	***$0***	***$21,244***
GRAND TOTAL - FUNDS OTHER THAN THE GENERAL FUND	**$84,232,404**	**$28,112,319**	**$87,344,723**	**$1,516,007**	**$88,860,730**
General Fund	**$49,124,882**	**$1,489,352**	**$50,614,234**	**$929,812**	**$51,544,046**
TOTAL EXPENDITURES & TRANSFERS	**$133,357,286**	**$29,601,671**	**$137,958,957**	**$2,445,819**	**$140,404,776**
Less: Interfund Transfers	**-22,491,000**	**0**	**-22,491,000**	**0**	**-22,491,000**
TOTAL EXPENDITURES	**$110,866,286**	**$29,601,671**	**$115,467,957**	**$2,445,819**	**$117,913,776**
Recap of City-Wide Expenditure Budgets:					
Personnel	***$37,302,416***	***$209,596***	***$37,512,012***	***$157,692***	***$37,669,704***
Supplies & Expenses	***$4,619,291***	***$51,345***	***$4,670,636***	***$157,180***	***$4,827,816***
Other Services & Charges	***$21,542,254***	***$4,058,966***	***$25,601,220***	***$783,175***	***$26,384,395***
Capital Outlays	***$35,089,637***	***$25,281,764***	***$60,371,401***	***$1,344,772***	***$61,716,173***
Principal Payments	***8,642,479***	***0***	***8,642,479***	***3,000***	***8,645,479***
Interest Payments	***3,670,209***	***0***	***3,670,209***	***0***	***3,670,209***
Total Expenditure Budgets	***$110,866,286***	***$29,601,671***	***$140,467,957***	***$2,445,819***	***$142,913,776***

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

GENERAL FUND:

REVENUES & BEG. CASH:

Taxes - Other	$35,000
Licenses & Permits	4,448,800
Inter-governmental Revenues:	
Federal Grants	1,169,231
State Grants	298,257
State-Shared Revenues	22,149,000
County Shared Revenues	58,948
Charges for Services:	
Public safety	197,000
Streets	1,500
Sanitation	2,206,000
Misc.	0
Fines & Forfeits	1,353,200
Miscellaneous	269,828
Transfers-In	543,000
Non-Revenue Receipts	278,912
Total From All Sources Other Than taxation	33,008,676
Beginning Cash and Investment Balance	8,147,959
Amount to be Raised by Tax Levy	15,000,000
TOTAL FROM ALL SOURCES	**$56,156,635**

EXPENDITURES & ENDING CASH:

General Government:	
Personnel	4,589,454
Supplies & Expenses	275,313
Other services & Charges	4,783,468
Capital Outlays	553,329
Total - General Government	10,201,564
Police Dept.:	
Personnel	10,720,348
Supplies & Expenses	518,437
Other services & Charges	411,690
Capital Outlays	590,144
Total - Police Dept.	12,240,619

Police & Fire Training:	
Personnel	36,897
Supplies & Expenses	114,732
Other services & Charges	94,081
Capital Outlays	0
Total - Police & Fire Training	245,710
Fire Dept.:	
Personnel	7,357,796
Supplies & Expenses	310,711
Other services & Charges	306,585
Capital Outlays	110,900
Total - Fire Dept.	8,085,992
Land Development Administration:	
Personnel	664,021
Supplies & Expenses	29,939
Other services & Charges	161,195
Capital Outlays	0
Total - Land Dev. Admin.	855,155
Public Safety Contractual Services:	
Personnel	221,800
Other services & Charges	1,301,000
Total - Pub. Safety Cont. Serv.	1,522,800
Public Services:	
Personnel	6,396,060
Supplies & Expenses	1,440,424
Other services & Charges	3,927,716
Capital Outlays	0
Total - Public Services	11,764,200
Animal Control	
Personnel	156,094
Supplies & Expenses	14,800
Other services & Charges	126,685
Capital Outlays	0
Total - Animal Control	297,579

Human/Social	
Other services & Charges	249,880
Total - Human/Social	249,880
Economic Development	
Personnel	
Supplies & Expenses	
Other services & Charges	230,000
Capital Outlays	0
Total - Eco. Dev.	230,000
Debt Service:	
Prinicpal Payments	593,650
Interest Payments	386,874
Total - Debt service	980,524
Airport	
Personnel	79,563
Supplies & Expenses	38,200
Other services & Charges	85,958
Capital Outlays	0
Total - Airport	203,721
Cemetery	
Personnel	756,881
Supplies & Expenses	84,950
Other services & Charges	49,351
Capital Outlays	1,000
Total - Cemetery	892,182
Parking Garages	
Personnel	234,680
Supplies & Expenses	9,090
Other services & Charges	70,350
Capital Outlays	0
Total - Parking Garages	314,120
Operating Transfers Out	3,460,000
Total Expenditures & Transfers	**51,544,046**
Ending Cash Balance	**$4,612,589**
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$56,156,635**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

PARKS & RECREATION FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$132,585
State Grants	
County Shared Revenues	0
Misc. grants	
Charges for Services:	
Culture & Recreation	30,340
Miscellaneous	51,430
Transfers-In	2,270,000
Non-Revenue Receipts	
Total From All Sources	
Other Than taxation	2,484,355
Beginning Cash and	
Investment Balance	621,460
Amount to be Raised by Tax Levy	848,791
TOTAL FROM ALL SOURCES	**$3,954,606**

EXPENDITURES & ENDING CASH:

Culture & Recreation:	
Personnel	1,820,932
Supplies & Expenses	480,202
Other services & Charges	974,388
Capital Outlays	163,748
Total Expenditures	$3,439,270
Cash balance at End of Year	515,336
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$3,954,606**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

WATER & SEWER OPERATION
AND MAINTENANCE FUND:

REVENUES & BEG. CASH:	
Charges for Services	$25,000
Transfers-In	8,900,000
Miscellaneous	2,500
Non-Revenue Receipts	250,000
Total From All Sources	
Other Than taxation	9,177,500
Beginning Cash and	
Investment Balance	1,668,849
TOTAL FROM ALL SOURCES	**$10,846,349**
EXPENDITURES & ENDING CASH:	
Personnel	2,973,538
Supplies & Expenses	1,112,041
Other services & Charges	5,422,529
Capital Outlays	168,000
Lease Debt Service - Principal	0
Lease Debt Service - Interest	0
Total Expenditures	$9,676,108
Cash balance at End of Year	1,170,241
TOTAL EXPENDITURES AND	
ENDING CASH BALANCE	**$10,846,349**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

MUNICIPAL ROAD & BRIDGE
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
State Grants	$3,255,015
Federal Grants	0
County Shared Revenues	1,800,000
Miscellaneous	36,264
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	5,091,279
Beginning Cash and Investment Balance	2,411,381
TOTAL FROM ALL SOURCES	**$7,502,660**

EXPENDITURES & ENDING CASH:

Public Services:	
Supplies & Expenses	0
Other services & Charges	1,755,406
Capital Outlays	5,189,185
Principal Payments	0
Interest Payments	0
Total Expenditures	**$6,944,591**
Cash balance at End of Year	558,069
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$7,502,660**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

MASS TRANSIT OPERATING
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:	
Inter-governmental Revenues:	
Federal Grants	$1,367,519
State Grants	$0
Miscellaneous	48,100
Transfers-In	230,000
Total From All Sources Other Than taxation	1,645,619
Beginning Cash and Investment Balance	330,519
Amount to be Raised by Tax Levy	213,814
TOTAL FROM ALL SOURCES	**$2,189,952**
EXPENDITURES & ENDING CASH:	
Personnel	941,202
Supplies & Expenses	215,500
Other services & Charges	553,054
Capital Outlays	386,318
Total Expenditures	$2,096,074
Cash balance at End of Year	93,878
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$2,189,952**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2017

COMMUNITY DEVELOPMENT BLOCK GRANT
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Federal Grants	$1,535,919
Transfers In	0
Total From All Sources Other Than taxation	1,535,919
Beginning Cash and Investment Balance	(205,504)
TOTAL FROM ALL SOURCES	**$1,330,415**

EXPENDITURES & ENDING CASH:

Personnel	168,760
Supplies & Expenses	5,600
Other services & Charges	106,017
Capital Outlays	466,194
Transfers	
Total Expenditures	$746,571
Cash balance at End of Year	583,844
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$1,330,415**

MEMORANDUM

To: ***Mayor DuPree; Members of City Council***
From: ***Sharon Waits, CFO***
Date: ***February 21, 2017***
Subject: Proposed Budget Amendments

The budget amendments detailed below are necessary to budget for emergency expenses generated by the tornado that struck Hattiesburg on January 21, 2017, and to budget for needed repairs. There will be future amendments needed to fund repairs, but this will give departments funding for immediate needs.

Also included in these amendments are the purchase of 17 air pack harnesses, and 24 carbon filters for the Fire Department. This is half of the number of air packs requested, and all of the filters requested. The remaining air packs will be funded at a later date.

There are also two requests for employees included. These are for four bus drivers to staff new bus routes, and two new administrative assistants in the Land Code department. A Memo from Pattie Brantley is attached.

There are also several smaller requests for mostly routine items as noted below.

Budgeted Ending Cash:		$	4,529,473
Revenue Adjustments:			
Budget for Reimbursement of Tornado Damages	402,000		
Charges for Services, Crime Scene Unit	40,000		
Misc. Contributions	70,928		
Adjust Beginning Cash to Actual	500,000	$	1,012,928
Expenditure Adjustments:			
Municipal Court - transfer DUI clerk from Police, budget utilities	(28,452)		
Mayor/Admin - tornado expenses	(400)		
Accounting - renovate space to create new office	(3,300)		
Purchasing - furniture	(2,000)		
Gen. Gov't Building - purchase church bldg, security for temp. police station	(100,000)		
Metropolitan Planning - budget additional grant funds	(36,100)		
Federal Programs Admin -tornado expenses, GIS software (yr 2 of 3)	(72,250)		
Police - budget Byrne Grant, GIS trackers, body cameras, telephone wiring	(133,528)		
P/F Training - tornado	(45)		
Fire - prior budget 17 air pack harnesses & 24 carbon filters	(112,950)		
Code Enforcement - request for 2 new employees (memo attached)	(61,557)		
Streets - tornado expenses	(310,000)		
Engineering - tornado Expenses	(37,000)		
Construction - tornado expenses	(100)		
Human/Social Assistance - Forrest Co. contribution to Arts Council	(25,380)		
Debt Service - Paying agent fees	(3,000)		
Cemetery - Tornado expenses, buy back plots	(2,250)		
Parking - purchase 2 radios	(1,500)		(929,812)
Amended Ending Cash		$	4,612,589

Parks & Recreation Fund:		
Budget for FEMA reimbursement of tornado repairs		110,000
Budget for Tornado Expenses, open PO missed on first amendment	$	(165,207)

Water & Sewer O & M Fund:		
Increase budget for chemicals	$	(5,000)
Budget for Tornado Expenses	$	(265,000)
Municipal Road & Bridge Fund:		
Budget for Grant Revenue	$	386,162
Budget for Gordon Creek Sidewalk, Water Tower Access Rd	$	(516,665)
Mass Transit Fund:		
Budget additional grant funds		48,068
Request for 4 additional bus drivers for new bus routes	$	(96,135)
Community Development Block Grants		
Budget additional grant funds	$	282,467
Allocate grant funds, increase budget for rental assistance, CDBG and Home Programs		(468,000)

If you should have any questions or need further explanation of any of the above information, please give me a call.

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-238 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Adopt a Resolution authorizing submission of grant

Title: Adopt a Resolution authorizing submission of grant application to Mississippi Department of Wildlife, Fisheries and Parks for the 2017 MDWFP-Recreation Trails Program in the amount of $120,000.00 to fund refurbishment of .51 mile trail at Tatum Park that will serve as the trailhead for additional trail development; grant requires the city to provide $35,555.56 in matching funds.

Type: Action Item

Drafter: Ann Jones

In Control: City Council

Reference:

Attachments: 2017 MDWFP-RTP Grant Application, MDAH Letter, Tatum Trail Cover Letter, Recreational Trails Resolution

File Created: 02/13/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

2017 Recreational Trails Program (RTP) Application

Applicants should read Mississippi Recreational Trail Guidelines before completing this application

Part A: Applicant/Sponsor Information

Applicant/Sponsoring Entity Name: City of Hattiesburg, MS

Applicant's Federal Employer ID# (FEI): 64-6000432

Classification of Applicant: City/Town

Applicant Contact Info ((Mayor, Director, etc…)
Name: Lamar Rutland, P.E.
Title: Director of Engineering
Address: PO Box 1898 Hattiesburg, MS 39403-1898
Phone: 601-545-4540
Email address: lrutland@hattiesburgms.com

Application Contact Info: (if different from applicant)
Name: Ann Jones
Title: General Manager
Address: 139 Parkway Boulevard, Hattiesburg, MS 39401
Phone: 601-545-4667
Email address: grndmnt@hattiesburgms.com

Has Applicant Received Prior RTP Funding: ☐ **Yes** ☑ **No**

List all prior RTP project numbers and all park names associated with assisted site(s):
Click here to enter text.

Has Applicant Received Prior Land & Water Conservation Funding (LWCF): ☑ **Yes** ☐ **No**

List all prior LWCF project numbers and all park names associated with assisted site(s):
28-00237 Pineview Park; 28-00424 Tennis Courts; 28-00503 Jaycee Park, Kamper Park & Sixth Street; 28-00552

Part B - Project Information

Name of RTP Proposal: Tatum Park Trail Project

Classification of Land (Select one): Public
(If trail project involves private land, easement(s) must be finalized within 30 days of awarded grant approval)

Location of Project (if located in more than 1 county, district, etc., please list all)

Name of Park or Recreation Area:	Tatum Park
Nearest Town/City:	Hattiesburg, MS
County:	Forrest
Population of Applicant:	47,556 (2013)
Nearest Major Interstate:	Interstate 59
Street/County/Road:	Parkway Boulevard
Latitude of Proposed Trail Site:	31.280264
Longitude of Proposed Trail Site:	-89.321439
State Senator and District:	Billy Hudson, District 45
House of Representative and District:	Toby Barker, District 102
Federal Congressman and District:	Steven Palazzo, District 4

Project Category (Select one): Non-Motorized Diverse Use

Trail Use (indicate all that apply)

Non-Motorized Uses:

- ☐ Bicycling (paved trail)
- ☑ Mountain Biking (non-paved trail)
- ☐ Roller Blading
- ☐ Skateboarding
- ☑ Day Hiking (short trails)
- ☐ Exercise / Fitness
- ☐ Equestrian
- ☐ Backpacking (extended trail/overnight)
- ☑ Interpretive/Environmental Education
- ☑ Other, please specify

Area cross-country team practices and meets. The new trail will more affectively accommodate existing 5K races being hosted at Tatum Park.

Motorized Uses:

- ☐ 4-wheel (ATV) All Terrain Vehicle
- ☐ Motorcycle (Dirt Bikes
- ☐ OHV (Off Highway Vehicles)

☐ Other, please specify Click here to enter text.

Is the proposed project an Exercise / Fitness Track? ☑ Yes ☐ No

Is there an existing trail at this location? ☑ Yes ☐ No (if yes complete below)

Length of Existing Trail: 2725'
Width of Existing Trail: 8'
Existing Trail Surface: Native Soil
Condition of Existing Trail: Good, with the exception of the low areas that will receive boardwalk or drainage/earthwork improvements using the requested funding through this grant.

Was Existing Trail Funded with RTP Funds: No

Select the Item that the RTP Funds will be used for: Click here to choose an item.

Select the Type of Trail Surface (check all that apply):

☐ Asphalt ☐ Concrete ☐ Native Rock ☑ Native Soil

☐ Mulch ☐ Gravel ☑ Other Soil cement base using native soil

List Elements to be constructed / purchased with RTP Funds to be used by the public. For example: Asphalt trail 1 mile long x 10 feet wide, 6 benches,1 shelter

1. **Signs highlighting biodiversity along new trail development**

2. **Boardwalk over low areas along existing trail**

3. **Outdoor classroom within the existing trail**

4. **Construction (grubbing, grass, equipment, labor, etc) of new trail**

5. Click here to enter text.

6. Click here to enter text.

7. Click here to enter text.

8. Click here to enter text.

Does this project link to or is it an integral part of another trail(s)?
Yes, there will be improvements to an existing trail, which will be used as the trailhead for the proposed 2.36-mile addition. The proposed addition will connect a Middle School, Fire Department, Youth and Adult

Baseball Fields, and Soccer Fields. The new trail development will provide for additional opportunities for visitors to explore, walk, run, or bike.

Provide any additional information regarding trail project:
This project will connect to the local Fire Department, Softball, Baseball and Soccer Fields as well as the local middle school. The new portion of the trail will provide an alternative route to the YMCA and the outside classroom from all the amenities listed above. The scenic 2.36 mile trail will also be a key part to the access points of the development of a large Lake. Tatum park is host of (X number) of games and tournaments each year. This trail would be well utilized by locals as well as visitors to the community.

Part C – Project Narrative

Project Summary – Narrative concerning your proposed project and include a description of the nature of the organization requesting funds, the project and location, trail length and width, types of facilities (existing and proposed in the project), how the funds will be used, what is intended to be accomplished, history, planning, need for project, support, expected uses, and target audience. (Limit to this Page)

The City of Hattiesburg is a vibrant educational, healthcare and retirement community. The City's ambition and goal is to enhance the quality of life for all their residents and guest through their Parks and Recreation Department. The Tatum Park Trail project is a strategically located trail that will connect a Middle School, several ball fields, the YMCA, local Fire Station, Businesses and a future lake.

The City is requesting funds from the Recreational Trail Program to refurbish a .51 mile trail that will serve as the trailhead for the additional trail. The grant will also pay for the tables for an outside classroom and a boardwalk along low areas of the existing trail. Heavy foot traffic, severe rains and areas of lower elevation have created an urgent need to refurbish this portion of the project. The proposed improvements to this portion of the project will be to install a boardwalk over very low areas and to provide an attractive vantage point for nature observers. The other low area will receive fill and piping to elevate the trail path and allow the water to flow.

The other portion of funding proposed for this project will go towards the development of 2.36 miles of trail that will loop around several Park amenities. Tatum Park offers modern Youth Baseball fields, Adult Softball Fields, 3 Soccer Fields, Tennis Court, Pavilion and Office building. This Park is host to numerous tournaments, teams, residents, families, and guest alike. The new trail addition to the park would be a beautiful addition that would provide a variety of benefits for all to enjoy. The new trail addition is also in close proximity to an independent living facility, golf community, residential subdivision, business and medical district. The grant funds will pay for the clearing/grubbing, leveling and signs that will highlight the biodiversity of the native habitat.

Part D – Project Cost Information / Project Timeline Schedule

RTP Funds Requested: $120,000.00
Total Estimated Project Cost: $155,555.56

Funding Sources
List all funding sources related to proposed trail project.

Name	Type	Amount	Secured	Agency
Recreational Trail Grant	Federal Grant	**$120,000.00**	Applied For	MDWFP
City of Hattiesburg	General Fund	**$35,555.56**	Approved	City
enter	enter	enter	enter	enter
enter	enter	enter	enter	enter

Project Cost Estimate

In the following Proposed Budget and Breakdown, list items separately and in order of priority. Enter an estimated cost of each item to be purchased or donated.

- ►Cost of design and engineering services performed by an outside consultant (design and engineering services cannot exceed 8% of total construction cost.)
- ►Cost for construction contracts (List each contract separately and include a description of work and items covered under each)
- ►Cost of special tradesmen secured under a service contract (Describe each required)
- ►Cost of materials purchased for this project (List items and quantity separately)
- ►Cost of rental equipment (Specify type of equipment/cost per day/# days)
- ►Direct labor cost (Grant funds may not be used to pay the salaries or wages of active employees.)

Professional Fee for Design or Engineering

Design or engineering fees associated with trail development can be reimbursed. The amount of the fee eligible for reimbursement cannot exceed 8% of the RTP Total Agreement Cost or the associated RTP construction cost if it is less than the Total Agreement Cost. The eligible fee can be reimbursed 80% through the RTP program with 20% percent being matched by the applicant.

Although applicants may negotiate a higher professional fee than the 8%, only 8% is eligible for reimbursement. In addition, design or engineering costs associated with portions of the project that are not completed or constructed are not eligible for reimbursement.

Professional Fee Example:

Total RTP project estimated construction cost is 110,000
Eligible professional fee would be $8,800
Applicants 20% share of professional fee is $1,760
RTP 80% share of professional fee is $7,040

Proposed Budget

Applicant Name	**City of Hattiesburg, MS**
Person Who Prepared Budget:	**Russ Bryan, ASLA**
Name of Project:	**Tatum Park Trail**
Date Prepared:	**2-13-17**

INCLUDE ONLY ELIGIBLE ITEMS

Item Description	**RTP Grant Funds 80%**	**Matching Funds 20%**	**Total Project 100%**
A. Design & Engineering Costs (limited to 8% of associated construction cost)	**$8,888.89**	**$2,222.22**	$11,111.11
B. Construction Contract	**$111,111.11**	**$27,777.78**	$138,888.89
C. Special Service Purchase Contract (tradesmen secured under a service contract)	0.00	0.00	$ 0.00
D. Purchase of Materials	0.00	0.00	$ 0.00
E. Cost of Rental Equipment	0.00	0.00	$ 0.00
F. Direct Labor Cost		0.00	$ 0.00
G. Direct Equipment Cost		0.00	$ 0.00
H. Other (List Items)			
	0.00	$5,555.56	$5,555.56
	0.00	0.00	$ 0.00
	0.00	0.00	$ 0.00
TOTAL	**$120,000.00**	**$35,555.56**	**$155,555.56**

To TOTAL place cursor on amount in each total cell RIGHT CLICK MOUSE and click Update Field

BREAKDOWN OF PROPOSED BUDGET ITEMS A-G PRIOR PAGE

Item	Cost Estimate Description – Be Specific	RTP Funds	Sponsor Match
Mobilization	Mobilize labor, materials and equipment	**$8011.11**	**$2002.78**
Const Staking	Clearing, boardwalk and drainage	**$6000.00**	**$1500.00**
Clearing/Grubbing	Removal of vegetation/obstructions	**$24,000.00**	**$6000.00**
Borrow Excavation	Offsite material for earthwork	**$4200.00**	**$1050.00**
Boardwalk	Wooden, elevated trail section	**$25,600.00**	**$6400.00**
Drainage Piping	Trail crossings at low areas	**$3840.00**	**$960.00**
End Section	End of pipe at low areas	**$3200.00**	**$800.00**
Site Grading	Trail earthwork (shoulders/surface)	**$3540.00**	**$885.00**
Grassing	Establish grass in disturbed areas	**$16,000.00**	**$4000.00**
Outdoor Classroom	Four (4) tables	**$4000.00**	**$1000.00**
Signs	Two (2) ed signs and RTP sign	**$720.00**	**$180.00**
Fitness Equip	Three (3) fitness stations on trail	**$12,000.00**	**$3000.00**
Design Eng (8%)	Design fees	**$8888.89**	**$2222.22**
Const Admin (4%)	Construction administration fees	**0.00**	**$5555.56**
Click here to enter text.	Click here to enter text.	**0.00**	**0.00**
Click here to enter text.	Click here to enter text.	**0.00**	**0.00**
	Sub Totals	$120,000.00	$35,555.56
		Right click sub totals and update field	
	Manual Enter above sub totals ►	**$120,000.00**	**$35,555.56**
	Total	$155,555.56	

Volunteer Labor Rates: Source
Mississippi Department of Employment Security (MDES)
2016 Labor Market Information Occupational Wages

Laborer (no skills required)
Landscaping and Groundskeeping Workers @ $8.18

Supervisor (ability to take charge)
First-Line Supervisors of Landscaping @ $ 11.65

For other Occupational Wages see www.mdes.ms.gov

Donation - documented rate normally charged

Right Click Total and Update Field

Project Timeline/Schedule:

Provide a detailed project schedule/plan of action with a corresponding timeline. Detail the complete sequence of construction by activity, indicate number of days/weeks/months for beginning and complete for each stage of construction

Activity	**Days/Weeks/Months**
Clearing & Grubbing	4 weeks
Grading & Earthwork	3 weeks
Drainage Improvements	2 week
Boardwalk Construction	4 weeks
Grassing	1 week
Signage	1 day
Outdoor Classroom	2 days
Click here to enter text.	Click here to enter text.
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Click here to enter text.	Click here to enter text.

Part E – Project Selection Criteria

If a criterion does not apply, enter N/A (Not Applicable) and briefly indicate why it does not apply.

1. **Planning/Budgeting/Design Process** - Describe the planning, budgeting, and design process for this project. Document the use of professionals such as landscape architects, engineers, and/or planners. Describe any assistance from public agencies, private industries, or special interests groups.

The planning, budgeting and design process for the Tatum Park Trail began several years ago. Tatum Park has hosts approximately 10 5k races and 6 cross country meets every year. Currently, the races occur in streets, parking areas or open space and doesn't have a dedicated space within the park. The improvements to the existing trail and the clearing and grassing for future trail construction would continue the planning efforts by the City of Hattiesburg and the Parks and Recreation Department. A landscape architect and engineer have been involved in the planning and conceptual design of the existing trail improvements and clearing for future trail. Liasons from the 5k races and cross country teams have also been involved with the planning.

2. **Environmental Mitigation** - Describe how the project will mitigate and minimize impact to the natural environment. Degree to which project aids in the restoration, enhancement, and conservation of natural resource in the area in which the project is located.

The existing trail improvements will improve stormwater by limiting conflict created when trail users are encountering the low, wet areas of trail. The proposed signs and boardwalk will offer users information and better view opportunities of low, wet areas. Providing nature related information will promote conservation.

3. **Connections/Linkages** - Describe how the proposed project provides viable connections or linkages to other trails, greenways, scenic corridors, natural, cultural and recreational resources, or community activities. If the project is connected to a larger trail system, describe the size, extent, and predominant uses of that system.

The existing trail improvements will improve the existing link to the YMCA. The improved trail will increase the opportunity for future links to an adjacent independent living facility and golf community. The clearing for the future trail will increase the opportunity for future links to an adjacent residential subdivision, medical clinic, sports fields, tennis courts and fire station.

4. Trail Corridor Sharing - Describe how the trail project can accommodate a variety of motorized and/or non-motorized trail activities (equestrian, hiking, mountain biking, ATV, motorcycle, etc.)

The existing trail will accommodate hiking and mountain biking. With the outdoor classroom and educational signage, the trail will accommodate learning and offer outdoor educational experiences.

5. **Trail Commitment** – Describe the long-term commitment (ex. 20, 30, 50 year recreational easement or limitation of use) that the trail sponsor ***will*** implement / use, if selected for funding. Degree of commitment for continued project maintenance and operation to insure that the trail will remain open and operable for the intent for which funds are being asked.

The City of Hattiesburg and the Parks and Recreation Department are committed to all uses currently hosted at Tatum Park, especially those associated with the existing and proposed future trails. Tatum Park is one of the newest parks in Hattiesburg and is very popular due to its size and the variety of uses offered. The City of Hattiesburg and the Parks and Recreation Department are committed to maintaining, expanding and improving the uses and quality of the trail in perpetuity.

Bonus Points - Will trail project be of national, statewide or regional significance or unique? Explain.

Yes, the trail project will be of statewide and regional significance because it will offer soccer, baseball and tennis tournament attendees an opportunity to experience a more passive, natural setting in the time between games or matches.

Part F – Environmental Survey

This survey is a requirement for federally funded programs. For those projects selected for funding and submitted to FHWA, MDWFP may verify compliance with these items.
Note: Other documentation may be requested and required during the evaluation process and of finalists who enter the Environmental Assessment and Intergovernmental Review Process.

1. **Project Name**: Tatum Park Trail

2. **Land Use**

a. Briefly describe the land use in the project area and any changes. Attach additional pages and a land use map, if needed.

The land use in the project area is mostly open, programmed field space. The improvements to the existing trail and clearing for the future trail expansion will offer park users a more scenic, natural use option.

b. Is the project consistent with comprehensive land use or development plans for the area?

☑ **Yes** ☐ **No**

Name of Plan: Comprehensive Plan 2008-2028

Date Plan Prepared: December 16, 2008

3. **Natural Resources**

Will the proposed project negatively impact any of the following?

Soil Erosion or Sedimentation	☐ **Yes**	☑ **No**
Vegetation	☐ **Yes**	☑ **No**
Streams, Rivers, or Lakes	☐ **Yes**	☑ **No**
Wetlands	☐ **Yes**	☑ **No**
Floodplains	☐ **Yes**	☑ **No**
Coastal Zones	☐ **Yes**	☑ **No**
Wild and Scenic Rivers	☐ **Yes**	☑ **No**
Wildlife and Wildlife Habitat	☐ **Yes**	☑ **No**
Farmlands	☐ **Yes**	☑ **No**
National Natural Landmarks	☐ **Yes**	☑ **No**

Endangered Plants and Animals ☐ **Yes** ☑ **No**

4. Historic and Archaeological Resources

a. The project site has to been reviewed by the Mississippi Department of Archives and History, Historic Preservation Division. Please attach copy of their response to Request for Cultural Resource Assessment APPROVAL LETTER HAS TO BE ATTACHED TO application when submitted. ☐ **Yes** ☑ **No**

b. Will the project have an effect on historic or archaeological resources? ☐ **Yes** ☑ **No**

5. **Hazardous Wastes**

Is there any potential for involvement with hazardous wastes or underground storage tanks? ☐ **Yes** ☑ **No**

6. **Noise**

Is there potential for the project to have a noise impact or the surround land uses? ☐ **Yes** ☑ **No**

7. **Air Quality**

Will the project have an adverse impact on air quality? ☐ **Yes** ☑ **No**

8. **Section 4(f)**

a. Is the project located on a publicly owned park, recreation area, historic site or wildlife management area? ☑ **Yes** ☐ **No**

b. If yes, please mark the appropriate box and name the facility.

Recreation Area	☑	Click here to enter text.
Historic Area	☐	Click here to enter text.
Wildlife Management Area	☐	Click here to enter text.
Other	☐	Click here to enter text.

Part G – Certification Signature

Certification:

I hereby certify the information contained in this application and supporting documentation are true and correct to the best of my knowledge. I understand this application will be rated on the basis of the information provided and that incomplete or incorrect documentation will result in withdrawal of the application. I further certify that all required documentation is included herein and that matching funds are available for this project, including funds for long-term management and maintenance. The Recreational Trails Program administrator will be notified immediately of any changes in signature authority. Execution of this document constitutes and authorized signature on behalf of the entities proposal.

Johnny L. DuPree, PhD, Mayor
Type Name and Title of Authorized Official

Signature

3/3/2017
Date

Additional Information

Are any overhead utility lines present at proposed Site: ☐ Yes ☑ No
Indicate overhead utility lines on the site plan.

Provide driving directions to the location of site using 1505 Eastover Drive, Jackson, MS 39211-6374 as the starting point.

Go west on Eastover Drive toward Eastline Drive. Turn right onto I-55 Frontage Road North. Turn left onto Meadowbrook Road. Turn left onto I-55 Frontage Road North. Merge onto I-55 S/US-51 S toward McComb. Take the US-49 S/I-20 E exit (Exit 94) toward Hattiesburg/Meridian. Merge onto US-49 S via Exit 47A toward Hattiesburg/Richland and travel 86.7 miles. Merge onto US-11 S toward Purvis and travel 1.6 miles. Turn onto Parkway Boulevard and travel 0.25 miles and park in the parking lot on the right. The existing trailhead is to the right of the parking lot.

Part H – Application Checklist

This *PAGE IS THE COVER SHEET for APPLICATION* **BEING SUBMITTED FOR RTP FUNDING.** Please review the checklist below and **initial each item** to insure that all the required information is provided. See Section II (B) of the application manual for a detailed description of the required support documentation. Attach Items **in Order Listed Below**.

- [ ] This page Part H – Application Checklist
- [ ] Recap of Elements to be Constructed
- [ ] Transmittal Letter
- [ ] Resolution Letter

Location Map (11 x17 or smaller)

- [ ] With Written Directions from1505 Eastover Drive – Jackson, MS

Site Plan (11 x 17 or smaller) Indicate all Facilities

- [ ] Proposed Trail Route
- [ ] Proposed Facilities and Utilities
- [ ] Existing Facilities and Utilities
- [ ] Name and Date Prepared

- [ ] Property Deed

2017 Project Application

- [ ] Part A – Applicant / Sponsor Information
- [ ] Part B – Project Information
- [ ] Part C – Project Narrative
- [ ] Part D – Project Timeline Schedule / Cost Estimate Information
- [ ] Part E – Project Selection Criteria
- [ ] Part F – Environmental Survey
- [ ] Part G – Certification Signature
- [ ] Part H – Application Checklist
- [ ] MDAH Letter

- [ ] 3 ***UNBOUND*** (1 original/ 2 copies) of the application and required documentation.

Project Category (Check one)**:**

- [ ] Non-Motorized, single use
- [ ] Motorized, single use
- [x] Non-Motorized, diversified use
- [ ] Motorized, diversified use
- [ ] Diversified Motorized and Non-Motorized Use

Amount of RTP Funds Requested: $120,000.00
Name of Applicant: City of Hattiesburg, MS

RECAP OF ALL ELEMENTS that will actually be on site – that will be purchased or constructed with RTP Funds. (example 5,280 ft asphalt trail – 12 feet wide or 5 lights or 2 trash cans or 1 Required RTP Signage – elements do not include site prep / engineering / just the Elements that the public will use at the site that are funded by RTP Funds.

DETAIL ----------

1.	Clearing for future trail - 4.0 Acres
2.	Boardwalk for existing trail - 800 Square Feet
3.	Drainage Piping & Backfill - 60 Linear Feet of piping; 150 Cubic Yards of backfill
4.	Grassing - 4.0 Acres
5.	Outdoor Classroom - 4 Tables
6.	Signs - 2 Educational Signs; 1 RTP Sign
7.	Fitness Equipment - 3 Exercise Stations
8.	Click here to enter text.
9.	Click here to enter text.
10.	Click here to enter text.

Amount of RTP Funds Requested: $120,000.00

Name of Applicant: City of Hattiesburg, MS

Application must be received before 4:00 pm (CST) on Thursday, March 9, 2017

MDWFP- 1505 Eastover Drive Jackson, MS
(*No Exceptions*)

MDWFP - RTP Application
Terry McDill, Administrator
Outdoor Recreation Grants
1505 Eastover Drive
Jackson, MS 39211-6374

MISSISSIPPI DEPARTMENT *of* ARCHIVES AND HISTORY

MDAH

HISTORIC PRESERVATION
Jim Woodrick, director
PO Box 571, Jackson, MS 39205-0571
601-576-6940 • Fax 601-576-6955
mdah.state.ms.us

February 29, 2016

Mr. Russ Brown
Neel-Schaffer
Post Office Box 1487
Hattiesburg, Mississippi 39403-1487

RE: Proposed renovation and expansion of a walking trail in S29, T4N, R13W by the City of Hattiesburg, MDAH Project Log #02-155-16, Forrest County

Dear Mr. Brown:

We have reviewed your request for a cultural resources assessment, received on February 25, for the above referenced project in accordance with our responsibilities under Section 106 of the National Historic Preservation Act and 36 CFR Part 800. After reviewing the information provided, it is our determination that no cultural resources are likely to be affected, provided the fill material needed for the project is obtained from a borrow area that has been cleared for cultural resources. With this condition, we have no reservation with the proposed undertaking.

If I can be of further assistance, please do not hesitate to contact me at (601) 576-6538.

Sincerely,

Hal Bell
Review and Compliance Assistant

FOR: Greg Williamson
Review and Compliance Officer

Board of Trustees: Kane Ditto, president / E. Jackson Garner, vice president / Reuben V. Anderson / Nancy Carpenter / Valencia Hall
Betsey Hamilton / Web Heidelberg / Hilda Cope Povall / Roland Weeks / *Department director: Katie Blount*

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1 *Kim Bradley* | **Council - Ward 2** *Deborah Denard Delgado* | **Council - Ward 3** *Carter Carroll* | **Council - Ward 4** Mary Dryden | **Council - Ward 5** *Henry Naylor*

March 9, 2017

Terry McDill, Administrator
Outdoor Recreation Grants
Mississippi Department of Wildlife, Fisheries and Parks
1505 Eastover Drive
Jackson, MS 39211-6374

Mr. McDill,

Enclosed is the City of Hattiesburg's application for the 2017 MDWFP-RTP Grant on behalf of the 2017 Recreational Trails Program.

If there are any questions or additional information is needed, please contact my office at 601-545-4667 or email grndmnt@hattiesburgms.com.

Thank you,

Ann Jones
General Manager

RESOLUTION

WHEREAS, the City of Hattiesburg, Mississippi, recognizes that community development is a priority concern; and

WHEREAS, the City of Hattiesburg desires to submit an application for Fiscal Year 2017 Recreational Trails Program; and

WHEREAS, the grant totals $120,000.00 and requires $35,555.56 from the city in matching funds;

NOW, THEREFORE, BE IT RESOLVED, that the Mayor Johnny DuPree be authorized to apply for funding, and that he be authorized to act as a representative of the City in this matter and to execute all necessary forms and documents on behalf of the City.

The above and foregoing resolution, after having been first reduced to writing, was introduced by Council Member _____, seconded by Council Member _____, and was adopted by the following roll call vote, to wit:

YEAS: NAYS:

The President thereby declared the motion carried and the resolution adopted, this the 21st day of February, 2017.

(SEAL)

ATTEST: ADOPTED:

_____ _____

CLERK OF COUNCIL PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 21st day of February, 2017.

ATTEST: APPROVED:

_____ _____

CITY CLERK MAYOR

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-252 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: 2016 Bond Resolution No. 2

Title: Adopt a Resolution authorizing Requisition No. 2 from the Project Fund Construction Account in connection with certain loan agreement, dated as of August 18, 2016, by and between the Mississippi Development Bank and the City of Hattiesburg.

Type: Resolution

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: 2016 Bond Resolution No. 2

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

The City Council of the City of Hattiesburg, Mississippi (the "City") acting for and on behalf of the City, took up for consideration the matter of requesting and authorizing Requisition No. **2** from the Project Fund Construction Account in connection with the loan agreement between the Mississippi Development Bank and the City dated August 18, 2016. After discussion of the subject, Council Member _____ offered and moved for the adoption of the following resolution:

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI (THE "CITY") AUTHORIZING REQUISITION NO. 2 FROM THE PROJECT FUND CONSTRUCTION ACCOUNT IN CONNECTION WITH THAT CERTAIN LOAN AGREEMENT, DATED AS OF AUGUST 18, 2016, BY AND BETWEEN THE MISSISSIPPI DEVELOPMENT BANK AND THE CITY.

Whereas, on August 18, 2016 the City entered into a loan with the Mississippi Development Bank in an amount not to exceed $25,000,000 (the "Loan") pursuant to the terms and conditions of that certain loan agreement, dated as of August 18, 2016, by and between the Mississippi Development Bank and the City (the "Loan Agreement").

Whereas, the City Council of the City now finds it necessary to approve Requisition No. **2** from the Project Fund Construction Account under the Loan in the total aggregate amount of **$ 79,270.00** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI:

SECTION 1. The City Council of the City hereby authorizes and approves Requisition No. **2** from the Project Fund Construction Account under the Loan in the total aggregate amount of **Seventy-Nine Thousand Two Hundred Seventy & 00/100 dollars ($ 79,270.00)** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

SECTION 2. The City Council hereby directs Regions Bank, as Trustee to disburse funds of Requisition No. **2** in the total aggregate amount of **Seventy-Nine Thousand Two Hundred Seventy & 00/100 dollars ($ 79,270.00)** as authorized herein, as more particularly described in Exhibit A.

SECTION 3. The Mayor and City Clerk are hereby authorized and directed for and on behalf of the City to take any and all action as may be required by the City to carry out and give effect to the aforesaid documents authorized pursuant to this Resolution and to execute all papers, documents, certificates and other instruments that may be required for the carrying out of the authority conferred by this Resolution in order to evidence the authority.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council Member _____ seconded by Council Member _____, and was adopted by the following vote, to wit:

YEAS: NAYS: ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the **21st day** of **February**, 2017.

(SEAL)

ATTEST: **ADOPTED:**

_____ _____

CLERK OF COUNCIL **PRESIDENT**

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the **21st day** of **February**, 2017.

ATTEST: **APPROVED:**

_____ _____

CITY CLERK **MAYOR**

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

RE: **$25,000,000.00 Mississippi Development Bank Taxable Special Obligation Bonds, Series 2016 (Hattiesburg, Mississippi Combined Water and Sewer System Construction Project) (the "Series 2016 Bonds") secured by $25,000,000.00 Taxable Promissory Note (Hattiesburg, Mississippi Combined Water and Sewer System Construction Project), dated August 18, 2016 (the "Series 2016 Note").**

TO: **Regions Bank**
400 West Capitol, 7th Floor
Little Rock, AR 72201
ATTN: Corporate Trust Department

REQUISITION NO.: **2**

DATE OF REQUISITION: **2/21/2017**

Item #	Payee Name & Address	Budget Line Item	Payment Amount	Invoice #	Purpose of Payment
1	Shows, Dearman, Waits, Inc 301 Second Ave Hattiesburg, MS 39403-1711	093695.7220.62	$ 1,627.50	19510	Lake Forgetful Road Period: January 1 - January 31, 2017 MB: 2011-4/89-110 SDW #11209
2	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.63	$ 53,862.50	19507	Infrastructure Improvements at 30th & Chevy Chase Period: January 1 - January 31, 2017 MB: 2016-289 SDW #11241
3	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.70	$ 19,135.00	19483	Sewer Improvements Ph VIII - Camp St. Area Period: January 1 - January 31, 2017 MB 2011-4/89-110 SDW #1273-S010
4	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.54	$ 4,645.00	19499	Sewer Improvements Ph V Period: January 1 - January 31, 2017 MB 2012-1/413
			$ 79,270.00		

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 03, 2017
Project No: 11209
Invoice No: 19510

Project Manager Shea McNease

Project 11209 Lake Forgetful Road

Professional Services from January 01, 2017 to January 31, 2017

Professional Personnel

	Hours	Rate	Amount	
AUTO CAD TECHNICIAN				
Sullivan, Richard	.50	105.00	52.50	
FIELD CREW				
Crew, Field	2.50	175.00	437.50	
PROJECT ENGINEER				
McNease, Shea	6.50	175.00	1,137.50	
Totals	9.50		1,627.50	
Total Labor				**1,627.50**
		Total this Invoice		**$1,627.50**

Outstanding Invoices

Number	Date	Balance
19464	1/5/2017	54,935.00
Total		**54,935.00**

Total Now Due **$56,562.50**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.62
2011-4/89-110 LR

sdw
Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 03, 2017
Project No: 11241
Invoice No: 19507

Project Manager Shea McNease

Project 11241 Infrastructure Improvements at 30th Ave & Chevy Chase

Professional Services from January 01, 2017 to January 31, 2017

Billing Phase	Fee	Percent Complete	Earned	Previous Fee Billing	Current Fee Billing
Design Phase Services	88,000.00	80.00	70,400.00	16,537.50	53,862.50
Construction Phase Services	77,000.00	0.00	0.00	0.00	0.00
Total Fee	165,000.00		70,400.00	16,537.50	53,862.50

Total Fee **53,862.50**

Total this Invoice **$53,862.50**

Outstanding Invoices

Number	Date	Balance
19440	1/5/2017	11,112.50
Total		**11,112.50**

Total Now Due **$64,975.00**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.63
2016-289

LR

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 01, 2017
Project No: 1273-S010
Invoice No: 19483

Project Manager John Weeks

Project 1273-S010 ComSWIP Sewer Phase VIII - Camp St. Area

Professional Services from January 01, 2017 to January 31, 2017

Professional Personnel

	Hours	Rate	Amount	
CADD TECHNICIAN I				
Sullivan, Richard	10.50	105.00	1,102.50	
CAD TECHNICIAN II				
Trahan, Beau	20.50	90.00	1,845.00	
FIELD CREW				
Crew, Field	85.50	175.00	14,962.50	
PROJECT ENGINEER				
McNease, Shea	5.00	175.00	875.00	
Weeks, John	2.00	175.00	350.00	
Totals	123.50		19,135.00	
Total Labor				**19,135.00**
		Total this Invoice		**$19,135.00**

Outstanding Invoices

Number	Date	Balance
19396	11/30/2016	5,232.50
19431	1/5/2017	14,980.00
Total		**20,212.50**

Total Now Due **$39,347.50**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.70
2011-4/89-110 LR

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 02, 2017
Project No: 1273-S005
Invoice No: 19499

Project Manager Kyle Wallace

Project 1273-S005 ComSWIP Sewer Phase V

Professional Services from January 01, 2017 to January 31, 2017

Phase DD Phase V - Design Services

Professional Personnel

	Hours	Rate	Amount	
CADD TECHNICIAN I				
Sullivan, Richard	.50	105.00	52.50	
CAD TECHNICIAN II				
Trahan, Beau	2.00	90.00	180.00	
PROJECT ENGINEER				
Sellers, Bennie	2.00	150.00	300.00	
Wallace, Kyle	23.50	175.00	4,112.50	
Totals	28.00		4,645.00	
Total Labor				**4,645.00**
		Total this Phase		**$4,645.00**
		Total this Invoice		**$4,645.00**

Outstanding Invoices

Number	Date	Balance
19413	12/1/2016	18,987.50
19441	1/5/2017	18,300.00
Total		**37,287.50**

Total Now Due **$41,932.50**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.54
2012-1/413 LR

City of Hattiesburg
2016 Sewer & Water Bond
Summary of Payments
As of 2/14/17

Project Name	Payments by Project This Requisition	Payments to Date
Infrastructure Improvements at 30th & Chevy Chase	53,862.50	64,975.00
Lake Forgetful Road	1,627.50	56,562.50
Sewer Improvements Ph V	4,645.00	41,932.50
Sewer Improvements Ph VIII	19,135.00	39,347.50
Sewer Improvements Ph X		2,187.50
Grand Total	**79,270.00**	**205,005.00**

Hattiesburg, Mississippi does hereby certify to Regions Bank, as trustee in respect to the referenced Bonds (the Trustee"):

(1) The amounts herein requisitioned to be paid to the above-designated payees are for the items or services hereinabove described.
(2) The items or services listed above for which payment is proposed to be made hereunder have not formed the basis for any payment heretofore made from the Series 2016 Project Fund Construction Account.
(3) Each of the items was reasonable and necessary in connection with the "Construction Project" being financed pursuant to the Loan Agreement dated as of August 18, 2016 (the "Loan Agreement").
(4) The payment herein authorized and approved is a proper charge against the Series 2016 Project Fund Construction Account as provided for in Section 3 of the Loan Agreement.
(5) The invoices or statements from the contractor, vendor or other payee or other document supporting the amounts requisitioned herein are on file with the City.

CITY OF HATTIESBURG, MISSISSIPPI

By: _____
Title: Mayor or City Clerk
(Authorized City Representative)

As Approved by:

Regions Commercial Equipment Finance, LLC
As Purchaser

_____
Authorized Officer

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-253 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Project Resolution Requisition No. 64 - 2013 Bonds

Title: Adopt a Resolution authorizing Requisition No. 64 from the Project Fund Construction Account in connection with certain loan agreement, dated as of December 19, 2013, by and between the Mississippi Development Bank and the City of Hattiesburg.

Type: Resolution

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: 2013 Bond Resolution No. 64

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

The City Council of the City of Hattiesburg, Mississippi (the "City") acting for and on behalf of the City, took up for consideration the matter of requesting and authorizing Requisition No. **64** from the Project Fund Construction Account in connection with the loan agreement between the Mississippi Development Bank and the City dated December 19, 2014. After discussion of the subject, Council Member _____ offered and moved for the adoption of the following resolution:

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI (THE "CITY") AUTHORIZING REQUISITION NO. 64 FROM THE PROJECT FUND CONSTRUCTION ACCOUNT IN CONNECTION WITH THAT CERTAIN LOAN AGREEMENT, DATED AS OF DECEMBER 19, 2013, BY AND BETWEEN THE MISSISSIPPI DEVELOPMENT BANK AND THE CITY.

Whereas, on December 19, 2013 the City entered into a loan with the Mississippi Development Bank in an amount not to exceed $28,000,000 (the "Loan") pursuant to the terms and conditions of that certain loan agreement, dated as of December 19, 2013, by and between the Mississippi Development Bank and the City (the "Loan Agreement").

Whereas, the City Council of the City now finds it necessary to approve Requisition No. **64** from the Project Fund Construction Account under the Loan in the total aggregate amount of **$ 271,721.95** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI:

SECTION 1. The City Council of the City hereby authorizes and approves Requisition No. **64** from the Project Fund Construction Account under the Loan in the total aggregate amount of **Two Hundred Seventy-One Thousand Seven Hundred Twenty-One and 95/100 Dollars ($ 271,721.95)** for the purpose of paying Water & Sewer Projects in connection with the loan as more particularly described in Exhibit A.

SECTION 2. The City Council hereby directs Hancock Bank, as Trustee to disburse funds of Requisition No. **64** in the total aggregate amount of **Two Hundred Seventy-One Thousand Seven Hundred Twenty-One and 95/100 Dollars ($ 271,721.95)** as authorized herein, as more particularly described in Exhibit A.

SECTION 3. The Mayor and City Clerk are hereby authorized and directed for and on behalf of the City to take any and all action as may be required by the City to carry out and give effect to the aforesaid documents authorized pursuant to this Resolution and to execute all papers, documents, certificates and other instruments that may be required for the carrying out of the authority conferred by this Resolution in order to evidence the authority.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Council Member _____ seconded by Council Member _____, and was adopted by the following vote, to wit:

YEAS: NAYS: ABSENT:

The motion having received the affirmative vote of a majority of the Council members present, the President declared the motion carried and the resolution adopted, on this the **21st day** of **February**, 2017.

(SEAL)

ATTEST: **ADOPTED:**

_____ _____

CLERK OF COUNCIL **PRESIDENT**

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the **21st day** of **February**, 2017.

ATTEST: **APPROVED:**

_____ _____

CITY CLERK **MAYOR**

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

EXHIBIT A

PROJECT FUND CONSTRUCTION ACCOUNT REQUISITION

RE: **$28,000,000.00 Mississippi Development Bank Special Obligation Bonds, Series 2013 (Hattiesburg, Mississippi Combined Water and Sewer System Refunding and Construction Project) (the "Bonds") secured by $28,000,000.00 Promissory Note (Hattiesburg, Mississippi Combined Water and Sewer System Refunding and Construction Project) (the "Note").**

TO: **Hancock Bank**
The Quarter Specialty Center
1855 Lakeland Drive, Suite Q-230
Jackson, Mississippi 39216
ATTN: Trust and Financial Services Group

REQUISITION NO.: 64

DATE OF REQUISITION: 2/21/2017

Item #	Payee Name & Address	Budget Line Item	Payment Amount	Invoice #	Purpose of Payment
1	T.L. Wallace 4025 HWY 35 North Columbia, MS 39429	105695.7245.52	$ 53,758.49	Pay Est. 14	Water Improvements Ph III Period: January 1 - January 31, 2017 MB 2015-241
2	Thompson Brothers Drilling 5410 US Hwy 11 North Ellisville, MS 39437	105695.7245.09	$ 193,653.46	Pay App 1	1500 GPM Water Well No. 2 Period: January 3 - February 1, 2017 MB: 2016-321
3	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	105695.7245.09	$ 6,277.50	19482	Wesley WTP Well Period: January 1 - January 31, 2017 MB 2011-4/89-110 SDW #1273-W006
4	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	105695.7245.52	$ 1,870.00	19498	Water Ph III - Mobile & Bouie Period: January 1 - January 31, 2017 MB: 2011-4/89-110 SDW #1273-W008
5	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	105695.7245.51	$ 5,085.00	19500	Water Ph II - Palmers Crossing Period: January 1 - January 31, 2017 MB 2011-4/89-110 SDW #1273-W007
6	Shows, Dearman, Waits, Inc 301 Second Ave Hattiesburg, MS 39403-1711	105695.7245.11	$ 5,905.00	19497	Water Line Ext on Old 98 and Runnels Period: January 1 - January 31, 2017 MB: 2011-4/89-110 SDW #1273-W011
7	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	105695.6015	$ 5,172.50	19512	Water Improvements Ph V Period: January 1 - January 31, 2017 MB 2011-4/89-110 SDW #1273-W013
			$ 271,721.95		

sdw

Engineering Progress

February 9, 2017

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403

Attn: Mr. Lamar Rutland, P.E.

RE: Comprehensive Water Improvements–Phase III
Mobile & Bouie Street Areas
Hattiesburg, MS

Dear Mr. Rutland,

Enclosed please find Pay Estimate No. 14 for the above referenced project.

Should you have any questions and/or comments, please, do not hesitate to contact me.

Sincerely,

Kyle D. Wallace, P.E.
Project Engineer

/aa
Enclosure

cc: Terry Jackson, SDW Files,
T.L. Wallace

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

LR

SHOWS, DEARMAN & WAITS, INC. - CONSULTING ENGINEERS -

Date: 2-6-17

Project: Comp. Water Improvements Phase III - Mobile & Bouie St. Area
City of Hattiesburg
Contractor: T.L. Wallace
4025 Hwy. 35 North, Columbia, MS 39429
Pay Estimate No.: Fourteen (14)

Pay Period: January 1, 2017 - January 31, 2017

Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
						CONTRACT TOTAL:	$1,722,687.00
	Site 1 - Columbia, Eupora, Lake, Phillipps & W 5th Streets						$182,725.00
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	40		25.00	LF	$ 15.00	$ 375.00
2	6" Class 350 Ductile Iron Water Pipe (Open Cut)	1,310		1327.00	LF	$ 23.00	$ 30,521.00
3	8" Class 350 Ductile Iron Water Pipe (Open Cut)	920		902.00	LF	$ 25.00	$ 22,550.00
	Connection Items						
4	Connection: Proposed 8" Water Line to Existing 8" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 2,500.00	$ 2,500.00
5	Connection: Proposed 8" Water Line to Existing 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,600.00	$ 1,600.00
6	Connection: Proposed 6" Water Line to Proposed 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,500.00	$ 1,500.00
7	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	3		3.00	Each	$ 1,900.00	$ 5,700.00
8	Connection: Proposed 6" Water Line to Existing 2" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,200.00	$ 1,200.00
	Valve and Hydrant Items						
9	2" Gate Valve	1		2.00	Each	$ 550.00	$ 1,100.00
10	6" Gate Valve	2		2.00	Each	$ 775.00	$ 1,550.00
11	8" Gate Valve	1		1.00	Each	$ 1,100.00	$ 1,100.00
12	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	4		4.00	Each	$ 3,325.00	$ 13,300.00
	Water Service Items						
13	Service Tubing (Bored) (Size Varies to 1 1/2")	215		127.00	LF	$ 24.00	$ 3,048.00
14	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	21		22.00	Each	$ 285.00	$ 6,270.00
15	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	1		2.00	Each	$ 430.00	$ 860.00
	Miscellaneous Construction Items						
16	Concrete Pavement Repair (All Depths)	115		79.70	SY	$ 120.00	$ 9,564.00
17	Asphalt Pavement Repair (All Depths)	500		281.50	SY	$ 88.00	$ 24,772.00
18	Concrete Curb & Gutter Repair (All Types)	166			LF	$ 35.00	$ -
19	Concrete Sidewalk Repair	17		18.30	SY	$ 130.00	$ 2,379.00
20	Temporary Erosion Control	1		0.95	LS	$ 2,400.00	$ 2,280.00
21	Grassing	1		1.00	LS	$ 800.00	$ 800.00
22	Mobilization	1		1.00	LS	$ 17,000.00	$ 17,000.00
23	Maintenance of Traffic	1		1.00	LS	$ 2,400.00	$ 2,400.00
						Sub-total	$ 152,369.00
	Site 2 - Montague Street						**$63,522.00**
	Water Pipe Items						
1	6" Class 350 Ductile Iron Water Pipe (Open Cut)	20		8.00	LF	$ 40.00	$ 320.00
2	8" Class 350 Ductile Iron Water Pipe (Open Cut)	650		636.00	LF	$ 26.00	$ 16,536.00
	Connection Items						
3	Connection: Proposed 8" Water Line to Existing 20" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 8,550.00	$ 8,550.00
4	Connection: Proposed 8" Water Line to Existing 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,500.00	$ 1,500.00
	Valve and Hydrant Items						
5	6" Gate Valve	2		2.00	Each	$ 775.00	$ 1,550.00
6	8" Gate Valve	1		1.00	Each	$ 1,100.00	$ 1,100.00
7	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	1		1.00	Each	$ 3,325.00	$ 3,325.00
	Water Service Items						
8	Service Tubing (Bored) (Size Varies to 1 1/2")	180		168.00	LF	$ 24.00	$ 4,032.00

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Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
9	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	15		15.00	Each	$ 285.00	$ 4,275.00
	Miscellaneous Construction Items						
10	Concrete Pavement Repair (All Depths)	38		19.73	SY	$ 124.00	$ 2,446.52
11	Asphalt Pavement Repair (All Depths)	92		25.20	SY	$ 95.00	$ 2,394.00
12	Concrete Curb & Gutter Repair (All Types)	25		41.00	LF	$ 52.00	$ 2,132.00
13	Temporary Erosion Control	1		0.95	LS	$ 750.00	$ 712.50
14	Grassing	1		0.95	LS	$ 800.00	$ 760.00
15	Mobilization	1		1.00	LS	$ 4,000.00	$ 4,000.00
16	Maintenance of Traffic	1		0.95	LS	$ 900.00	$ 855.00
						Sub-total	$ 54,488.02
	Site 3 - McLaurin Street						**$46,565.00**
	Water Pipe Items						
1	6" Class 350 Ductile Iron Water Pipe (Open Cut)	660		638.00	LF	$ 23.00	$ 14,674.00
	Connection Items						
2	Connection: Proposed 6" Water Line to Existing 20" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 8,550.00	$ 8,550.00
3	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 1,900.00	$ 1,900.00
	Valve and Hydrant Items						
4	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	1		1.00	Each	$ 3,325.00	$ 3,325.00
	Water Service Items						
5	Service Tubing (Bored) (Size Varies to 1 1/2")	70		40.00	LF	$ 24.00	$ 960.00
6	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	3		3.00	Each	$ 285.00	$ 855.00
	Miscellaneous Construction Items						
7	Concrete Pavement Repair (All Depths)	20		21.00	SY	$ 124.00	$ 2,604.00
8	Asphalt Pavement Repair (All Depths)	35	8.10	27.10	SY	$ 95.00	$ 2,574.50
9	Concrete Curb & Gutter Repair (All Types)	40			LF	$ 63.00	$ -
10	Concrete Sidewalk Repair	2		3.80	SY	$ 150.00	$ 570.00
11	Temporary Erosion Control	1		1.00	LS	$ 750.00	$ 750.00
12	Grassing	1		1.00	LS	$ 800.00	$ 800.00
13	Mobilization	1		1.00	LS	$ 4,000.00	$ 4,000.00
14	Maintenance of Traffic	1		0.95	LS	$ 900.00	$ 855.00
						Sub-total	$ 42,417.50
	Site 4 - E 9th, Coit, E 10th, Lula, Inez, Allen, Gravel, Heiddle & Kinnard St's						**$544,752.00**
	Water Pipe Items						
1	1" Sch 80 PVC (Open Cut)	10			LF	$ 15.00	$ -
2	2" Class 350 Ductile Iron Water Pipe (Open Cut)	20			LF	$ 20.00	$ -
3	4" Class 350 Ductile Iron Water Pipe (Open Cut)	20		2.00	LF	$ 30.00	$ 60.00
4	6" Class 350 Ductile Iron Water Pipe (Open Cut)	3,670		3,407.00	LF	$ 23.00	$ 78,361.00
5	8" Class 350 Ductile Iron Water Pipe (Open Cut)	2,875		2,972.00	LF	$ 26.00	$ 77,272.00
6	12" Class 350 Ductile Iron Water Pipe (Open Cut)	1,030		1007.00	LF	$ 45.00	$ 45,315.00
7	16" 200 PSI, DR9, HDPE (Open Cut) (Incl. adapter fittings)	100		100.00	LF	$ 87.00	$ 8,700.00
8	20" Steel Casing, 0.25" WT (Bored)	80		80.00	LF	$ 138.00	$ 11,040.00
	Connection Items						
9	Connection: Proposed 12" Water Line to Proposed 8" & 6" Water Lines (Cross & other fittings)	1		1.00	Each	$ 2,200.00	$ 2,200.00
10	Connection: Proposed 12" Water Line to Existing 12" Water Line (Hot Tap w/ Valve Assembly)	2		2.00	Each	$ 3,950.00	$ 7,900.00
11	Connection: Proposed 8" Water Line to Existing 12" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 2,550.00	$ 2,550.00
12	Connection: Proposed 8" Water Line to Existing 6" Water Line (Cross & other fittings)	1			Each	$ 2,000.00	$ -
13	Connection: Proposed 8" Water Line to Existing 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,600.00	$ 1,600.00
14	Connection: Proposed 8" Water Line to Existing 4" Water Line (Tee & other fittings)	1			Each	$ 1,400.00	$ -
15	Connection: Proposed 8" Water Line to Proposed 6" Water Line (Tee & other fittings)	3		3.00	Each	$1,800.00	$ 5,400.00

Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
16	Connection: Proposed 6" Water Line to Proposed 6" Water Line (Tee & other fittings)	1			Each	$1,400.00	$ -
17	Connection: Proposed 6" Water Line to Existing 6" Water Line (Cross & other fittings)	1		1.00	Each	$ 1,500.00	$ 1,500.00
18	Connection: Proposed 6" Water Line to Existing 6" Water Line (Tee & other fittings)	3			Each	$ 1,600.00	$ -
19	Connection: Proposed 6" Water Line to Existing 1" Water Line (Hot Tap w/ Valve Assembly)	1			Each	$ 375.00	$ -
20	Connection: Proposed 4" Water Line to Existing 2" Water Line (Straight Connection & other fittings)	1		1.00	Each	$ 275.00	$ 275.00
	Valve and Hydrant Items						
21	4" Gate Valve	1		1.00	Each	$ 700.00	$ 700.00
22	6" Gate Valve	18		14.00	Each	$ 775.00	$ 10,850.00
23	8" Gate Valve	11		11.00	Each	$ 1,100.00	$ 12,100.00
24	12" Gate Valve	4		4.00	Each	$ 2,000.00	$ 8,000.00
25	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	18		18.00	Each	$ 3,325.00	$ 59,850.00
	Water Service Items						
26	Service Tubing (Bored) (Size Varies to 1 1/2")	1,240		1015.00	LF	$ 24.00	$ 24,360.00
27	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	56		59.00	Each	$ 275.00	$ 16,225.00
28	Commercial Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	2			Each	$ 1,000.00	$ -
29	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	6		1.00	Each	$ 433.00	$ 433.00
	Miscellaneous Construction Items						
30	Removal of Fire Hydrant and Appurtenances	2		2.00	Each	$ 250.00	$ 500.00
31	Concrete Paved Ditch	4		2.60	CY	$ 675.00	$ 1,755.00
32	Concrete Pavement Repair (All Depths)	78		51.10	SY	$ 115.00	$ 5,876.50
33	Asphalt Pavement Repair (All Depths)	954	93.27	367.97	SY	$ 86.00	$ 31,645.42
34	Concrete Sidewalk Repair	26		7.20	SY	$ 130.00	$ 936.00
35	Temporary Erosion Control	1		1.00	LS	$ 5,500.00	$ 5,500.00
36	Grassing	1		1.00	LS	$ 2,500.00	$ 2,500.00
37	Mobilization	1		1.00	LS	$ 37,000.00	$ 37,000.00
						Sub-total	$ 460,403.92
	Site 5 - Atlanta Street						**$121,974.00**
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	20		137.50	LF	$ 20.00	$ 2,750.00
2	6" Class 350 Ductile Iron Water Pipe (Open Cut)	20		8.00	LF	$ 30.00	$ 240.00
3	8" Class 350 Ductile Iron Water Pipe (Open Cut)	1,410		1406.00	LF	$ 26.00	$ 36,556.00
	Connection Items						
4	Connection: Proposed 8" Water Line to Existing 12" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 2,600.00	$ 2,600.00
5	Connection: Proposed 8" Water Line to Existing 8" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 2,600.00	$ 2,600.00
6	Connection: Proposed 8" Water Line to Existing 6" Water Line (Cross & other fittings)	1		1.00	Each	$ 1,800.00	$ 1,800.00
7	Connection: Proposed 8" Water Line to Existing 2" Water Line (Hot Tap w/ Valve Assembly)	2			Each	$ 700.00	$ -
	Valve and Hydrant Items						
8	6" Gate Valve	2		2.00	Each	$ 775.00	$ 1,550.00
9	8" Gate Valve	2		2.00	Each	$ 1,100.00	$ 2,200.00
10	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	3		3.00	Each	$ 3,225.00	$ 9,675.00
	Water Service Items						
11	Service Tubing (Bored) (Size Varies to 1 1/2")	640		444.00	LF	$ 24.00	$ 10,656.00
12	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	25		27.00	Each	$ 290.00	$ 7,830.00
13	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	1			Each	$ 435.00	$ -

Item No.	Item Description	Total Quantities Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
	Miscellaneous Construction Items						
14	Removal of Fire Hydrant and Appurtenances	1			Each	$ 250.00	$ -
15	Concrete Pavement Repair (All Depths)	55		19.00	SY	$ 120.00	$ 2,280.00
16	Asphalt Pavement Repair (All Depths)	233	163.95	226.65	SY	$ 88.00	$ 19,945.20
17	Concrete Curb & Gutter Repair (All Types)	10			LF	$ 80.00	$ -
18	Concrete Sidewalk Repair	3			SY	$ 130.00	$ -
19	Temporary Erosion Control	1		0.95	LS	$ 1,000.00	$ 950.00
20	Grassing	1		0.90	LS	$ 800.00	$ 720.00
21	Mobilization	1		1.00	LS	$ 7,300.00	$ 7,300.00
22	Maintenance of Traffic	1		0.95	LS	$ 1,800.00	$ 1,710.00
						Sub-total	$ 111,362.20
	Site 6 - E 9th Street						**$83,249.00**
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	40			LF	$ 15.00	$ -
2	4" Class 350 Ductile Iron Water Pipe (Open Cut)	20			LF	$ 30.00	$ -
3	6" Class 350 Ductile Iron Water Pipe (Open Cut)	920		887.00	LF	$ 22.00	$ 19,514.00
	Connection Items						
4	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	2		2.00	Each	$ 1,900.00	$ 3,800.00
5	Connection: Proposed 6" Water Line to Existing 4" Water Line (Tee & other fittings)	1			Each	$ 1,300.00	$ -
6	Connection: Proposed 6" Water Line to Existing 2" Water Line (Hot Tap w/ Valve Assembly)	2			Each	$ 650.00	$ -
	Valve and Hydrant Items						
7	4" Gate Valve	1		1.00	Each	$ 700.00	$ 700.00
8	8" Gate Valve	2			Each	$ 1,100.00	$ -
9	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	2		2.00	Each	$ 3,325.00	$ 6,650.00
	Water Service Items						
10	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	7		6.00	Each	$ 285.00	$ 1,710.00
11	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	1			Each	$ 432.00	$ -
	Miscellaneous Construction Items						
12	Concrete Pavement Repair (All Depths)	11			SY	$ 127.00	$ -
13	Asphalt Pavement Repair (All Depths)	355	23.22	160.56	SY	$ 87.00	$ 13,968.72
14	Concrete Curb & Gutter Repair (All Types)	10			LF	$ 85.00	$ -
15	Concrete Sidewalk Repair	15			SY	$ 130.00	$ -
16	Temporary Erosion Control	1		0.90	LS	$ 750.00	$ 675.00
17	Grassing	1		2.00	LS	$ 800.00	$ 1,600.00
18	Mobilization	1		1.00	LS	$ 5,000.00	$ 5,000.00
19	Maintenance of Traffic	1		0.90	LS	$ 1,800.00	$ 1,620.00
						Sub-total	$ 55,237.72
	Site 7 - Whitney, E 8th & E 10th Streets						**$302,261.00**
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	20		15.00	LF	$ 20.00	$ 300.00
2	4" Class 350 Ductile Iron Water Pipe (Open Cut)	20		14.00	LF	$ 30.00	$ 420.00
3	6" Class 350 Ductile Iron Water Pipe (Open Cut)	1,650		1740.36	LF	$ 22.00	$ 38,287.92
4	8" Class 350 Ductile Iron Water Pipe (Open Cut)	2,325		2224.00	LF	$ 26.00	$ 57,824.00
	Connection Items						
5	Connection: Proposed 8" Water Line to Proposed 8" Water Line (Tee & other fittings)	1			Each	$ 1,600.00	$ -
6	Connection: Proposed 8" Water Line to Proposed 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,600.00	$ 1,600.00
7	Connection: Proposed 8" Water Line to Existing 8" Water Line (Hot Tap w/ Valve Assembly)	1		2.00	Each	$ 2,500.00	$ 5,000.00
8	Connection: Proposed 8" Water Line to Existing 6" Water Line (Cross & other fittings)	1		1.00	Each	$ 2,000.00	$ 2,000.00
9	Connection: Proposed 8" Water Line to Existing 6" Water Line (Tee & other fittings)	2			Each	$ 1,900.00	$ -
10	Connection: Proposed 8" Water Line to Existing 2" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 650.00	$ 650.00

Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
11	Connection: Proposed 8" Water Line to Existing 1" Water Line (Hot Tap w/ Valve Assembly)	2		2.00	Each	$ 400.00	$ 800.00
12	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	1		5.00	Each	$ 1,900.00	$ 9,500.00
13	Connection: Proposed 6" Water Line to Existing 6" Water Line (Cross & other fittings)	1			Each	$ 1,900.00	$ -
14	Connection: Proposed 6" Water Line to Existing 4" Water Line (Cross & other fittings)	1		1.00	Each	$ 1,800.00	$ 1,800.00
	Valve and Hydrant Items						
15	4" Gate Valve	2		2.00	Each	$ 700.00	$ 1,400.00
16	6" Gate Valve	12		5.00	Each	$ 800.00	$ 4,000.00
17	8" Gate Valve	7		4.00	Each	$ 1,100.00	$ 4,400.00
18	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	6		6.00	Each	$ 3,325.00	$ 19,950.00
	Water Service Items						
19	Service Tubing (Bored) (Size Varies to 1 1/2")	755		526.00	LF	$ 24.00	$ 12,624.00
20	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	40		36.00	Each	$ 290.00	$ 10,440.00
21	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	1			Each	$ 432.00	$ -
	Miscellaneous Construction Items						
22	Removal of Fire Hydrant and Appurtenances	3		2.00	Each	$ 250.00	$ 500.00
23	Concrete Pavement Repair (All Depths)	155		7.50	SY	$ 115.00	$ 862.50
24	Asphalt Pavement Repair (All Depths)	759	32.09	256.53	SY	$ 86.00	$ 22,061.58
25	Concrete Curb & Gutter Repair (All Types)	50		37.00	LF	$ 50.00	$ 1,850.00
26	Concrete Sidewalk Repair	12		6.86	SY	$ 130.00	$ 891.80
27	Temporary Erosion Control	1		0.95	LS	$ 5,900.00	$ 5,605.00
28	Grassing	1		1.00	LS	$ 1,500.00	$ 1,500.00
29	Mobilization	1		1.00	LS	$ 19,500.00	$ 19,500.00
30	Maintenance of Traffic	1		0.95	LS	$ 2,350.00	$ 2,232.50
						Sut-total	$ 225,999.30
	Site 8 - E 6th Street						**$84,447.00**
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	20		55.00	LF	$ 20.00	$ 1,100.00
2	6" Class 350 Ductile Iron Water Pipe (Open Cut)	980		1075.00	LF	$ 23.00	$ 24,725.00
	Connection Items						
3	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	2		3.00	Each	$ 1,900.00	$ 5,700.00
4	Connection: Proposed 6" Water Line to Existing 2" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 650.00	$ 650.00
	Valve and Hydrant Items						
5	6" Gate Valve	2		4.00	Each	$ 800.00	$ 3,200.00
6	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	3		3.00	Each	$ 3,325.00	$ 9,975.00
	Water Service Items						
7	Service Tubing (Bored) (Size Varies to 1 1/2")	80		72.00	LF	$ 24.00	$ 1,728.00
8	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	7		6.00	Each	$ 285.00	$ 1,710.00
	Miscellaneous Construction Items						
9	Concrete Pavement Repair (All Depths)	44		19.74	SY	$ 122.00	$ 2,408.28
10	Asphalt Pavement Repair (All Depths)	301	16.21	71.96	SY	$ 89.00	$ 6,404.44
11	Concrete Curb & Gutter Repair (All Types)	20		3.00	LF	$ 65.00	$ 195.00
12	Concrete Sidewalk Repair	2			SY	$ 130.00	$ -
13	Temporary Erosion Control	1		0.95	LS	$ 750.00	$ 712.50
14	Grassing	1		1.00	LS	$ 800.00	$ 800.00
15	Mobilization	1		1.00	LS	$ 5,400.00	$ 5,400.00
16	Maintenance of Traffic	1		0.90	LS	$ 900.00	$ 810.00
						Sub-total	$ 65,518.22
	Site 9 – E 5th & Short E 5th Streets & Ferguson Alley						**$112,215.00**
	Water Pipe Items						
1	2" Class 350 Ductile Iron Water Pipe (Open Cut)	20		10.00	LF	$ 20.00	$ 200.00
2	4" Class 350 Ductile Iron Water Pipe (Open Cut)	230		207.00	LF	$ 30.00	$ 6,210.00

Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
3	6" Class 350 Ductile Iron Water Pipe (Open Cut)	1,090		1062.00	LF	$ 23.00	$ 24,426.00
	Connection Items						
4	Connection: Proposed 6" Water Line to Proposed 6" & 4" Water Lines (Tee & other fittings)	1		1.00	Each	$ 1,500.00	$ 1,500.00
5	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	2		2.00	Each	$1,900.00	$ 3,800.00
6	Connection: Proposed 4" Water Line to Existing 2" Water Line (Straight Connection & other fittings)	1		1.00	Each	$300.00	$ 300.00
	Valve and Hydrant Items						
7	4" Gate Valve	1		1.00	Each	$ 700.00	$ 700.00
8	6" Gate Valve	1		2.00	Each	$ 800.00	$ 1,600.00
9	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	4		4.00	Each	$ 3,325.00	$ 13,300.00
	Water Service Items						
10	Service Tubing (Bored) (Size Varies to 1 1/2")	60		128.00	LF	$ 24.00	$ 3,072.00
11	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	9		5.00	Each	$ 285.00	$ 1,425.00
	Miscellaneous Construction Items						
12	Removal of Fire Hydrant and Appurtenances	1		1.00	Each	$ 250.00	$ 250.00
13	Concrete Pavement Repair (All Depths)	13		18.10	SY	$ 150.00	$ 2,715.00
14	Asphalt Pavement Repair (All Depths)	460	226.19	232.51	SY	$ 88.00	$ 20,460.88
15	Concrete Curb & Gutter Repair (All Types)	20		28.00	LF	$ 65.00	$ 1,820.00
16	Concrete Sidewalk Repair	2		4.00	SY	$ 130.00	$ 520.00
17	Temporary Erosion Control	1		0.95	LS	$ 1,000.00	$ 950.00
18	Grassing	1		0.90	LS	$ 800.00	$ 720.00
19	Mobilization	1		1.00	LS	$ 7,000.00	$ 7,000.00
20	Maintenance of Traffic	1		0.90	LS	$ 2,400.00	$ 2,160.00
						Sub-total	$ 93,128.88
	Site 10 - River, E 6th & E 5th Streets & Beta Avenue						**$180,977.00**
	Water Pipe Items						
1	1" Sch 80 PVC (Open Cut)	10			LF	$ 15.00	$ -
2	2" Class 350 Ductile Iron Water Pipe (Open Cut)	270		244.00	LF	$ 20.00	$ 4,880.00
3	6" Class 350 Ductile Iron Water Pipe (Open Cut)	2,760		2504.00	LF	$ 23.00	$ 57,592.00
	Connection Items						
4	Connection: Proposed 6" Water Line to Proposed 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,300.00	$ 1,300.00
5	Connection: Proposed 6" Water Line to Proposed 6" & 2" Water Lines (Tee & other fittings)	1		1.00	Each	$ 1,400.00	$ 1,400.00
6	Connection: Proposed 6" Water Line to Proposed 6" & Existing 2" Water Lines (Tee & other fittings)	1		1.00	Each	$1,100.00	$ 1,100.00
7	Connection: Proposed 6" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$1,900.00	$ 1,900.00
8	Connection: Proposed 6" Water Line to Existing 6" Water Line (Tee & other fittings)	1		1.00	Each	$ 1,400.00	$ 1,400.00
9	Connection: Proposed 6" Water Line to Existing 6" Water Line (Straight Connection & other fittings)	1		1.00	Each	$ 600.00	$ 600.00
10	Connection: Proposed 2" Water Line to Existing 6" Water Line (Hot Tap w/ Valve Assembly)	1		1.00	Each	$ 850.00	$ 850.00
11	Connection: Proposed 2" Water Line to Existing 2" Water Line (Tee & other fittings)	1		1.00	Each	$ 400.00	$ 400.00
	Valve and Hydrant Items						
12	2" Gate Valve	2		1.00	Each	$ 600.00	$ 600.00
13	6" Gate Valve	6		6.00	Each	$ 800.00	$ 4,800.00
14	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)	6		6.00	Each	$ 3,325.00	$ 19,950.00
15	Blow-Off Valve w/ Appurtenances (Incl. Tee, Valve, Pipe & other fittings)	1		1.00	Each	$ 900.00	$ 900.00
	Water Service Items						
16	Service Tubing (Bored) (Size Varies to 1 1/2")	60		64.00	LF	$ 24.00	$ 1,536.00

Item No.	Item Description	Total Quantities: Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Unit Price	Amount
17	Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	19		12	Each	$ 285.00	$ 3,420.00
	Miscellaneous Construction Items						
18	Removal of Fire Hydrant and Appurtenances	2		2.00	Each	$ 250.00	$ 500.00
19	Concrete Pavement Repair (All Depths)	39		7.50	SY	$ 120.00	$ 900.00
20	Asphalt Pavement Repair (All Depths)	469	39.53	186.21	SY	$ 88.00	$ 16,386.48
21	Concrete Curb & Gutter Repair (All Types)	20		9.00	LF	$ 65.00	$ 585.00
22	Concrete Sidewalk Repair	8		7.14	SY	$ 130.00	$ 928.20
23	Temporary Erosion Control	1		0.95	LS	$ 2,200.00	$ 2,090.00
24	Grassing	1		0.90	LS	$ 1,500.00	$ 1,350.00
25	Mobilization	1		1.00	LS	$ 15,000.00	$ 15,000.00
26	Maintenance of Traffic	1		0.90	LS	$ 1,800.00	$ 1,620.00
						Sub-total	$ 221,503.36
						TOTAL SITES 1-10	$ 1,482,428.12

Percent Complete: 83%
Time Elapsed to date: 143%

Total Earned - Regular Work	$ 1,482,428.12
Less 5% Retainage	$ 74,121.41
Stored Materials	$ 15,770.70
Total Due - Regular Work	1,424,077.41
Less Previous Payments	$ 1,370,318.92
Net Amount Due This Estimate	$ 53,758.49
Less Deductions	$ -
Net Payment Due	$ 53,758.49

CERTIFIED CORRECT:
Shows, Dearman & Waits, Inc.

Project Engineer

APPROVED:

OWNER

sdw

Engineering Progress

February 1, 2017

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403

Attn: Lamar Rutland, P.E.

Re: 1500 GPM Wesley Well No. 2
City of Hattiesburg

Dear Lamar:

Enclosed please find Pay Estimate No. 1 for the above referenced project.

Should you have any questions or comments, please do not hesitate to call.

Sincerely,

John T. Weeks, P.E.
Project Engineer

/aa

Enclosure

cc: Ivy Riley, Wade Phillips, SDW

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

G:\PROJECTS\Hattiesburg_City of\1273-W006 - Wesley WTP Well\Corres\1273-W006_Hburg_App for Payment No. 1.docx

LR

SHOWS, DEARMAN & WAITS, INC. - CONSULTING ENGINEERS -

Date: 2-1-2017

Project: 1500 GPM Wesley Well No. 2

Contractor: Thompson Brothers Drilling, Inc.

Pay Estimate No.: One (1)

Pay Period: January 3, - February 1, 2017

Item No.	Item Description	Total Quantities On Cont. Qty.	Allowed This	Allowed To Date	Unit	Unit Price	Amount
						CONTRACT TOTAL:	$ 459,000.00
1	TEST HOLE – 850 L.F. Deep	1	1	1	L.S.	$155,000.00	$ 155,000.00
2	16"X12" 1500 GPM WATER WELL – 820 L.F. Deep	1	0.25	0.25	L.S.	$195,383.00	$ 48,845.75
2A	ADD TO ITEM No. 2 PER FOOT OF COMPLETED WELL BELOW 820 L.F.	0			L.F.	$400.00	$ -
2B	DEDUCT FROM ITEM No. 2 PER FOOT OF COMPLETED WELL ABOVE 820 L.F.	0			L.F.	$200.00	$ -
3	12" MASTER WATER METER	1			L.S.	$3,200.00	$ -
4	YARD PIPING – 12" DUCTILE IRON	1			L.S.	$38,740.00	$ -
5	CHAIN-LINK FENCE/GATES	440			L.F.	$15.40	$ -
6	ELECTRICAL WORK	1			L.S.	$26,950.00	$ -
7	WELL CONTROLS	1			L.S.	$30,951.00	$ -
8	EROSION CONTROL	1			L.S.	$1,000.00	$ -
9	GRASSING	1			L.S.	$1,000.00	$ -

% Complete	44%
% Time Elapsed	16%

Total Earned - Regular Work	$ 203,845.75
Less 5% Retainage	$ 10,192.29
Less Stored Materials	$ -
Total Due - Regular Work	$ 193,653.46
Less Previous Payments	$ -
Net Amount Due This Estimate	$ 193,653.46
Less Deductions	$ -
Net Payment Due	$ 193,653.46

CERTIFIED CORRECT:
Shows, Dearman & Waits, Inc.

Project Engineer

APPROVED:

OWNER

105695.7245.09
2016-321

sdw
Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 01, 2017
Project No: 1273-W006
Invoice No: 19482

Project Manager John Weeks

Project 1273-W006 Wesley WTP Well

Professional Services from January 01, 2017 to January 31, 2017

Phase CM Construction Management

Construction Cost	459,000.00
Fee Percentage	9.00
Total Fee	41,310.00

Billing Phase	Percent of Fee	Fee	Percent Complete	Earned	Previous Fee Billing	Current Fee Billing
Design Phase Services	100.00	41,310.00	100.00	41,310.00	41,310.00	0.00
		Totals		41,310.00	41,310.00	0.00
		Total Fee				**0.00**

Professional Personnel

	Hours	Rate	Amount	
SR. RESIDENT PROJECT REPRESENTATIVE				
Jackson, Terry	21.00	85.00	1,785.00	
GRADUATE ENGINEER				
Riley, Ivy	.50	105.00	52.50	
RESIDENT PROJECT REPRESENTATIVE				
Riley, Ivy	.50	105.00	52.50	
PROJECT ENGINEER				
Sellers, Bennie	3.00	150.00	450.00	
Weeks, John	22.50	175.00	3,937.50	
Totals	47.50		6,277.50	
Total Labor				**6,277.50**
		Total this Phase		**$6,277.50**
		Total this Invoice		**$6,277.50**

Outstanding Invoices

Number	Date	Balance
18093	7/1/2014	-4,290.00
19091	5/3/2016	489.80

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

105695.7245.09
2011-4 | 89-110 LR

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 02, 2017
Project No: 1273-W008
Invoice No: 19498

Project Manager Kyle Wallace

Project 1273-W008 ComSWIP Water Phase III - Mobile & Bouie

Professional Services from January 01, 2017 to January 31, 2017

Phase CM Mobile & Bouie - Construction Phase Svc

Professional Personnel

	Hours	Rate	Amount	
CONSTRUCTION OBSERVER				
Jackson, Terry	22.00	85.00	1,870.00	
Totals	22.00		1,870.00	
Total Labor				**1,870.00**
		Total this Phase		**$1,870.00**
		Total this Invoice		**$1,870.00**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

105695.7245.52
2011-4 | 89-110 LA

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 02, 2017
Project No: 1273-W007
Invoice No: 19500

Project Manager Kyle Wallace

Project 1273-W007 ComSWIP Water Phase II - Palmers Crossing

Professional Services from January 01, 2017 to January 31, 2017

Phase DD Palmer's Crossing - Design Phase

Professional Personnel

	Hours	Rate	Amount	
AUTO CAD TECHNICIAN				
Sullivan, Richard	1.00	85.00	85.00	
GRADUATE ENGINEER				
Riley, Ivy	35.00	100.00	3,500.00	
PROJECT ENGINEER				
Wallace, Kyle	10.00	150.00	1,500.00	
Totals	46.00		5,085.00	
Total Labor				**5,085.00**
		Total this Phase		**$5,085.00**
		Total this Invoice		**$5,085.00**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

105695.7245.51
2011-4/89-110 LR

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 02, 2017
Project No: 1273-W011
Invoice No: 19497

Project Manager Kyle Wallace

Project 1273-W011 Water Line Ext on Old 98 and Runnels

Professional Services from January 01, 2017 to January 31, 2017

Professional Personnel

	Hours	Rate	Amount	
CONSTRUCTION OBSERVER				
Jackson, Terry	28.00	85.00	2,380.00	
ENGINEERING INTERN				
Joseph, Marcelin	4.50	100.00	450.00	
PROJECT ENGINEER				
Sellers, Bennie	7.00	150.00	1,050.00	
Wallace, Kyle	13.50	150.00	2,025.00	
Totals	53.00		5,905.00	
Total Labor				**5,905.00**
		Total this Invoice		**$5,905.00**

Outstanding Invoices

Number	Date	Balance
19415	12/1/2016	3,725.00
19443	1/5/2017	19,390.00
Total		**23,115.00**

Total Now Due **$29,020.00**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

105695. 7245.11
2011-4/89-110 CR

sdw Engineering Progress

CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

February 03, 2017
Project No: 1273-W013
Invoice No: 19512

Project Manager Kyle Wallace

Project 1273-W013 COMSWIP WATER PH V - I-59 Crossing etal

Professional Services from January 01, 2017 to January 31, 2017

Professional Personnel

	Hours	Rate	Amount	
AUTO CAD TECHNICIAN				
Trahan, Beau	3.50	85.00	297.50	
PROJECT ENGINEER				
Sellers, Bennie	29.50	150.00	4,425.00	
Wallace, Kyle	3.00	150.00	450.00	
Totals	36.00		5,172.50	
Total Labor				**5,172.50**
		Total this Invoice		**$5,172.50**

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

105695.6015
2011-4 | 89-110 4R

City of Hattiesburg
2013 Sewer & Water Bond
Summary of Payments
As of February 14, 2017

Project Name	Payments by Project This Requisition	Payments to Date from This Bond
1500 GPM Water Well @ Plant No 1		539,421.83
1500 GPM Wesley Well No. 2	193,653.46	193,653.46
18" Sewer Trunk Lines		1,462,533.86
Clear Sewer ROW & Easements		30,022.50
Comprehensive Sanitary Sewer Study Task 1		6,300.00
Construction of Drying Bed at North Lagoon		18,000.00
Hwy 98 Booster Station		43,522.75
Hwy 98 Elevated Water Tank		113,226.30
Hwy 98 Fire Lines		48,652.50
Inflow and Infiltration Study		4,096,939.46
James St Water Well # 3		629,887.99
No-Discharge Wastewater Treatment System		292,127.60
NS Task 10 South Lagoon Sampling		43,676.87
NS Task 7 Wastewater Treatment Phase A		3,272,829.24
NS Task 7 WWTP Phase B Final Design		2,767,719.81
NS Task 8 WWTP Access Road & Site Design2		265,151.26
NS Task 9 WWTP Land Application Mgt		264,961.84
Providence Sewer Repair		62,172.00
Sewer Improvements Ph I		123,469.75
Sewer Improvements Ph II		259,327.58
Sewer Improvements Ph III		504,373.26
Sewer Improvements Ph IV		2,690.00
Sewer Improvements Ph V		124,290.00
Sewer Improvements Ph VII		3,158,462.43
Sewer Rate Study 2016		57,003.00
Veteran's Blvd Water Connector		1,555,895.52
Water Improvements Ph I		115,051.65
Water Improvements Ph II	5,085.00	226,656.83
Water Improvements Ph III	55,628.49	1,773,804.24
Water Improvements Ph IV		132,482.50
Water Improvements Ph V	5,172.50	67,037.50
Water Line Old 98 & Runnels Rd	5,905.00	618,069.28
Water Rate Study 2016		61,896.80
Wesley Water Well # 2	6,277.50	33,117.50
WTP #2 Filter #6 Repairs		110,863.40
Grand Total	**271,721.95**	**23,075,290.51**

Hattiesburg, Mississippi does hereby certify to Hancock Bank, as trustee in respect to the referenced Bonds (the Trustee"):

(1) The amounts herein requisitioned to be paid to the above-designated payees are for the items or services hereinabove described.
(2) The items or services listed above for which payment is proposed to be made hereunder have not formed the basis for any payment heretofore made from the Project Fund Construction Account.
(3) Each of the items was reasonable and necessary in connection with the "Construction Project" being financed pursuant to the Loan Agreement dated as of December 19, 2013 (the "Loan Agreement").
(4) The payment herein authorized and approved is a proper charge against the Project Fund Construction Account as provided for in Section 3 of the Loan Agreement.
(5) The invoices or statements from the contractor, vendor or other payee or other document supporting the amounts requisitioned herein are on file with the City.

CITY OF HATTIESBURG, MISSISSIPPI

By: _____
Title: Mayor or City Clerk
(Authorized City Representative)

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-219 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve or Deny the Transfer of $50,000.00 from H

Title: Approve or Deny the Transfer of $50,000.00 from HOME Residential Rehabilitation funds to be transferred to Tenant Based Rental Assistance funds to assist with disaster recovery. {Entitlement HOME}

Type: Action Item

Drafter: Clarence Williams

In Control: City Council

Reference: La'Keylah White

Attachments: Policy and/or Procedure Changes to Use of HOME funds for Disaster Recovery, CDBG- Fact Sheet

File Created: 02/02/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1 *Kim Bradley* | **Council - Ward 2** *Deborah Denard Delgado* | **Council - Ward 3** *Carter Carroll* | **Council - Ward 4** *Mary Dryden* | **Council - Ward 5** *Henry Naylor*

January 24, 2017

MEMORANDUM

TO: La'Keylah White, Director of Federal and State Programs

FROM: Clarence Williams, Community Development Manager

SUBJECT: Policy and/or Procedure Changes to allow usage of CDBG and HOME Programs Funds to assist with Disaster Recovery

According to HUD, "to assist in disaster recovery with CDBG or HOME funds, grantees may reprogram previously awarded grants to redirect their focus to disaster recovery activities". Specifically, under the HOME Program funds designated to address damage in a disaster, some HOME statutory and regulatory provisions may be suspended under authority of Section 290 and 24 CFR 92.4. The requirement for written Tenant Based Rental Assistance (TBRA) criteria to facilitate re-housing of displaced residents is the provision that is recommended for suspension.

Currently, the City's TBRA guidelines provide for the payment of deposit and first month's rent for those recipients of TBRA assistance. I propose that the number of months be increased to a minimum of three (3). I also propose that a minimum of $50,000.00 be taken from HOME Residential Rehabilitation and be moved to Tenant Based Rental Assistance. I estimate that at least 25 households will be able to benefit from this assistance. In order to expedite this process, I recommend that the Mayor be allowed to execute the TBRA contracts and for City Council to approve them "*non pro tunc*".

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FACT SHEET
Using CDBG and HOME Funds for Disaster Recovery

In general:

To assist in disaster recovery with **CDBG or HOME** funds, *grantees* may:

- reprogram previously awarded grants to redirect their focus to disaster recovery activities;
- and ***HUD*** may:
- expedite grant awards for grantees with program year start dates coming up in the near future;
- permit grantees with program year start dates later in the year to change to an earlier date;
- waive regulatory requirements to increase the flexibility of the use of funds for disaster recovery.

Provide regulatory and statutory relief in the use of CDBG and HOME in States and Localities designated as *Presidentially-declared Disaster Areas*:

HUD can waive regulatory and statutory program requirements to increase the flexibility of CDBG and HOME for disaster recovery.

In addition to the Secretary's authority to waive regulatory requirements, section 122 of the Housing and Community Act of 1974, as amended [42 U.S.C. 5321], authorizes the Secretary to suspend statutory requirements for use of CDBG funds in disaster areas as follows:

> *"For funds designated under this title by a recipient to address the damage in an area for which the President has declared a disaster under title IV of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the Secretary may suspend all requirements for purposes of assistance under section 106 for that area, except for those related to public notice of funding availability, nondiscrimination, fair housing, labor standards, environmental standards, and requirements that activities benefit persons of low- and moderate-income."*

HUD has determined that grantees may designate funds from existing or future grants to address damage in a Presidentially-declared disaster area and request the Secretary to suspend provisions of law or regulation for the purpose of making such funds available for disaster recovery activities. Such disaster suspension requests should be submitted to HUD field offices which will expedite the forwarding of such requests, together with field office reviews and recommendations, to headquarters.

Some *CDBG regulatory* provisions for which suspension requests might be expected include:

- extension of the deadline for submitting the annual performance report (CAPER) when the disaster delays its completion;
- change in the period, or extension of length of time (up to 3 years), within which to meet the 70 percent spending requirement (70 percent of expenditures must benefit low- and moderate-income persons); and

- removal of other limitations that are not required by statute.
- Some *CDBG statutory* provisions for which suspension requests might be expected include: removal of restrictions on the repair or reconstruction of buildings used for the general conduct of government;
- removal of prohibitions on new housing construction; and
- modification of the limitation on the amount of CDBG funds used for public services.

When suspensions are granted, the activities being carried out with the designated funds would operate under different requirements than the regular CDBG program. Therefore, the grantee will be required to annotate its Grantee Performance Report in such a way that activities for which suspensions have been granted are distinguishable from regular program activities.

The Department of Housing and Urban Development (HUD) may suspend a number of HOME statutory and regulatory requirements to facilitate the use of HOME funds for disaster recovery. Section 290 of the HOME Investment Partnerships Act [42 U.S.C. 12840] provides such authorization as follows:

> *"For funds designated under this title by a recipient to address the damage in an area for which the President has declared a disaster under title IV of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the Secretary may suspend all statutory requirements for purposes of assistance under this title for that area, except for those areas related to public notice of funding availability, nondiscrimination, fair housing, labor standards, environmental standards, and low-income housing affordability."*

Thus, for **HOME funds designated to address damage in a disaster area,** the following are examples of **HOME statutory and regulatory provisions** that may be suspended under authority of Section 290 and 24 CFR 92.4:

- ✓ requirement for written tenant selection criteria to facilitate re-housing of displaced residents;
- ✓ maximum per-unit subsidy limits for disaster-damaged properties; and
- ✓ require that disaster-damaged units being rehabilitated meet property standards.

In addition, Section 220(d)(5) of the HOME Investment Partnerships Act, as amended [42 U.S.C. 12750], as implemented by 24 CFR 92.222(b) of the HOME regulations, permits HUD to reduce the match liability for participating jurisdictions (local and state) by up to 100 percent with respect to funds expended in the declared disaster area during the fiscal year in which the disaster declaration was made and for the following fiscal year.

Some requirements that normally apply to the CDBG and HOME programs are automatically excluded in an emergency situation. For example, 2 CFR 200.320(f) provides that the competition usually required for contracting is not needed in certain emergency situations.

The grantee will be required to annotate and describe the activity in such a way in its consolidated plan action plan or amended action plan, as appropriate, that the activity is clearly distinguishable as a designated disaster recovery activity. The grantee should be reminded of the consolidated plan amendment requirements at 24 CFR 91.505. State and local governments should be cautious of potential **duplication of benefits** and the resulting penalties (e.g., double funding from two or more government agencies of the same costs, or duplication of payments for losses paid by private insurance, etc).

Eligible Use of CDBG Funds for Disaster Relief

Since the Federal government provides disaster relief primarily through FEMA and SBA to meet emergency, short-term recovery needs, the most appropriate use of CDBG funds is generally for longer term needs such as economic redevelopment of affected areas.

However, communities may elect to use their **CDBG funds for emergency, short-term assistance** if such activities are not funded by FEMA or SBA. (In many cases emergency needs will be funded by FEMA and advance payments from FEMA may be available.) Such CDBG activities typically include the following, if they are not fully covered by FEMA:

- **clearance of debris;**
- **provision of extra security patrols;**
- **demolition, clearance and/or reconstruction of damaged property posing an immediate threat to public safety;**
- **emergency reconstruction of essential water, sewer, electrical and telephone facilities;**
- **providing a variety of relief services to individuals and businesses; and**
- **matching FEMA or other aid programs.**

All CDBG assisted activities, including those used for emergencies, must meet one of three CDBG national objectives. Therefore, not all of the community's needs may be suitable to be met through use of CDBG funds. **States and entitlement communities** must spend at least 70% of their funds for activities that benefit low- and moderate-income persons. HUD may be able to extend the length of time that the recipient has to meet this requirement if needed to accommodate emergency activities that would not principally benefit such persons.

Each state establishes its own method to distribute funds as part of its annual application, normally submitted in March each year. Some states provide a set-aside for use in responding to emergency needs in their communities. Other states provide for flexibility of reordering funding categories in the event of a disaster occurring within the state.

Those that do not may amend their programs at any time to change funding priorities for any funds that have not already been committed. Citizen participation procedures must be followed and waiver requests for such requirements are not encouraged. However, **a state may put its process on a fast track commensurate with the need to provide disaster relief**.

Non entitlement local governments which already have received a grant from the state may ask the state to permit an amendment if the locality determines that the disaster has created higher priority needs. Each state has the authority to respond to such a request and **each state has different applicable policies**. If a state should establish a set-aside for disaster recovery, localities must of course develop applications and apply. This process also involves citizen participation but it may be accelerated consistent with the need to address an emergency situation.

Section 108 Loan Guarantees:
Most entitlement and smaller communities could apply for a loan guarantee (*under the Section 108 program described below) at any time, provided that HUD has not exceeded its commitment authority to make such guarantees for the year, the use the community would want to make of the funds is eligible for such assistance, and the community (or where applicable the state*) has not already reached its maximum guarantee level under that program.

The Section 108 Loan Guarantee program is another source of assistance for redevelopment of affected areas. Under the 108 program:

- **Entitlement communities** can receive (*in the aggregate*) loan guarantees equal to 5 times their CDBG entitlement amount.

- Communities in **non-entitlement areas** can receive loan guarantees (*in the aggregate*) equal to 5 times the state's grant under the CDBG program. (However, the *state must be willing to pledge its* **CDBG** *funds as security for loan guarantees provided to non-entitlement communities.*)

The **maximum loan repayment period is 20 years**. Grantees that have received guarantees in the past for activities that have yet not materialized may also request that HUD approve the use of those funds for other activities.

The Section 108 loan guarantees can be used to finance acquisition of real property (including related public improvements, clearance, and relocation), rehabilitation of publicly owned real property (including infrastructure such as streets), housing rehabilitation, public facilities, and economic development activities.

In general, the guaranteed loan funds must be used in accordance with all of the other requirements that apply to **CDBG** funds received directly from HUD, including the 70 percent spending requirement discussed above. (*This means that the spending of the loan proceeds must be considered together with the spending of grant funds and program income to ensure that at least 70 percent has been spent on activities that principally benefit low- and moderate-income persons within the period certified by the grantee.*) Presently, the Department has no authority to waive statutory requirements for the Section 108 Loan Guarantee program.

filename: Using CDBG & HOME Funds for Disaster Recovery Fact Sheet
Location: Y2016 Info Dissemination
10-13-16; revised 10-14-16

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-244 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve agreement with Shows, Dearman & Waits for the Water Plant #1 Rehab Project

Title: Approve and Authorize Mayor to execute, in duplicate, an agreement between the City of Hattiesburg and Shows, Dearman & Waits, Inc. to provide professional services for the COMSWIP Water Plant #1 Rehabilitation Project (1273-W015).

Type: Action Item

Drafter: Marie Harris

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AGREEMENT
BETWEEN OWNER AND ENGINEER
FOR PROFESSIONAL SERVICES

Prepared by

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ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

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National Society of Professional Engineers

1420 King Street, Alexandria, VA 22314-2794

(703) 684-2882

www.nspe.org

American Council of Engineering Companies

1015 15th Street N.W., Washington, DC 20005

(202) 347-7474

www.acec.org

American Society of Civil Engineers

1801 Alexander Bell Drive, Reston, VA 20191-4400

(800) 548-2723

www.asce.org

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AGREEMENT
BETWEEN OWNER AND ENGINEER
FOR PROFESSIONAL SERVICES

THIS IS AN AGREEMENT effective as of _____ ("Effective Date") between

The City of Hattiesburg ("Owner") and

Shows, Dearman and Waits, Inc. ("Engineer").

Owner's Project, of which Engineer's services under this Agreement are a part, is generally identified as follows:
Rehabilitate Water Treatment Plant #1

("Project").

Other terms used in this Agreement are defined in Article 7.

Engineer's services under this Agreement are generally identified as follows: Design and preparation of plans and specifications for the intended rehabilitation further defined in the scope of this agreement under Exhibit A, coordinate submission of construction plans and specifications to the MSDOH, and provide construction engineering and inspection services.

Owner and Engineer further agree as follows:

ARTICLE 1 – SERVICES OF ENGINEER

1.01 *Scope*

A. Engineer shall provide, or cause to be provided, the services set forth herein and in Exhibit A.

ARTICLE 2 – OWNER'S RESPONSIBILITIES

2.01 *General*

A. Owner shall have the responsibilities set forth herein and in Exhibit B.

B. Owner shall pay Engineer as set forth in Article 4 and Exhibit C.

C. Owner shall be responsible for all requirements and instructions that it furnishes to Engineer pursuant to this Agreement, and for the accuracy and completeness of all programs, reports, data, and other information furnished by Owner to Engineer pursuant to this Agreement. Engineer may use and rely upon such requirements, programs, instructions, reports, data, and information in performing or furnishing services under this Agreement, subject to any express limitations or reservations applicable to the furnished items.

D. Owner shall give prompt written notice to Engineer whenever Owner observes or otherwise becomes aware of:

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1. any development that affects the scope or time of performance of Engineer's services;

2. the presence at the Site of any Constituent of Concern; or

3. any relevant, material defect or nonconformance in: (a) Engineer's services, (b) the Work, (c) the performance of any Constructor, or (d) Owner's performance of its responsibilities under this Agreement.

ARTICLE 3 – SCHEDULE FOR RENDERING SERVICES

3.01 *Commencement*

A. Engineer is authorized to begin rendering services as of the Effective Date.

3.02 *Time for Completion*

A. Engineer shall complete its obligations within a reasonable time. Specific periods of time for rendering services, or specific dates by which services are to be completed, are provided in Exhibit A, and are hereby agreed to be reasonable.

B. If, through no fault of Engineer, such periods of time or dates are changed, or the orderly and continuous progress of Engineer's services is impaired, or Engineer's services are delayed or suspended, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.

C. If Owner authorizes changes in the scope, extent, or character of the Project or Engineer's services, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.

D. Owner shall make decisions and carry out its other responsibilities in a timely manner so as not to delay the Engineer's performance of its services.

E. If Engineer fails, through its own fault, to complete the performance required in this Agreement within the time set forth, as duly adjusted, then Owner shall be entitled, as its sole remedy, to the recovery of direct damages, if any, resulting from such failure.

ARTICLE 4 – INVOICES AND PAYMENTS

4.01 *Invoices*

A. *Preparation and Submittal of Invoices:* Engineer shall prepare invoices in accordance with its standard invoicing practices and the terms of Exhibit C. Engineer shall submit its invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt.

4.02 *Payments*

A. *Application to Interest and Principal:* Payment will be credited first to any interest owed to Engineer and then to principal.

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B. *Failure to Pay*: If Owner fails to make any payment due Engineer for services and expenses within 30 days after receipt of Engineer's invoice, then:

1. amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day; and

2. Engineer may, after giving seven days written notice to Owner, suspend services under this Agreement until Owner has paid in full all amounts due for services, expenses, and other related charges. Owner waives any and all claims against Engineer for any such suspension.

C. *Disputed Invoices:* If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise Engineer in writing of the specific basis for doing so, may withhold only that portion so disputed, and must pay the undisputed portion subject to the terms of Paragraph 4.01.

D. *Sales or Use Taxes:* If after the Effective Date any governmental entity takes a legislative action that imposes additional sales or use taxes on Engineer's services or compensation under this Agreement, then Engineer may invoice such additional sales or use taxes for reimbursement by Owner. Owner shall reimburse Engineer for the cost of such invoiced additional sales or use taxes; such reimbursement shall be in addition to the compensation to which Engineer is entitled under the terms of Exhibit C.

ARTICLE 5 – OPINIONS OF COST

5.01 *Opinions of Probable Construction Cost*

A. Engineer's opinions (if any) of probable Construction Cost are to be made on the basis of Engineer's experience, qualifications, and general familiarity with the construction industry. However, because Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by Engineer. If Owner requires greater assurance as to probable Construction Cost, then Owner agrees to obtain an independent cost estimate.

5.02 *Designing to Construction Cost Limit*

A. If a Construction Cost limit is established between Owner and Engineer, such Construction Cost limit and a statement of Engineer's rights and responsibilities with respect thereto will be specifically set forth in Exhibit F to this Agreement.

5.03 *Opinions of Total Project Costs*

A. The services, if any, of Engineer with respect to Total Project Costs shall be limited to assisting the Owner in tabulating the various categories that comprise Total Project Costs. Engineer assumes no responsibility for the accuracy of any opinions of Total Project Costs.

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ARTICLE 6 – GENERAL CONSIDERATIONS

6.01 *Standards of Performance*

A. *Standard of Care:* The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Engineer.

B. *Technical Accuracy:* Owner shall not be responsible for discovering deficiencies in the technical accuracy of Engineer's services. Engineer shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Owner-furnished information.

C. *Consultants:* Engineer may retain such Consultants as Engineer deems necessary to assist in the performance or furnishing of the services, subject to reasonable, timely, and substantive objections by Owner.

D. *Reliance on Others:* Subject to the standard of care set forth in Paragraph 6.01.A, Engineer and its Consultants may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.

E. *Compliance with Laws and Regulations, and Policies and Procedures:*

1. Engineer and Owner shall comply with applicable Laws and Regulations.

2. Engineer shall comply with any and all policies, procedures, and instructions of Owner that are applicable to Engineer's performance of services under this Agreement and that Owner provides to Engineer in writing, subject to the standard of care set forth in Paragraph 6.01.A, and to the extent compliance is not inconsistent with professional practice requirements.

3. This Agreement is based on Laws and Regulations and Owner-provided written policies and procedures as of the Effective Date. The following may be the basis for modifications to Owner's responsibilities or to Engineer's scope of services, times of performance, or compensation:

   a. changes after the Effective Date to Laws and Regulations;

   b. the receipt by Engineer after the Effective Date of Owner-provided written policies and procedures;

   c. changes after the Effective Date to Owner-provided written policies or procedures.

F. Engineer shall not be required to sign any document, no matter by whom requested, that would result in the Engineer having to certify, guarantee, or warrant the existence of conditions whose existence the Engineer cannot ascertain. Owner agrees not to make

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resolution of any dispute with the Engineer or payment of any amount due to the Engineer in any way contingent upon the Engineer signing any such document.

G. The general conditions for any construction contract documents prepared hereunder are to be EJCDC® C-700 "Standard General Conditions of the Construction Contract" (2013 Edition), prepared by the Engineers Joint Contract Documents Committee, unless expressly indicated otherwise in Exhibit J or elsewhere in this Agreement.

H. Engineer shall not at any time supervise, direct, control, or have authority over any Constructor's work, nor shall Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Site, nor for any failure of a Constructor to comply with Laws and Regulations applicable to that Constructor's furnishing and performing of its work. Engineer shall not be responsible for the acts or omissions of any Constructor.

I. Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's, failure to furnish and perform the Work in accordance with the Construction Contract Documents.

J. Engineer shall not be responsible for any decision made regarding the Construction Contract Documents, or any application, interpretation, clarification, or modification of the Construction Contract Documents, other than those made by Engineer or its Consultants.

K. Engineer is not required to provide and does not have any responsibility for surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements.

L. Engineer's services do not include providing legal advice or representation.

M. Engineer's services do not include (1) serving as a "municipal advisor" for purposes of the registration requirements of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and Exchange Commission, or (2) advising Owner, or any municipal entity or other person or entity, regarding municipal financial products or the issuance of municipal securities, including advice with respect to the structure, timing, terms, or other similar matters concerning such products or issuances.

N. While at the Site, Engineer, its Consultants, and their employees and representatives shall comply with the applicable requirements of Contractor's and Owner's safety programs of which Engineer has been informed in writing.

6.02 *Design Without Construction Phase Services*

A. Engineer shall be responsible only for those Construction Phase services expressly required of Engineer in Exhibit A, Paragraph A1.05. With the exception of such expressly required services, Engineer shall have no design, Shop Drawing review, or other obligations during construction, and Owner assumes all responsibility for the application and interpretation of the Construction Contract Documents, review and response to

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Contractor claims, Construction Contract administration, processing of Change Orders and submittals, revisions to the Construction Contract Documents during construction, construction observation and review, review of Contractor's payment applications, and all other necessary Construction Phase administrative, engineering, and professional services. Owner waives all claims against the Engineer that may be connected in any way to Construction Phase administrative, engineering, or professional services except for those services that are expressly required of Engineer in Exhibit A.

6.03 *Use of Documents*

A. All Documents are instruments of service, and Engineer shall retain an ownership and property interest therein (including the copyright and the right of reuse at the discretion of the Engineer) whether or not the Project is completed.

B. If Engineer is required to prepare or furnish Drawings or Specifications under this Agreement, Engineer shall deliver to Owner at least one original printed record version of such Drawings and Specifications, signed and sealed according to applicable Laws and Regulations.

C. Owner may make and retain copies of Documents for information and reference in connection with the use of the Documents on the Project. Engineer grants Owner a limited license to use the Documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment due and owing for all services relating to preparation of the Documents, and subject to the following limitations: (1) Owner acknowledges that such Documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer; (2) any such use or reuse, or any modification of the Documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and Consultants; (3) Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the Documents without written verification, completion, or adaptation by Engineer; and (4) such limited license to Owner shall not create any rights in third parties.

D. If Engineer at Owner's request verifies the suitability of the Documents, completes them, or adapts them for extensions of the Project or for any other purpose, then Owner shall compensate Engineer at rates or in an amount to be agreed upon by Owner and Engineer.

6.04 *Electronic Transmittals*

A. Owner and Engineer may transmit, and shall accept, Project-related correspondence, Documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, in accordance with a mutually agreeable protocol.

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B. If this Agreement does not establish protocols for electronic or digital transmittals, then Owner and Engineer shall jointly develop such protocols.

C. When transmitting items in electronic media or digital format, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the items, or from those established in applicable transmittal protocols.

6.05 *Insurance*

A. Engineer shall procure and maintain insurance as set forth in Exhibit G. Engineer shall cause Owner to be listed as an additional insured on any applicable general liability insurance policy carried by Engineer.

B. Owner shall procure and maintain insurance as set forth in Exhibit G. Owner shall cause Engineer and its Consultants to be listed as additional insureds on any general liability policies carried by Owner, which are applicable to the Project.

C. Owner shall require Contractor to purchase and maintain policies of insurance covering workers' compensation, general liability, motor vehicle damage and injuries, and other insurance necessary to protect Owner's and Engineer's interests in the Project. Owner shall require Contractor to cause Engineer and its Consultants to be listed as additional insureds with respect to such liability insurance purchased and maintained by Contractor for the Project.

D. Owner and Engineer shall each deliver to the other certificates of insurance evidencing the coverages indicated in Exhibit G. Such certificates shall be furnished prior to commencement of Engineer's services and at renewals thereafter during the life of the Agreement.

E. All policies of property insurance relating to the Project, including but not limited to any builder's risk policy, shall allow for waiver of subrogation rights and contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any insured thereunder or against Engineer or its Consultants. Owner and Engineer waive all rights against each other, Contractor, the Consultants, and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by any builder's risk policy and any other property insurance relating to the Project. Owner and Engineer shall take appropriate measures in other Project-related contracts to secure waivers of rights consistent with those set forth in this paragraph.

F. All policies of insurance shall contain a provision or endorsement that the coverage afforded will not be canceled or reduced in limits by endorsement, and that renewal will not be refused, until at least 10 days prior written notice has been given to the primary insured. Upon receipt of such notice, the receiving party shall promptly forward a copy of the notice to the other party to this Agreement.

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G. At any time, Owner may request that Engineer or its Consultants, at Owner's sole expense, provide additional insurance coverage, increased limits, or revised deductibles that are more protective than those specified in Exhibit G. If so requested by Owner, and if commercially available, Engineer shall obtain and shall require its Consultants to obtain such additional insurance coverage, different limits, or revised deductibles for such periods of time as requested by Owner, and Exhibit G will be supplemented to incorporate these requirements.

6.06 *Suspension and Termination*

A. *Suspension:*

1. *By Owner*: Owner may suspend the Project for up to 90 days upon seven days written notice to Engineer.

2. *By Engineer*: Engineer may, after giving seven days written notice to Owner, suspend services under this Agreement if Owner has failed to pay Engineer for invoiced services and expenses, as set forth in Paragraph 4.02.B, or in response to the presence of Constituents of Concern at the Site, as set forth in Paragraph 6.10.D.

B. *Termination*: The obligation to provide further services under this Agreement may be terminated:

1. For cause,

a. by either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.

b. by Engineer:

1) upon seven days written notice if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or

2) upon seven days written notice if the Engineer's services for the Project are delayed or suspended for more than 90 days for reasons beyond Engineer's control, or as the result of the presence at the Site of undisclosed Constituents of Concern, as set forth in Paragraph 6.10.D.

3) Engineer shall have no liability to Owner on account of such termination.

c. Notwithstanding the foregoing, this Agreement will not terminate under Paragraph 6.06.B.1.a if the party receiving such notice begins, within seven days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt thereof; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same,

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then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. For convenience, by Owner effective upon Engineer's receipt of notice from Owner.

C. *Effective Date of Termination:* The terminating party under Paragraph 6.06.B may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Engineer to demobilize personnel and equipment from the Site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files.

D. *Payments Upon Termination:*

1. In the event of any termination under Paragraph 6.06, Engineer will be entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all Reimbursable Expenses incurred through the effective date of termination. Upon making such payment, Owner shall have the limited right to the use of Documents, at Owner's sole risk, subject to the provisions of Paragraph 6.03.

2. In the event of termination by Owner for convenience or by Engineer for cause, Engineer shall be entitled, in addition to invoicing for those items identified in Paragraph 6.06.D.1, to invoice Owner and receive payment of a reasonable amount for services and expenses directly attributable to termination, both before and after the effective date of termination, such as reassignment of personnel, costs of terminating contracts with Engineer's Consultants, and other related close-out costs, using methods and rates for Additional Services as set forth in Exhibit C.

6.07 *Controlling Law*

A. This Agreement is to be governed by the Laws and Regulations of the state in which the Project is located.

6.08 *Successors, Assigns, and Beneficiaries*

A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 6.08.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the successors, executors, administrators and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.

B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

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C. Unless expressly provided otherwise in this Agreement:

1. Nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any Constructor, other third-party individual or entity, or to any surety for or employee of any of them.

2. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.

3. Owner agrees that the substance of the provisions of this Paragraph 6.08.C shall appear in the Construction Contract Documents.

6.09 *Dispute Resolution*

A. Owner and Engineer agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice prior to invoking the procedures of Exhibit H or other provisions of this Agreement, or exercising their rights at law.

B. If the parties fail to resolve a dispute through negotiation under Paragraph 6.09.A, then either or both may invoke the procedures of Exhibit H. If Exhibit H is not included, or if no dispute resolution method is specified in Exhibit H, then the parties may exercise their rights at law.

6.10 *Environmental Condition of Site*

A. Owner represents to Engineer that as of the Effective Date to the best of Owner's knowledge no Constituents of Concern, other than those disclosed in writing to Engineer, exist at or adjacent to the Site.

B. If Engineer encounters or learns of an undisclosed Constituent of Concern at the Site, then Engineer shall notify (1) Owner and (2) appropriate governmental officials if Engineer reasonably concludes that doing so is required by applicable Laws or Regulations.

C. It is acknowledged by both parties that Engineer's scope of services does not include any services related to unknown or undisclosed Constituents of Concern. If Engineer or any other party encounters, uncovers, or reveals an undisclosed Constituent of Concern, then Owner shall promptly determine whether to retain a qualified expert to evaluate such condition or take any necessary corrective action.

D. If investigative or remedial action, or other professional services, are necessary with respect to undisclosed Constituents of Concern, or if investigative or remedial action beyond that reasonably contemplated is needed to address a disclosed or known Constituent of Concern, then Engineer may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the Project affected thereby until such portion of the Project is no longer affected.

E. If the presence at the Site of undisclosed Constituents of Concern adversely affects the performance of Engineer's services under this Agreement, then the Engineer shall have the option of (1) accepting an equitable adjustment in its compensation or in the time of completion, or both; or (2) terminating this Agreement for cause on seven days notice.

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F. Owner acknowledges that Engineer is performing professional services for Owner and that Engineer is not and shall not be required to become an "owner," "arranger," "operator," "generator," or "transporter" of hazardous substances, as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, which are or may be encountered at or near the Site in connection with Engineer's activities under this Agreement.

6.11 *Indemnification and Mutual Waiver*

A. *Indemnification by Engineer:* To the fullest extent permitted by Laws and Regulations, Engineer shall indemnify and hold harmless Owner, and Owner's officers, directors, members, partners, agents, consultants, and employees, from losses, damages, and judgments (including reasonable consultants' and attorneys' fees and expenses) arising from third-party claims or actions relating to the Project, provided that any such claim, action, loss, damages, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Engineer or Engineer's officers, directors, members, partners, agents, employees, or Consultants. **This indemnification provision is subject to and limited by the provisions, if any, agreed to by Owner and Engineer in Exhibit I, "Limitations of Liability."**

B. *Indemnification by Owner:* Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants as required by Laws and Regulations **and to the extent (if any) required in Exhibit I, "Limitations of Liability."**

C. *Environmental Indemnification:* To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants from all claims, costs, losses, damages, actions, and judgments (including reasonable consultants' and attorneys fees and expenses) caused by, arising out of, relating to, or resulting from a Constituent of Concern at, on, or under the Site, provided that (1) any such claim, cost, loss, damages, action, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, and (2) nothing in this paragraph shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence or willful misconduct.

D. *No Defense Obligation:* The indemnification commitments in this Agreement do not include a defense obligation by the indemnitor unless such obligation is expressly stated.

E. *Percentage Share of Negligence:* To the fullest extent permitted by Laws and Regulations, a party's total liability to the other party and anyone claiming by, through, or under the other party for any cost, loss, or damages caused in part by the negligence of the party and in part by the negligence of the other party or any other negligent entity or individual, shall not exceed the percentage share that the party's negligence bears to the total negligence of Owner, Engineer, and all other negligent entities and individuals.

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F. *Mutual Waiver:* To the fullest extent permitted by Laws and Regulations, Owner and Engineer waive against each other, and the other's employees, officers, directors, members, agents, insurers, partners, and consultants, any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to this Agreement or the Project, from any cause or causes.

6.12 *Records Retention*

A. Engineer shall maintain on file in legible form, for a period of five years following completion or termination of its services, all Documents, records (including cost records), and design calculations related to Engineer's services or pertinent to Engineer's performance under this Agreement. Upon Owner's request, Engineer shall provide a copy of any such item to Owner at cost.

6.13 *Miscellaneous Provisions*

A. *Notices:* Any notice required under this Agreement will be in writing, addressed to the appropriate party at its address on the signature page and given personally, by registered or certified mail postage prepaid, or by a commercial courier service. All notices shall be effective upon the date of receipt.

B. *Survival:* All express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination for any reason.

C. *Severability:* Any provision or part of the Agreement held to be void or unenforceable under any Laws or Regulations shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Engineer, which agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

D. *Waiver:* A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

E. *Accrual of Claims:* To the fullest extent permitted by Laws and Regulations, all causes of action arising under this Agreement shall be deemed to have accrued, and all statutory periods of limitation shall commence, no later than the date of Substantial Completion.

ARTICLE 7 – DEFINITIONS

7.01 *Defined Terms*

A. Wherever used in this Agreement (including the Exhibits hereto) terms (including the singular and plural forms) printed with initial capital letters have the meanings indicated in the text above, in the exhibits, or in the following definitions:

1. *Addenda*—Written or graphic instruments issued prior to the opening of bids which clarify, correct, or change the bidding requirements or the proposed Construction Contract Documents.

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2. *Additional Services*—The services to be performed for or furnished to Owner by Engineer in accordance with Part 2 of Exhibit A of this Agreement.

3. *Agreement*—This written contract for professional services between Owner and Engineer, including all exhibits identified in Paragraph 8.01 and any duly executed amendments.

4. *Application for Payment*—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Construction Contract.

5. *Basic Services*—The services to be performed for or furnished to Owner by Engineer in accordance with Part 1 of Exhibit A of this Agreement.

6. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Construction Contract Price or the Construction Contract Times, or other revision to the Construction Contract, issued on or after the effective date of the Construction Contract.

7. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth in the Construction Contract, seeking an adjustment in Construction Contract Price or Construction Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Construction Contract Documents or the acceptability of Work under the Construction Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Construction Contract.

8. *Constituent of Concern*—Asbestos, petroleum, radioactive material, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5501 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, State, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

9. *Construction Contract*—The entire and integrated written contract between the Owner and Contractor concerning the Work.

10. *Construction Contract Documents*—Those items designated as "Contract Documents" in the Construction Contract, and which together comprise the Construction Contract.

11. *Construction Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Construction Contract Documents.

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12. *Construction Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve milestones, if any, in the Construction Contract; (b) achieve Substantial Completion; and (c) complete the Work.

13. *Construction Cost*—The cost to Owner of the construction of those portions of the entire Project designed or specified by or for Engineer under this Agreement, including construction labor, services, materials, equipment, insurance, and bonding costs, and allowances for contingencies. Construction Cost does not include costs of services of Engineer or other design professionals and consultants; cost of land or rights-of-way, or compensation for damages to property; Owner's costs for legal, accounting, insurance counseling, or auditing services; interest or financing charges incurred in connection with the Project; or the cost of other services to be provided by others to Owner. Construction Cost is one of the items comprising Total Project Costs.

14. *Constructor*—Any person or entity (not including the Engineer, its employees, agents, representatives, and Consultants), performing or supporting construction activities relating to the Project, including but not limited to Contractors, Subcontractors, Suppliers, Owner's work forces, utility companies, other contractors, construction managers, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.

15. *Consultants*—Individuals or entities having a contract with Engineer to furnish services with respect to this Project as Engineer's independent professional associates and consultants; subcontractors; or vendors.

16. *Contractor*—The entity or individual with which Owner enters into a Construction Contract.

17. *Documents*—Data, reports, Drawings, Specifications, Record Drawings, building information models, civil integrated management models, and other deliverables, whether in printed or electronic format, provided or furnished in appropriate phases by Engineer to Owner pursuant to this Agreement.

18. *Drawings*—That part of the Construction Contract Documents that graphically shows the scope, extent, and character of the Work to be performed by Contractor.

19. *Effective Date*—The date indicated in this Agreement on which it becomes effective, but if no such date is indicated, the date on which this Agreement is signed and delivered by the last of the parties to sign and deliver.

20. *Engineer*—The individual or entity named as such in this Agreement.

21. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Construction Contract Price or the Construction Contract Times.

22. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

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23. *Owner*—The individual or entity named as such in this Agreement and for which Engineer's services are to be performed. Unless indicated otherwise, this is the same individual or entity that will enter into any Construction Contracts concerning the Project.

24. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the services to be performed or furnished by Engineer under this Agreement are a part.

25. *Record Drawings*—Drawings depicting the completed Project, or a specific portion of the completed Project, prepared by Engineer as an Additional Service and based on Contractor's record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications, as delivered to Engineer and annotated by Contractor to show changes made during construction.

26. *Reimbursable Expenses*—The expenses incurred directly by Engineer in connection with the performing or furnishing of Basic Services and Additional Services for the Project.

27. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site during the Construction Phase. As used herein, the term Resident Project Representative or "RPR" includes any assistants or field staff of Resident Project Representative. The duties and responsibilities of the Resident Project Representative, if any, are as set forth in Exhibit D.

28. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.

29. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Construction Contract Documents.

30. *Site*—Lands or areas to be indicated in the Construction Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands furnished by Owner which are designated for the use of Contractor.

31. *Specifications*—The part of the Construction Contract Documents that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.

32. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.

33. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part

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thereof) is sufficiently complete, in accordance with the Construction Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

34. *Supplier*—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.

35. *Total Project Costs*—The total cost of planning, studying, designing, constructing, testing, commissioning, and start-up of the Project, including Construction Cost and all other Project labor, services, materials, equipment, insurance, and bonding costs, allowances for contingencies, and the total costs of services of Engineer or other design professionals and consultants, together with such other Project-related costs that Owner furnishes for inclusion, including but not limited to cost of land, rights-of-way, compensation for damages to properties, Owner's costs for legal, accounting, insurance counseling, and auditing services, interest and financing charges incurred in connection with the Project, and the cost of other services to be provided by others to Owner.

36. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Construction Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Construction Contract Documents.

37. *Work Change Directive*—A written directive to Contractor issued on or after the effective date of the Construction Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

B. *Day*:

1. The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

ARTICLE 8 – EXHIBITS AND SPECIAL PROVISIONS

8.01 *Exhibits Included:*

A. Exhibit A, Engineer's Services.

B. Exhibit B, Owner's Responsibilities.

C. Exhibit C, Payments to Engineer for Services and Reimbursable Expenses.

D. Exhibit D, Duties, Responsibilities and Limitations of Authority of Resident Project Representative.

E. Exhibit E, DELETED

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F. Exhibit F, DELETED

G. Exhibit G, Insurance.

H. Exhibit H, DELETED

I. Exhibit I, Limitations of Liability.

J. Exhibit J, DELETED

K. Exhibit K, DELETED

8.02 *Total Agreement*

A. This Agreement, (together with the exhibits included above) constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a written instrument duly executed by both parties.

8.03 *Designated Representatives*

A. With the execution of this Agreement, Engineer and Owner shall designate specific individuals to act as Engineer's and Owner's representatives with respect to the services to be performed or furnished by Engineer and responsibilities of Owner under this Agreement. Such an individual shall have authority to transmit instructions, receive information, and render decisions relative to this Agreement on behalf of the respective party whom the individual represents.

8.04 *Engineer's Certifications*

A. Engineer certifies that it has not engaged in corrupt, fraudulent, or coercive practices in competing for or in executing the Agreement. For the purposes of this Paragraph 8.04:

1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the selection process or in the Agreement execution;

2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the selection process or the execution of the Agreement to the detriment of Owner, or (b) to deprive Owner of the benefits of free and open competition;

3. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the selection process or affect the execution of the Agreement.

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

Owner: City of Hattiesburg

By: _____

Print name: Johnny L. DuPree, Ph.D.

Title: Mayor

Date Signed: _____

Engineer: Shows, Dearman and Waits, Inc.

By: _____

Print name: John T. Weeks, P.E.

Title: Vice-President

Date Signed: 2/13/17

Engineer License or Firm's Certificate No. (if required):

18912 E-4

State of: Mississippi

Address for Owner's receipt of notices:

P.O. Box 1898

Hattiesburg, MS 39403-1898

Designated Representative (Paragraph 8.03.A):

Lamar Rutland, P.E.

Title: Director of Engineering

Phone Number: 601-545-4540

E-Mail Address: lrutland@hattiesburgms.com

Address for Engineer's receipt of notices:

301 Second Avenue

Hattiesburg, MS 39401

Designated Representative (Paragraph 8.03.A):

Nicholas M. Connolly, P.E., P.L.S.

Title: Vice-President

Phone Number: 601-544-1821

E-Mail Address: nick@sd-w.com

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This is **EXHIBIT A**, consisting of **16** pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Engineer's Services

Article 1 of the Agreement is supplemented to include the following agreement of the parties.

Engineer shall provide Basic and Additional Services as set forth below.

PART 1 – BASIC SERVICES

A. Study and Report Phase Engineer shall:

1. Consult with Owner to define and clarify Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations, and identify available data, information, reports, facilities plans, and site evaluations.

   a. If Owner has already identified one or more potential solutions to meet its Project requirements, then proceed with the study and evaluation of such potential solutions: N/A

   b. If Owner has not identified specific potential solutions for study and evaluation, then assist Owner in determining whether Owner's requirements, and available data, reports, plans, and evaluations, point to a single potential solution for Engineer's study and evaluation, or are such that it will be necessary for Engineer to identify, study, and evaluate multiple potential solutions.

   c. If it is necessary for Engineer to identify, study, and evaluate multiple potential solutions, then identify 2 alternative solutions potentially available to Owner, unless Owner and Engineer mutually agree that some other specific number of alternatives should be identified, studied, and evaluated.

2. Identify potential solution(s) to meet Owner's Project requirements, as needed.

3. Study and evaluate the potential solution(s) to meet Owner's Project requirements.

4. Visit the Site, or potential Project sites, to review existing conditions and facilities, unless such visits are not necessary or applicable to meeting the objectives of the Study and Report Phase.

5. Advise Owner of any need for Owner to obtain, furnish, or otherwise make available to Engineer additional Project-related data and information, for Engineer's use in the study and evaluation of potential solution(s) to Owner's Project requirements, and preparation of a related report.

6. After consultation with Owner, recommend to Owner the solution(s) which in Engineer's judgment meet Owner's requirements for the Project.

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7. Identify, consult with, and analyze requirements of governmental authorities having jurisdiction to approve the portions of the Project to be designed or specified by Engineer, including but not limited to mitigating measures identified in an environmental assessment for the Project.

8. Prepare a report (the "Report") which will, as appropriate, contain schematic layouts, sketches, and conceptual design criteria with appropriate exhibits to indicate the agreed-to requirements, considerations involved, and Engineer's recommended solution(s). For each recommended solution Engineer will provide the following, which will be separately itemized: opinion of probable Construction Cost; proposed allowances for contingencies; the estimated total costs of design, professional, and related services to be provided by Engineer and its Consultants; and, on the basis of information furnished by Owner, a tabulation of other items and services included within the definition of Total Project Costs.

9. Advise Owner of any need for Owner to provide data or services of the types described in Exhibit B, for use in Project design, or in preparation for Contractor selection and construction.

10. When mutually agreed, assist Owner in evaluating the possible use of building information modeling; civil integrated management; geotechnical baselining of subsurface site conditions; innovative design, contracting, or procurement strategies; or other strategies, technologies, or techniques for assisting in the design, construction, and operation of Owner's facilities. The subject matter of this paragraph shall be referred to in Exhibit A and B as "Project Strategies, Technologies, and Techniques."

11. If requested to do so by Owner, assist Owner in identifying opportunities for enhancing the sustainability of the Project, and pursuant to Owner's instructions plan for the inclusion of sustainable features in the design.

12. Use ASCE 38, "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data" as a means to advise the Owner on a recommended scope of work and procedure for the identification and mapping of existing utilities.

13. Develop a scope of work and survey limits for any topographic and other surveys necessary for design.

14. Perform or provide the following other Study and Report Phase tasks or deliverables: N/A

15. Furnish digital review copies of the Report and any other Study and Report Phase deliverables to Owner within 120 days of the Effective Date and review it with Owner. Within 15 days of receipt, Owner shall submit to Engineer any comments regarding the furnished items.

16. Revise the Report and any other Study and Report Phase deliverables in response to Owner's comments, as appropriate, and furnish digital copies of the revised Report and any other Study and Report Phase deliverables to the Owner within 30 days of receipt of Owner's comments.

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B. Engineer's services under the Study and Report Phase will be considered complete on the date when Engineer has delivered to Owner the revised Report and any other Study and Report Phase deliverables.

A1.02 *Preliminary Design Phase*

A. After issuance by Owner of any instructions of for use of Project Strategies, Technologies, and Techniques, or for inclusion of sustainable features in the design; and indication by Owner of any specific modifications or changes in the scope, extent, character, or design requirements of the Project desired by Owner, (1) Engineer and Owner shall discuss and resolve any necessary revisions to Engineer's compensation (through application of the provisions regarding Additional Services, or otherwise), or the time for completion of Engineer's services, resulting from the selected solution, related Project Strategies, Technologies, or Techniques, sustainable design instructions, or specific modifications to the Project, and (2) upon written from Owner, Engineer shall:

1. Prepare Preliminary Design Phase documents consisting of final design criteria, preliminary drawings, outline specifications, and written descriptions of the Project.

2. In preparing the Preliminary Design Phase documents, use any specific applicable Project Strategies, Technologies, and Techniques authorized by Owner and include sustainable features, as appropriate, pursuant to Owner's instructions.

3. Provide necessary field surveys and topographic and utility mapping for Engineer's design purposes. Comply with the scope of work and procedure for the identification and mapping of existing utilities selected and authorized by Owner pursuant to advice from Engineer based on ASCE 38, "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data," as set forth in Paragraph A1.01.A.12 above. If no such scope of work and procedure for utility mapping has been selected and authorized, then at a minimum the utility mapping will include Engineer contacting utility owners and obtaining available information.

4. Visit the Site as needed to prepare the Preliminary Design Phase documents.

5. Advise Owner if additional reports, data, information, or services of the types described in Exhibit B are necessary and assist Owner in obtaining such reports, data, information, or services.

6. Continue to assist Owner with Project Strategies, Technologies, and Techniques that Owner has chosen to implement.

7. Based on the information contained in the Preliminary Design Phase documents, prepare a revised opinion of probable Construction Cost, and assist Owner in tabulating the various cost categories which comprise Total Project Costs.

8. Obtain and review Owner's instructions regarding Owner's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable), Owner's construction contract practices and requirements, insurance and bonding requirements, electronic transmittals during construction, and other information necessary for the finalization of

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Owner's bidding-related documents (or requests for proposals or other construction procurement documents), and Construction Contract Documents. Also obtain and review copies of Owner's design and construction standards, Owner's standard forms, general conditions (if other than EJCDC® C-700, Standard General Conditions of the Construction Contract, 2013 Edition), supplementary conditions, text, and related documents or content for Engineer to include in the draft bidding-related documents (or requests for proposals or other construction procurement documents), and in the draft Construction Contract Documents, when applicable.

9. Perform or provide the following other Preliminary Design Phase tasks or deliverables: N/A

10. Furnish 1 review copies of the Preliminary Design Phase documents, opinion of probable Construction Cost, and any other Preliminary Design Phase deliverables to Owner within 120 days of authorization to proceed with this phase, and review them with Owner. Within 15 days of receipt, Owner shall submit to Engineer any comments regarding the furnished items.

11. Revise the Preliminary Design Phase documents, opinion of probable Construction Cost, and any other Preliminary Design Phase deliverables in response to Owner's comments, as appropriate, and furnish to Owner 1 copies of the revised Preliminary Design Phase documents, revised opinion of probable Construction Cost, and any other deliverables within 60 days after receipt of Owner's comments.

B. Engineer's services under the Preliminary Design Phase will be considered complete on the date when Engineer has delivered to Owner the revised Preliminary Design Phase documents, revised opinion of probable Construction Cost, and any other Preliminary Design Phase deliverables.

A1.03 *Final Design Phase*

A. After acceptance by Owner of the Preliminary Design Phase documents, revised opinion of probable Construction Cost as determined in the Preliminary Design Phase, and any other Preliminary Design Phase deliverables, subject to any Owner-directed modifications or changes in the scope, extent, character, or design requirements of or for the Project, and upon authorization from Owner, Engineer shall:

1. Prepare final Drawings and Specifications indicating the scope, extent, and character of the Work to be performed and furnished by Contractor.

2. Visit the Site as needed to assist in preparing the final Drawings and Specifications.

3. Provide technical criteria, written descriptions, and design data for Owner's use in filing applications for permits from or approvals of governmental authorities having jurisdiction to review or approve the final design; assist Owner in consultations with such authorities; and revise the Drawings and Specifications in response to directives from such authorities, as appropriate.

4. Advise Owner of any recommended adjustments to the opinion of probable Construction Cost.

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5. After consultation with Owner, include in the Construction Contract Documents any specific protocols for the transmittal of Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website. Any such protocols shall be applicable to transmittals between and among Owner, Engineer, and Contractor during the Construction Phase and Post-Construction Phase, and unless agreed otherwise shall supersede any conflicting protocols previously established for transmittals between Owner and Engineer.

6. Assist Owner in assembling known reports and drawings of Site conditions, and in identifying the technical data contained in such reports and drawings upon which bidders or other prospective contractors may rely.

7. In addition to preparing the final Drawings and Specifications, assemble drafts of other Construction Contract Documents based on specific instructions and contract forms, text, or content received from Owner.

8. Prepare or assemble draft bidding-related documents (or requests for proposals or other construction procurement documents), based on the specific bidding or procurement-related instructions and forms, text, or content received from Owner.

9. Perform or provide the following other Final Design Phase tasks or deliverables: N/A

10. Furnish for review by Owner, its legal counsel, and other advisors, 1 copies of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, within 90 days of authorization to proceed with the Final Design Phase, and review them with Owner. Within 15 days of receipt, Owner shall submit to Engineer any comments regarding the furnished items, and any instructions for revisions.

11. Revise the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables in accordance with comments and instructions from the Owner, as appropriate, and submit 1 final copies of such documents to Owner within 60 days after receipt of Owner's comments and instructions.

B. Engineer's services under the Final Design Phase will be considered complete on the date when Engineer has delivered to Owner the final Drawings and Specifications, other assembled Construction Contract Documents, bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables.

C. In the event that the Work designed or specified by Engineer is to be performed or furnished under more than one prime contract, or if Engineer's services are to be separately sequenced with the work of one or more prime Contractors (such as in the case of fast-tracking), Owner and Engineer shall, prior to commencement of the Final Design Phase, develop a schedule for performance of Engineer's services during the Final Design, Bidding or Negotiating,

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Construction, and Post-Construction Phases in order to sequence and coordinate properly such services as are applicable to the work under such separate prime contracts. This schedule is to be prepared and included in or become an amendment to Exhibit A whether or not the work under such contracts is to proceed concurrently.

D. The number of prime contracts for Work designed or specified by Engineer upon which the Engineer's compensation has been established under this Agreement is one (1). If more prime contracts are awarded, Engineer shall be entitled to an equitable increase in its compensation under this Agreement.

A1.04 *Bidding or Negotiating Phase*

A. After acceptance by Owner of the final Drawings and Specifications, other Construction Contract Documents, bidding-related documents (or requests for proposals or other construction procurement documents), and the most recent opinion of probable Construction Cost as determined in the Final Design Phase, and upon written authorization by Owner to proceed, Engineer shall:

1. Assist Owner in advertising for and obtaining bids or proposals for the Work, assist Owner in issuing assembled design, contract, and bidding-related documents (or requests for proposals or other construction procurement documents) to prospective contractors, and, where applicable, maintain a record of prospective contractors to which documents have been issued, attend pre-bid conferences, if any, and receive and process contractor deposits or charges for the issued documents.

2. Prepare and issue Addenda as appropriate to clarify, correct, or change the issued documents.

3. Provide information or assistance needed by Owner in the course of any review of proposals or negotiations with prospective contractors.

4. Consult with Owner as to the qualifications of prospective contractors.

5. Consult with Owner as to the qualifications of subcontractors, suppliers, and other individuals and entities proposed by prospective contractors, for those portions of the Work as to which review of qualifications is required by the issued documents.

6. If the issued documents require, the Engineer shall evaluate and determine the acceptability of "or equals" and substitute materials and equipment proposed by prospective contractors, provided that such proposals are allowed by the bidding-related documents (or requests for proposals or other construction procurement documents) prior to award of contracts for the Work. Services under this paragraph are subject to the provisions of Paragraph A2.02.A.2 of this Exhibit A.

7. Attend the bid opening, prepare bid tabulation sheets to meet Owner's schedule, and assist Owner in evaluating bids or proposals, assembling final contracts for the Work for execution by Owner and Contractor, and in issuing notices of award of such contracts.

8. If Owner engages in negotiations with bidders or proposers, assist Owner with respect to technical and engineering issues that arise during the negotiations.

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9. Perform or provide the following other Bidding or Negotiating Phase tasks or deliverables: N/A

B. The Bidding or Negotiating Phase will be considered complete upon commencement of the Construction Phase or upon cessation of negotiations with prospective contractors (except as may be required if Exhibit F is a part of this Agreement).

A1.05 *Construction Phase*

A. Upon successful completion of the Bidding and Negotiating Phase, and upon written authorization from Owner, Engineer shall:

1. *General Administration of Construction Contract:* Consult with Owner and act as Owner's representative as provided in the Construction Contract. The extent and limitations of the duties, responsibilities, and authority of Engineer shall be as assigned in EJCDC® C-700, Standard General Conditions of the Construction Contract (2013 Edition), prepared by the Engineers Joint Contract Documents Committee, or other construction general conditions specified in this Agreement. If Owner, or Owner and Contractor, modify the duties, responsibilities, and authority of Engineer in the Construction Contract, or modify other terms of the Construction Contract having a direct bearing on Engineer, then Owner shall compensate Engineer for any related increases in the cost to provide Construction Phase services. Engineer shall not be required to furnish or perform services contrary to Engineer's responsibilities as a licensed professional. All of Owner's instructions to Contractor will be issued through Engineer, which shall have authority to act on behalf of Owner in dealings with Contractor to the extent provided in this Agreement and the Construction Contract except as otherwise provided in writing.

2. *Resident Project Representative (RPR):* Provide the services of an RPR at the Site to assist the Engineer and to provide more extensive observation of Contractor's work. Duties, responsibilities, and authority of the RPR are as set forth in Exhibit D. The furnishing of such RPR's services will not limit, extend, or modify Engineer's responsibilities or authority except as expressly set forth in Exhibit D.

3. *Selection of Independent Testing Laboratory:* Assist Owner in the selection of an independent testing laboratory to perform the services identified in Exhibit B, Paragraph B2.01.

4. *Pre-Construction Conference:* Participate in a pre-construction conference prior to commencement of Work at the Site.

5. *Electronic Transmittal Protocols:* If the Construction Contract Documents do not specify protocols for the transmittal of Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, then together with Owner and Contractor jointly develop such protocols for transmittals between and among Owner, Contractor, and Engineer during the Construction Phase and Post-Construction Phase.

6. *Original Documents:* If requested by Owner to do so, maintain and safeguard during the Construction Phase at least one original printed record version of the Construction

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Contract Documents, including Drawings and Specifications signed and sealed by Engineer and other design professionals in accordance with applicable Laws and Regulations. Throughout the Construction Phase, make such original printed record version of the Construction Contract Documents available to Contractor and Owner for review.

7. *Schedules:* Receive, review, and determine the acceptability of any and all schedules that Contractor is required to submit to Engineer, including the Progress Schedule, Schedule of Submittals, and Schedule of Values.

8. *Baselines and Benchmarks:* As appropriate, establish baselines and benchmarks for locating the Work which in Engineer's judgment are necessary to enable Contractor to proceed.

9. *Visits to Site and Observation of Construction:* In connection with observations of Contractor's Work while it is in progress:

    a. Make visits to the Site at intervals appropriate to the various stages of construction, as Engineer deems necessary, to observe as an experienced and qualified design professional the progress of Contractor's executed Work. Such visits and observations by Engineer, and the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of the Work or to involve detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in this Agreement and the Construction Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment, as assisted by the Resident Project Representative, if any. Based on information obtained during such visits and observations, Engineer will determine in general if the Work is proceeding in accordance with the Construction Contract Documents, and Engineer shall keep Owner informed of the progress of the Work.

    b. The purpose of Engineer's visits to the Site, and representation by the Resident Project Representative, if any, at the Site, will be to enable Engineer to better carry out the duties and responsibilities assigned to and undertaken by Engineer during the Construction Phase, and, in addition, by the exercise of Engineer's efforts as an experienced and qualified design professional, to provide for Owner a greater degree of confidence that the completed Work will conform in general to the Construction Contract Documents and that Contractor has implemented and maintained the integrity of the design concept of the completed Project as a functioning whole as indicated in the Construction Contract Documents. Engineer shall not, during such visits or as a result of such observations of the Work, supervise, direct, or have control over the Work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to any Constructor's work in progress, for the coordination of the Constructors' work or schedules, nor for any failure of any Constructor to comply with Laws and Regulations applicable to furnishing and performing of its work. Accordingly, Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any

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Constructor's failure to furnish or perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents.

10. *Defective Work:* Reject Work if, on the basis of Engineer's observations, Engineer believes that such Work is defective under the terms and standards set forth in the Construction Contract Documents. Provide recommendations to Owner regarding whether Contractor should correct such Work or remove and replace such Work, or whether Owner should consider accepting such Work as provided in the Construction Contract Documents.

11. *Compatibility with Design Concept:* If Engineer has express knowledge that a specific part of the Work that is not defective under the terms and standards set forth in the Construction Contract Documents is nonetheless not compatible with the design concept of the completed Project as a functioning whole, then inform Owner of such incompatibility, and provide recommendations for addressing such Work.

12. *Clarifications and Interpretations:* Accept from Contractor and Owner submittal of all matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. With reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Construction Contract Documents.

13. *Non-reviewable Matters:* If a submitted matter in question concerns the Engineer's performance of its duties and obligations, or terms and conditions of the Construction Contract Documents that do not involve (1) the performance or acceptability of the Work under the Construction Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer will not provide a decision or interpretation.

14. *Field Orders:* Subject to any limitations in the Construction Contract Documents, Engineer may prepare and issue Field Orders requiring minor changes in the Work.

15. *Change Orders and Work Change Directives:* Recommend Change Orders and Work Change Directives to Owner, as appropriate, and prepare Change Orders and Work Change Directives as required.

16. *Differing Site Conditions:* Respond to any notice from Contractor of differing site conditions, including conditions relating to underground facilities such as utilities, and hazardous environmental conditions. Promptly conduct reviews and prepare findings, conclusions, and recommendations for Owner's use.

17. *Shop Drawings, Samples, and Other Submittals:* Review and approve or take other appropriate action with respect to Shop Drawings, Samples, and other required Contractor submittals, but only for conformance with the information given in the Construction Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated by the Construction Contract Documents. Such reviews and approvals or other action will not extend to means,

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methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto. Engineer shall meet any Contractor's submittal schedule that Engineer has accepted.

18. *Substitutes and "Or-equal":* Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by Contractor, but subject to the provisions of Paragraph A2.02.A.2 of this Exhibit A.

19. *Inspections and Tests:*

    a. Receive and review all certificates of inspections, tests, and approvals required by Laws and Regulations or the Construction Contract Documents. Engineer's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Construction Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Construction Contract Documents. Engineer shall be entitled to rely on the results of such inspections and tests.

    b. As deemed reasonably necessary, request that Contractor uncover Work that is to be inspected, tested, or approved.

    c. Pursuant to the terms of the Construction Contract, require special inspections or testing of the Work, whether or not the Work is fabricated, installed, or completed.

20. *Change Proposals and Claims:* (a) Review and respond to Change Proposals. Review each duly submitted Change Proposal from Contractor and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer will not resolve the Change Proposal. (b) Provide information or data to Owner regarding engineering or technical matters pertaining to Claims.

21. *Applications for Payment:* Based on Engineer's observations as an experienced and qualified design professional and on review of Applications for Payment and accompanying supporting documentation:

    a. Determine the amounts that Engineer recommends Contractor be paid. Recommend reductions in payment (set-offs) based on the provisions for set-offs stated in the Construction Contract. Such recommendations of payment will be in writing and will constitute Engineer's representation to Owner, based on such observations and review, that, to the best of Engineer's knowledge, information and belief, Contractor's Work has progressed to the point indicated, the Work is generally in accordance with the Construction Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Construction Contract Documents, and to any other qualifications stated in the recommendation), and the conditions precedent to Contractor's being entitled to

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such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work. In the case of unit price Work, Engineer's recommendations of payment will include final determinations of quantities and classifications of the Work (subject to any subsequent adjustments allowed by the Construction Contract Documents).

b. By recommending payment, Engineer shall not thereby be deemed to have represented that observations made by Engineer to check the quality or quantity of Contractor's Work as it is performed and furnished have been exhaustive, extended to every aspect of Contractor's Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in this Agreement. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment including final payment will impose on Engineer responsibility to supervise, direct, or control the Work, or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or Contractor's compliance with Laws and Regulations applicable to Contractor's furnishing and performing the Work. It will also not impose responsibility on Engineer to make any examination to ascertain how or for what purposes Contractor has used the money paid to Contractor by Owner; to determine that title to any portion of the Work, including materials or equipment, has passed to Owner free and clear of any liens, claims, security interests, or encumbrances; or that there may not be other matters at issue between Owner and Contractor that might affect the amount that should be paid.

22. *Contractor's Completion Documents:* Receive from Contractor, review, and transmit to Owner maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance required by the Construction Contract Documents, certificates of inspection, tests and approvals, and Shop Drawings, Samples, and other data approved as provided under Paragraph A1.05.A.17. Receive from Contractor, review, and transmit to Owner the annotated record documents which are to be assembled by Contractor in accordance with the Construction Contract Documents to obtain final payment. The extent of Engineer's review of record documents shall be to check that Contractor has submitted all pages.

23. *Substantial Completion:* Promptly after notice from Contractor that Contractor considers the entire Work ready for its intended use, in company with Owner and Contractor, visit the Site to review the Work and determine the status of completion. Follow the procedures in the Construction Contract regarding the preliminary certificate of Substantial Completion, punch list of items to be completed, Owner's objections, notice to Contractor, and issuance of a final certificate of Substantial Completion. Assist Owner regarding any remaining engineering or technical matters affecting Owner's use or occupancy of the Work following Substantial Completion.

24. *Other Tasks:* Perform or provide the following other Construction Phase tasks or deliverables: N/A

25. *Final Notice of Acceptability of the Work:* Conduct a final visit to the Project to determine if the Work is complete and acceptable so that Engineer may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final

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payment, Engineer shall also provide a notice to Owner and Contractor in the form attached hereto as Exhibit E ("Notice of Acceptability of Work") that the Work is acceptable (subject to the provisions of the Notice and Paragraph A1.05.A.21.b) to the best of Engineer's knowledge, information, and belief, and based on the extent of the services provided by Engineer under this Agreement.

26. *Standards for Certain Construction-Phase Decisions:* Engineer will render decisions regarding the requirements of the Construction Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth in the Construction Contract for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

B. *Duration of Construction Phase:* The Construction Phase will commence with the execution of the first Construction Contract for the Project or any part thereof and will terminate upon written recommendation by Engineer for final payment to Contractors. If the Project involves more than one prime contract as indicated in Paragraph A1.03.D, then Construction Phase services may be rendered at different times in respect to the separate contracts. Subject to the provisions of Article 3, Engineer shall be entitled to an equitable increase in compensation if Construction Phase services (including Resident Project Representative services, if any) are required after the original date for completion and readiness for final payment of Contractor as set forth in the Construction Contract.

A1.06 *Post-Construction Phase*

A. Upon written authorization from Owner during the Post-Construction Phase, Engineer shall:

1. Together with Owner, visit the Project to observe any apparent defects in the Work, make recommendations as to replacement or correction of defective Work, if any, or the need to repair of any damage to the Site or adjacent areas, and assist Owner in consultations and discussions with Contractor concerning correction of any such defective Work and any needed repairs.

2. Together with Owner, visit the Project within one month before the end of the Construction Contract's correction period to ascertain whether any portion of the Work or the repair of any damage to the Site or adjacent areas is defective and therefore subject to correction by Contractor.

3. Perform or provide the following other Post-Construction Phase tasks or deliverables: N/A

B. The Post-Construction Phase services may commence during the Construction Phase and, if not otherwise modified in this Exhibit A, will terminate twelve months after the commencement of the Construction Contract's correction period.

PART 2 – ADDITIONAL SERVICES

A2.01 *Additional Services Requiring Owner's Written Authorization*

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A. If authorized in writing by Owner, Engineer shall provide Additional Services of the types listed below. These services are not included as part of Basic Services and will be paid for by Owner as indicated in Exhibit C.

1. Preparation of applications and supporting documents (in addition to those furnished under Basic Services) for private or governmental grants, loans, or advances in connection with the Project; preparation or review of environmental assessments and impact statements; review and evaluation of the effects on the design requirements for the Project of any such statements and documents prepared by others; and assistance in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the Project.

2. Services to make measured drawings of existing conditions or facilities, to conduct tests or investigations of existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by Owner or others.

3. Services resulting from significant changes in the scope, extent, or character of the portions of the Project designed or specified by Engineer, or the Project's design requirements, including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Construction Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date or are due to any other causes beyond Engineer's control.

4. Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those agreed to in Paragraph A1.01.A.1 and 2.

5. Services required as a result of Owner's providing incomplete or incorrect Project information to Engineer.

6. Providing renderings or models for Owner's use, including services in support of building information modeling or civil integrated management.

7. Undertaking investigations and studies including, but not limited to:

   a. detailed consideration of operations, maintenance, and overhead expenses;

   b. the preparation of feasibility studies (such as those that include projections of output capacity, utility project rates, project market demand, or project revenues) and cash flow analyses, provided that such services are based on the engineering and technical aspects of the Project, and do not include rendering advice regarding municipal financial products or the issuance of municipal securities;

   c. preparation of appraisals;

   d. evaluating processes available for licensing, and assisting Owner in obtaining process licensing;

   e. detailed quantity surveys of materials, equipment, and labor; and

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f. audits or inventories required in connection with construction performed or furnished by Owner.

8. Furnishing services of Consultants for other than Basic Services.

9. Providing data or services of the types described in Exhibit B, when Owner retains Engineer to provide such data or services instead of Owner furnishing the same.

10. Providing the following services:

    a. Services attributable to more prime construction contracts than specified in Paragraph A1.03.D.

    b. Services to arrange for performance of construction services for Owner by contractors other than the principal prime Contractor, and administering Owner's contract for such services.

11. Services during out-of-town travel required of Engineer, other than for visits to the Site or Owner's office as required in Basic Services (Part 1 of Exhibit A).

12. Preparing for, coordinating with, participating in and responding to structured independent review processes, including, but not limited to, construction management, cost estimating, project peer review, value engineering, and constructibility review requested by Owner; and performing or furnishing services required to revise studies, reports, Drawings, Specifications, or other documents as a result of such review processes.

13. Preparing additional bidding-related documents (or requests for proposals or other construction procurement documents) or Construction Contract Documents for alternate bids or cost estimates requested by Owner for the Work or a portion thereof.

14. Assistance in connection with bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services, except when such assistance is required to complete services required by Paragraph 5.02.A and Exhibit F.

15. Preparing conformed Construction Contract Documents that incorporate and integrate the content of all Addenda and any amendments negotiated by Owner and Contractor.

16. Providing Construction Phase services beyond the original date for completion and readiness for final payment of Contractor, but only if such services increase the total quantity of services to be performed in the Construction Phase, rather than merely shifting performance of such services to a later date.

17. Preparing Record Drawings, and furnishing such Record Drawings to Owner.

18. Supplementing Record Drawings with information regarding the completed Project, Site, and immediately adjacent areas obtained from field observations, Owner, utility companies, and other reliable sources.

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19. Conducting surveys, investigations, and field measurements to verify the accuracy of Record Drawing content obtained from Contractor, Owner, utility companies, and other sources; revise and supplement Record Drawings as needed.

20. Preparation of operation, maintenance, and staffing manuals.

21. Protracted or extensive assistance in refining and adjusting of Project equipment and systems (such as initial startup, testing, and balancing).

22. Assistance to Owner in training Owner's staff to operate and maintain Project equipment and systems.

23. Assistance to Owner in developing systems and procedures for (a) control of the operation and maintenance of Project equipment and systems, and (b) related recordkeeping.

24. Preparing to serve or serving as a consultant or witness for Owner in any litigation, arbitration, lien or bond claim, or other legal or administrative proceeding involving the Project.

25. Overtime work requiring higher than regular rates.

26. Providing construction surveys and staking to enable Contractor to perform its work other than as required under Paragraph A1.05.A.8; any type of property surveys or related engineering services needed for the transfer of interests in real property; and providing other special field surveys.

27. Providing more extensive services required to enable Engineer to issue notices or certifications requested by Owner.

28. Extensive services required during any correction period, or with respect to monitoring Contractor's compliance with warranties and guarantees called for in the Construction Contract (except as agreed to under Basic Services).

29. Other additional services performed or furnished by Engineer not otherwise provided for in this Agreement.

A2.02 *Additional Services Not Requiring Owner's Written Authorization*

A. Engineer shall advise Owner that Engineer is commencing to perform or furnish the Additional Services of the types listed below. For such Additional Services, Engineer need not request or obtain specific advance written authorization from Owner. Engineer shall cease performing or furnishing such Additional Services upon receipt of written notice to cease from Owner.

1. Services in connection with Work Change Directives and Change Orders to reflect changes requested by Owner.

2. Services in making revisions to Drawings and Specifications occasioned by the acceptance of substitute materials or equipment other than "or equal" items; services after the award of the Construction Contract in evaluating and determining the

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acceptability of a proposed "or equal" or substitution which is found to be inappropriate for the Project; evaluation and determination of an excessive number of proposed "or equals" or substitutions, whether proposed before or after award of the Construction Contract.

3. Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.

4. Additional or extended services arising from (a) the presence at the Site of any Constituent of Concern or items of historical or cultural significance, (b) emergencies or acts of God endangering the Work, (c) damage to the Work by fire or other causes during construction, (d) a significant amount of defective, neglected, or delayed Work, (e) acceleration of the progress schedule involving services beyond normal working hours, or (f) default by Contractor.

5. Services (other than Basic Services during the Post-Construction Phase) in connection with any partial utilization of the Work by Owner prior to Substantial Completion.

6. Evaluating unreasonable or frivolous requests for interpretation or information (RFIs), Change Proposals, or other demands from Contractor or others in connection with the Work, or an excessive number of RFIs, Change Proposals, or demands.

7. Reviewing a Shop Drawing or other Contractor submittal more than three times, as a result of repeated inadequate submissions by Contractor.

8. While at the Site, compliance by Engineer and its staff with those terms of Owner's or Contractor's safety program provided to Engineer subsequent to the Effective Date that exceed those normally required of engineering personnel by federal, State, or local safety authorities for similar construction sites.

PART 3 - SCOPE

A3.01 The OWNER intends to rehabilitate the Water Treatment Plant #1 to include the following:

A. Upgrade to the existing aerators to a gravity system

B. Upgrade to chemical feed and mixing system

C. Plant instrumentation

D. Building upgrades

E. Replacement of gravity filtration media and piping network

F. Replace valves

G. Ventilation of pipe gallery

H. Other items of work as directed by the City upon completion of the Study and Report Phase

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This is **EXHIBIT B**, consisting of 3 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Owner's Responsibilities

Article 2 of the Agreement is supplemented to include the following agreement of the parties.

B2.01 In addition to other responsibilities of Owner as set forth in this Agreement, Owner shall at its expense:

A. Provide Engineer with all criteria and full information as to Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations.

B. Give instructions to Engineer regarding Owner's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable), Owner's construction contract practices and requirements, insurance and bonding requirements, electronic transmittals during construction, and other information necessary for the finalization of Owner's bidding-related documents (or requests for proposals or other construction procurement documents), and Construction Contract Documents. Furnish copies (or give specific directions requesting Engineer to use copies already in Engineer's possession) of all design and construction standards, Owner's standard forms, general conditions (if other than EJCDC® C-700, Standard General Conditions of the Construction Contract, 2013 Edition), supplementary conditions, text, and related documents and content for Engineer to include in the draft bidding-related documents (or requests for proposals or other construction procurement documents), and draft Construction Contract Documents, when applicable. Owner shall have responsibility for the final content of (1) such bidding-related documents (or requests for proposals or other construction procurement documents), and (2) those portions of any Construction Contract other than the design (as set forth in the Drawings, Specifications, or otherwise), and other engineering or technical matters; and Owner shall seek the advice of Owner's legal counsel, risk managers, and insurance advisors with respect to the drafting and content of such documents.

C. Furnish to Engineer any other available information pertinent to the Project including reports and data relative to previous designs, construction, or investigation at or adjacent to the Site.

D. Following Engineer's assessment of initially-available Project information and data and upon Engineer's request, obtain, furnish, or otherwise make available (if necessary through title searches, or retention of specialists or consultants) such additional Project-related information and data as is reasonably required to enable Engineer to complete its Basic and Additional Services. Such additional information or data would generally include the following:

1. Property descriptions.

2. Zoning, deed, and other land use restrictions.

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3. Utility and topographic mapping and surveys.

4. Property, boundary, easement, right-of-way, and other special surveys or data, including establishing relevant reference points.

5. Explorations and tests of subsurface conditions at or adjacent to the Site; geotechnical reports and investigations; drawings of physical conditions relating to existing surface or subsurface structures at the Site; hydrographic surveys, laboratory tests and inspections of samples, materials, and equipment; with appropriate professional interpretation of such information or data.

6. Environmental assessments, audits, investigations, and impact statements, and other relevant environmental, historical, or cultural studies relevant to the Project, the Site, and adjacent areas.

7. Data or consultations as required for the Project but not otherwise identified in this Agreement.

E. Arrange for safe access to and make all provisions for Engineer to enter upon public and private property as required for Engineer to perform services under the Agreement.

F. Recognizing and acknowledging that Engineer's services and expertise do not include the following services, provide, as required for the Project:

1. Accounting, bond and financial advisory (including, if applicable, "municipal advisor" services as described in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) and the municipal advisor registration rules issued by the Securities and Exchange Commission), independent cost estimating, and insurance counseling services.

2. Legal services with regard to issues pertaining to the Project as Owner requires, Contractor raises, or Engineer reasonably requests.

3. Such auditing services as Owner requires to ascertain how or for what purpose Contractor has used the money paid.

G. Provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of samples, materials, and equipment required by the Construction Contract Documents (other than those required to be furnished or arranged by Contractor), or to evaluate the performance of materials, equipment, and facilities of Owner, prior to their incorporation into the Work with appropriate professional interpretation thereof. Provide Engineer with the findings and reports generated by testing laboratories, including findings and reports obtained from or through Contractor.

H. Provide reviews, approvals, and permits from all governmental authorities having jurisdiction to approve all phases of the Project designed or specified by Engineer and such reviews, approvals, and consents from others as may be necessary for completion of each phase of the Project.

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I. Advise Engineer of the identity and scope of services of any independent consultants employed by Owner to perform or furnish services in regard to the Project, including, but not limited to, cost estimating, project peer review, value engineering, and constructibility review.

J. If Owner designates a construction manager or an individual or entity other than, or in addition to, Engineer to represent Owner at the Site, define and set forth as an attachment to this Exhibit B the duties, responsibilities, and limitations of authority of such other party and the relation thereof to the duties, responsibilities, and authority of Engineer.

K. If more than one prime contract is to be awarded for the Work designed or specified by Engineer, then designate a person or entity to have authority and responsibility for coordinating the activities among the various prime Contractors, and define and set forth the duties, responsibilities, and limitations of authority of such individual or entity and the relation thereof to the duties, responsibilities, and authority of Engineer as an attachment to this Exhibit B that is to be mutually agreed upon and made a part of this Agreement before such services begin.

L. Inform Engineer in writing of any specific requirements of safety or security programs that are applicable to Engineer, as a visitor to the Site.

M. Examine all alternative solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by Engineer (including obtaining advice of an attorney, risk manager, insurance counselor, financial/municipal advisor, and other advisors or consultants as Owner deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.

N. Inform Engineer regarding any need for assistance in evaluating the possible use of Project Strategies, Technologies, and Techniques, as defined in Exhibit A.

O. Advise Engineer as to whether Engineer's assistance is requested in identifying opportunities for enhancing the sustainability of the Project.

P. Place and pay for advertisement for Bids in appropriate publications.

Q. Furnish to Engineer data as to Owner's anticipated costs for services to be provided by others (including, but not limited to, accounting, bond and financial, independent cost estimating, insurance counseling, and legal advice) for Owner so that Engineer may assist Owner in collating the various cost categories which comprise Total Project Costs.

R. Attend and participate in the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job related meetings, and Site visits to determine Substantial Completion and readiness of the completed Work for final payment.

S. Authorize Engineer to provide Additional Services as set forth in Part 2 of Exhibit A of the Agreement, as required.

T. Perform or provide the following: N/A

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This is **EXHIBIT C**, consisting of 7 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Payments to Engineer for Services and Reimbursable Expenses
COMPENSATION PACKET BC-3: Basic Services – Percentage of Construction Cost

Article 2 of the Agreement is supplemented to include the following agreement of the parties:

ARTICLE 2 – OWNER'S RESPONSIBILITIES

C2.01 *Compensation for Basic Services (other than Resident Project Representative) – Percentage of Construction Cost Method of Payment*

A. Owner shall pay Engineer for Basic Services set forth in Exhibit A, except for services of Engineer's Resident Project Representative, if any, as follows:

1. *General:* An amount equal to nine (9) percent of the Construction Cost. This amount includes compensation for Engineer's Services and services of Engineer's Consultants, if any. The percentage of Construction Cost noted herein accounts for labor, overhead, profit, and expenses (other than any expressly allowed Reimbursable Expenses).

2. As a basis for payment to Engineer, Construction Cost will be based on one or more of the following determinations with precedence in the order listed for Work designed or specified by Engineer:

   a. For Work designed or specified and incorporated in the completed Project, the actual final price of the Construction Contract(s), as duly adjusted by Change Orders.

   b. For Work designed or specified but not constructed, the lowest bona fide Bid received from a qualified bidder for such Work; or, if the Work is not bid, the lowest bona fide negotiated proposal for such Work.

   c. For Work designed or specified but not constructed upon which no such Bid or proposal is received, Engineer's most recent opinion of probable Construction Cost.

   d. Labor furnished by Owner for the Project will be included in the Construction Cost at current market rates including a reasonable allowance for overhead and profit. Materials and equipment furnished by Owner will be included at current market prices.

   e. For purposes of determining Construction Cost under this provision, no deduction is to be made from Construction Contract pricing on account of any penalty, liquidated damages, or other amounts withheld from payments to Contractor(s).

3. *Reimbursable Expenses:* In addition to the Percentage of Construction Cost, Engineer is also entitled to reimbursement from Owner for the following Reimbursable Expenses: NONE

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4. *Progress Payments:*

a. The portion of the amounts billed for Engineer's services that is on account of the Percentage of Construction Cost will be based upon Engineer's estimate of the percentage of the total services actually completed during the billing period. If any Reimbursable Expenses are expressly allowed, Engineer may also bill for any such Reimbursable Expenses incurred during the billing period.

b. Upon conclusion of each phase of Basic Services, Owner shall pay such additional amount, if any, as may be necessary to bring total compensation paid during such phase on account of the percentage of Construction Cost to the following estimated percentages of total compensation payable on account of the percentage of Construction Cost for all phases of Basic Services:

Study and Report Phase	**15%**
Preliminary Design Phase	**35%**
Final Design Phase	**40%**
Bidding or Negotiating Phase	**10%**
	100%

c. Engineer may alter the distribution of compensation between individual phases of the work noted herein to be consistent with services actually rendered, but shall not exceed the total estimated compensation amount unless approved in writing by Owner.

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COMPENSATION PACKET RPR-2:
Resident Project Representative – Standard Hourly Rates

Article 2 of the Agreement is supplemented to include the following agreement of the parties:

C2.04 *Compensation for Resident Project Representative Basic Services – Standard Hourly Rates Method of Payment*

A. *Owner shall pay Engineer for Resident Project Representative Basic Services as follows:*

1. *Resident Project Representative Services:* For services of Engineer's Resident Project Representative under Paragraph A1.05.A of Exhibit A, an amount equal to the cumulative hours charged to the Project by each class of Engineer's personnel times Standard Hourly Rates for each applicable billing class for all Resident Project Representative services performed on the Project, plus related Reimbursable Expenses and Engineer's Consultant's charges, if any. The total compensation under this paragraph is estimated to be $560,000 based upon full-time RPR services on an eight-hour workday, Monday through Friday, over a 360 day construction schedule.

B. *Compensation for Reimbursable Expenses:*

1. For those Reimbursable Expenses that are not accounted for in the compensation for Basic Services under Paragraph C2.01, and are directly related to the provision of Resident Project Representative or Post-Construction Basic Services, Owner shall pay Engineer at the rates set forth in Appendix 1 to this Exhibit C.

2. Reimbursable Expenses include the expenses identified in Appendix 1 and the following: transportation (including mileage), lodging, and subsistence incidental thereto; providing and maintaining field office facilities including furnishings and utilities; subsistence and transportation of Resident Project Representative and assistants; toll telephone calls, mobile phone charges, and courier charges; reproduction of reports, Drawings, Specifications, bidding-related or other procurement documents, Construction Contract Documents, and similar Project-related items. In addition, if authorized in advance by Owner, Reimbursable Expenses will also include expenses incurred for the use of highly specialized equipment.

3. The amounts payable to Engineer for Reimbursable Expenses, if any, will be those internal expenses related to the Resident Project Representative Basic Services that are actually incurred or allocated by Engineer, plus all invoiced external Reimbursable Expenses allocable to such services, the latter multiplied by a factor of **1.1**.

4. The Reimbursable Expenses Schedule will be adjusted annually (as of **January 1, 2018**) to reflect equitable changes in the compensation payable to Engineer.

C. *Other Provisions Concerning Payment Under this Paragraph C2.04:*

1. Whenever Engineer is entitled to compensation for the charges of Engineer's Consultants, those charges shall be the amounts billed by Engineer's Consultants to Engineer times a factor of **1.1**.

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2. *Factors*: The external Reimbursable Expenses and Engineer's Consultant's factors include Engineer's overhead and profit associated with Engineer's responsibility for the administration of such services and costs.

3. *Estimated Compensation Amounts*:

   a. Engineer's estimate of the amounts that will become payable for specified services are only estimates for planning purposes, are not binding on the parties, and are not the minimum or maximum amounts payable to Engineer under the Agreement.

   b. When estimated compensation amounts have been stated herein and it subsequently becomes apparent to Engineer that the total compensation amount thus estimated will be exceeded, Engineer shall give Owner written notice thereof, allowing Owner to consider its options, including suspension or termination of Engineer's services for Owner's convenience. Upon notice Owner and Engineer promptly shall review the matter of services remaining to be performed and compensation for such services. Owner shall either exercise its right to suspend or terminate Engineer's services for Owner's convenience, agree to such compensation exceeding said estimated amount, or agree to a reduction in the remaining services to be rendered by Engineer, so that total compensation for such services will not exceed said estimated amount when such services are completed. If Owner decides not to suspend Engineer's services during negotiations and Engineer exceeds the estimated amount before Owner and Engineer have agreed to an increase in the compensation due Engineer or a reduction in the remaining services, then Engineer shall be paid for all services rendered hereunder.

4. To the extent necessary to verify Engineer's charges and upon Owner's timely request, Engineer shall make copies of such records available to Owner at cost.

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COMPENSATION PACKET AS-1:
Additional Services – Standard Hourly Rates

Article 2 of the Agreement is supplemented to include the following agreement of the parties:

C2.05 Compensation for Additional Services – Standard Hourly Rates Method of Payment

A. Owner shall pay Engineer for Additional Services, if any, as follows:

1. *General*: For services of Engineer's personnel engaged directly on the Project pursuant to Paragraph A2.01 or A2.02 of Exhibit A, except for services as a consultant or witness under Paragraph A2.01.A.20, (which if needed shall be separately negotiated based on the nature of the required consultation or testimony) an amount equal to the cumulative hours charged to the Project by each class of Engineer's personnel times Standard Hourly Rates for each applicable billing class for all Additional Services performed on the Project, plus related Reimbursable Expenses and Engineer's Consultant's charges, if any.

B. *Compensation For Reimbursable Expenses:*

1. For those Reimbursable Expenses that are not accounted for in the compensation for Basic Services under Paragraph C2.01 and are directly related to the provision of Additional Services, Owner shall pay Engineer at the rates set forth in Appendix 1 to this Exhibit C.

2. Reimbursable Expenses include the expenses identified in Appendix 1 and the following categories: transportation (including mileage), lodging, and subsistence incidental thereto; providing and maintaining field office facilities including furnishings and utilities; toll telephone calls, mobile phone charges, and courier charges; reproduction of reports, Drawings, Specifications, bidding-related or other procurement documents, Construction Contract Documents, and similar Project-related items; and Consultants' charges. In addition, if authorized in advance by Owner, Reimbursable Expenses will also include expenses incurred for the use of highly specialized equipment.

3. The amounts payable to Engineer for Reimbursable Expenses, if any, will be the Additional Services-related internal expenses actually incurred or allocated by Engineer, plus all invoiced external Reimbursable Expenses allocable to such Additional Services, the latter multiplied by a factor of **1.1**.

4. The Reimbursable Expenses Schedule will be adjusted annually (as of January 1, 2018) to reflect equitable changes in the compensation payable to Engineer.

C. *Other Provisions Concerning Payment for Additional Services:*

1. Whenever Engineer is entitled to compensation for the charges of Engineer's Consultants, those charges shall be the amounts billed by Engineer's Consultants to Engineer times a factor of **1.1**.

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2. *Factors:* The external Reimbursable Expenses and Engineer's Consultant's Factors include Engineer's overhead and profit associated with Engineer's responsibility for the administration of such services and costs.

3. To the extent necessary to verify Engineer's charges and upon Owner's timely request, Engineer shall make copies of such records available to Owner at cost.

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This is **Appendix 2 to EXHIBIT C**, consisting of **1** pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Standard Hourly Rates Schedule - 2017

A. *Standard Hourly Rates:*

1. Standard Hourly Rates are set forth in this Appendix 2 to this Exhibit C and include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.

2. The Standard Hourly Rates apply only as specified in Article C2.

B. *Schedule:*

Hourly rates for services performed on or after the date of the Agreement are:

Senior Engineer	**$175/hour**
Project Engineer	**$150/hour**
Junior Engineer	**$125/hour**
Engineering Intern	**$105/hour**
Graduate Engineer	**$105/hour**
Senior AutoCad Technician	**$105/hour**
AutoCad Technician	**$90/hour**
Senior Resident Project Representative	**$95/hour**
Resident Project Representative	**$85/hour**
Field Crew	**$175/hour**
Administrative	**$45/hour**

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This is **EXHIBIT D**, consisting of 5 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Duties, Responsibilities, and Limitations of Authority of Resident Project Representative

Article 1 of the Agreement is supplemented to include the following agreement of the parties:

ARTICLE 1 - SERVICES OF ENGINEER

D1.01 *Resident Project Representative*

A. Engineer shall furnish a Resident Project Representative ("RPR") to assist Engineer in observing progress and quality of the Work. The RPR may provide full time representation or may provide representation to a lesser degree. RPR is Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions.

B. Through RPR's observations of the Work, including field checks of materials and installed equipment, Engineer shall endeavor to provide further protection for Owner against defects and deficiencies in the Work. However, Engineer shall not, as a result of such RPR observations of the Work, supervise, direct, or have control over the Work, nor shall Engineer (including the RPR) have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to the Work or any Constructor's work in progress, for the coordination of the Constructors' work or schedules, or for any failure of any Constructor to comply with Laws and Regulations applicable to the performing and furnishing of its work. The Engineer (including RPR) neither guarantees the performances of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents. In addition, the specific terms set forth in Exhibit A, Paragraph A1.05, of this Agreement are applicable.

C. The duties and responsibilities of the RPR are as follows:

1. *General:* RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.

2. *Schedules:* Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values, and other schedules prepared by Contractor and consult with Engineer concerning acceptability of such schedules.

3. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings (but not including Contractor's safety meetings), and as appropriate prepare and circulate copies of minutes thereof.

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4. *Safety Compliance:* Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

5. *Liaison:*

   a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Construction Contract Documents.

   b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.

   c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.

6. *Clarifications and Interpretations:* Receive from Contractor submittal of any matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. Report to Engineer regarding such RFIs. Report to Engineer when clarifications and interpretations of the Construction Contract Documents are needed, whether as the result of a Contractor RFI or otherwise. Transmit Engineer's clarifications, interpretations, and decisions to Contractor. ,

7. *Shop Drawings and Samples:*

   a. Record date of receipt of Samples and Contractor-approved Shop Drawings.

   b. Receive Samples that are furnished at the Site by Contractor, and notify Engineer of availability of Samples for examination.

   c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal, if RPR believes that the submittal has not been received from Contractor, or has not been approved by Contractor or Engineer.

8. *Proposed Modifications:* Consider and evaluate Contractor's suggestions for modifications to the Drawings or Specifications, and report such suggestions, together with RPR's recommendations, if any, to Engineer. Transmit Engineer's response (if any) to such suggestions to Contractor.

9. *Review of Work; Defective Work:*

   a. Report to Engineer whenever RPR believes that any part of the Work is defective under the terms and standards set forth in the Construction Contract Documents, and provide recommendations as to whether such Work should be corrected, removed and replaced, or accepted as provided in the Construction Contract Documents.

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b. Inform Engineer of any Work that RPR believes is not defective under the terms and standards set forth in the Construction Contract Documents, but is nonetheless not compatible with the design concept of the completed Project as a functioning whole, and provide recommendations to Engineer for addressing such Work. ; and

c. Advise Engineer of that part of the Work that RPR believes should be uncovered for observation, or requires special testing, inspection, or approval.

10. *Inspections, Tests, and System Start-ups:*

a. Consult with Engineer in advance of scheduled inspections, tests, and systems start-ups.

b. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.

c. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

d. Observe whether Contractor has arranged for inspections required by Laws and Regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the Work.

e. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to Engineer.

11. *Records*:

a. Maintain at the Site orderly files for correspondence, reports of job conferences, copies of Construction Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Construction Contract, RFIs, Engineer's clarifications and interpretations of the Construction Contract Documents, progress reports, approved Shop Drawing and Sample submittals, and other Project-related documents.

b. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.

c. Upon request from Owner to Engineer, photograph or video Work in progress or Site conditions.

d. Record and maintain accurate, up-to-date lists of the names, addresses, fax numbers, e-mail addresses, websites, and telephone numbers (including mobile

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numbers) of all Contractors, Subcontractors, and major Suppliers of materials and equipment.

e. Maintain records for use in preparing Project documentation.

f. Upon completion of the Work, furnish original set of all RPR Project documentation to Engineer.

12. *Reports:*

a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

c. Furnish to Engineer and Owner copies of all inspection, test, and system start-up reports.

d. Immediately inform Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition or Constituent of Concern.

13. *Payment Requests:* Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.

14. *Certificates, Operation and Maintenance Manuals:* During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.

15. *Completion*:

a. Participate in Engineer's visits to the Site regarding Substantial Completion, assist in the determination of Substantial Completion, and prior to the issuance of a Certificate of Substantial Completion submit a punch list of observed items requiring completion or correction.

b. Participate in Engineer's visit to the Site in the company of Owner and Contractor, to determine completion of the Work, and prepare a final punch list of items to be completed or corrected by Contractor.

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c. Observe whether all items on the final punch list have been completed or corrected, and make recommendations to Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

D. Resident Project Representative shall not:

1. Authorize any deviation from the Construction Contract Documents or substitution of materials or equipment (including "or-equal" items).

2. Exceed limitations of Engineer's authority as set forth in this Agreement.

3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers, or any Constructor.

4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Work, by Contractor or any other Constructor.

5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.

6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.

7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.

8. Authorize Owner to occupy the Project in whole or in part.

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This is **EXHIBIT G**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Insurance

Paragraph 6.05 of the Agreement is supplemented to include the following agreement of the parties:

G6.05 *Insurance*

A. The limits of liability for the insurance required by Paragraph 6.05.A and 6.05.B of the Agreement are as follows:

1. By Engineer:

a. Workers' Compensation: Statutory

b. Employer's Liability --

1) Bodily injury, each accident: $100,000
2) Bodily injury by disease, each employee: $100,000
3) Bodily injury/disease, aggregate: $500,000

c. General Liability --

1) Each Occurrence (Bodily Injury and Property Damage): $1,000,000
2) General Aggregate: $2,000,000

d. Excess or Umbrella Liability --

1) Per Occurrence: $2,000,000
2) General Aggregate:

e. Automobile Liability --Combined Single Limit (Bodily Injury and Property Damage):

$1,000,000

f. Professional Liability –

1) Each Claim Made $1,000,000
2) Annual Aggregate $1,000,000

g. Other (specify): N/A

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B. *Additional Insureds:*

1. The following individuals or entities are to be listed on Owner's general liability policies of insurance as additional insureds:

   a. Shows, Dearman and Waits, Inc.
   Engineer

   b. N/A
   Engineer's Consultant

   c. N/A
   Engineer's Consultant

   d. N/A
   [other]

2. During the term of this Agreement the Engineer shall notify Owner of any other Consultant to be listed as an additional insured on Owner's general liability policies of insurance.

3. The Owner shall be listed on Engineer's general liability policy as provided in Paragraph 6.05.A.

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This is **EXHIBIT I**, consisting of 1 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____.

Limitations of Liability

Paragraph 6.11 of the Agreement is supplemented to include the following agreement of the parties:

A. *Limitation of Engineer's Liability*

1. *Engineer's Liability Limited to Amount of Engineer's Compensation:* To the fullest extent permitted by Laws and Regulations, and notwithstanding any other provision of this Agreement, the total liability, in the aggregate, of Engineer and Engineer's officers, directors, members, partners, agents, employees, and Consultants, to Owner and anyone claiming by, through, or under Owner for any and all claims, losses, costs, or damages whatsoever arising out of, resulting from, or in any way related to the Project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract, indemnity obligations, or warranty express or implied of Engineer or Engineer's officers, directors, members, partners, agents, employees, or Consultants shall not exceed the total compensation received by Engineer under this Agreement.

B. *Indemnification by Owner*: To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants from and against any and all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to the Project, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Owner or Owner's officers, directors, members, partners, agents, employees, consultants, or others retained by or under contract to the Owner with respect to this Agreement or to the Project.

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City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-247 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve Railroad Bore Applications & Fees for COMSWIP Sanitary Water Upgrades-Phase II Project

Title: Authorize Mayor to execute railroad bore applications for the COMSWIP Sanitary Water Upgrades-Phase II project; Approve application fees for Bore No. 1, 3 & 4 to Kansas City Southern Railway for $2,000.00 each and Bore No. 2 to Canadian National for $750.00.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Letter, Vicinity Map, Bore No. 1 App, Bore No. 2 App, Bore No. 3 App, Bore No. 4 App

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

sdw
Engineering Progress

January 31, 2017

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403-1898

Attn: Lamar Rutland-City Engineer

Re: Sanitary Water Upgrades-Phase II
Comprehensive Water and Sewer Investment Project

Dear Mr Rutland:

Shows, Dearman & Waits, Inc has completed the construction plans for the above captioned project. The project entails replacement of existing water lines in the Irene Chapel and Palmer's Crossings Areas within the City of Hattiesburg. The project is to upgrade the existing system to increase the volume of water for fire protection. The project will also replace existing AC water lines.

As part of the project, several railroad bores are required. The location of the bores is noted on the enclosed Vicinity Map. Bore No. 1, 3 and 4 are under the Kansas City Southern Railway. The application fee for these bores is $2,000 each with a check made payable to Jones, Lang, LaSalle (JLL). Bore No 2 is under Canadian National (CN) with an application fee of $750.00.

Recap:	JLL	$6,000.00
	CN	$ 750.00

This will begin the permitting process with the aforementioned entities. Once approved, please forward the appropriate checks to our office for inclusion with the applications and subsequent transmission to the appropriate entities.

If you should have any questions or comments regarding the project, please do not hesitate to call.

Sincerely,

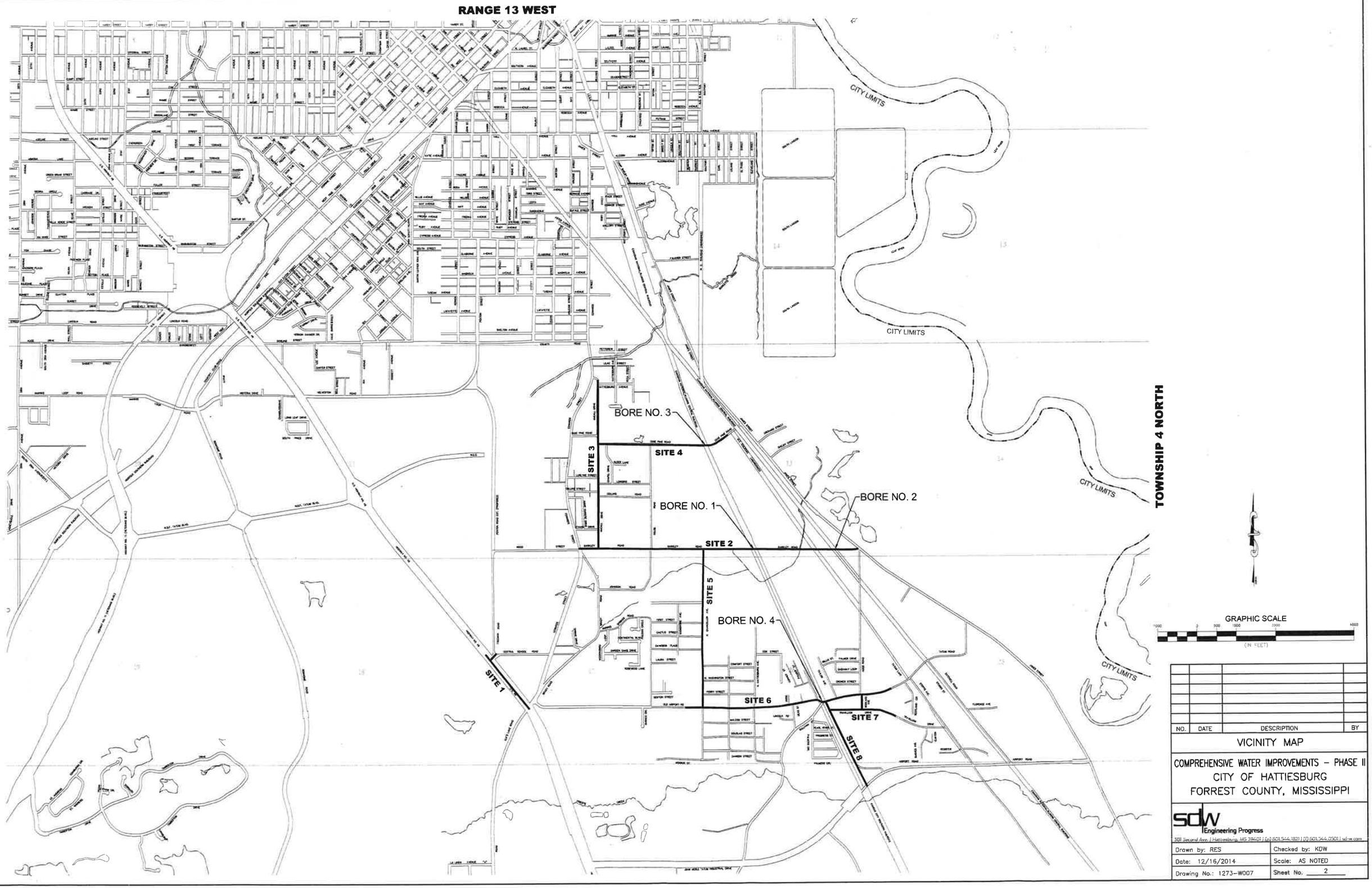
Kyle D. Wallace, P.E.
Project Engineer

/kw

enclosures

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

G:\PROJECTS\Hattiesburg_City of\1273-W007 - COMSWIP Water Improvements Phase II-Palmers Crossing and Irene Chapel\1273W007\CAD Files\1273W007_cvrmapnotes.dwg, 2, 1/26/2017 2:22:20 PM



NO.	DATE	DESCRIPTION	BY

VICINITY MAP

COMPREHENSIVE WATER IMPROVEMENTS – PHASE II
CITY OF HATTIESBURG
FORREST COUNTY, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0301 | sd-w.com

Drawn by: RES	Checked by: KDW
Date: 12/16/2014	Scale: AS NOTED
Drawing No.: 1273–W007	Sheet No. 2

BORE NO. 1

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

Utility Permit Process Instructions

How to apply:

In an effort to effectively facilitate the permit process, The Kansas City Southern Railway Company ("KCS") has partnered with JLL who is committed to provide professional permitting services. This form is intended to provide you with all the information you should need to apply for a permit with KCS through JLL.

Complete the application, print and mail with the following:

- $2,000 (if parallel installation call Sylvia Schmidt) non-refundable processing fee, payable to JLL. KCS requires the processing fee be sent with the application or it will be returned. The processing fee covers a standard application review. If an additional review is needed to analyze any out-of-the-ordinary conditions such as structural, electrical, railroad signal wiring/equipment, geotechnical, environmental, etc., additional processing fees may be warranted and charged. KCS will notify the applicant in advance of such additional review prior to assessing any additional processing fees.

- This processing fee does not include any fees for rents, insurance, construction observation, flagging or mobilization. Payment of all additional fees is due prior to construction.

- Drawing of the area to be occupied pursuant to Section G of the Specific Requirements.

- Aerial of the area to be occupied showing at least one (1) adjacent crossing (aerial image must match what it says about the nearest crossing on the application).

TO: Sylvia Schmidt
Senior Permit Manager
JLL - Rail Practice Group
4300 Amon Carter Blvd., Suite 100
Fort Worth, TX 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

Permit Process & Time:

1. Before review can begin on this application, if there are any discrepancies in the application or plans, your application will be returned to you to correct, which will hold up and delay processing your application. **Specifications identified in your plans must match the application.**

2. Once received by JLL, application and drawing will be forwarded to the engineering firm to perform the engineering specification review, **prepare the Exhibit "A" drawing for the** agreement, and obtain KCS approval. Please ensure all information provided is accurate as it will be used to prepare the exhibit. This process takes approximately 6 weeks. An additional processing fee up to $1,200 may be charged for each modification to the exhibit. However, the additional fee could exceed $1,200 in circumstances where the change requires additional engineering or signaling investigation beyond those considered standard.

3. When the exhibit is completed, provided KCS approves the application, an agreement will be prepared and emailed to applicant for original signature. If application is not approved, applicant will be notified in writing with reasons for disapproval.

4. Once agreement is received by applicant, applicant will forward two (2) copies with original signatures, along with the appropriate agreement payment, and insurance documents to JLL.

5. Pursuant to Section 13 of the application, applicant **must** contact the engineering firm, Bartlett & West, a minimum of 10 days in advance notice of construction and sign their contract for construction observation, flagging and mobilization. The agreement **will not** be executed by KCS or forwarded to applicant until evidence has been

provided that applicant has contracted with the engineering firm for construction observation, flagging and mobilization.

6. Final agreements with original signatures are presented to KCS for execution, provided fees have been received, construction observation, flagging and mobilization have been contracted for, and insurance is compliant.

7. Once the agreement is executed, a copy will be emailed and one (1) original will be returned for applicant files.

8. The average time period for completion of this process is 6 to 8 weeks from the time application is received. Every effort will be made to complete this process in a timely manner.

9. Installation of utility will **not** begin until all documents (signed agreement, insurance and fees) have been received and agreement has been fully executed by KCS. If the installation has not occurred within 150 days from the date an agreement is sent to applicant for signature, a second review and processing fee of $2,000 will required to confirm track or other conditions have not changed.

Insurance Requirements:

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as a Certificate Holder for the following:

- Comprehensive General Liability & Contractual Liability Insurance. $2,000,000 per occurrence and an aggregate of $4,000,000 minimum limits;
- Automobile Liability Insurance. $1,000,000 combined single limit;
- Workers Compensation Insurance. Minimum statutory worker's compensation coverage for all covered employees who are on Licensor's property;
- **Policy will be endorsed to give 30 day's written notice of its intent to** cancel or materially alter to KCS and its Affiliates;
- Commercial General Liability naming KCS and its Affiliates as additional insured;
- Waiver of subrogation in favor of KCS and its Affiliates;
- All policies will be primary to any insurance or self-insurance KCS and its Affiliates may maintain for acts or omissions of Licensee or anyone for whom Licensee is responsible.

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as an Insured for the following:

- Railroad Protective Liability Insurance naming KCS and its Affiliates as insured with $2,000,000 per occurrence and $6,000,000 aggregate. Visit www.railroadprotectivesolutions.com to obtain.

These limits are subject to change at any time without notice. An agreement will be provided to you, which contains details concerning insurance requirements.

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

Application for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

Crossing - $2,000 Processing Fee
Parallel – Call Sylvia Schmidt

Submit with non-refundable payable to:
JLL
Attn.: Sylvia Schmidt
4300 Amon Carter Blvd., Suite 100
Fort Worth, Texas 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

1. Applicant Information:

Legal Name of the Owner of the Utility: City of Hattiesburg

Attn.: Lamar Rutland, P.E.

Mailing Address: P.O. Box 1898 City, State, Zip: Hattiesburg, MS 39403-1898

Phone: (601) 545-4640 Cell: _____

Email to whom agreement is to be sent: lrutland@hattiesburgms.com

Check One: ☐ Individual ☐ Company ☐ Partnership
☐ Corporation ☒ Municipality ☐ Other (Specify) _____

Who to contact in the event of engineering questions: Kyle D. Wallace, P.E.

Phone: 9601) 544-1821 Cell: (601) 310-7818

Email: kyle@sd-w.com

Proposed Installation Date(s): June 2017

If not constructed within one (1) year, an additional review fee may be charged.

2. Type of Encroachment (Crossing):

Check All That Apply: ☐ Overhead ☒ Underground ☐ Parallel

If Overhead, vertical clearance is _____ (in feet and inches) a **28'** minimum is required from top of rail to bottom of overhead crossing point (maximum sag at 212°).

Existing Poles ☐ Yes ☐ No Distance between poles/Distance from edge of nearest track: ____/____.

If Underground Crossing, depth of casing/carrier pipe: 10.0 feet below base of rail and 6.0 feet below ground surface or bottom of ditches, whichever is deeper (if (a) casing is used: minimum **10'** below base of rail and minimum **6'** from natural ground surface or from bottom of ditches; (b) if casing is not used: minimum **10'** below base of rail and minimum **10'** from natural ground surface or from bottom of ditches).

If Underground Parallel, distance _____ measured at right angle from centerline of tracks to encroachment (parallel and minimum 25' feet away, then minimum 72") ground cover; parallel and greater than 25' away, then minimum ground cover of 60". **If the request is within 50' of KCS right-of-way, utility line shall be at least 10' below the** ground for the entire KCS right-of-way.

If an existing crossing is to be abandoned, see Section D – Abandonment on the Specific Requirements sheet.

3. Location: (provide all the information you can and identify two (2) markers of location information that can independently allow for verification of the wire line location in Section 3 and Section 4).

If crossing, relation to centerline of KCS Tracks at KCS Mile Post 67 + 1,304 feet

If parallel, beginning KCS Mile Post _____ + _____', ending KCS Mile Post + _____'

Railroad Subdivision _____

If spur, distance from point of switch _____ feet

In or near City/Town/Village Hattiesburg, Parish/County Forrest, State MS

Section 23 Township 4N Range 13W

4. Other Distances:

If install is near a KCS bridge or culvert, distance from inside face of back wall on nearest KCS

Bridge: _____ Bridge MP: _____

Distance from centerline of nearest road crossing measured perpendicular to the rail line: _____

DOTD#: _____ (http://safetydata.fra.dot.gov/OfficeofSafety/PublicSite/Crossing/Crossing.aspx)

Street Name: Barkley Road

5. Angle of Crossing:

66 ° - 00 ' - 00 " **(if crossing track, not less than 45 degrees).**

6. Wire Line Commodity:

☐ Telephone ☐ Power Line (Voltage _____) ☐ Other (Specify) _____

☐ Fiber Optic – **If underground, number of Innerducts within casing pipe** _____

If an innerduct will be left spare or empty, clearly identify type of facility that will be installed within each innerduct.

_____

_____

See Section A – General on the Specific Requirements sheet for standards used.

If encroachment is an overhead wire line, proceed to the end of this application and provide signature.

7. Pipeline Commodity:

Commodity to be transmitted in the pipeline: Water

Transmitted by: ☐ Gravity ☒ Force ☐ Liquid

☐ Gas ☐ Steam ☐ Other (Please Specify _____)

Type of Commodity: ☐ Flammable ☒ Non-Flammable ☐ Corrosive ☐ Toxic

☐ Environmental Hazard

If hazardous, toxic or corrosive material, give details: _____

See Section A – General on the Specific Requirements sheet for standards used.

8. Pipe/Wire Information:	**Carrier Pipe**	**Casing Pipe**
Inside Diameter (nominal):	16"	20"
Wall Thickness:	1.778"	0.375"
Material:	HDPE	Steel
Minimum Yield Point of Material:		35 ksi
Type of Joint:	Heat Fusion	Welded
Maximum Operating Pressure in Pipeline:	N/A	N/A

Hydrostatic pressure at which carrier pipe will be tested before using: 150 psi

Will carrier pipe have protective coating? ☐ Yes ☒ No If so, please provide type: _____

Will carrier pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

9. Casing Information:

Length of casing pipe 120 LF (if casing pipe is vented, casing shall extend to right-of-way lines; if **not vented, casing shall be a minimum 25' each side as measured at right angles to centerline of track).**

Will casing pipe have protective coating? ☐ Yes ☒ No

If so, please provide type: _____

Will casing pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

See Section B – Casing and Section E – Signage on the Specific Requirements sheet for additional requirements.

10. Method of Installing Pipe/Wire: Dry Bore and Jack

*Dry Bore and Jack, Conventional Dry Bore or Directional Drill up to 10". Wet boring or open cut trenching across tracks **WILL NOT** be permitted.*

See **Section C – Boring** and **Section F – Shoring** on the Specific Requirements sheet for additional requirements.

11. Venting:

Will casing pipe be vented? ☐ Yes ☒ No Diameter: _____ (minimum 2")

Number of Vents: _____ Vent Height above ground surface: _____ (minimum 4')

Pipes carrying flammable contents must be vented. Vents are to be located at ends of casing off of KCS property and to be shown on drawing.

12. Additional Fees:

All excavations and installations on KCS's right-of-way will require construction observation, documentation and flagging by KCS or its authorized representative. Applicant or its contractor must contact Bartlett & West; KCS's authorized representative, a minimum of 10 days in advance of the scheduled construction date. Applicant will contract directly with Bartlett & West for the above services. The contact at Bartlett & West is Tom Faulkner at (817) 840-1562 or 785-215-2011, or by email at thomas.faulkner@bartwest.com. All costs associated with construction observation and flagging are the sole responsibility of the applicant. The daily services fees are $2,500 per day, which include flagging and construction observation services. In addition to the daily fee, a fee of $2,000 per mobilization fee will be charged for each job. Prices are subject to change and can double for 24-hour construction projects. No agreement for crossing or encroachment will be executed by KCS until applicant has contracted with Bartlett & West for the construction observation and flagging.

Each encroachment will also be subject to an annual or one-time fee, dependent on the type of installation and length of encroachment. If you will need to know these amounts before application, contact Sylvia Schmidt at sylvia.schmidt@am.jll.com or 817-230-2688.

Extreme caution is to be used in excavation due to the possible existence of other underground facilities along KCS's right-of-way. Any damage to existing facilities will be the sole responsibility of the applicant. In compliance with State law, prior to commencing work, the contractor shall notify appropriate State "One Call" service.

13. Existing Agreement? ☐ Yes ☒ No

If replacing or repairing an existing line, a copy of the current permit agreement with KCS ***must*** *be provided and accompany this application.*

14. Was this service requested by KCS? ☐ Yes ☒ No

If yes, who requested? _____ Phone #: _____

Is this installation in conjunction with a track or track expansion project? ☐ Yes ☒ No

If yes, KCS contact name and phone number: _____ Phone#: _____

By signing below, **applicant agrees to pay all fees associated with the installation of this utility.**

Name of Applicant	Signature of Applicant	Date

If application is not signed and dated by applicant, application will be returned.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

A. General

Pipelines will be reviewed for compliance with The American Railway Engineering and Maintenance of Way Association (AREMA) standards. AREMA standards are available for purchase online at www.arema.org and specific parts may be purchased. The following Parts are utilized for underground installations:

5.1 Specifications for Pipelines Conveying Flammable Substances
5.2 Specifications for Uncased Pipelines within the Railway Right-of-Way
5.3 Specifications for Pipelines Conveying Non-Flammable Substances
5.4 Specifications for Overhead Pipelines Crossings
5.5 Specifications for Fiber optic "Route" Construction on Railroad Right-of-Way

Wire lines will be reviewed for compliance with the 2002 National Electric Safety Code Article 232, Table 232.1.

B. Casing

It is preferred that all pipelines have steel carriers and are encased in steel pipes. Uncased carrier pipe transporting or **conveying natural gas must be steel and must be at a minimum depth of 10' from base of rail to top of carrier pipe, and** a minimum of 10' **between top of** carrier pipe and natural ground or ditch bottom on KCS right-of-way. PVC, HDPE, and ductile iron carrier pipes must be encased in steel casing pipes extending from right-of-way line to right-of-way line.

Inside diameter of casing pipe shall be at least 2" greater than the largest outside diameter of the carrier pipe, joints, or couplings, for carrier pipes less than 6" in diameter; and at least 4" greater for carrier pipe 6" and over in diameter.

Additionally, KCS requires that all pipelines carrying liquid flammables must be encased across the entire width of the KCS right-of-way.

C. Boring

Bore pits **must** be placed outside of the KCS right-of-way. If there are extenuating circumstances which require a bore pit to be placed within the limits of the right-of-way, specific application must be made outlining the need for encroachment upon the KCS right-of-way and written permission must be obtained before construction is allowed.

Misaligned bores will not be pulled and re-drilled, but abandoned in place. Please see Section D – Abandonment for requirements. New bore will be moved at least 5' to either side of the misaligned attempt and re-drilled.

No wet bores or open cut trenching across tracks will be allowed. Directional boring must utilize a machine which retrieves a majority (95%) of the drilling fluid slurry used in the placement of lines/casings. Under paragraph 5.5.3.4.8 **of AREMA Standards, the maximum size of the finished hole is 10" for fiber optic installation. AREMA specifically** states in paragraph 5.5.3.4.6 that wet bores are not allowed for installations in KCS' right-of-way. Wet bores refers to the use of liquids to displace soil.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks - Continued

D. Abandonment

Any lines being abandoned must be filled with a suitable flow able fill material and sealed.

When carrier pipe is centered in casing, provide end seals as manufactured by Link-Seal, Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

When carrier pipe is not centered in casing, provide end seals as manufactured by Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

E. Signage

All underground installations will be marked at entry and exit to KCS right-of-way with a sign mounted on a substantial post at least 4' above ground surface. Parallel encroachments will be marked with a sign every 500' and at every road crossing with a sign mounted on a substantial post at least 4' above ground surface. The sign must convey the commodity conveyed, name of licensee, address of licensee, emergency phone number and any emergency response information.

F. Shoring

All underground installations will be subject to an additional shoring review. All bore pits will be subject to OSHA requirements and may also be subject to AREMA standards (Part 28 – Temporary Structures for Construction). Using the print titled "General Shoring Requirements" Date: 4/21/06, Rev.: 4/27/07; a determination will be made on the need for a shoring review. If this additional review is required, please add 2 weeks to the estimated time to process your application. Additional documentation including shoring calculations and design details signed and sealed by a structural engineer, will need to be submitted to KCS Engineering department for review. The engineering review cost will need to be paid in advance at the rate of $3,000 per installation. This amount is **in addition** to the standard $2,000 processing fee.

G. Application Submittal

Applicant to furnish copy of fully completed application and print showing drawing with crossing measured from the nearest Mile Post, Bridge back wall, point of mainline switch or DOT-AAR numbered vehicular crossing, as well as limits of KCS (and street or highway, if involved) right-of-way; plus print of profile sketch (cross section) of actual situation showing relationship of tracks, contours of ground and surface ditches, the encroaching line, other buried or wire lines (if known), etc. This is to be used to prepare exhibit for agreement. **Print must show north.**

H. Schedule

The standard review takes approximately 6 weeks. These are estimated times for review and are not guaranteed. When application has been processed and agreement executed, allow a minimum of 10 days for scheduling of applicable flagging and construction observation services.

Dry Bore & Jack and Directional Drilling Specifications

1. Prior to drilling, the contractor is to provide the following information to KCS or the designated KCS representative for review and approval before any construction activities commence:

   - Type of drilling fluid and additives to be used (straight water is not acceptable);
   - Anticipated drilling fluid volume used for initial bore and pull back of casing pipe;
   - Anticipated drilling fluid pressure;
   - Anticipated drilling rate;
   - Anticipated drilling fluid volume recovery (minimum 95%).

2. Fluid volume, fluid pressure, and pumping rate are to be monitored by the drilling contractor (calibrated fluid tanks are to be used) and are to be provided to the KCS.

3. The bore is to be of constant grade (under the KCS right-of-way). No sag in pipe grade is allowed.

4. The back reamer is to have a maximum diameter of 10". Maximum casing pipe diameter is 8".

5. The contractor is to track the drill head during drilling and record depth of cover below existing surface and provide this information to the KCS.

6. If the casing becomes stuck, the end is to be cut off, the casing filled with flow able fill, and abandoned. An exhibit indicating the horizontal and vertical location of the abandoned casing must be provided to KCS. Casing pipe is only to be pulled into place with the drilling equipment. The use of a dozer, backhoe, etc. to pull casing pipe into place is not permitted.

7. If the fluid volume significantly exceeds the expected volume, or if the fluid pressure drops significantly, drilling is to stop, and the bore is to be filled with bentonite slurry and abandoned.

8. Casing ends must be sealed, with the contractor informing KCS of the type of seal they propose to use.

9. Identifying marker signs indicating the presence of the new utility must be posted within 24 hours of casing and carrier pipe material installation and backfilling of any pits and dressing of KCS right-of-way. The drilling contractor will be assessed a fee of $1,500/day until the signs are placed. The inspector will stay on site and a fee of $1,500 per day will be assessed until the signs are in place.

10. An exhibit indicating the plan view, skew, and vertical elevations of the casing must be submitted to KCS upon completion of the project.

11. Initial bore pit and receiving pit are to be located off of KCS right-of-way. If it is necessary for the pit(s) to be on KCS right-of-way, shoring plans for railroad loading must be provided to KCS for review and approval prior to the beginning of work.

TRACK PROTECTION SHORING:

ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO C OF TRACK.

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE RAILROAD ENGINEER, DETAILED PLANS INDICATING THE NATURE AND EXTENT OF THE TRACK PROTECTION SHORING PROPOSED. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRACK PROTECTION SHORING BEFORE COMMENCING EXCAVATION.

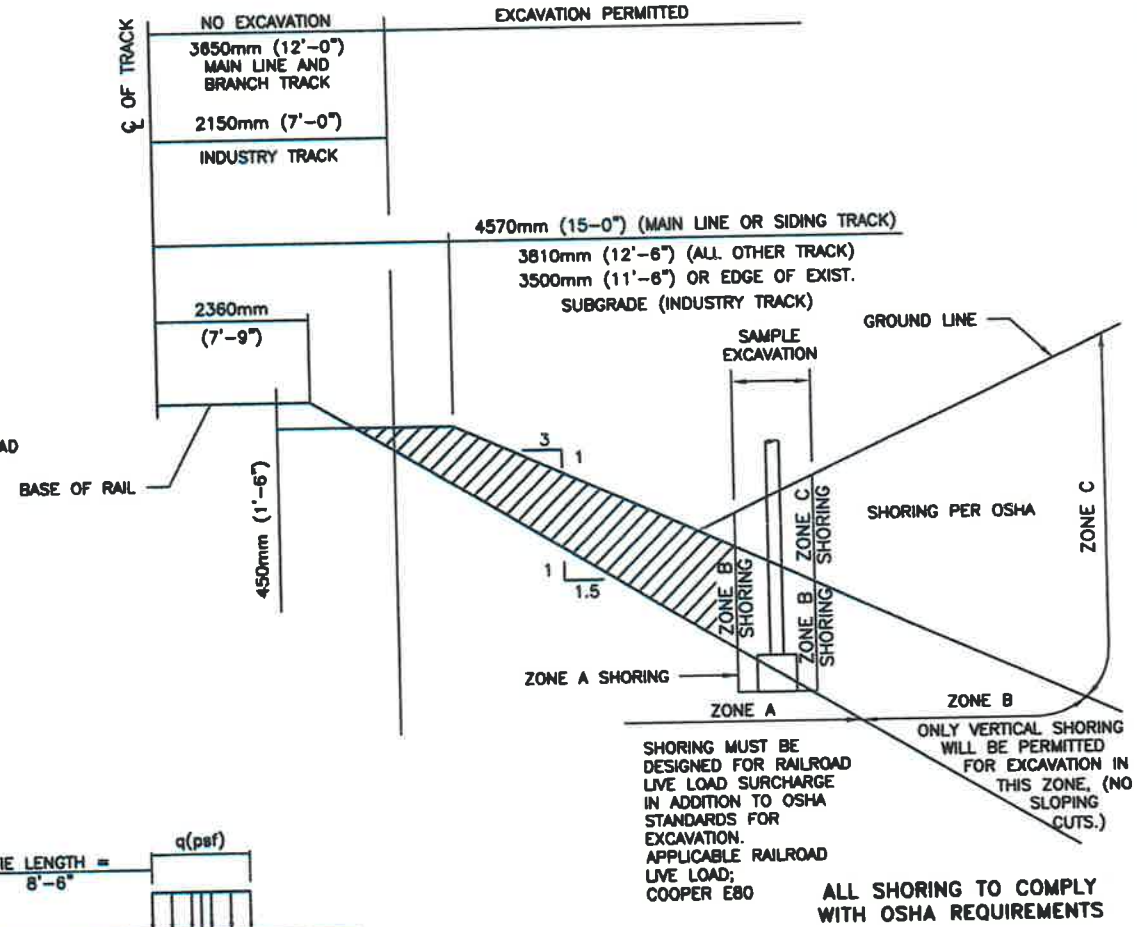
SHORING WITHIN ZONE A SHALL BE DESIGNED FOR COOPER E80 LIVE LOAD SURCHARGE, IN ADDITION TO ALL OTHER APPLICABLE LOADS. THE RAILROAD MAY IMPOSE MORE STRINGENT REQUIREMENTS AS CONDITIONS WARRANT.

FOR EXCAVATIONS WHICH ENCROACH INTO RAILROAD LIVE LOAD SURCHARGE ZONE A, SHORING PLANS WILL BE ACCOMPANIED BY A COPY OF DESIGN CALCULATIONS, AND BOTH MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE APPLICABLE STATE.

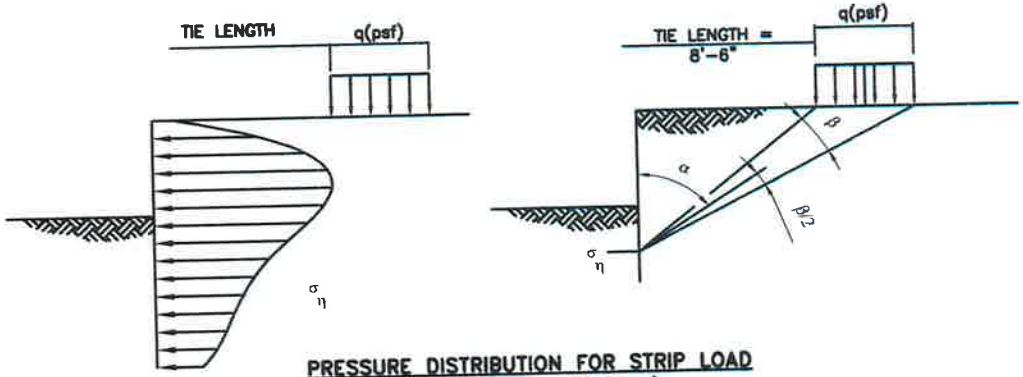
THE PRESSURE AT A GIVEN POINT OF A CONTINUOUS STRIP OF SURCHARGE LOAD q(psf) PARALLEL TO SHORING SHALL BE COMPUTED BY:

$$\sigma_\eta = \frac{2q}{\pi}\left[\beta - \sin\beta\cos 2\alpha\right]$$

WHERE ANGLES α AND β ARE EXPRESSED IN RADIANS.



$$q = \frac{80{,}000 \text{ lbs}}{(5 \text{ FEET})(8.5 \text{ FEET})}$$



PRESSURE DISTRIBUTION FOR STRIP LOAD (AREMA FIGURE 8.20-2)

K.C.S. STANDARDS	DATE: 4-21-06 REV: 4-27-07 SCALE: NONE DRAWN BY: RED	APPROVED BY: CHIEF ENGINEER	GENERAL SHORING REQUIREMENTS

DRAWING NO.
BR-122

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

GENERAL NOTES:

1. RAILROAD REPRESENTATIVE AND FLAGMAN SHALL BE PRESENT DURING ALL CONSTRUCTION CROSSING THE RAILROAD.
2. EXCAVATION SHALL NOT BE PERMITTED INSIDE RAILROAD RIGHT-OF-WAY.
3. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE RAILROADS PIPELINE OCCUPANCY SPECIFICATIONS.
4. PIPELINE AND CROSSING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
5. BLASTING NOT PERMITTED.
6. WHERE THE WATER MAIN IS WITHIN 10 FEET OF A SEWER MAIN HORIZONTALLY, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS OTHERWISE NOTED.
7. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.

KANSAS CITY SOUTHERN RAILROAD
GENERAL NOTES

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

LINETYPE & SYMBOLS LEGEND:

- CENTER LINE
- RAILROAD
- APPARENT KANSAS CITY SOUTHERN RAILROAD ROW
- FENCE (EXIST)
- •FID – FIBER OPTIC INDICATOR POST (EXIST)
- FOB – FIBER OPTIC PULL BOX (EXIST)
- FIRE HYDRANT (EXIST)
- •GID – GAS INDICATOR POST (EXIST)
- G — G — G – GAS LINE (EXIST)
- GM – GAS METER (EXIST)
- GV – GAS VALVE (EXIST)
- •GT – GATE POST (EXIST)
- LP – LIGHT ON POLE (EXIST)
- P — P — P – OVERHEAD UTILITY LINES (EXIST)
- T — T — T – OVERHEAD UTILITY LINES (EXIST)
- POLE GUY WIRE (EXIST)
- PL – PROPERTY LINE (EXIST)
- FM — FM – SAN SWR FORCE MAIN (EXIST)
- SS — SS – SAN SWR LINE (EXIST)
- PS – SAN SWR PUMP STATION (EXIST)
- SIGN – SIGN (EXIST)
- SIGNAL – SIGNAL (EXIST)
- TREE LINE (EXIST)
- DITCH (EXIST)
- FO — FO – UNDERGROUND FIBER OPTIC LINE (EXIST)
- PP – UTILITY POLE (EXIST)
- W — W — W – WATER LINE (EXIST)
- WM – WATER METER (EXIST)
- WV – WATER VALVE (EXIST)
- WV – WATER VALVE (REQ'D)
- REDUCING FITTING (REQ'D)
- FIRE HYDRANT (REQ'D)
- W — W — W – WATER LINE (REQ'D)

ABBREVIATIONS LEGEND:

APPURT	– APPURTENANCES
BLDG	– BUILDING
BTM	– BOTTOM
℄	– CENTERLINE
CONC	– CONCRETE
CMP	– CORRUGATED METAL PIPE
CPP	– CORRUGATED PLASTIC PIPE
DI	– DUCTILE IRON PIPE
DR	– DIAMETER RATIO
EOP	– EDGE OF PAVEMENT
EXIST	– EXISTING
HDPE	– HIGH DENSITY POLYETHYLENE
KCS	– KANSAS CITY SOUTHERN
LF	– LINEAR FEET
ℙ	– PROPERTY LINE
RCP	– REINFORCED CONCRETE PIPE
REQ'D	– REQUIRED
ROW	– RIGHT OF WAY
RR	– RAILROAD
SAN	– SANITARY
SEW	– SEWER
W/	– WITH
WT	– WALL THICKNESS
XING	– CROSSING

KANSAS CITY SOUTHERN RAILROAD
ABBREVIATIONS & LEGEND

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

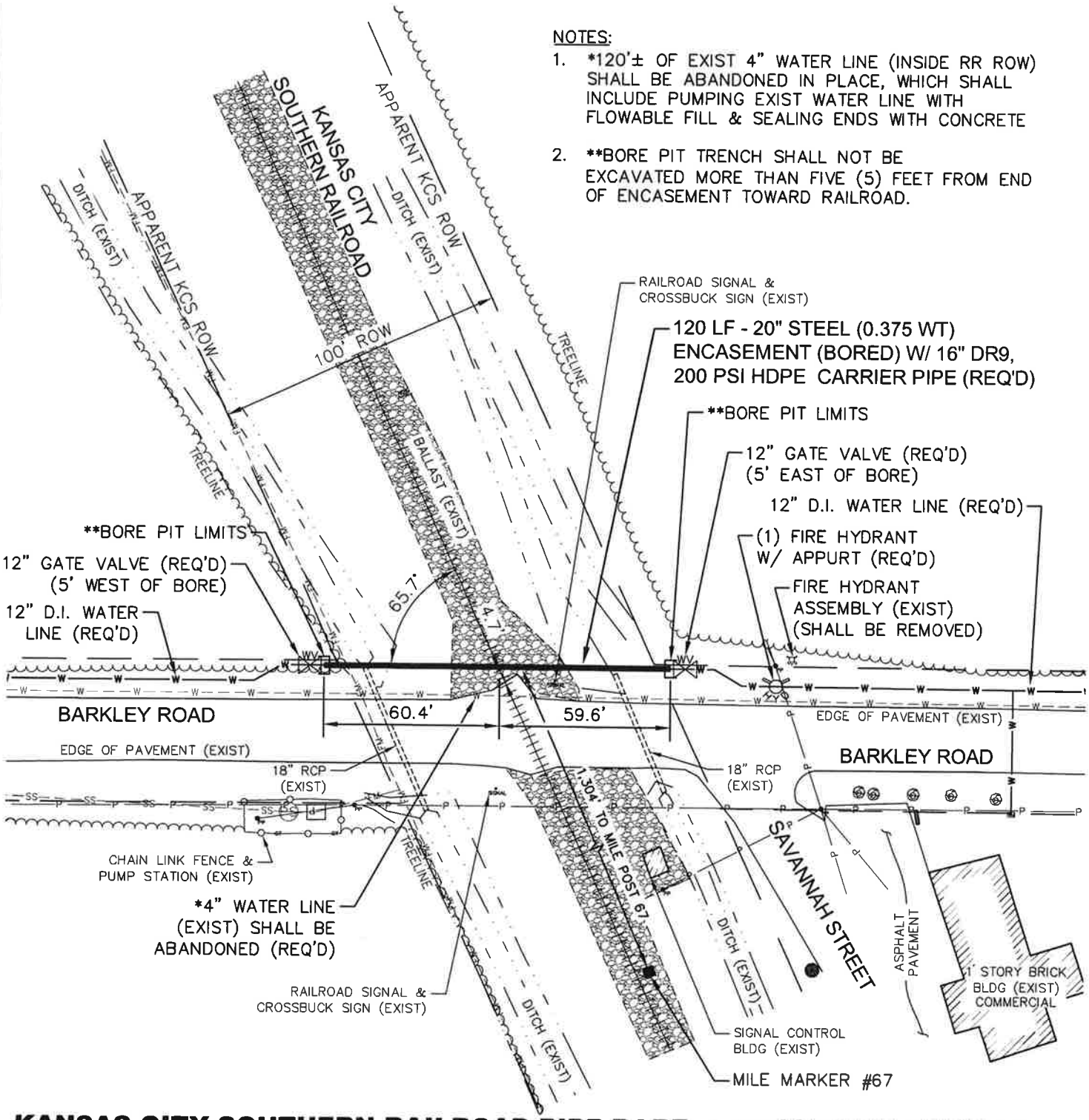
REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE: 1" = 50'

NOTES:

1. *120'± OF EXIST 4" WATER LINE (INSIDE RR ROW) SHALL BE ABANDONED IN PLACE, WHICH SHALL INCLUDE PUMPING EXIST WATER LINE WITH FLOWABLE FILL & SEALING ENDS WITH CONCRETE
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



KANSAS CITY SOUTHERN RAILROAD PIPE BORE: 1,304' NORTH OF MP #67

RAILROAD PERMIT

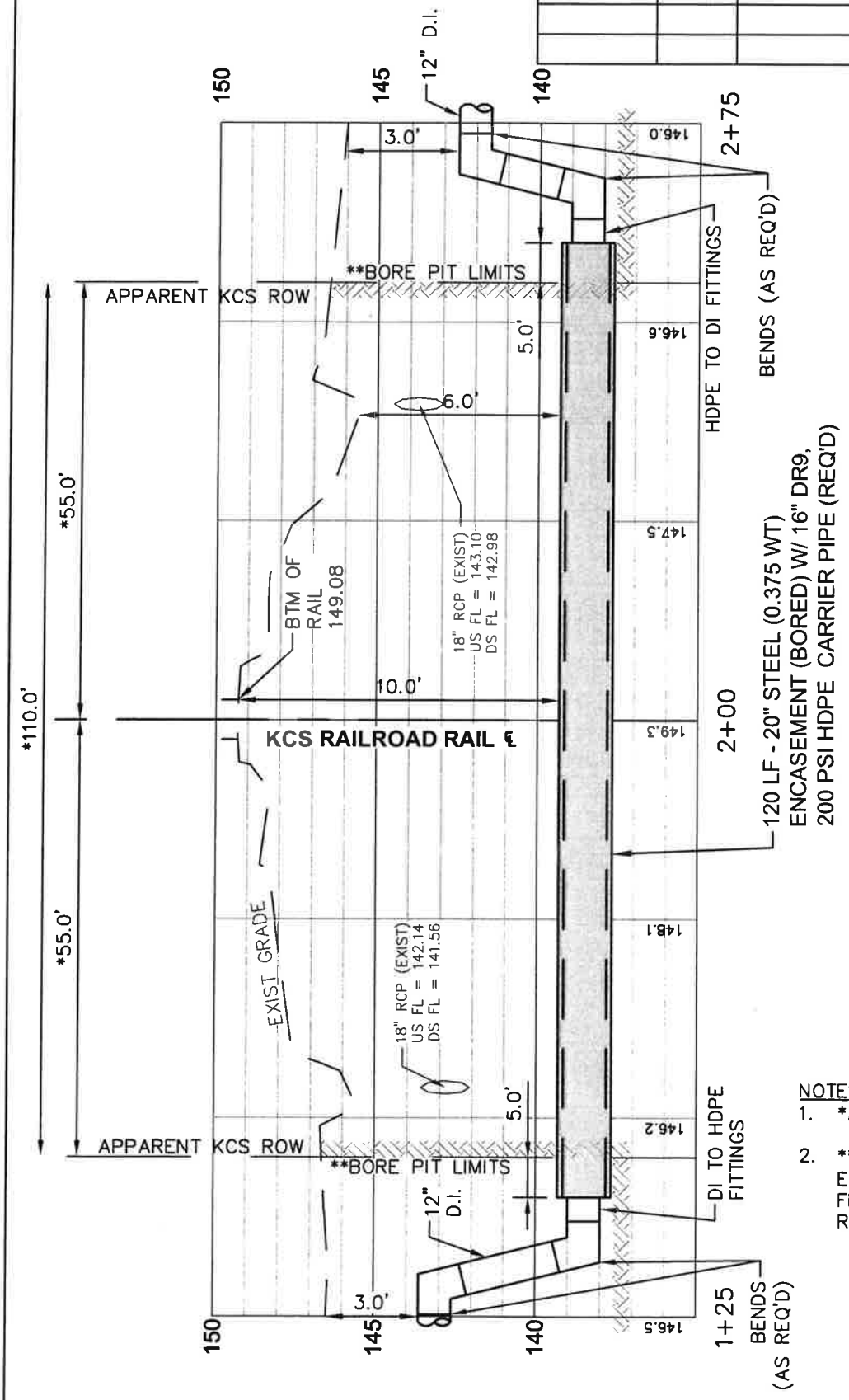
Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 5'



NOTES:

1. *AS MEASURED ALONG SECTION
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.

KANSAS CITY SOUTHERN RAILROAD
PIPE BORE: 1,304'
NORTH OF MP #67

BORE NO. 2

INITIAL NOTIFICATION OF INTENT TO CONSTRUCT PIPELINE CROSSING/ENCROACHMENT

Complete this form and return it along with a non-refundable preparation fee of $750 made out to CN.

DATE:

1. Owner/Applicant Information

Name and Address: City of Hattiesburg P.O. Box 1898 Hattiesburg, MS 39403-1898

Authorized Representative: Lamar Rutland, P.E. Title City Engineer

Phone Number: (601) 545-4640 Fax Number _____ Email lrutland@hattiesburgms.com

2. Location Of Pipeline

Pipeline Location Mile Post: 68 plus 5,156 feet (if parallel) to Mile Post: _____ plus _____ feet

At or Near Hattiesburg (Name of City, Town, Village)

3. Commodity to be transmitted in pipe line: Water

(steam, air, water, gasoline or other petroleum products, chemical-specify: natural or artificial gas. If sewer, identify as to force or gravity line, sanitary, storm or chemical waste – specify)

4. Pipe Data

	CARRIER PIPE	CASING PIPE
A. Inside Diameter:	14.222"	19"
B. Outside Diameter:	16"	20"
C. Wall Thickness:	1.778"	0.375"
D. Pipe Material:	HDPE	Steel
E. Specification/Grade or class:	DR-9	Class 350
F. Min. Yield Point of Material		35 ksi
G. Process of Manufacture		
H. Name of Manufacturer		
I. Type of Joint	Heat Fusion	Welded
J. Working Pressure	200 psi	350 psi

K. Maximum operating pressure in pipeline: 60 (psi by gauge)

L. Length of Casing pipe: 140 Feet

M. Will casing pipe/uncased carrier pipe be cathodically protected: N/A

N. Hydrostatic pressure carrier pipe will be tested with before using 150 (psi)

O. Will casing pipe be vented? N/A Size: _____

P. Will casing pipe/uncased carrier pipe have a protective coating? N/A Type: _____

Q. Depth of top of casing or uncased carrier pipe below base of rail or top of ground 10.0 feet. (Minimum at closest point)

R. Method of installing casing pipe /uncased carrier pipe Dry Bore and Jack.
(dry bore & jack, directional, tunnel, other – specify)

Attach to this application (3 copies) showing north arrow and a location sketch with crossings measured from the nearest railroad mile post and a profile sketch of actual situations showing relationship of tracks, contour of ground, the buried pipe, etc. Distance from each facility (encroachment) to the centerline of nearest road, crossing, bridge or other Railroad structures, must be clearly indicated. Right of way lines of railroad and labeled Street or highway, if involved, should also be shown.

RAILROAD PERMIT

Sheet No.: 1 of 3

Permit No.: _____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

GENERAL NOTES:

1. RAILROAD REPRESENTATIVE AND FLAGMAN SHALL BE PRESENT DURING ALL CONSTRUCTION CROSSING THE RAILROAD.
2. EXCAVATION SHALL NOT BE PERMITTED INSIDE RAILROAD RIGHT–OF–WAY.
3. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE RAILROADS PIPELINE OCCUPANCY SPECIFICATIONS.
4. PIPELINE AND CROSSING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON–FLAMMABLE SUBSTANCES.
5. BLASTING NOT PERMITTED.
6. WHERE THE WATER MAIN IS WITHIN 10 FEET OF A SEWER MAIN HORIZONTALLY, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS OTHERWISE NOTED.
7. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.

ABBREVIATIONS LEGEND:

BLDG	– BUILDING
BTM	– BOTTOM
℄	– CENTERLINE
CN/IC	– CANADIAN NATIONAL ILLINOIS CENTRAL
CONC	– CONCRETE
DI	– DUCTILE IRON PIPE
EOP	– EDGE OF PAVEMENT
EXIST	– EXISTING
HDPE	– HIGH DENSITY POLYETHYLENE
LF	– LINEAR FEET
ℙ	– PROPERTY LINE
RCP	– REINFORCED CONCRETE PIPE
REQ'D	– REQUIRED
ROW	– RIGHT OF WAY
RR	– RAILROAD
W/	– WITH
XING	– CROSSING

LINETYPE & SYMBOLS LEGEND:

	– CENTERLINE
	– RAILROAD (EXIST)
	– APPARENT MDOT RIGHT–OF–WAY
	– FENCE (EXIST)
	– OVERHEAD UTILITY LINES (EXIST)
	– POLE GUY WIRE (EXIST)
	– PROPERTY LINE (EXIST)
	– TREE LINE (EXIST)
	– DITCH (EXIST)
	– UTILITY POLE (EXIST)
	– WATER LINE (EXIST)
	– WATER METER (EXIST)
	– WATER VALVE (EXIST)
	– WATER VALVE (REQ'D)
	– WATER LINE (REQ'D)

CANADIAN NATIONAL / ILLINOIS CENTRAL RAILROAD
5,156' SOUTH OF MP #68

RAILROAD PERMIT

Sheet No.: 2 of 3

Permit No.: _____

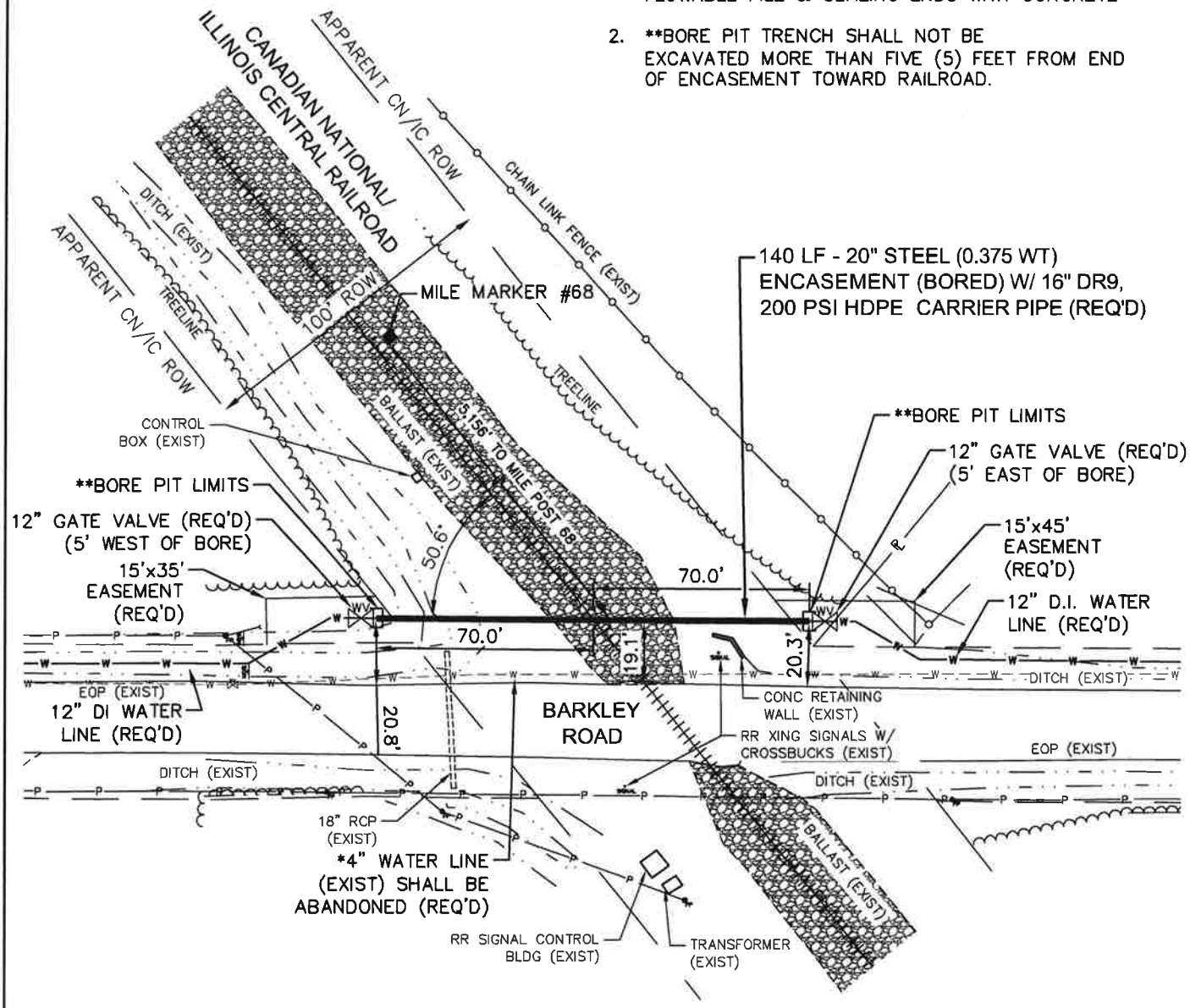
REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE: 1" = 50'

NOTES:

1. *140'± OF EXIST 4" WATER LINE (INSIDE RR ROW) SHALL BE ABANDONED IN PLACE, WHICH SHALL INCLUDE PUMPING EXIST WATER LINE WITH FLOWABLE FILL & SEALING ENDS WITH CONCRETE
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



CANADIAN NATIONAL / ILLINOIS CENTRAL RAILROAD PIPE BORE: 5,156' SOUTH OF MP #68

RAILROAD PERMIT

Sheet No.: 3 of 3

Permit No.: _____

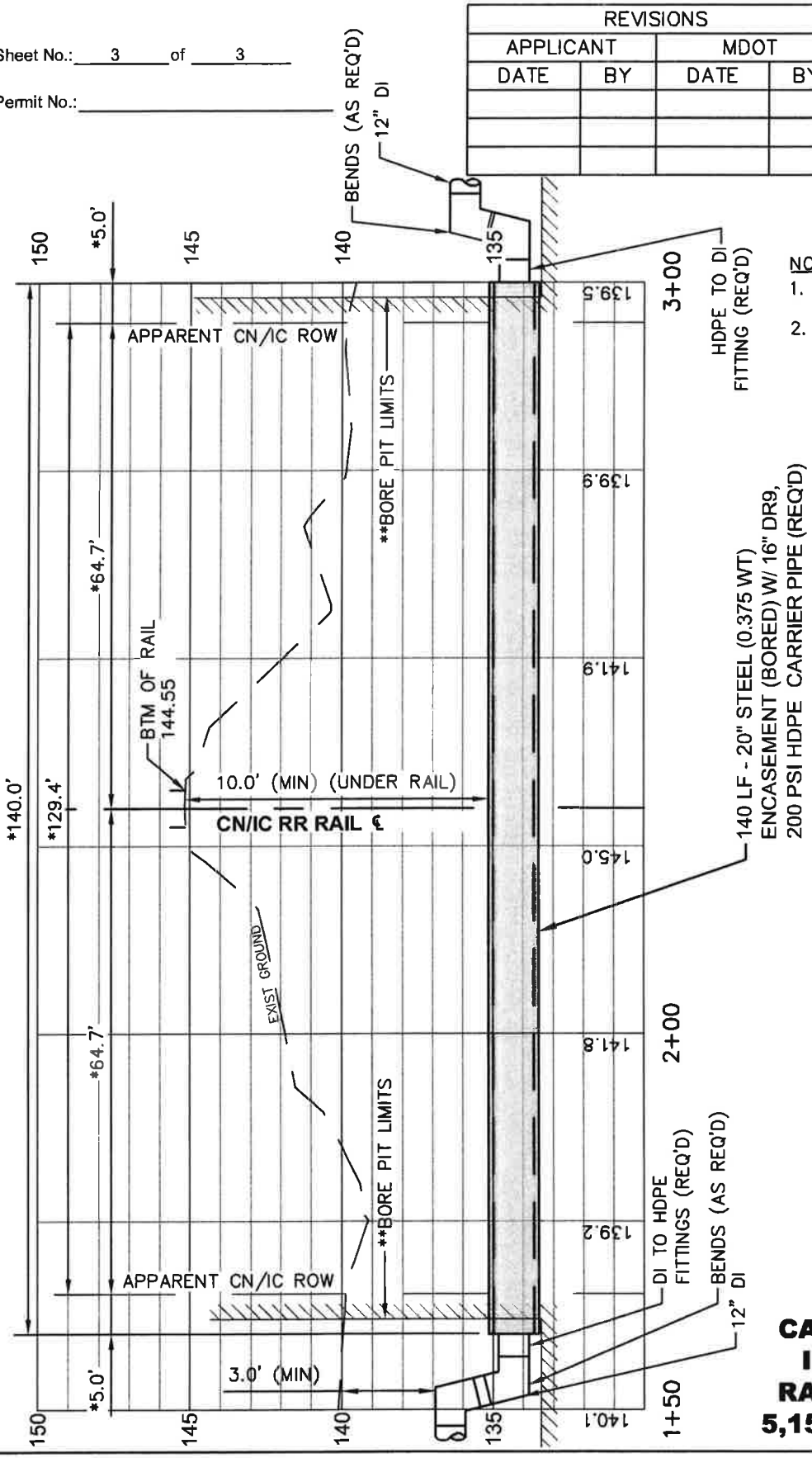
REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 5'

NOTES:

1. *AS MEASURED ALONG SECTION
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



CANADIAN NATIONAL / ILLINOIS CENTRAL RAILROAD PIPE BORE: 5,156' SOUTH OF MP #68

CN

INSURANCE REQUIREMENTS

1. By Licensee

Before commencing work, and until this Agreement shall be terminated or the FACILITY shall be removed (whichever date is later), the LICENSEE shall provide and maintain the following insurance in form and amount with companies satisfactory to and as approved by the RAILROAD.

a. Statutory Workers Compensation and Employer's Liability insurance.

b. Automobile Liability in an amount not less than $1,000,000 dollars combined single limit.

c. Comprehensive General Liability (Occurrence Form) in an amount not less than $5,000,000 dollars combined single limit, with an aggregate of at least $10,000,000 dollars. The Policy must name the appropriate RAILROAD as an Additional Insured and must not contain any exclusions related to:

   1. Doing business on, near, or adjacent to railroad facilities.

   2. Loss or damage resulting from surface, subsurface pollution contamination or seepage, or handling, treatment, disposal, or dumping of waste materials or substances.

Before commencing work, the LICENSEE shall deliver to the RAILROAD a certificate of insurance evidencing the foregoing coverage and upon request the LICENSEE shall deliver a certified, true and complete copy of the policy or policies. The policies shall provide for not less that ten (10) days prior written notice to the RAILROAD of cancellation of or any material change in, the policies; and shall contain the waiver of right of subrogation.

It is understood and agreed that the foregoing insurance coverage is not intended to, and shall not, relieve the LICENSEE from or serve to limit LICENSEE's liability under the indemnity provisions of any applicable agreement.

It is further understood and agreed that, so long as the Agreement shall remain in force or the FACILITY shall have been removed (whichever shall be later), the RAILROAD shall have the right, from time to time, to revise the amount or form of insurance coverage provided as circumstances or changing economic conditions may require. The RAILROAD shall give the LICENSEE written notice of any such requested change at least thirty (30) days prior to the date of expiration of the then existing policy or policies; and the LICENSEE agrees to, and shall, thereupon provide the RAILROAD with such revised policy or policies thereof.

CN

INSURANCE REQUIREMENTS

2. By the Licensee's Contractor

If a contractor is to be employed by the Licensee for the installation of the FACILITY, then, before commencing work, the contractor shall provide and maintain the following insurance, in form and amount and with companies satisfactory to, and as approved by, the RAILROAD.

a. Statutory Workers' Compensation and Employer's Liability insurance.

b. Automobile Liability in an amount not less than $1,000,000 dollars combined single limit.

c. An Occurrence Form Railroad Protective Policy with limits of not less that $5,000,000 dollars per occurrence for Bodily Injury Liability, Property Damage Liability and Physical Damage to Property with $10,000,000 dollars aggregate for the term of the policy with respect of Bodily Injury Liability, Property Damage Liability and Physical Damage to Property. The policy must name the appropriate RAILROAD as the insured, and shall provide for not less than ten (10) days prior written notice to the RAILROAD'S as cancellation of, or any material change, in the policy.

CN

PIPELINE/WIRELINE CROSSING CONTACTS

CROSSING PERMITS

Name: Joseph Wojcik

Address: CN
17641 S. Ashland Avenue
Homewood, IL 60430

Phone: (708) 332-4739

Fax: (708) 332-5474

Email: Josephs.Wojcik@cn.ca

FLAGGING AND/OR CABLE LOCATE

Name: Mary Ellen Carmody

Address: CN
24004 Vreeland Road
Flat Rock, MI 48134

Phone: (734) 783-4533

Fax: (734) 783-4647

Email: MaryEllen.Carmody@cn.ca

REQUIREMENTS REGARDING FLAGGING AND CABLE LOCATION FOR CONSTRUCTION ON CN

(Hereinafter called "Railroad")
(Revised: Effective January 1, 2017)

NOTE: Flagging and/or Cable Locate fees may apply

A utility or contractor shall not commence, or carry on, any work for installation, maintenance, repair, changing or renewal of any FACILITY, under, over or on RAILROAD property at any location without giving notice to the RAILROAD authorized representative at the RAILROAD's office located at Flat Rock, Michigan, Phone (734) 783-4533; and if, in the opinion of the RAILROAD the presence of an authorized representative of the RAILROAD is required to supervise the same, the RAILROAD shall render bills to the utility or contractor for all expenses incurred by it for such supervision. This includes all labor costs for flagmen or cable locate supplied by the RAILROAD to protect RAILROAD operation, and for the full cost of furnishing, installation and later removal of any temporary supports for said tracks, as the RAILROAD's Chief Engineer's Office may deem necessary.

A flagman is required any time any work is performed (i) under or across any Railroad track, regardless of whether said work involves a physical presence on the surface of the Railroad property; (ii) on the surface of the Railroad property within twenty-five (25) feet horizontally of the centerline of any railroad track; or (iii) on, near, or over Railroad property if the work may potentially encroach (intentionally or unintentionally) within twenty-five (25) feet from the centerline of any railroad track. Causes of potential encroachment include but are not limited to equipment that has the potential to swing, pivot, extend or mechanically fail. Potential encroachment must also account for a distance of one-half the length of the largest load that any equipment may lift. Additionally, Railroad reserves the right to require a flagman for work on Railroad property not meeting the above criteria when there are other conditions or considerations that would indicate the need for a flagman to safeguard Railroad's operations, property and safety of any person.

A cable locate of RAILROAD owned facilities may be required to identify and protect Signal & Communication cables that have been installed to provide power, signal control, and wayside communications. These cables are vital to a safe and reliable railway operation. The cable locate will be performed by a qualified RAILROAD employee.

Cost for a cable locate is $350.00, which is to be prepaid by check before installation is to begin.

Outside contractors are prohibited from driving on, along, or across any track that does not have a CN installed crossing. They may utilize an existing public crossing. The practice of allowing rubber tired equipment to operate over track with no crossing has been banned.

Exceptions to this rule will require the express approval from CN Engineering.

Prior to any project being started, the RAILROAD requires a "Request for Flagging Services" form to be completed and submitted; including check for prepayment based on the number of days and hours flagman protection will be required.

Request for Flagging Services and Cable Location

Southern Region

Inquiries may be directed to:

Mary Ellen Carmody
US -Audit Officer CN
24002 Vreeland Road
Flat Rock, MI 48134
(734) 783-4533
maryellen.carmody@cn.ca

Date submitted: _____

I: _____ **with:** _____, am requesting that flagging
(Name) (Company Name)

protection be provided for _____. **Is this a continuation of an existing project? Yes** ☐ **No** ☐
(Project Name)

All blanks below <u>must</u> be <u>completely</u> filled in before any flagman request will be honored.

Project Location: _____

RR milepost_____ Street/Intersection: _____

Right of Entry/License/Permit No..: _____ Dated: _____ Railroad: _____

***** You must have an agreement with CN railroad subsidiary, such as a Right of Entry, Permit or Formal Agreement and proof of insurance. You must have flagman protection before you can enter the property.***

Contractor's Contact Person: _____ Phone: _____

Anticipated # of Days Protection is needed: _____ Specific **Dates Flagging needed:** _____, _____,

_____,_____,_____,_____,_____,_____,_____,_____

Project Starting time: _____Anticipated Ending Time: _____ Anticipated # Hours per Day: _____ hrs.*

*Flagmen start and end time may vary based on type of protection required.

Location for flagman to report: _____

Description of work to be performed_____

_____ Railroad Cable Locate Required? **Yes** ☐ **No** ☐

A prepayment check MUST be received at the address shown at the top of this page and CN required online training must be completed before flagman protection will be scheduled. The amount of prepayment is based on the number of days and hours the flagman protection is required. The base rate per day for flagman protection is $1,300.00 for 10 hours; <u>this includes 2 overtime hours to set flags.</u> Additional overtime hours will be billed at the rate of $150.00 per hour. Weekend and Holidays should be prepaid at the overtime rate of $150.00 per hour or $1,500.00 for 10 hours. Any Prepayment for overtime hours not used will be refunded. Cost for cable locate is $350.00, and must be prepaid as well before installation begins. Separate checks should be sent for cable locate and flagging protection. Checks should be made payable to the railroad subsidiary listed on your Right of Entry, Permit or Formal Agreement.
A Prepayment check and Proof of Insurance MUST accompany this form and be received prior to the beginning of this project. Flagman will be provided at your cost, depending on availability, within five (5) business days.
If the project runs longer than originally anticipated, MaryEllen Carmody must be contacted by email and an additional check must be submitted before work can resume. Rates are Effective January 1st, 2017.

****ALL blanks must be completely filled****

Billing Information:

Company Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Company Phone: _____ Company Fax: _____ E-Mail: _____
(REQUIRED)

I agree to pay for flagging services as requested: _____
(SIGN AND PRINT NAME)

Attach a map and location information and mail this form with prepayment and proof of insurance to Mary Ellen Carmody at the above address.

BORE NO. 3

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

JLL

Utility Permit Process Instructions

How to apply:

In an effort to effectively facilitate the permit process, The Kansas City Southern Railway Company ("KCS") has partnered with JLL who is committed to provide professional permitting services. This form is intended to provide you with all the information you should need to apply for a permit with KCS through JLL.

Complete the application, print and mail with the following:

- $2,000 (if parallel installation call Sylvia Schmidt) non-refundable processing fee, payable to JLL. KCS requires the processing fee be sent with the application or it will be returned. The processing fee covers a standard application review. If an additional review is needed to analyze any out-of-the-ordinary conditions such as structural, electrical, railroad signal wiring/equipment, geotechnical, environmental, etc., additional processing fees may be warranted and charged. KCS will notify the applicant in advance of such additional review prior to assessing any additional processing fees.

- This processing fee does not include any fees for rents, insurance, construction observation, flagging or mobilization. Payment of all additional fees is due prior to construction.

- Drawing of the area to be occupied pursuant to Section G of the Specific Requirements.

- Aerial of the area to be occupied showing at least one (1) adjacent crossing (aerial image must match what it says about the nearest crossing on the application).

TO: Sylvia Schmidt
Senior Permit Manager
JLL - Rail Practice Group
4300 Amon Carter Blvd., Suite 100
Fort Worth, TX 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

Permit Process & Time:

1. Before review can begin on this application, if there are any discrepancies in the application or plans, your application will be returned to you to correct, which will hold up and delay processing your application. **Specifications identified in your plans must match the application.**

2. Once received by JLL, application and drawing will be forwarded to the engineering firm to perform the engineering specification review, **prepare the Exhibit "A" drawing for the** agreement, and obtain KCS approval. Please ensure all information provided is accurate as it will be used to prepare the exhibit. This process takes approximately 6 weeks. An additional processing fee up to $1,200 may be charged for each modification to the exhibit. However, the additional fee could exceed $1,200 in circumstances where the change requires additional engineering or signaling investigation beyond those considered standard.

3. When the exhibit is completed, provided KCS approves the application, an agreement will be prepared and emailed to applicant for original signature. If application is not approved, applicant will be notified in writing with reasons for disapproval.

4. Once agreement is received by applicant, applicant will forward two (2) copies with original signatures, along with the appropriate agreement payment, and insurance documents to JLL.

5. Pursuant to Section 13 of the application, applicant **must** contact the engineering firm, Bartlett & West, a minimum of 10 days in advance notice of construction and sign their contract for construction observation, flagging and mobilization. The agreement **will not** be executed by KCS or forwarded to applicant until evidence has been

provided that applicant has contracted with the engineering firm for construction observation, flagging and mobilization.

6. Final agreements with original signatures are presented to KCS for execution, provided fees have been received, construction observation, flagging and mobilization have been contracted for, and insurance is compliant.

7. Once the agreement is executed, a copy will be emailed and one (1) original will be returned for applicant files.

8. The average time period for completion of this process is 6 to 8 weeks from the time application is received. Every effort will be made to complete this process in a timely manner.

9. Installation of utility will **not** begin until all documents (signed agreement, insurance and fees) have been received and agreement has been fully executed by KCS. If the installation has not occurred within 150 days from the date an agreement is sent to applicant for signature, a second review and processing fee of $2,000 will required to confirm track or other conditions have not changed.

Insurance Requirements:

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as a Certificate Holder for the following:

- Comprehensive General Liability & Contractual Liability Insurance. $2,000,000 per occurrence and an aggregate of $4,000,000 minimum limits;
- Automobile Liability Insurance. $1,000,000 combined single limit;
- Workers Compensation Insurance. Minimum statutory worker's compensation coverage for all covered employees who are on Licensor's property;
- Policy will be endorsed to give 30 day's written notice of its intent to cancel or materially alter to KCS and its Affiliates;
- Commercial General Liability naming KCS and its Affiliates as additional insured;
- Waiver of subrogation in favor of KCS and its Affiliates;
- All policies will be primary to any insurance or self-insurance KCS and its Affiliates may maintain for acts or omissions of Licensee or anyone for whom Licensee is responsible.

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as an Insured for the following:

- Railroad Protective Liability Insurance naming KCS and its Affiliates as insured with $2,000,000 per occurrence and $6,000,000 aggregate. Visit www.railroadprotectivesolutions.com to obtain.

These limits are subject to change at any time without notice. An agreement will be provided to you, which contains details concerning insurance requirements.

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

Application for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

Crossing - $2,000 Processing Fee
Parallel – Call Sylvia Schmidt

Submit with non-refundable payable to:
JLL
Attn.: Sylvia Schmidt
4300 Amon Carter Blvd., Suite 100
Fort Worth, Texas 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

1. Applicant Information:

Legal Name of the Owner of the Utility: City of Hattiesburg

Attn.: Lamar Rutland, P.E.

Mailing Address: P.O. Box 1898 City, State, Zip: Hattiesburg, MS 39403-1898

Phone: (601) 545-4640 Cell: _____

Email to whom agreement is to be sent: lrutland@hattiesburgms.com

Check One: ☐ Individual ☐ Company ☐ Partnership
☐ Corporation ☒ Municipality ☐ Other (Specify) _____

Who to contact in the event of engineering questions: Kyle D. Wallace, P.E.

Phone: (601)544-1821 Cell: (601) 310-7818

Email: kyle@sd-w.com

Proposed Installation Date(s): June 2017

If not constructed within one (1) year, an additional review fee may be charged.

2. Type of Encroachment (Crossing):

Check All That Apply: ☐ Overhead ☒ Underground ☐ Parallel

If Overhead, vertical clearance is _____ (in feet and inches) a **28'** minimum is required from top of rail to bottom of overhead crossing point (maximum sag at 212°).

Existing Poles ☐ Yes ☐ No Distance between poles/Distance from edge of nearest track: _____/_____.

If Underground Crossing, depth of casing/carrier pipe: 10.0 feet below base of rail and 8.9 feet below ground surface or bottom of ditches, whichever is deeper (if (a) casing is used: minimum 10' below base of rail and minimum 6' from natural ground surface or from bottom of ditches; (b) if casing is not used: minimum 10' below base of rail and minimum 10' from natural ground surface or from bottom of ditches).

If Underground Parallel, distance _____ measured at right angle from centerline of tracks to encroachment (parallel and minimum 25' feet away, then minimum 72") ground cover; parallel and greater than 25' away, then minimum ground cover of 60". **If the request is within 50' of KCS right-of-way, utility line shall be at least 10' below the** ground for the entire KCS right-of-way.

If an existing crossing is to be abandoned, see Section D – Abandonment on the Specific Requirements sheet.

3. Location: (provide all the information you can and identify two (2) markers of location information that can independently allow for verification of the wire line location in Section 3 and Section 4).

If crossing, relation to centerline of KCS Tracks at KCS Mile Post 68 + 1,057 feet

If parallel, beginning KCS Mile Post _____ + _____', ending KCS Mile Post + _____'

Railroad Subdivision _____

If spur, distance from point of switch _____ feet

In or near City/Town/Village Hattiesburg, Parish/County Forrest, State MS

Section 23 Township 4N Range 13W

4. Other Distances:

If install is near a KCS bridge or culvert, distance from inside face of back wall on nearest KCS

Bridge: _____ Bridge MP: _____

Distance from centerline of nearest road crossing measured perpendicular to the rail line: _____

DOTD#: _____ (http://safetydata.fra.dot.gov/OfficeofSafety/PublicSite/Crossing/Crossing.aspx)

Street Name: Dixie Pine Road

5. Angle of Crossing:

67 ° - 00 ' - 00 " **(if crossing track, not less than 45 degrees).**

6. Wire Line Commodity:

☐ Telephone ☐ Power Line (Voltage _____) ☐ Other (Specify) _____

☐ Fiber Optic – **If underground, number of Innerducts within casing pipe** _____

If an innerduct will be left spare or empty, clearly identify type of facility that will be installed within each innerduct.

_____

_____

See Section A – General on the Specific Requirements sheet for standards used.

If encroachment is an overhead wire line, proceed to the end of this application and provide signature.

7. Pipeline Commodity:

Commodity to be transmitted in the pipeline: Water

Transmitted by: ☐ Gravity ☒ Force ☐ Liquid

☐ Gas ☐ Steam ☐ Other (Please Specify _____)

Type of Commodity: ☐ Flammable ☒ Non-Flammable ☐ Corrosive ☐ Toxic

☐ Environmental Hazard

If hazardous, toxic or corrosive material, give details: _____

See Section A – General on the Specific Requirements sheet for standards used.

8. Pipe/Wire Information:

	Carrier Pipe	Casing Pipe
Inside Diameter (nominal):	16"	20"
Wall Thickness:	1.778"	0.375"
Material:	HDPE	Steel
Minimum Yield Point of Material:		35 ksi
Type of Joint:	Heat Fusion	Welded
Maximum Operating Pressure in Pipeline:	N/A	N/A

Hydrostatic pressure at which carrier pipe will be tested before using: 150 psi

Will carrier pipe have protective coating? ☐ Yes ☒ No If so, please provide type: _____

Will carrier pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

9. Casing Information:

Length of casing pipe 200 LF (if casing pipe is vented, casing shall extend to right-of-way lines; if **not vented, casing shall be a minimum 25' each side as measured at right angles to centerline of track).**

Will casing pipe have protective coating? ☐ Yes ☒ No

If so, please provide type: _____

Will casing pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

See Section B – Casing and Section E – Signage on the Specific Requirements sheet for additional requirements.

10. Method of Installing Pipe/Wire: Dry Bore and Jack

*Dry Bore and Jack, Conventional Dry Bore or Directional Drill up to 10". Wet boring or open cut trenching across tracks **WILL NOT** be permitted.*

See **Section C – Boring** and **Section F – Shoring** on the Specific Requirements sheet for additional requirements.

11. Venting:

Will casing pipe be vented? ☐ Yes ☒ No Diameter: _____ (minimum 2")

Number of Vents: _____ Vent Height above ground surface: _____ (minimum 4')

Pipes carrying flammable contents must be vented. Vents are to be located at ends of casing off of KCS property and to be shown on drawing.

12. Additional Fees:

All excavations and installations on KCS's right-of-way will require construction observation, documentation and flagging by KCS or its authorized representative. Applicant or its contractor must contact Bartlett & West; KCS's authorized representative, a minimum of 10 days in advance of the scheduled construction date. Applicant will contract directly with Bartlett & West for the above services. The contact at Bartlett & West is Tom Faulkner at (817) 840-1562 or 785-215-2011, or by email at thomas.faulkner@bartwest.com. All costs associated with construction observation and flagging are the sole responsibility of the applicant. The daily services fees are $2,500 per day, which include flagging and construction observation services. In addition to the daily fee, a fee of $2,000 per mobilization fee will be charged for each job. Prices are subject to change and can double for 24-hour construction projects. No agreement for crossing or encroachment will be executed by KCS until applicant has contracted with Bartlett & West for the construction observation and flagging.

Each encroachment will also be subject to an annual or one-time fee, dependent on the type of installation and length of encroachment. If you will need to know these amounts before application, contact Sylvia Schmidt at sylvia.schmidt@am.jll.com or 817-230-2688.

Extreme caution is to be used in excavation due to the possible existence of other underground facilities along KCS's right-of-way. Any damage to existing facilities will be the sole responsibility of the applicant. In compliance with State law, prior to commencing work, the contractor shall notify appropriate **State "One Call" service.**

13. Existing Agreement? ☐ Yes ☒ No

If replacing or repairing an existing line, a copy of the current permit agreement with KCS ***must*** *be provided and accompany this application.*

14. Was this service requested by KCS? ☐ Yes ☒ No

If yes, who requested? _____ Phone #: _____

Is this installation in conjunction with a track or track expansion project? ☐ Yes ☒ No

If yes, KCS contact name and phone number: _____ Phone#: _____

By signing below, **applicant agrees to pay all fees associated with the installation of this utility.**

_____	_____	_____
Name of Applicant	Signature of Applicant	Date

If application is not signed and dated by applicant, application will be returned.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

A. General

Pipelines will be reviewed for compliance with The American Railway Engineering and Maintenance of Way Association (AREMA) standards. AREMA standards are available for purchase online at www.arema.org and specific parts may be purchased. The following Parts are utilized for underground installations:

5.1 Specifications for Pipelines Conveying Flammable Substances
5.2 Specifications for Uncased Pipelines within the Railway Right-of-Way
5.3 Specifications for Pipelines Conveying Non-Flammable Substances
5.4 Specifications for Overhead Pipelines Crossings
5.5 Specifications for Fiber optic "Route" Construction on Railroad Right-of-Way

Wire lines will be reviewed for compliance with the 2002 National Electric Safety Code Article 232, Table 232.1.

B. Casing

It is preferred that all pipelines have steel carriers and are encased in steel pipes. Uncased carrier pipe transporting or **conveying natural gas must be steel and must be at a minimum depth of 10' from base of rail to top of carrier pipe, and** a minimum of 10' **between top of** carrier pipe and natural ground or ditch bottom on KCS right-of-way. PVC, HDPE, and ductile iron carrier pipes must be encased in steel casing pipes extending from right-of-way line to right-of-way line.

Inside diameter of casing pipe shall be at least 2" greater than the largest outside diameter of the carrier pipe, joints, or couplings, for carrier pipes less than **6"** in diameter; and at least **4"** greater for carrier pipe **6"** and over in diameter.

Additionally, KCS requires that all pipelines carrying liquid flammables must be encased across the entire width of the KCS right-of-way.

C. Boring

Bore pits **must** be placed outside of the KCS right-of-way. If there are extenuating circumstances which require a bore pit to be placed within the limits of the right-of-way, specific application must be made outlining the need for encroachment upon the KCS right-of-way and written permission must be obtained before construction is allowed.

Misaligned bores will not be pulled and re-drilled, but abandoned in place. Please see Section D – Abandonment for requirements. New bore will be moved at least **5'** to either side of the misaligned attempt and re-drilled.

No wet bores or open cut trenching across tracks will be allowed. Directional boring must utilize a machine which retrieves a majority (95%) of the drilling fluid slurry used in the placement of lines/casings. Under paragraph 5.5.3.4.8 **of AREMA Standards, the maximum size of the finished hole is 10" for fiber optic installation. AREMA specifically** states in paragraph 5.5.3.4.6 that wet bores are not allowed for installations in KCS' **right**-of-way. Wet bores refers to the use of liquids to displace soil.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks - Continued

D. Abandonment

Any lines being abandoned must be filled with a suitable flow able fill material and sealed.

When carrier pipe is centered in casing, provide end seals as manufactured by Link-Seal, Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

When carrier pipe is not centered in casing, provide end seals as manufactured by Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

E. Signage

All underground installations will be marked at entry and exit to KCS right-of-way with a sign mounted on a substantial post at least **4'** above ground surface. Parallel encroachments will be marked with a sign every 500' and at every road crossing with a sign mounted on a substantial post at least **4'** above ground surface. The sign must convey the commodity conveyed, name of licensee, address of licensee, emergency phone number and any emergency response information.

F. Shoring

All underground installations will be subject to an additional shoring review. All bore pits will be subject to OSHA requirements and may also be subject to AREMA standards (Part 28 – Temporary Structures for Construction). Using the print titl**ed "General Shoring Requirements"** Date: 4/21/06, Rev.: 4/27/07; a determination will be made on the need for a shoring review. If this additional review is required, please add 2 weeks to the estimated time to process your application. Additional documentation including shoring calculations and design details signed and sealed by a structural engineer, will need to be submitted to KCS Engineering department for review. The engineering review cost will need to be paid in advance at the rate of $3,000 per installation. This amount is **in addition** to the standard $2,000 processing fee.

G. Application Submittal

Applicant to furnish copy of fully completed application and print showing drawing with crossing measured from the nearest Mile Post, Bridge back wall, point of mainline switch or DOT-AAR numbered vehicular crossing, as well as limits of KCS (and street or highway, if involved) right-of-way; plus print of profile sketch (cross section) of actual situation showing relationship of tracks, contours of ground and surface ditches, the encroaching line, other buried or wire lines (if known), etc. This is to be used to prepare exhibit for agreement. **Print must show north.**

H. Schedule

The standard review takes approximately 6 weeks. These are estimated times for review and are not guaranteed. When application has been processed and agreement executed, allow a minimum of 10 days for scheduling of applicable flagging and construction observation services.

Dry Bore & Jack and Directional Drilling Specifications

1. Prior to drilling, the contractor is to provide the following information to KCS or the designated KCS representative for review and approval before any construction activities commence:

   - Type of drilling fluid and additives to be used (straight water is not acceptable);
   - Anticipated drilling fluid volume used for initial bore and pull back of casing pipe;
   - Anticipated drilling fluid pressure;
   - Anticipated drilling rate;
   - Anticipated drilling fluid volume recovery (minimum 95%).

2. Fluid volume, fluid pressure, and pumping rate are to be monitored by the drilling contractor (calibrated fluid tanks are to be used) and are to be provided to the KCS.

3. The bore is to be of constant grade (under the KCS right-of-way). No sag in pipe grade is allowed.

4. The back reamer is to have a maximum diameter of l0". Maximum casing pipe diameter is 8".

5. The contractor is to track the drill head during drilling and record depth of cover below existing surface and provide this information to the KCS.

6. If the casing becomes stuck, the end is to be cut off, the casing filled with flow able fill, and abandoned. An exhibit indicating the horizontal and vertical location of the abandoned casing must be provided to KCS. Casing pipe is only to be pulled into place with the drilling equipment. The use of a dozer, backhoe, etc. to pull casing pipe into place is not permitted.

7. If the fluid volume significantly exceeds the expected volume, or if the fluid pressure drops significantly, drilling is to stop, and the bore is to be filled with bentonite slurry and abandoned.

8. Casing ends must be sealed, with the contractor informing KCS of the type of seal they propose to use.

9. Identifying marker signs indicating the presence of the new utility must be posted within 24 hours of casing and carrier pipe material installation and backfilling of any pits and dressing of KCS right-of-way. The drilling contractor will be assessed a fee of $1,500/day until the signs are placed. The inspector will stay on site and a fee of $1,500 per day will be assessed until the signs are in place.

10. An exhibit indicating the plan view, skew, and vertical elevations of the casing must be submitted to KCS upon completion of the project.

11. Initial bore pit and receiving pit are to be located off of KCS right-of-way. If it is necessary for the pit(s) to be on KCS right-of-way, shoring plans for railroad loading must be provided to KCS for review and approval prior to the beginning of work.

TRACK PROTECTION SHORING:

ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO ℄ OF TRACK.

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE RAILROAD ENGINEER, DETAILED PLANS INDICATING THE NATURE AND EXTENT OF THE TRACK PROTECTION SHORING PROPOSED. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRACK PROTECTION SHORING BEFORE COMMENCING EXCAVATION.

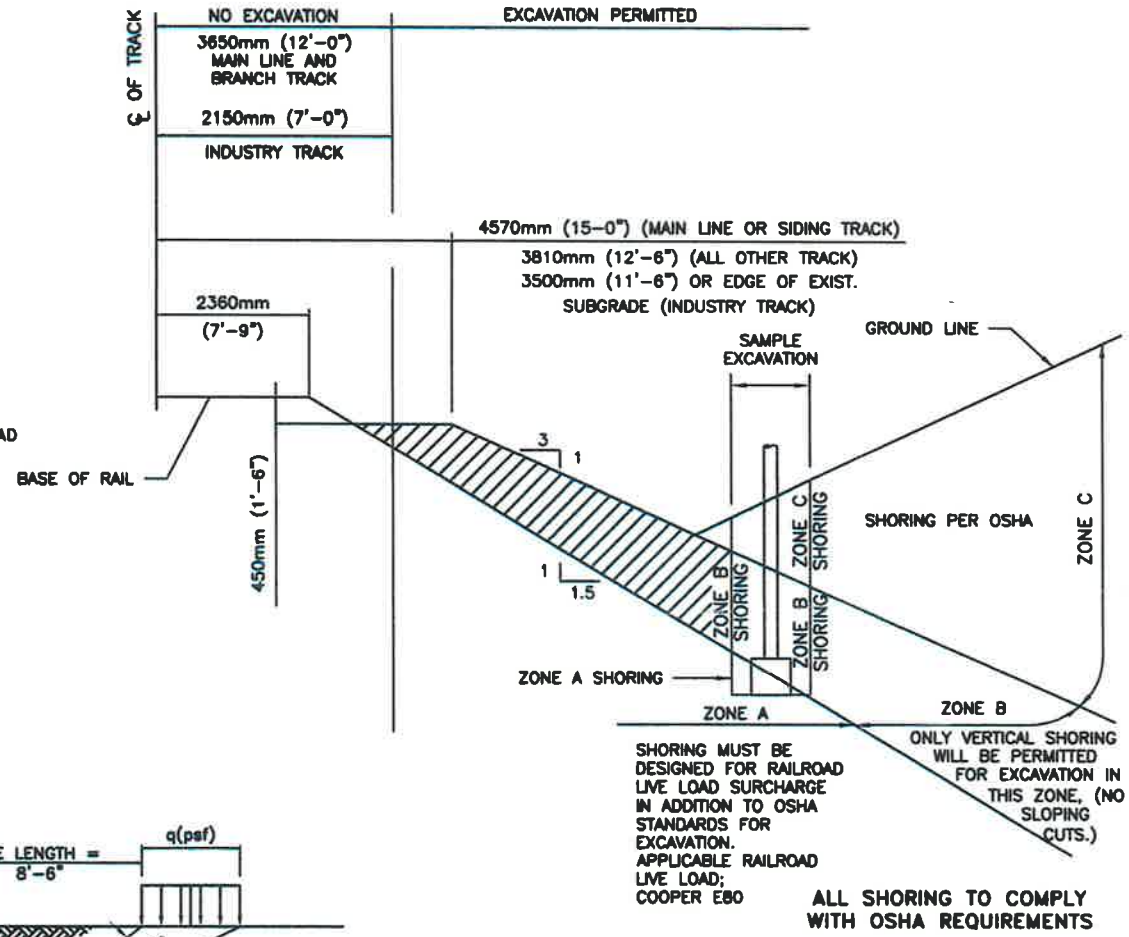
SHORING WITHIN ZONE A SHALL BE DESIGNED FOR COOPER E80 LIVE LOAD SURCHARGE, IN ADDITION TO ALL OTHER APPLICABLE LOADS. THE RAILROAD MAY IMPOSE MORE STRINGENT REQUIREMENTS AS CONDITIONS WARRANT.

FOR EXCAVATIONS WHICH ENCROACH INTO RAILROAD LIVE LOAD SURCHARGE ZONE A, SHORING PLANS WILL BE ACCOMPANIED BY A COPY OF DESIGN CALCULATIONS, AND BOTH MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE APPLICABLE STATE.

THE PRESSURE AT A GIVEN POINT OF A CONTINUOUS STRIP OF SURCHARGE LOAD q(psf) PARALLEL TO SHORING SHALL BE COMPUTED BY:

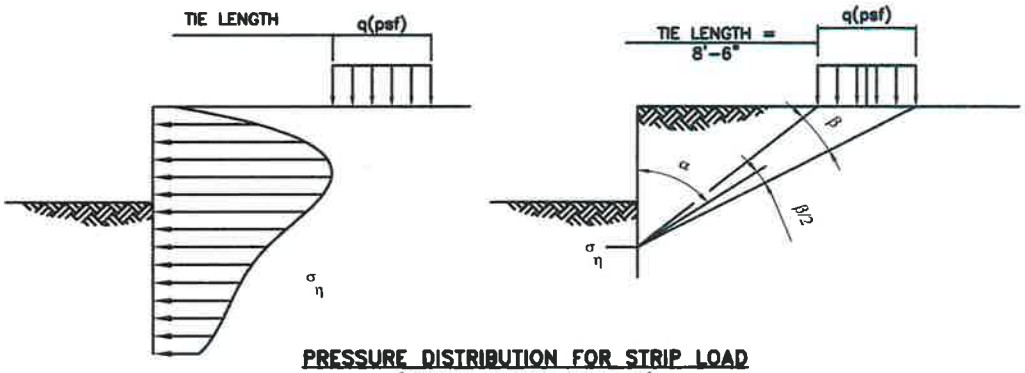
$$\sigma_\eta = \frac{2q}{\pi}\left[\beta - \sin\beta\cos 2\alpha\right]$$

WHERE ANGLES α AND β ARE EXPRESSED IN RADIANS.



ALL SHORING TO COMPLY WITH OSHA REQUIREMENTS

$$q = \frac{80{,}000 \text{ lbs}}{(5 \text{ FEET})(8.5 \text{ FEET})}$$



PRESSURE DISTRIBUTION FOR STRIP LOAD
(AREMA FIGURE 8.20-2)

K.C.S. STANDARDS	DATE: 4-21-06 REV: 4-27-07 SCALE: NONE DRAWN BY: RED	APPROVED BY: CHIEF ENGINEER	GENERAL SHORING REQUIREMENTS

DRAWING NO.
BR-122

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

GENERAL NOTES:

1. RAILROAD REPRESENTATIVE AND FLAGMAN SHALL BE PRESENT DURING ALL CONSTRUCTION CROSSING THE RAILROAD.
2. EXCAVATION SHALL NOT BE PERMITTED INSIDE RAILROAD RIGHT-OF-WAY.
3. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE RAILROADS PIPELINE OCCUPANCY SPECIFICATIONS.
4. PIPELINE AND CROSSING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
5. BLASTING NOT PERMITTED.
6. WHERE THE WATER MAIN IS WITHIN 10 FEET OF A SEWER MAIN HORIZONTALLY, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS OTHERWISE NOTED.
7. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.

KANSAS CITY SOUTHERN RAILROAD
GENERAL NOTES

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

LINETYPE & SYMBOLS LEGEND:

- CENTER LINE
- RAILROAD
- APPARENT KANSAS CITY SOUTHERN RAILROAD ROW
- FENCE (EXIST)
- •FID – FIBER OPTIC INDICATOR POST (EXIST)
- FOB – FIBER OPTIC PULL BOX (EXIST)
- FIRE HYDRANT (EXIST)
- •GID – GAS INDICATOR POST (EXIST)
- G – GAS LINE (EXIST)
- GM – GAS METER (EXIST)
- GV – GAS VALVE (EXIST)
- •GT – GATE POST (EXIST)
- LP – LIGHT ON POLE (EXIST)
- P – OVERHEAD UTILITY LINES (EXIST)
- T – OVERHEAD UTILITY LINES (EXIST)
- POLE GUY WIRE (EXIST)
- PL – PROPERTY LINE (EXIST)
- FM – SAN SWR FORCE MAIN (EXIST)
- SS – SAN SWR LINE (EXIST)
- PS – SAN SWR PUMP STATION (EXIST)
- SIGN – SIGN (EXIST)
- SIGNAL – SIGNAL (EXIST)
- TREE LINE (EXIST)
- DITCH (EXIST)
- FO – UNDERGROUND FIBER OPTIC LINE (EXIST)
- PP – UTILITY POLE (EXIST)
- W – WATER LINE (EXIST)
- WM – WATER METER (EXIST)
- WV – WATER VALVE (EXIST)
- WV – WATER VALVE (REQ'D)
- REDUCING FITTING (REQ'D)
- FIRE HYDRANT (REQ'D)
- W – WATER LINE (REQ'D)

ABBREVIATIONS LEGEND:

APPURT	– APPURTENANCES
BLDG	– BUILDING
BTM	– BOTTOM
℄	– CENTERLINE
CONC	– CONCRETE
CMP	– CORRUGATED METAL PIPE
CPP	– CORRUGATED PLASTIC PIPE
DI	– DUCTILE IRON PIPE
DR	– DIAMETER RATIO
EOP	– EDGE OF PAVEMENT
EXIST	– EXISTING
HDPE	– HIGH DENSITY POLYETHYLENE
KCS	– KANSAS CITY SOUTHERN
LF	– LINEAR FEET
ℙ	– PROPERTY LINE
RCP	– REINFORCED CONCRETE PIPE
REQ'D	– REQUIRED
ROW	– RIGHT OF WAY
RR	– RAILROAD
SAN	– SANITARY
SEW	– SEWER
W/	– WITH
WT	– WALL THICKNESS
XING	– CROSSING

KANSAS CITY SOUTHERN RAILROAD
ABBREVIATIONS & LEGEND

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

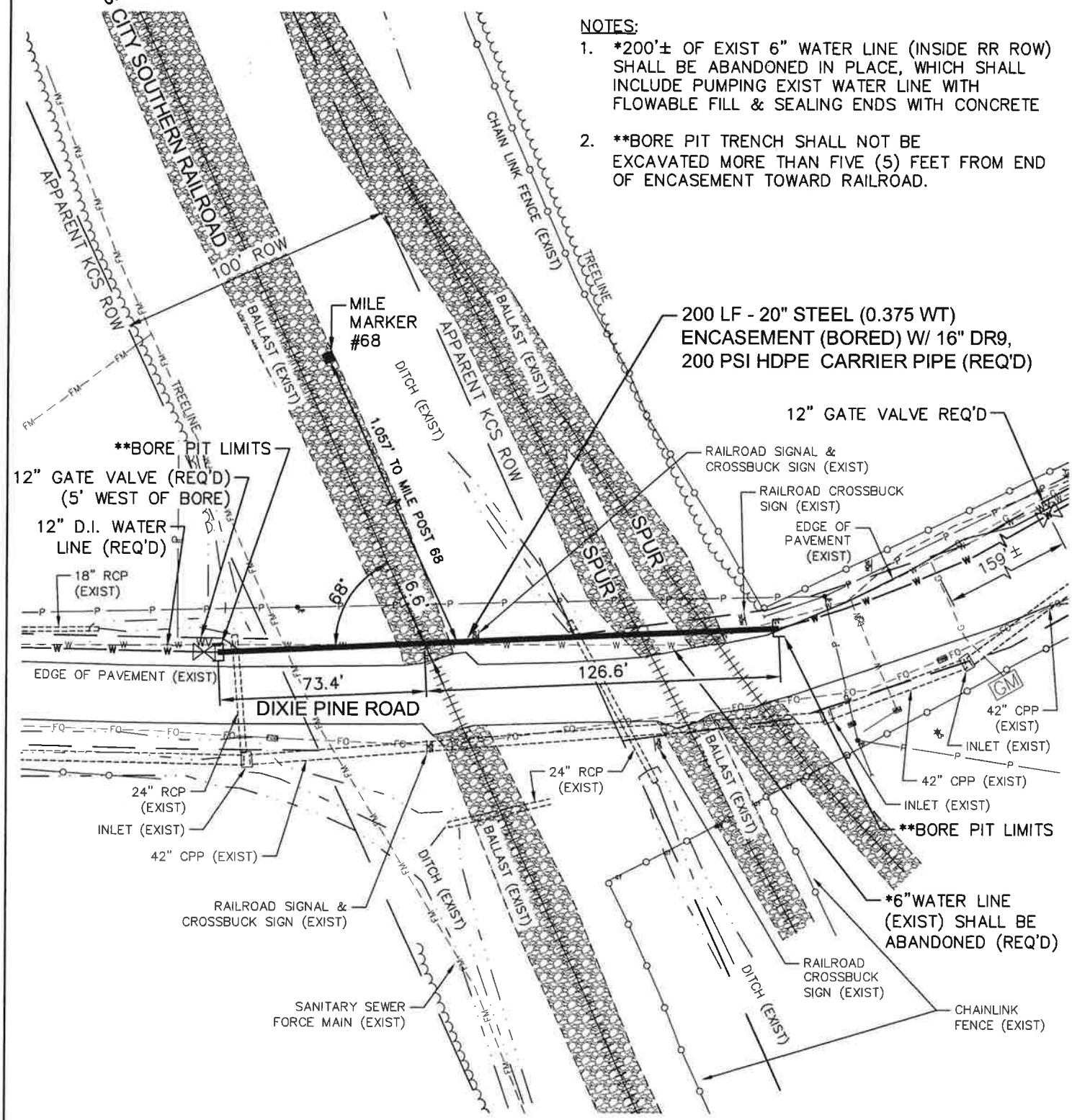
REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE: 1" = 50'

NOTES:

1. *200'± OF EXIST 6" WATER LINE (INSIDE RR ROW) SHALL BE ABANDONED IN PLACE, WHICH SHALL INCLUDE PUMPING EXIST WATER LINE WITH FLOWABLE FILL & SEALING ENDS WITH CONCRETE
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



KANSAS CITY SOUTHERN RAILROAD PIPE BORE: 1,057' SOUTH OF MP #68

RAILROAD PERMIT

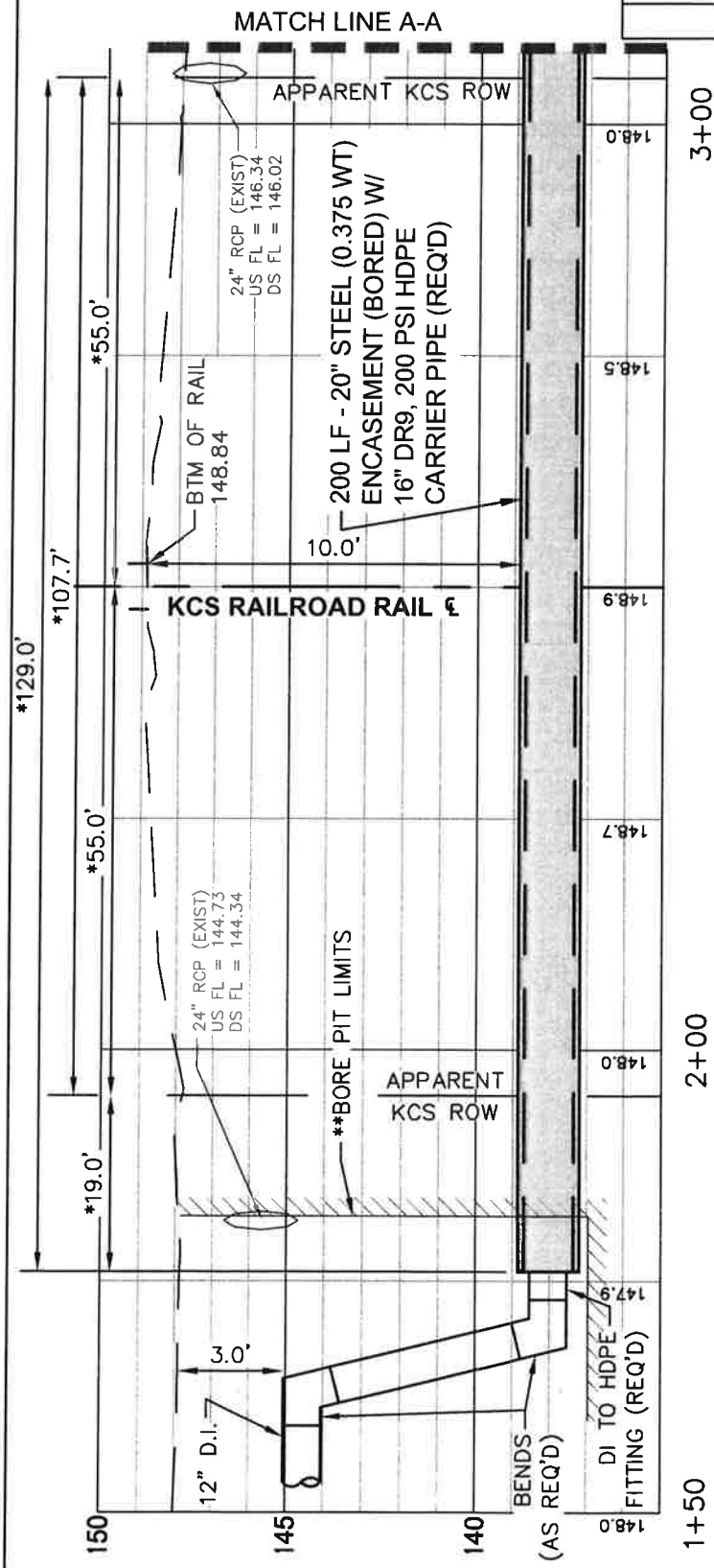
Sheet No.:_____ of_____

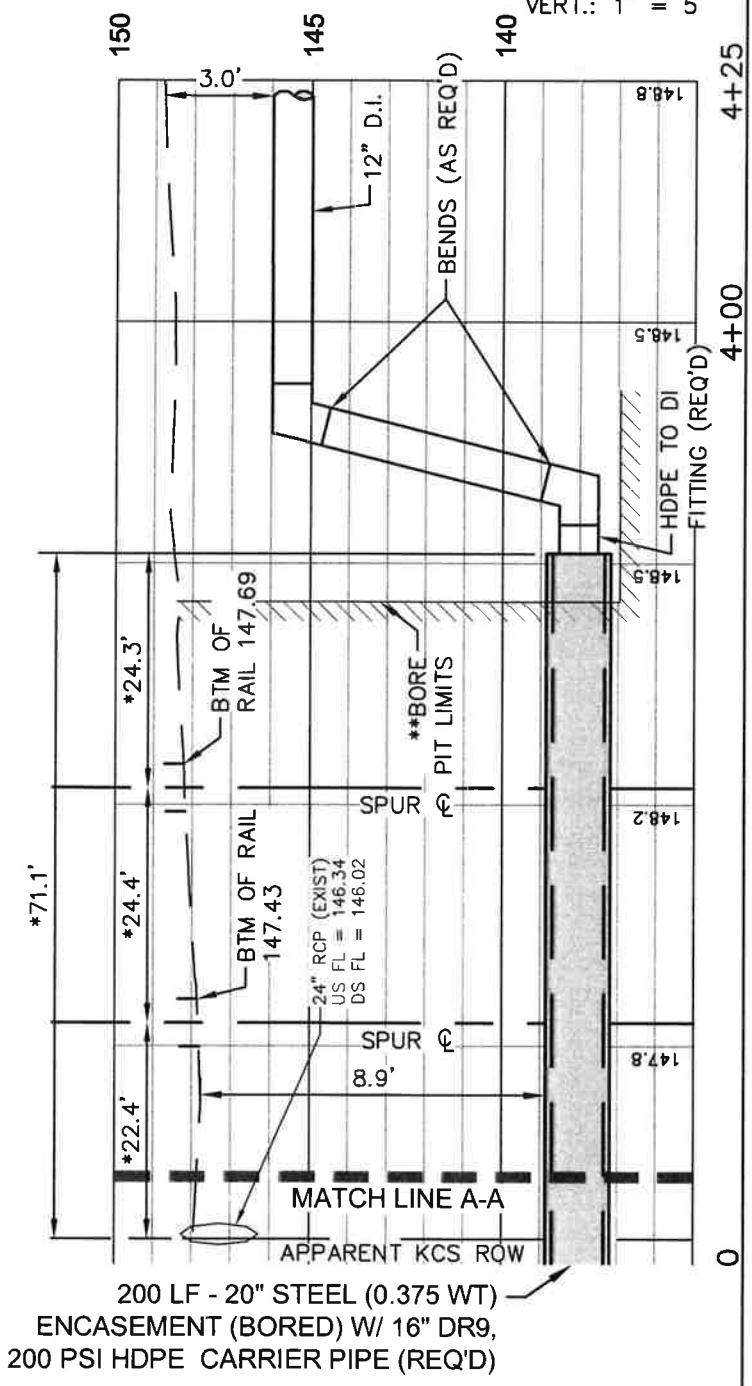
Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 5'





NOTES:

1. *AS MEASURED ALONG SECTION
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.

KANSAS CITY SOUTHERN RAILROAD PIPE BORE: 1,057' SOUTH OF MP #68

BORE No. 4

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

Utility Permit Process Instructions

How to apply:

In an effort to effectively facilitate the permit process, The Kansas City Southern Railway Company ("KCS") has partnered with JLL who is committed to provide professional permitting services. This form is intended to provide you with all the information you should need to apply for a permit with KCS through JLL.

Complete the application, print and mail with the following:

- $2,000 (if parallel installation call Sylvia Schmidt) non-refundable processing fee, payable to JLL. KCS requires the processing fee be sent with the application or it will be returned. The processing fee covers a standard application review. If an additional review is needed to analyze any out-of-the-ordinary conditions such as structural, electrical, railroad signal wiring/equipment, geotechnical, environmental, etc., additional processing fees may be warranted and charged. KCS will notify the applicant in advance of such additional review prior to assessing any additional processing fees.

- This processing fee does not include any fees for rents, insurance, construction observation, flagging or mobilization. Payment of all additional fees is due prior to construction.

- Drawing of the area to be occupied pursuant to Section G of the Specific Requirements.

- Aerial of the area to be occupied showing at least one (1) adjacent crossing (aerial image must match what it says about the nearest crossing on the application).

TO: Sylvia Schmidt
Senior Permit Manager
JLL - Rail Practice Group
4300 Amon Carter Blvd., Suite 100
Fort Worth, TX 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

Permit Process & Time:

1. Before review can begin on this application, if there are any discrepancies in the application or plans, your application will be returned to you to correct, which will hold up and delay processing your application. **Specifications identified in your plans must match the application.**

2. Once received by JLL, application and drawing will be forwarded to the engineering firm to perform the engineering specification review, **prepare the Exhibit "A" drawing for the** agreement, and obtain KCS approval. Please ensure all information provided is accurate as it will be used to prepare the exhibit. This process takes approximately 6 weeks. An additional processing fee up to $1,200 may be charged for each modification to the exhibit. However, the additional fee could exceed $1,200 in circumstances where the change requires additional engineering or signaling investigation beyond those considered standard.

3. When the exhibit is completed, provided KCS approves the application, an agreement will be prepared and emailed to applicant for original signature. If application is not approved, applicant will be notified in writing with reasons for disapproval.

4. Once agreement is received by applicant, applicant will forward two (2) copies with original signatures, along with the appropriate agreement payment, and insurance documents to JLL.

5. Pursuant to Section 13 of the application, applicant **must** contact the engineering firm, Bartlett & West, a minimum of 10 days in advance notice of construction and sign their contract for construction observation, flagging and mobilization. The agreement **will not** be executed by KCS or forwarded to applicant until evidence has been

provided that applicant has contracted with the engineering firm for construction observation, flagging and mobilization.

6. Final agreements with original signatures are presented to KCS for execution, provided fees have been received, construction observation, flagging and mobilization have been contracted for, and insurance is compliant.

7. Once the agreement is executed, a copy will be emailed and one (1) original will be returned for applicant files.

8. The average time period for completion of this process is 6 to 8 weeks from the time application is received. Every effort will be made to complete this process in a timely manner.

9. Installation of utility will **not** begin until all documents (signed agreement, insurance and fees) have been received and agreement has been fully executed by KCS. If the installation has not occurred within 150 days from the date an agreement is sent to applicant for signature, a second review and processing fee of $2,000 will required to confirm track or other conditions have not changed.

Insurance Requirements:

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as a Certificate Holder for the following:

- Comprehensive General Liability & Contractual Liability Insurance. $2,000,000 per occurrence and an aggregate of $4,000,000 minimum limits;
- Automobile Liability Insurance. $1,000,000 combined single limit;
- Workers Compensation Insurance. Minimum statutory worker's compensation coverage for all covered employees who are on Licensor's property;
- **Policy will be endorsed to give 30 day's written notice of its intent to** cancel or materially alter to KCS and its Affiliates;
- Commercial General Liability naming KCS and its Affiliates as additional insured;
- Waiver of subrogation in favor of KCS and its Affiliates;
- All policies will be primary to any insurance or self-insurance KCS and its Affiliates may maintain for acts or omissions of Licensee or anyone for whom Licensee is responsible.

Show The Kansas City Southern Railway Company and its Affiliates, 427 W. 12th St., Kansas City, MO 64105-1403 as an Insured for the following:

- Railroad Protective Liability Insurance naming KCS and its Affiliates as insured with $2,000,000 per occurrence and $6,000,000 aggregate. Visit www.railroadprotectivesolutions.com to obtain.

These limits are subject to change at any time without notice. An agreement will be provided to you, which contains details concerning insurance requirements.

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
427 West 12th Street
Kansas City, Missouri 64105-1403

Application for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

Crossing - $2,000 Processing Fee
Parallel – Call Sylvia Schmidt

Submit with non-refundable payable to:
JLL
Attn.: Sylvia Schmidt
4300 Amon Carter Blvd., Suite 100
Fort Worth, Texas 76155
Phone: (817) 230-2688 or Melissa Leal at (817) 230-2614
Email: sylvia.schmidt@am.jll.com or melissa.leal@am.jll.com

1. Applicant Information:

Legal Name of the Owner of the Utility: City of Hattiesburg

Attn.: Lamar Rutland, P.E.

Mailing Address: P.O. Box 1898 City, State, Zip: Hattiesburg, MS 39403-1898

Phone: (601) 545-4640 Cell: _____

Email to whom agreement is to be sent: lrutland@hattiesburgms.com

Check One: ☐ Individual ☐ Company ☐ Partnership

☐ Corporation ☒ Municipality ☐ Other (Specify) _____

Who to contact in the event of engineering questions: Kyle D. Wallace, P.E.

Phone: 9601) 544-1821 Cell: (601) 310-7818

Email: kyle@sd-w.com

Proposed Installation Date(s): June 2017

If not constructed within one (1) year, an additional review fee may be charged.

2. Type of Encroachment (Crossing):

Check All That Apply: ☐ Overhead ☒ Underground ☐ Parallel

If Overhead, vertical clearance is _____ (in feet and inches) a **28'** minimum is required from top of rail to bottom of overhead crossing point (maximum sag at 212°).

Existing Poles ☐ Yes ☐ No Distance between poles/Distance from edge of nearest track: _____/_____.

If Underground Crossing, depth of casing/carrier pipe: 10.0 feet below base of rail and 6.0 feet below ground surface or bottom of ditches, whichever is deeper (if (a) casing is used: minimum **10'** below base of rail and minimum **6'** from natural ground surface or from bottom of ditches; (b) if casing is not used: minimum **10'** below base of rail and minimum 10' from natural ground surface or from bottom of ditches).

If Underground Parallel, distance _____ measured at right angle from centerline of tracks to encroachment (parallel and minimum 25' feet away, then minimum 72") ground cover; parallel and greater than 25' away, then minimum ground cover of 60". **If the request is within 50' of** KCS right-of-way, **utility line shall be at least 10' below the** ground for the entire KCS right-of-way.

If an existing crossing is to be abandoned, see Section D – Abandonment on the Specific Requirements sheet.

3. Location: (provide all the information you can and identify two (2) markers of location information that can independently allow for verification of the wire line location in Section 3 and Section 4).

If crossing, relation to centerline of KCS Tracks at KCS Mile Post 66 + 2,415 feet

If parallel, beginning KCS Mile Post _____ + _____', ending KCS Mile Post + _____'

Railroad Subdivision _____

If spur, distance from point of switch _____ feet

In or near City/Town/Village Hattiesburg, Parish/County Forrest, State MS

Section 26 Township 4N Range 13W

4. Other Distances:

If install is near a KCS bridge or culvert, distance from inside face of back wall on nearest KCS

Bridge: _____ Bridge MP: _____

Distance from centerline of nearest road crossing measured perpendicular to the rail line: _____

DOTD#: _____ (http://safetydata.fra.dot.gov/OfficeofSafety/PublicSite/Crossing/Crossing.aspx)

Street Name: Old Airport Road

5. Angle of Crossing:

90 ° - 00 ' - 00 " **(if crossing track, not less than 45 degrees).**

6. Wire Line Commodity:

☐ Telephone ☐ Power Line (Voltage _____) ☐ Other (Specify) _____

☐ Fiber Optic – **If underground, number of Innerducts within casing pipe** _____

If an innerduct will be left spare or empty, clearly identify type of facility that will be installed within each innerduct.

_____

_____

See Section A – General on the Specific Requirements sheet for standards used.

If encroachment is an overhead wire line, proceed to the end of this application and provide signature.

7. Pipeline Commodity:

Commodity to be transmitted in the pipeline: Water

Transmitted by: ☐ Gravity ☒ Force ☐ Liquid

☐ Gas ☐ Steam ☐ Other (Please Specify _____)

Type of Commodity: ☐ Flammable ☒ Non-Flammable ☐ Corrosive ☐ Toxic

☐ Environmental Hazard

If hazardous, toxic or corrosive material, give details: _____

See Section A – General on the Specific Requirements sheet for standards used.

8. Pipe/Wire Information:

	Carrier Pipe	Casing Pipe
Inside Diameter (nominal):	16"	20"
Wall Thickness:	1.778"	0.375"
Material:	HDPE	Steel
Minimum Yield Point of Material:		35 ksi
Type of Joint:	Heat Fusion	Welded
Maximum Operating Pressure in Pipeline:	N/A	N/A

Hydrostatic pressure at which carrier pipe will be tested before using: 150 psi

Will carrier pipe have protective coating? ☐ Yes ☒ No If so, please provide type: _____

Will carrier pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

9. Casing Information:

Length of casing pipe 120 LF (if casing pipe is vented, casing shall extend to right-of-way lines; if **not vented, casing shall be a minimum 25' each side as measured at right angles to centerline of track).**

Will casing pipe have protective coating? ☐ Yes ☒ No

If so, please provide type: _____

Will casing pipe be cathodically protected? ☐ Yes ☒ No

Cathodic protection must meet standards set by the current Report of Correlating Committee of Cathodic Protection.

See Section B – Casing and Section E – Signage on the Specific Requirements sheet for additional requirements.

10. Method of Installing Pipe/Wire: Dry Bore and Jack

*Dry Bore and Jack, Conventional Dry Bore or Directional Drill up to 10". Wet boring or open cut trenching across tracks **WILL NOT** be permitted.*

See **Section C – Boring** and **Section F – Shoring** on the Specific Requirements sheet for additional requirements.

11. Venting:

Will casing pipe be vented? ☐ Yes ☒ No Diameter: _____ (minimum 2")

Number of Vents: _____ Vent Height above ground surface: _____ (minimum 4')

Pipes carrying flammable contents must be vented. Vents are to be located at ends of casing off of KCS property and to be shown on drawing.

12. Additional Fees:

All excavations and installations on KCS's right-of-way will require construction observation, documentation and flagging by KCS or its authorized representative. Applicant or its contractor must contact Bartlett & West; KCS's authorized representative, a minimum of 10 days in advance of the scheduled construction date. Applicant will contract directly with Bartlett & West for the above services. The contact at Bartlett & West is Tom Faulkner at (817) 840-1562 or 785-215-2011, or by email at thomas.faulkner@bartwest.com. All costs associated with construction observation and flagging are the sole responsibility of the applicant. The daily services fees are $2,500 per day, which include flagging and construction observation services. In addition to the daily fee, a fee of $2,000 per mobilization fee will be charged for each job. Prices are subject to change and can double for 24-hour construction projects. No agreement for crossing or encroachment will be executed by KCS until applicant has contracted with Bartlett & West for the construction observation and flagging.

Each encroachment will also be subject to an annual or one-time fee, dependent on the type of installation and length of encroachment. If you will need to know these amounts before application, contact Sylvia Schmidt at sylvia.schmidt@am.jll.com or 817-230-2688.

Extreme caution is to be used in excavation due to the possible existence of other underground facilities along KCS's right-of-way. Any damage to existing facilities will be the sole responsibility of the applicant. In compliance with State law, prior to commencing work, the contractor shall notify appropriate State "One Call" service.

13. Existing Agreement? ☐ Yes ☒ No

*If replacing or repairing an existing line, a copy of the current permit agreement with KCS **must** be provided and accompany this application.*

14. Was this service requested by KCS? ☐ Yes ☒ No

If yes, who requested? _____ Phone #: _____

Is this installation in conjunction with a track or track expansion project? ☐ Yes ☒ No

If yes, KCS contact name and phone number: _____ Phone#: _____

By signing below, **applicant agrees to pay all fees associated with the installation of this utility.**

_____	_____	_____
Name of Applicant	Signature of Applicant	Date

If application is not signed and dated by applicant, application will be returned.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks

A. General

Pipelines will be reviewed for compliance with The American Railway Engineering and Maintenance of Way Association (AREMA) standards. AREMA standards are available for purchase online at www.arema.org and specific parts may be purchased. The following Parts are utilized for underground installations:

5.1 Specifications for Pipelines Conveying Flammable Substances
5.2 Specifications for Uncased Pipelines within the Railway Right-of-Way
5.3 Specifications for Pipelines Conveying Non-Flammable Substances
5.4 Specifications for Overhead Pipelines Crossings
5.5 Specifications for Fiber optic "Route" Construction on Railroad Right-of-Way

Wire lines will be reviewed for compliance with the 2002 National Electric Safety Code Article 232, Table 232.1.

B. Casing

It is preferred that all pipelines have steel carriers and are encased in steel pipes. Uncased carrier pipe transporting or **conveying natural gas must be steel and must be at a minimum depth of 10' from base of rail to top of carrier pipe, and** a minimum of 10' **between top of** carrier pipe and natural ground or ditch bottom on KCS right-of-way. PVC, HDPE, and ductile iron carrier pipes must be encased in steel casing pipes extending from right-of-way line to right-of-way line.

Inside diameter of casing pipe shall be at least 2" greater than the largest outside diameter of the carrier pipe, joints, or couplings, for carrier pipes less than **6**" in diameter; and at least **4**" greater for carrier pipe **6**" and over in diameter.

Additionally, KCS requires that all pipelines carrying liquid flammables must be encased across the entire width of the KCS right-of-way.

C. Boring

Bore pits **must** be placed outside of the KCS right-of-way. If there are extenuating circumstances which require a bore pit to be placed within the limits of the right-of-way, specific application must be made outlining the need for encroachment upon the KCS right-of-way and written permission must be obtained before construction is allowed.

Misaligned bores will not be pulled and re-drilled, but abandoned in place. Please see Section D – Abandonment for requirements. New bore will be moved at least **5**' to either side of the misaligned attempt and re-drilled.

No wet bores or open cut trenching across tracks will be allowed. Directional boring must utilize a machine which retrieves a majority (95%) of the drilling fluid slurry used in the placement of lines/casings. Under paragraph 5.5.3.4.8 **of AREMA Standards, the maximum size of the finished hole is 10" for fiber optic installation. AREMA specifically** states in paragraph 5.5.3.4.6 that wet bores are not allowed for installations in KCS' **right**-of-way. Wet bores refers to the use of liquids to displace soil.

Specific Requirements for License to Install Pipeline or Wire Line Encroaching Over, Under or Parallel to KCS Tracks - Continued

D. Abandonment

Any lines being abandoned must be filled with a suitable flow able fill material and sealed.

When carrier pipe is centered in casing, provide end seals as manufactured by Link-Seal, Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

When carrier pipe is not centered in casing, provide end seals as manufactured by Pipeline Seal and Insulator, Inc. (PSI), Raychem, or approved equal, as required for the application. Seal material shall be DFO and oil resistant. Provide coated steel or non-metallic casing spacers as manufactured by PSI or approved equal.

E. Signage

All underground installations will be marked at entry and exit to KCS right-of-way with a sign mounted on a substantial post at least **4'** above ground surface. Parallel encroachments will be marked with a sign every **500'** and at every road crossing with a sign mounted on a substantial post at least **4'** above ground surface. The sign must convey the commodity conveyed, name of licensee, address of licensee, emergency phone number and any emergency response information.

F. Shoring

All underground installations will be subject to an additional shoring review. All bore pits will be subject to OSHA requirements and may also be subject to AREMA standards (Part 28 – Temporary Structures for Construction). Using the print titled **"General Shoring Requirements"** Date: 4/21/06, Rev.: 4/27/07; a determination will be made on the need for a shoring review. If this additional review is required, please add 2 weeks to the estimated time to process your application. Additional documentation including shoring calculations and design details signed and sealed by a structural engineer, will need to be submitted to KCS Engineering department for review. The engineering review cost will need to be paid in advance at the rate of $3,000 per installation. This amount is **in addition** to the standard $2,000 processing fee.

G. Application Submittal

Applicant to furnish copy of fully completed application and print showing drawing with crossing measured from the nearest Mile Post, Bridge back wall, point of mainline switch or DOT-AAR numbered vehicular crossing, as well as limits of KCS (and street or highway, if involved) right-of-way; plus print of profile sketch (cross section) of actual situation showing relationship of tracks, contours of ground and surface ditches, the encroaching line, other buried or wire lines (if known), etc. This is to be used to prepare exhibit for agreement. **Print must show north.**

H. Schedule

The standard review takes approximately 6 weeks. These are estimated times for review and are not guaranteed. When application has been processed and agreement executed, allow a minimum of 10 days for scheduling of applicable flagging and construction observation services.

Dry Bore & Jack and Directional Drilling Specifications

1. Prior to drilling, the contractor is to provide the following information to KCS or the designated KCS representative for review and approval before any construction activities commence:

   - Type of drilling fluid and additives to be used (straight water is not acceptable);
   - Anticipated drilling fluid volume used for initial bore and pull back of casing pipe;
   - Anticipated drilling fluid pressure;
   - Anticipated drilling rate;
   - Anticipated drilling fluid volume recovery (minimum 95%).

2. Fluid volume, fluid pressure, and pumping rate are to be monitored by the drilling contractor (calibrated fluid tanks are to be used) and are to be provided to the KCS.

3. The bore is to be of constant grade (under the KCS right-of-way). No sag in pipe grade is allowed.

4. The back reamer is to have a maximum diameter of l0". Maximum casing pipe diameter is 8".

5. The contractor is to track the drill head during drilling and record depth of cover below existing surface and provide this information to the KCS.

6. If the casing becomes stuck, the end is to be cut off, the casing filled with flow able fill, and abandoned. An exhibit indicating the horizontal and vertical location of the abandoned casing must be provided to KCS. Casing pipe is only to be pulled into place with the drilling equipment. The use of a dozer, backhoe, etc. to pull casing pipe into place is not permitted.

7. If the fluid volume significantly exceeds the expected volume, or if the fluid pressure drops significantly, drilling is to stop, and the bore is to be filled with bentonite slurry and abandoned.

8. Casing ends must be sealed, with the contractor informing KCS of the type of seal they propose to use.

9. Identifying marker signs indicating the presence of the new utility must be posted within 24 hours of casing and carrier pipe material installation and backfilling of any pits and dressing of KCS right-of-way. The drilling contractor will be assessed a fee of $1,500/day until the signs are placed. The inspector will stay on site and a fee of $1,500 per day will be assessed until the signs are in place.

10. An exhibit indicating the plan view, skew, and vertical elevations of the casing must be submitted to KCS upon completion of the project.

11. Initial bore pit and receiving pit are to be located off of KCS right-of-way. If it is necessary for the pit(s) to be on KCS right-of-way, shoring plans for railroad loading must be provided to KCS for review and approval prior to the beginning of work.

TRACK PROTECTION SHORING:

ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO ℄ OF TRACK.

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE RAILROAD ENGINEER, DETAILED PLANS INDICATING THE NATURE AND EXTENT OF THE TRACK PROTECTION SHORING PROPOSED. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRACK PROTECTION SHORING BEFORE COMMENCING EXCAVATION.

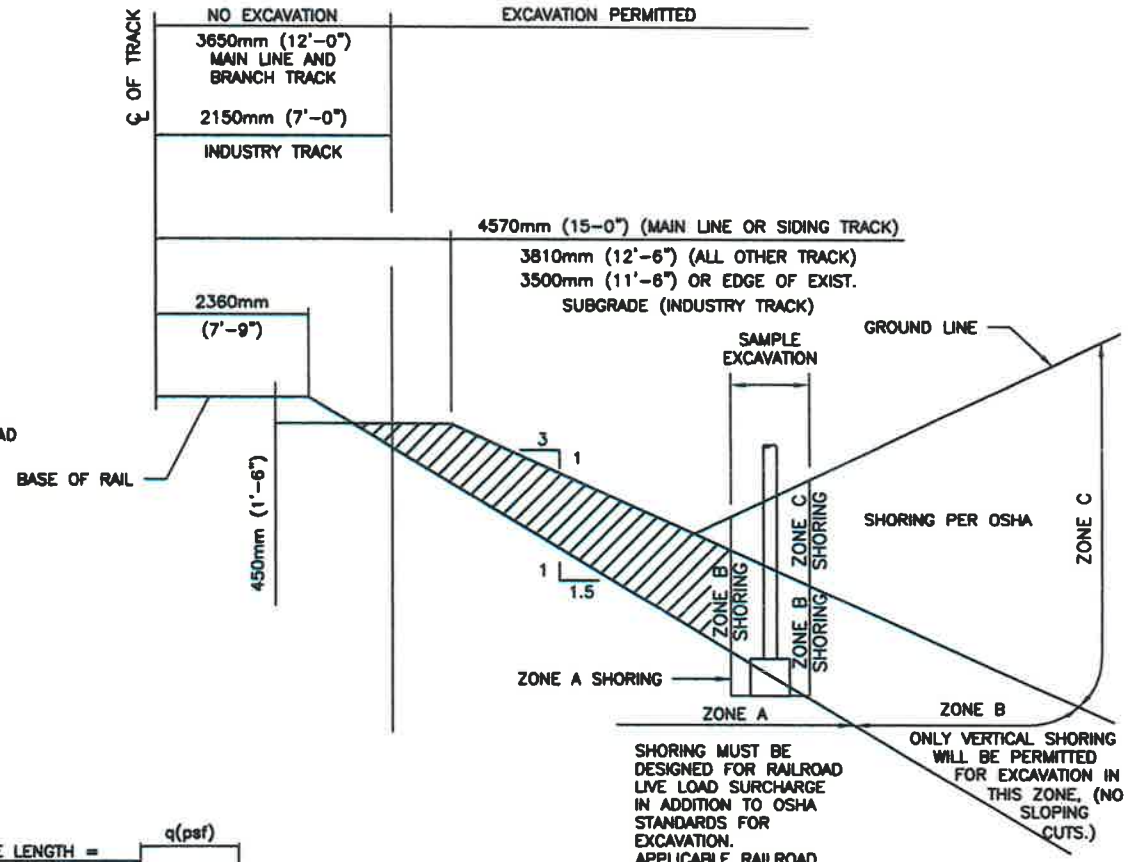
SHORING WITHIN ZONE A SHALL BE DESIGNED FOR COOPER E80 LIVE LOAD SURCHARGE, IN ADDITION TO ALL OTHER APPLICABLE LOADS. THE RAILROAD MAY IMPOSE MORE STRINGENT REQUIREMENTS AS CONDITIONS WARRANT.

FOR EXCAVATIONS WHICH ENCROACH INTO RAILROAD LIVE LOAD SURCHARGE ZONE A, SHORING PLANS WILL BE ACCOMPANIED BY A COPY OF DESIGN CALCULATIONS, AND BOTH MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE APPLICABLE STATE.

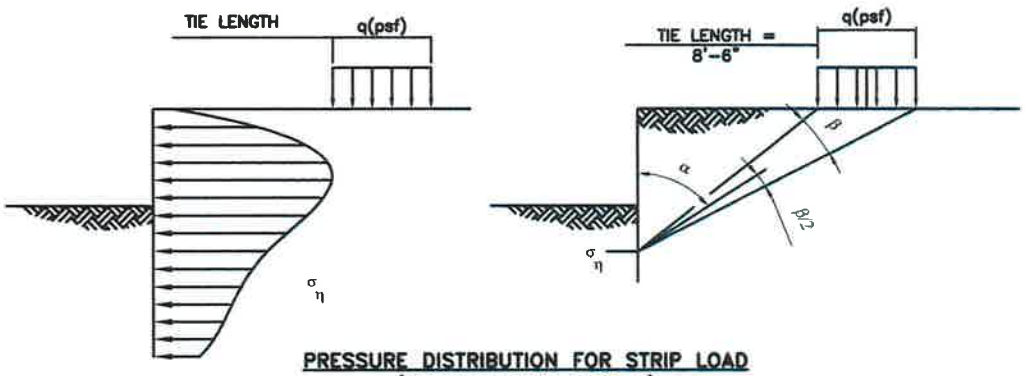
THE PRESSURE AT A GIVEN POINT OF A CONTINUOUS STRIP OF SURCHARGE LOAD q(psf) PARALLEL TO SHORING SHALL BE COMPUTED BY:

$$\sigma_\eta = \frac{2q}{\pi}\left[\beta - \sin\beta \cos 2\alpha\right]$$

WHERE ANGLES α AND β ARE EXPRESSED IN RADIANS.



$$q = \frac{80{,}000 \text{ lbs}}{(5 \text{ FEET})(8.5 \text{ FEET})}$$



PRESSURE DISTRIBUTION FOR STRIP LOAD
(AREMA FIGURE 8.20-2)

K.C.S. STANDARDS	DATE: 4-21-06 REV: 4-27-07 SCALE: NONE DRAWN BY: RED	APPROVED BY: CHIEF ENGINEER	GENERAL SHORING REQUIREMENTS	DRAWING NO. BR-122

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

GENERAL NOTES:

1. RAILROAD REPRESENTATIVE AND FLAGMAN SHALL BE PRESENT DURING ALL CONSTRUCTION CROSSING THE RAILROAD.
2. EXCAVATION SHALL NOT BE PERMITTED INSIDE RAILROAD RIGHT-OF-WAY.
3. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE RAILROADS PIPELINE OCCUPANCY SPECIFICATIONS.
4. PIPELINE AND CROSSING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
5. BLASTING NOT PERMITTED.
6. WHERE THE WATER MAIN IS WITHIN 10 FEET OF A SEWER MAIN HORIZONTALLY, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS OTHERWISE NOTED.
7. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.

KANSAS CITY SOUTHERN RAILROAD
GENERAL NOTES

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

LINETYPE & SYMBOLS LEGEND:

- CENTER LINE
- RAILROAD
- APPARENT KANSAS CITY SOUTHERN RAILROAD ROW
- FENCE (EXIST)
- •FID – FIBER OPTIC INDICATOR POST (EXIST)
- FOB – FIBER OPTIC PULL BOX (EXIST)
- FIRE HYDRANT (EXIST)
- •GID – GAS INDICATOR POST (EXIST)
- G – GAS LINE (EXIST)
- GM – GAS METER (EXIST)
- GV – GAS VALVE (EXIST)
- •GT – GATE POST (EXIST)
- LP – LIGHT ON POLE (EXIST)
- P – OVERHEAD UTILITY LINES (EXIST)
- T – OVERHEAD UTILITY LINES (EXIST)
- POLE GUY WIRE (EXIST)
- PL – PROPERTY LINE (EXIST)
- FM – SAN SWR FORCE MAIN (EXIST)
- SS – SAN SWR LINE (EXIST)
- PS – SAN SWR PUMP STATION (EXIST)
- SIGN – SIGN (EXIST)
- SIGNAL – SIGNAL (EXIST)
- TREE LINE (EXIST)
- DITCH (EXIST)
- FO – UNDERGROUND FIBER OPTIC LINE (EXIST)
- PP – UTILITY POLE (EXIST)
- W – WATER LINE (EXIST)
- WM – WATER METER (EXIST)
- WV – WATER VALVE (EXIST)
- WV – WATER VALVE (REQ'D)
- REDUCING FITTING (REQ'D)
- FIRE HYDRANT (REQ'D)
- W – WATER LINE (REQ'D)

ABBREVIATIONS LEGEND:

APPURT	– APPURTENANCES
BLDG	– BUILDING
BTM	– BOTTOM
℄	– CENTERLINE
CONC	– CONCRETE
CMP	– CORRUGATED METAL PIPE
CPP	– CORRUGATED PLASTIC PIPE
DI	– DUCTILE IRON PIPE
DR	– DIAMETER RATIO
EOP	– EDGE OF PAVEMENT
EXIST	– EXISTING
HDPE	– HIGH DENSITY POLYETHYLENE
KCS	– KANSAS CITY SOUTHERN
LF	– LINEAR FEET
PL	– PROPERTY LINE
RCP	– REINFORCED CONCRETE PIPE
REQ'D	– REQUIRED
ROW	– RIGHT OF WAY
RR	– RAILROAD
SAN	– SANITARY
SEW	– SEWER
W/	– WITH
WT	– WALL THICKNESS
XING	– CROSSING

KANSAS CITY SOUTHERN RAILROAD
ABBREVIATIONS & LEGEND

RAILROAD PERMIT

Sheet No.:_____ of_____

Permit No.:_____

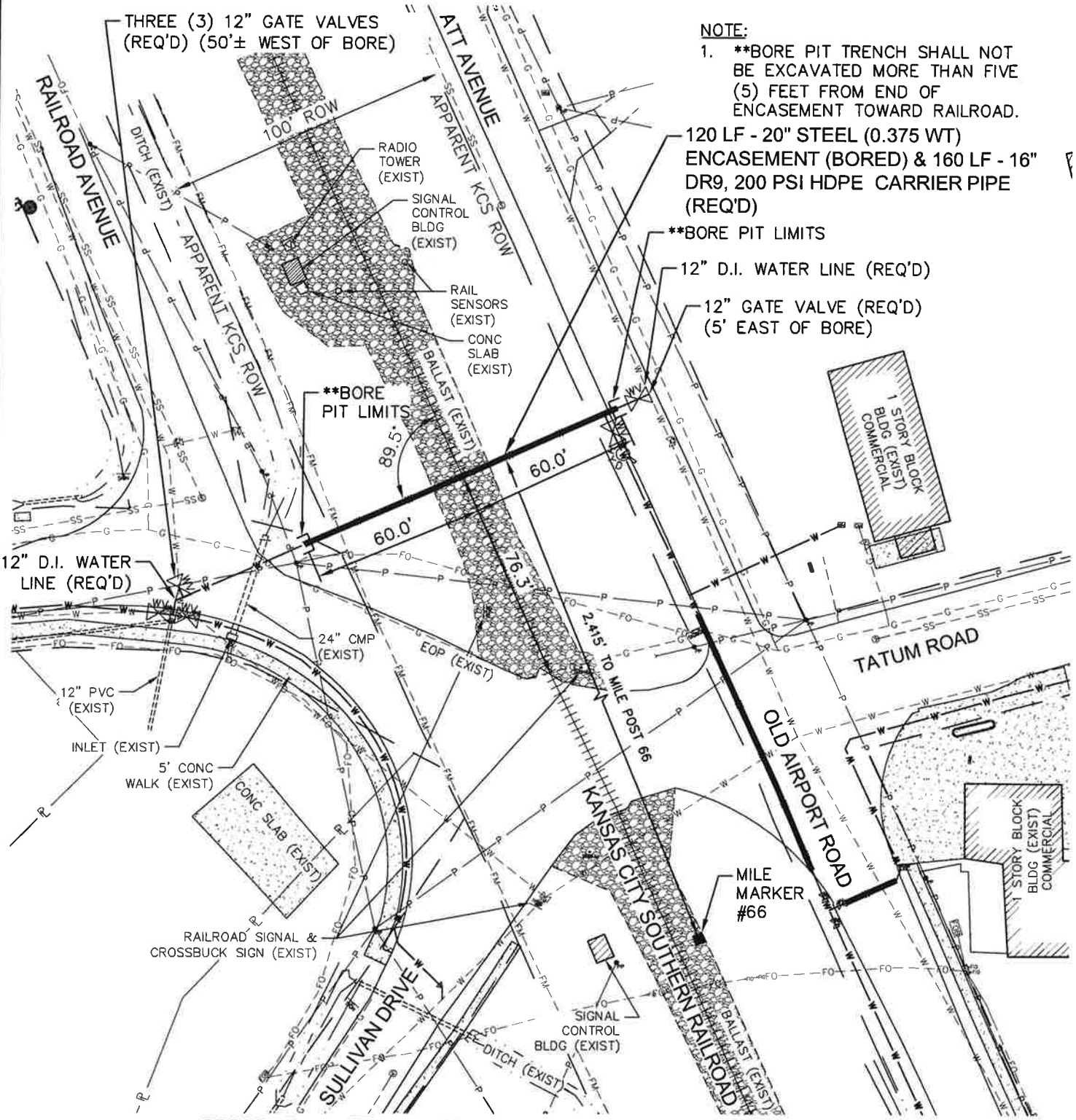
REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

Show North

SCALE: 1" = 50'

NOTE:

1. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



KANSAS CITY SOUTHERN RAILROAD PIPE BORE:
2,415' NORTH OF MP #66

RAILROAD PERMIT

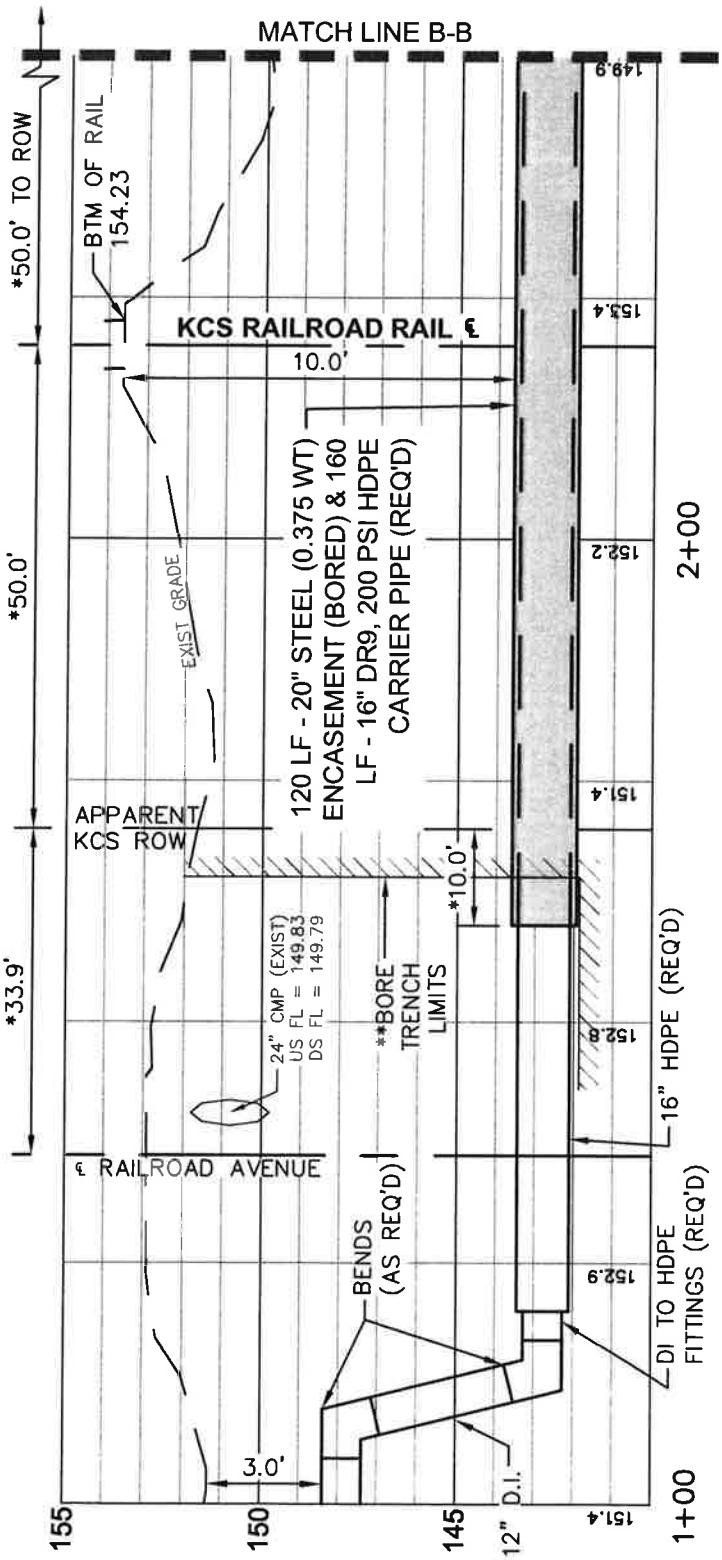
Sheet No.:_____ of_____

Permit No.:_____

REVISIONS			
APPLICANT		MDOT	
DATE	BY	DATE	BY

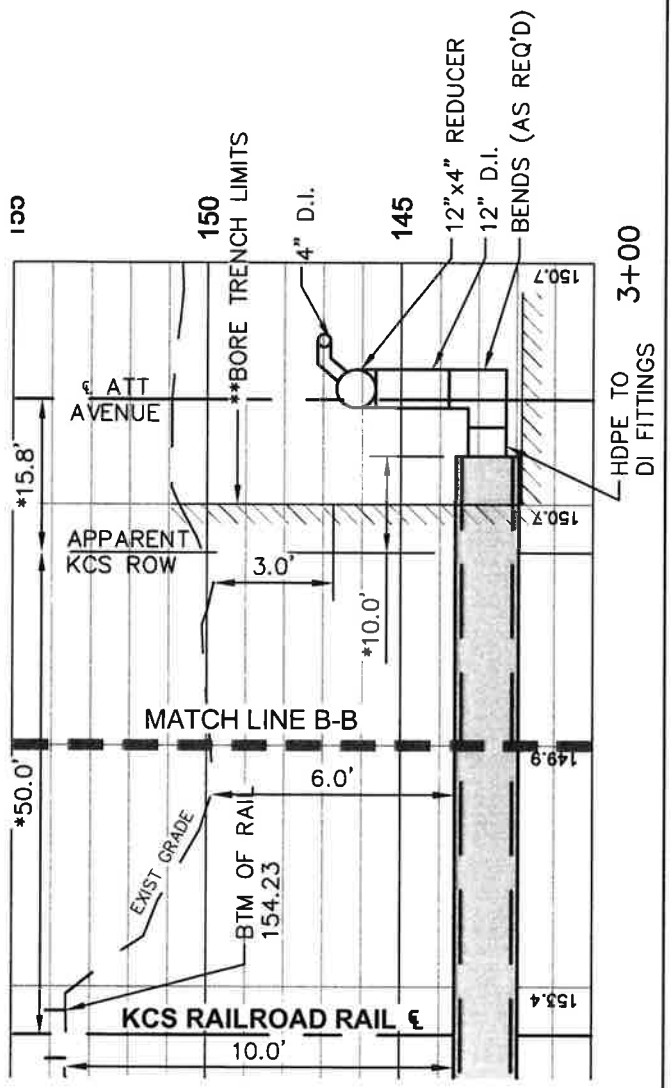
Show North

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 5'



NOTES:

1. *AS MEASURED ALONG SECTION
2. **BORE PIT TRENCH SHALL NOT BE EXCAVATED MORE THAN FIVE (5) FEET FROM END OF ENCASEMENT TOWARD RAILROAD.



KANSAS CITY SOUTHERN RAILROAD PIPE BORE: 2,415' NORTH OF MP #66

MEMORANDUM OF AGREEMENT
BETWEEN
THE UNIVERSITY OF SOUTHERN MISSISSIPPI (SOUTHERN MISS)
AND
CITY OF HATTIESBURG
AGREEMENT NUMBER SOUTHERN MISS-GM000673
AMENDMENT NUMBER 012

The purpose of this amendment is to incorporate modifications as follows:

MODIFICATION:

EXTENSION:
The project period is extended.
The new project period is March 1, 2017 through February 28, 2018

ADDITIONAL FUNDS:
$50,000 is added to the project. The cumulative total project amount is $550,000

All other terms and provisions remain unchanged.

CITY OF HATTIESBURG

_____ _____
Honorable Johnny Dupree Date
Mayor

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

_____ _____
Marcia Landen Date
Associate Vice President for Research

EDUCATIONAL AND COMMUNITY OUTREACH PROGRAM

The purpose of this proposal is to create a model educational and community outreach program, one that will be a model university/community partnership unlike any other in the state and more extensive than most in the nation. Partnership support from the City of Hattiesburg would be used specifically to produce our educational and community outreach concerts. Municipal funds would be used to fund the following four things:

1. An educational and community outreach coordinator.
2. Free professional quality concerts and/or recitals in community centers
3. Free professional quality concerts and/or recitals in nursing homes and assisted living centers in the city
4. Free professional quality concerts and/or recitals for public and private schools.
5. Support for special community and educational outreach projects such as FestivalSouth, the most extensive community and educational outreach in which we participate.

STATE OF MISSISSIPPI

COUNTY OF FORREST

AGREEMENT

WHEREAS, the **Hattiesburg Exchange Club and Dixie Youth Inc.**, hereinafter hereinafter referred to as "**City**", has entered into discussion with view of Association and Dixie Youth Inc. developing and promoting **Dixie Youth Baseball** for Hattiesburg residents, and the parties hereto desire to reduce to writing their agreement of understanding with a properly executed copy of Agreement provided to each party. Association and Dixie Youth Inc. and City do hereby agree and obligate themselves as follows, to-wit:

I.

Association and Dixie Youth Inc. will hereby develop and promote **Dixie Youth Baseball** for Hattiesburg area residents for a period of one (1) year beginning on the 1st day of October 2016, and terminating on the 30th day of September 2017. Association and Dixie Youth Inc. shall be responsible for operation of the baseball program including, but not limited to **organization of league, obtaining coaches, obtaining officials, collection of fees, setting schedules, limiting rosters and other related duties and responsibilities.** The program will operate **March 1, 2017** thru **August 31, 2017.** Concessions, tournaments, clinics and other money-making events will be covered by a separate agreement. Association and Dixie Youth Inc. shall provide to the City a written practice and game schedule. This schedule shall be inclusive of all scheduled dates and fields to be used. Season schedules shall be provided to the City no later than two (2) weeks prior to the start of the season. Make-up game schedules shall be provided to the City no later than one (1) day prior to the scheduled make-up game. All recreation league regular ending tournament schedules shall be provided to the City no later than one (1) week prior to the start of the scheduled tournament. All other tournaments, (sub-district, district, state, national, etc) shall be addressed by a separate contract. It shall be the responsibility of the

Association and Dixie Youth Inc. to confirm potential post-season tournament dates with the City before bidding if use of City facilities or any maintenance for the particular post-season tournament will be required. Program playing field specifications shall be provided to the City no less than (4) weeks prior to the start of the program.

II.

City shall be responsible for maintaining the **Larry Doleac Youth Baseball Complex** as described in Attachment I for providing seating and electricity.

Funding provided in the amount of **Twenty Thousand Dollars ($20,000.00).** The City of Hattiesburg shall provide **Fifteen-Thousand Dollars ($15,000.00)** for the payment of officials and equipment and maintenance expenditures. Forrest County shall provide **Five- Thousand Dollars ($5,000.00)** for support of the Dixie Youth Baseball Program and Facility at Tatum Park. The City does reserve the right to use facilities for other functions. See Attachment IIa for Policy on General Use of Facilities.

III.

Association and Dixie Youth Inc. does hereby obligate itself to comply with the policies of the City: That all recreation programs shall be open to all citizens of the Hattiesburg area regardless of his/her ability to pay any fees charged for participation in said programs; and that the City nondiscrimination policy (Attachment IIb) shall be observed. See Attachment II for all pertinent City policies.

IV.

It is understood by and between parties that this Agreement may be terminated by either party for any reason upon thirty (30) days written notice of their intention to terminate this Agreement.

V.

Association and Dixie Youth Inc. does hereby agree that it will hold harmless and indemnify the City from any and all liability and damages of any kind whatsoever resulting from the operation of this recreational program. The Liability Policy of the City is attached as Attachment IIc.

Association and Dixie Youth Inc. does hereby agree to appropriately acknowledge City contribution to the program in a public manner such as on ad boards, patches, and in all media.

Association and Dixie Youth Inc. does hereby obligate itself to comply with National Standards for Youth Sports and Coach Review Policy (Attachment IId and IIe, respectively) adopted by the City Council.

VI.

Association and Dixie Youth Inc. does hereby obligate itself to comply with the Sports Participation Policy that is attached as Attachment IIF.

VII.

WITNESS the signatures of Contractor and City to duplicate originals of this Agreement on this, the _____ day of _____, A.D., _____.

Contractor

Hattiesburg Exchange Club and Dixie Youth

BY: _____

President

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____
Mayor

ATTEST:

_____
KERMAS EATON, CITY CLERK

(S E A L)

AGREEMENT
ATTACHMENT I

CITY OF HATTIESBURG

MAINTENANCE POLICY

Includes:

1. Mow on regular basis
2. Clean restrooms and facility area
3. Wash bleachers, as needed
4. Line fields
5. Fill low/soft sports

The City of Hattiesburg reserves the right to increase or decrease the amount and/or type of maintenance.

NOTE: Fields and restrooms must be left in a presentable condition (litter control) after use of fields by contracted organizations. Special attention should be noticed when City Maintenance Department is not working the day after scheduled games.

Maintenance Agreement for all tournaments will be negotiated.

The decision to call games is a joint decision, however, the City reserves the right to call any game(s) for safety reasons or to prevent damage to the field(s).

The Administration section of the Recreation Department manages the contracts.

AGREEMENT
ATTACHMENT II

CITY OF HATTIESBURG

CITY POLICIES

a. General Public Use of Facility Policy

b. Nondiscrimination Policy

c. Liability Policy

d. National Standards for Youth Sports Policy

e. Coach Certification Review Policy

f. Sports Participation Policy

AGREEMENT
ATTACHMENT IIa

CITY OF HATTIESBURG

GENERAL PUBLIC USE OF FACILITY POLICY

Facilities under lease, owned by the City of Hattiesburg, were funded by the citizens of Hattiesburg. The City does reserve the right to make its facilities for other functions when not in use by organizations leasing City facilities.

AGREEMENT
ATTACHMENT IIb

CITY OF HATTIESBURG

NONDISCRIMINATION POLICY

The City of Hattiesburg does not discriminate on the basis of Color, Race, Creed, National Origin, Sex, or Religion nor on the basis of disabling conditions in the admission or access to services provided through its programs and activities.

AGREEMENT
ATTACHMENT IIc

CITY OF HATTIESBURG

LIABILITY POLICY

There are inherent risks and recognized hazards associated with participation in sports and recreational activities. By participating in these programs, the participant assumes those risks and liabilities. The City of Hattiesburg assumes no liability nor does it afford medical coverage for injuries caused by participation of individuals, groups, teams, etc. in sports and recreational programs. Organizations shall maintain a minimum of $500,000.00 general liability insurance and list the City of Hattiesburg as a certificate holder.

AGREEMENT
ATTACHMENT IId

CITY OF HATTIESBURG

NATIONAL STANDARDS FOR YOUTH SPORTS POLICY

These standards are endorsed and supported by
26 National Agencies and Organizations

STANDARD #1 – PROPER SPORTS ENVIRONMENT
Parents must consider and carefully choose the proper environment for their child, including the appropriate age and development for participation, the type of sport, the rules in the sport, the age range of the participants, and the proper level of physical and emotional stress.

STANDARD #2 – PROGRAMS BASED ON THE WELL-BEING OF CHILDREN
Parents must select youth sports programs that are developed and organized to enhance the emotional, physical, social, and educational well being of children.

STANDARD #3 – DRUG AND ALCOHOL – FREE ENVIRONMENT
Parents must encourage a drug and alcohol-free environment for their children.

STANDARD #4 – PART OF A CHILD'S LIFE
Parents must recognize that youth sports are only a small part of a child's life.

STANDARD # 5 – TRAINING
Parents must insist that coaches are trained and certified.

STANDARD #6 – PARENTS' ACTIVE ROLE
Parents must make a serious effort to take an active role in the youth sports experience of their child providing a positive support as a spectator, coach, and league administrator and/or caring parent.

STANDARD #7 – POSITIVE ROLE MODELS
Parents must be a positive role model exhibiting sportsmanlike behavior at game, practices, and home, while also giving positive reinforcement to their child and support to their child's coaches.

STANDARD #8 – PARENTAL COMMITMENT
Parents must demonstrate their commitment to their child's youth sports experience by annually signing a parental code of ethics.

STANDARD #9 – SAFE-PLAYING SITUATION
Parents must insist on safe-playing facilities, healthful playing situation, and proper first-aid applications, should the need arise.

STANDARD #10 – EQUAL PLAY OPPORTUNITY
Parents, coaches, and league administrators must provide equal sports play opportunity for all youth regardless of race, creed, sex, or economic status of ability.

STANDARD # 11 - DRUG AND ALCOHOL-FREE ADULTS
Parents must be rug and alcohol-free at youth league sporting events.

AGREEMENT
ATTACHMENT IIe

CITY OF HATTIESBURG

COACH REVIEW POLICY

Whereas, the City of Hattiesburg requires completion of a certification program for youth sport coaches whereby the coaches are schooled in the psychology of coaching youth sports, maximizing performance, injury prevention, first aid, and emphasizes a drug and alcohol-free environment for youth sports and recognizes the great influence youth coaches have on our youth.

AGREEMENT
ATTACHMENT IIf

CITY OF HATTIESBURG

YOUTH SPORTS PARTICIPATION POLICY

The Hattiesburg Parks and Recreation Division offers a diversified youth sports program designed to meet the recreational needs of the Hattiesburg area. The City's philosophy is to promote the development of strong character, a good attitude, and a sense of responsibility and citizenship in participants, using a recreation as a vehicle.

This philosophy, as important as it is, must be carried out primarily by volunteers, with support and guidance provided by the Parks and Recreation Division staff, underscoring the importance of recruiting the best volunteers available-people who can apply the City's philosophy for the good of the children involved.

Every sport sponsored by the Parks and Recreation Division is conducted on facilities provided and maintained by the City of Hattiesburg, funded in large part by the citizens of Hattiesburg. This policy necessitates a move toward more participation by every member of recreation league team.

The City feels strongly that the sport programs offered to the children of Hattiesburg should be fun, educational, and developmental; and the only way to teach these values is for the children to participate a substantial amount of time in each competitive event. Every league within the City, without exception, will follow the following guidelines.

In all games, all registered participants shall play in the following sports a minimum of:

Football – 4 minutes of the game (Flag Football)
Basketball – 2 minutes (Elementary School Age)
Soccer – One Full Half (HYSA)

Baseball and Softball – each player must at least play 3 consecutive defensive outs, and bat once in a full game. In games shortened due to the 10-run rule, acts of God, time limit expiration or other reasons will require the time at bat.

Note: A manager or coach is not required to play a player who is ill, injured or is under reasonable disciplinary restrictions or for other justifiable reasons, provided he informs the opposing coach and scorekeeper prior to the beginning of the game.

In order to assist the teams and coaches and to insure maximum participation of all children, the number of members on a team should be limited as follows:

(1)	Football	20 players
(2)	Basketball	10 players
(3)	Soccer	14 players
(4)	Baseball	14 players
(5)	Softball	14 players

The limitation of players on teams may mean the additional of other divisions within leagues and the addition of multiple all-star teams within leagues. This is viewed again, to be an opportunity to bring about additional participation for children within City recreation programs. In all-star competition, the number of children participating on each team may be increased according to the rules of the organization sponsoring the all-star program.

Every league within the City of Hattiesburg must comply with and follow this policy and insure that each coach and league official is familiar with the policy and complies at all times. If a coach fails to play a child the minimum participation limit, the following sanctions will be imposed on said coach, **without exception**, to-wit:

(1) The first offense will result in the coach receiving a letter or reprimand from the governing board of the league. The child concerned will play the entire next game.

(2) The second offense by the same coach will result in the coach being suspended from the league for the next week. The child concerned will play the entire next game.

(3) The third offense by the same coach will result in expulsion of the coach from any City program in any and all capacities for a minimum of two (2) calendar years. The child concerned will play the entire next game.

(4) If any coach fails to play any child as required in any league championship game or any play-off game affecting the league championship, then that coach, no matter which offense, will be suspended from the league and unable to participate in any post-season activities. The team that fails to have full participation by all players will forfeit the game.

(5) If any coach fails to play any child as required herein in any all-star or tournament game, then that coach, no matter which offense, will be expelled from coaching in any City program in any and all capacities for a minimum of two (2) calendar years.

The individual leagues will notify the Hattiesburg Recreation Department whenever it becomes necessary to take any action against a coach for failure to comply with the participation policy.

A copy of this participation policy shall be provided to each child at registration of any sport within the City of Hattiesburg.

The purpose of a sports league is to insure participation for all children within the City of Hattiesburg; the purpose of a participation policy is to insure a sports league for all the children of Hattiesburg.

AGREEMENT
ATTACHMENT III

CITY OF HATTIESBURG

EXPENDITURE WORKSHEETS

a. Worksheet Instructions
b. Equipment, supplies, and related purchases worksheet ***NOTE*** All invoices must be attached to the equipment/supplies purchase worksheet as documentation
c. Daily officials timesheet
d. Year end officials summary timesheet
NOTE All daily timesheets must be attached to the year end summary as documentation

AGREEMENT
ATTACHMENT IIIa

CITY OF HATTIESBURG

WORKSHEET INSTRUCTIONS

I. Supplies, Expenses and Related Purchases Worksheet:

Program personnel shall complete worksheet by listing the name of the vendor, date items were purchased, invoice number, total of the invoice and a brief description of items purchased on that invoice. All invoices **MUST** be turned in with worksheets at the end of the program for accounting purposes.

II. Daily Program Time Sheet:

If officials, scorekeepers, or other program personnel are funded through monies provided by the City, a daily accounting of these expenditures must be maintained. The daily timesheet must list the date the individual worked, they're name, address, social security number, number of games or hours they worked, total amount paid for particular day/night, and their signature.

III. Total Hours/Games Recap Sheet:

This sheet is a recap of the daily time sheets. At the completion of the program, the time sheets for each individual should be totaled and entered on the recap sheet. The daily timesheets **MUST** accompany the recap sheets at the end of the program for accounting purposes.

NOTE: Please return all expenditure reports to the City of Hattiesburg, City Clerks Office, 200 Forrest Street, Hattiesburg, MS 39401. If you have questions, please call (601) 545-4667.

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-234 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Authorize Mayor to execute duplicate original cont

Title: Authorize Mayor to execute duplicate original contract between City of Hattiesburg Parks and Recreation Department and Michelle Williams, for the Management Operation of the City of Hattiesburg Summer Aquatic Program.

Type: Action Item

Drafter: Ann Jones

In Control: City Council

Reference:

Attachments: Michelle Williams Pool Contract 2017

File Created: 02/10/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

CITY OF HATTIESBURG
PARKS AND RECREATION DEPARTMENT
POOL MANAGEMENT AGREEMENT

THIS AGREEMENT made and entered into on this the 21st day of February,

2017, between the City of Hattiesburg, Mississippi, hereinafter referred to as "City" and Michelle Williams, hereinafter referred to as "Contractor".

WHEREAS, the City is the owner of three (3) swimming pool facilities located at Dahmer Park Pool, Ben McNair Recreation Center Pool, and Scott Jones Jr. Pool at C.E. Roy Community Center.

WHEREAS, the Contractor is willing to undertake the obligations herein set forth in order to provide Aquatic activities and services at said facilities.

NOW, THEREFORE, in consideration of the promises and of the covenants herein expressed, the City and Contractor mutually agree as follow:

SECTION I

GENERAL TERMS AND CONDITIONS

1.0 TERM OF AGREEMENT

1.1 The Agreement shall commence on or about May 1, 2017, and shall end July 31, 2017, unless terminated earlier under provisions herein.

2.0 TERMINATION AND CANCELLATION

2.1 The City may terminate this contract at any time by delivery of written notice stating the contract will terminate within thirty (30) days from date of the receipt of said notice.

2.2 The Contractor may terminate this contract at any time by delivery of written notice Stating the contract will terminate within thirty (30) days from date of receipt of said notice.

3.0 NEGOTIATIONS

3.1 The City reserves the right to negotiate all elements which comprise the Contractor's proposal to ensure the best possible consideration is afforded to all concerned

4.0 LEGAL RELATIONSHIPS

4.1 It is understood and hereby agreed by the parties the Contractor is and shall be an

Independent contractor and shall control all ways, means and details incident to the performance of him/herself and his/her agents and employees under this contract. Neither the Contractor nor his/her agents or employees shall be subject to the personnel policies of the City, nor participate in the benefits which accrue to City employees. Both parties agree to indemnify and hold harmless each other from any and all claims or losses which may result from any negligence or misconduct on the part of either party, agents, employees or representatives.

5.0 LAWS, STATUS AND OTHER GOVERNMENTAL PROVISIONS

5.1 The Contractor shall at all times observe and comply with all Federal and State Laws and City Ordinances and Regulation which affect the operation of Pool Facilities and will comply with all orders, laws, ordinances and regulations which may be enacted by a body having jurisdiction over such facilities.

6.0 EQUAL OPPORTUNITY

6.1 The Contractor agrees to comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to that title, to the end, in accordance with Title VI of the Act and the regulations, no person in the United States shall, on the grounds of race, color, age, sex, disability or national origin be excluded from participation in , be denied the benefits of, or be otherwise subjected to discrimination as a result of any use or activity at the stated premises.

6.2 In the event the Contractor does not comply with the non-discrimination clauses of the Agreement, the Agreement my be cancelled, terminated or suspended in whole or in part, and the Contractor may be barred from further contracts with the City of Hattiesburg, Mississippi.

SECTION II
SPECIFIC DUTIES

1.0 SPECIFIC DUTIES

1.1 Contractor shall organize and manage the City of Hattiesburg Summer Aquatics Program.

1.2 Contractor shall oversee hiring, training (certification), and supervision of all City of Hattiesburg pool staff including, but not limited to lifeguards, water safety instructors, head lifeguards and other pool related staff to assist it in the performance of this Agreement.

1.3 Contractor shall coordinate all lifeguard training and certification

1.4 Contractor shall coordinate all lifeguard manager training for head lifeguards

1.5 Contractor shall coordinate/provide weekly in-service training for staff

1.6 Contractor shall provide daily staff meetings with head lifeguards

1.7 Contractor shall provide lifeguard management

1.8 Contractor shall provide program management

1.8.1 Includes group swim scheduling and coordination.

1.8.2 Includes staff scheduling and work hour submission to City timekeeper.

1.8.3 Includes daily fee collection and submission to City Recreation Department.

1.8.4 Includes other duties or tasks necessary for a complete and professional management of the City of Hattiesburg Summer Aquatics Program.

1.8.5 Contractor shall coordinate with pool maintenance company to provide and schedule pool cleaning/maintenance.

1.9 Contractor shall provide swim lessons during group swims as available

1.10 Contractor shall provide water safety instructor training to City staff as available

1.11 Performance reports are to be provided by the Contractor to the City daily. Records to be kept :

a. Daily pool group attendance, daily lesson participation, daily public swim attendance and names.
b. Fee collection data per pool
c. Daily water chemistry (hourly) data for chlorine and Ph.

1.12 The Contractor shall promptly inform the Director of Parks and Recreation of any and all damage or need for repair to any of the Pool Facilities.

1.14 The Contractor shall indemnify and hold harmless the City from all expenses, damages, attorneys' fees and other costs arising from any claim or suit in whole or in part from any claim or suit in whole or in part from any alleged failure or negligence of Contractor in operation of the City of Hattiesburg Summer Aquatics Program and/or any tart committed by Contractor and/or the Contractor's employee.

2.0 SUPPLY AND MAINTENANCE OF EQUIPMENT AND LIFEGUARD STAFF

2.1 The City shall supply and maintain all pool mechanical equipment located at the Pool facilities.

2.2 Equipment owned by the contractor will be maintained at its own expense.

2.3 The City shall supply pool chemicals.

2.4 The City shall provide vacuum equipment.

2.5 The Contractor shall notify the City's Director of Parks and Recreation when City – owned equipment is in need of maintenance. The City shall perform such maintenance at its own cost and expense.

2.6 The Contractor agrees to surrender City-owned equipment in good condition, normal wear and tear expected, at the termination of this Agreement or when the Contractor vacates the premises.

SECTION III

COMPENSATION

The City of Hattiesburg shall pay the Contractor a total of $9,000.00 for the above-mentioned services.

IN WITNESS WHEREOF City and Contractor have executed this Agreement on the day and year first above written.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Mayor

CONTRACTOR

BY:_____

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-251 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Downpayment Assistance Award - SBeveridge & BHutto

Title: Authorize Mayor to execute a HOME Program Downpayment Assistance Award in the amount of $6,102.00 to Simon Beveridge and Beverly Hutto and authorize issuance of a manual check for the same, per attached memorandum. {Entitlement}

Type: Action Item

Drafter: Anita Bratcher

In Control: City Council

Reference: La'Keylah White

Attachments: DPA - SBeveridge & BHutto

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

MEMORANDUM

TO: City of Hattiesburg Council Members

FROM: La'Keylah White
Department of Federal & State Programs

SUBJECT: Authorize issuance of manual checks for HOME Program claims

DATE: February 21, 2017

The following request for payment is being submitted for approval during the City Council's February 21, 2017 meeting. Please authorize and approve issuance of a manual check for the claims listed below:

Recipient:	**Simon Beveridge & Beverly Hutto** (check payable to: "Simon Beveridge & Beverly Hutto and Richard &Thomas, PLLC")
Activity:	Downpayment Assistance
Program:	HOME
Project Site:	2703 Sunset Drive
Amount Requested:	**$6,102.00**
Purpose of Request:	Downpayment and closing costs
Work Provided by:	Primary Lender: Bancorp South

GRANT RECIPIENT/HOMEBUYER AGREEMENT

I/we **Simon Beveridge and Beverly Hutto** have read and understand the following conditions and program requirements that apply to my/our participation in the Home Investment Partnership (HOME) Homebuyer Assistance Grant Program.

1. HOME grant funds in the amount of $**6,102.00** will be reserved to the extent they are available for HOME down payment assistance grant (forgivable loan) to subsidize the purchase of my/our home.
2. Eligible Usage of HOME down payment assistance funds are down payment or closing costs.
3. If approved, this agreement will be dated **2/2017**. The home must be acquired within sixty days of receiving the grant or special compliance of sweat equity is being used as part of the program to purchase the home.
4. The minimum period of affordability for a HOME assisted property is a restriction established by HUD based on the total amount of Home grant funds invested. The period of affordability for the purchase will be **5** years expiring on the anniversary of closing in **2/2022.** This period is enforced by a Deed Restriction executed at loan closing. A Deed Restriction is a document signed at closing to assure compliance with the period of affordability.
5. The appraised value of the property is **$88,000.00.**
6. The home must be maintained as the primary residence throughout the period of affordability.
7. Resale Provision Applies: The following statements (a) and (b) apply to the resale provision (a) if buyer sells home, or if home is foreclosed, then subsequent purchaser must be low-income and occupy unit as principal residence. (b) Sale price must provide original buyer a fair return on investment and be affordable to reasonable range of low-income buyers; the presumption of affordability approach is used.
8. Participation in this program requires the completion of Homeownership Training/Counseling. Completion is documented by a certificate of completion. The homebuyer may be charged for this education/training.
9. HOME assisted properties are required to meet local housing codes. In the absence of local housing codes the home must meet HUD's Section 8 Housing Quality Standards (HQS). When FHA financing is involved, housing meeting HUD's Minimum Property Standards (MPS) will be acceptable.
10. HOME grant funds cannot be used to pay liens, judgments, or debt collections.
11. The Homebuyer must have assets on hand following closing of at least three (3) times the Monthly Housing Cost (PITI).
12. All properties built prior to 1978 must pass a visual led-safe inspection.
13. There cannot be any unfair advantage or undue benefit to the homebuyer or others associated with the sale/purchase of the home that would create a conflict of interest.
14. At the time a mortgage loan application is completed, a Good Faith Estimate (GFE) will be signed by the loan applicant, fully disclosing an estimated

amount of fees to be charged to the homebuyer at loan closing. Examples of customary fees include, but are not limited to realtor commission fee, appraisal fee, survey fee, flood certificate, termite inspection fee, loan origination, fee loan discount points, underwriting fee, document preparation fee, recording fees, courier fees, tax service fee, attorney fees, title insurance, mortgage insurance premium, and the customary prepaid items like insurance, interest, and taxes.

15. If there are fees charged at closing that are not fully disclosed on the GFE, the homebuyer has the right to question the fee and consult with the Grant Administrator at the City of Hattiesburg, Federal & State Programs Department (601-545-4597).
16. Earnest money may be paid by the homebuyer at the time a sale contract is signed. At loan closing, the amount deposited as earnest money will be used to reduce the loan amount.
17. A non-refundable credit report fee will be collected from the homebuyer at the time a mortgage application is submitted.
18. Homebuyers have the option of selecting the house of their choice, their own realtor, and their own financing institution from the list of approved City of Hattiesburg lenders.

I/We have read and understand the contents of this agreement and agree to the terms of the award.

Homebuyer(s):_____ Date: _____

_____ Date**:** _____

As the Participating Lender, all items have been discussed with the above homebuyer(s) and all questions have been answered.

Participating Lender: _____ Date: _____

As the administrator, all items have been discussed with the above homebuyer(s) and all questions have been answered.

Administrator: _____ Date: _____

IN WITNESS THEREOF,

The City of Hattiesburg and the AWARDEE have caused their signatures to be hereunto affixed and duly attested:

City of Hattiesburg, Mississippi	**Downpayment Award Recipient**
By: _____ Johnny L. Dupree, Mayor	By: _____
Date: _____	Date: _____
Attest: _____	Attest: _____
Date: _____	Date: _____

CITY OF HATTIESBURG, MS
HOME PROGRAM
HOMEBUYER WRITTEN AGREEMENT

NOTICE TO HOMEBUYER: *This Agreement contains a number of requirements you must fulfill in exchange for the federal assistance you are receiving through the HOME Investment Partnerships Program (HOME Program). You should read each paragraph carefully and ask questions regarding any sections you do not fully understand. This agreement is intended to be separately enforceable from, and survive any prepayment of, the deferred loan and mortgage as set forth in Section 1 below. You should be sure that you thoroughly understand these documents before you sign them.*

THIS AGREEMENT is made and entered into this **21st day of February, 2017** by and between The City of Hattiesburg, a political municipality and parish of the State of Mississippi, hereinafter called the "participation jurisdiction" or the "PJ", and **Simon Beveridge** and **Beverly Hutto** hereinafter referred to as the "Homebuyer".

WITNESETH

WHEREAS, the City of Hattiesburg is a Participating Jurisdiction under the **HOME** Investment Partnerships Program ("HOME") administered by the United States Department of Housing and Urban development ("HUD"); and

WHEREAS, the City of Hattiesburg has the authority to enter into a binding agreement for the expenditures of all or a portion of its HOME funds, program income, and matching funds; and

WHEREAS, the regulations of 24 CFR Part 92, known as the HOME Final Rule (as now in effect and as may be amended from time to time), which are incorporated by reference hereto and made a part hereof and constitutes a part of this Agreement govern the City of Hattiesburg's implementation of the HOME program; and

WHEREAS, the PJ has determined that the homebuyer meets the eligibility requirements to purchase the single unit dwelling, including form of homeownership, property standards, and income determination for the property located at **2703 Sunset Drive, Hattiesburg, MS 39402**, the closing on the purchase of which must occur no later than **3/22/2017**; and

NOW, THEREFORE, in accordance with the mutual understanding and agreements set forth herein, the City of Hattiesburg, the PJ and Homebuyer agree as follows:

SECTION 1. Scope of Program

The PJ, by way of a Loan to the Homebuyer, will loan the Homebuyer the sum of **$6,102.00**, which was provided to the City of Hattiesburg through the HOME Program, to assist the Homebuyer with downpayment, closing costs, and/or a portion of the purchase price of the Property, and therefore representing direct HOME assistance to the Homebuyer.

The Loan will be secured by a Mortgage and Promissory Note filed against the residence located at **2703 Sunset Drive, Hattiesburg, MS.** The Mortgage and Promissory Note will be released upon repayment of the loan under the terms set forth therein. This Agreement shall survive any prepayment of the Loan and release of the Mortgage that does not include a transfer of the property and continue for the full Affordability Period, as described in Section 2. This Agreement will expire once the Affordability Period has expired. The loan may remain in place and payable beyond the Affordability Period.

SECTION 2. Affordability Period

The period of affordability for the Property will be **5** years from the date the activity is shown as completed in HUD's Integrated Disbursement and Information System (IDIS), the "Completion Date". During this period (Affordability Period), the Homebuyer must maintain the Property as his/her principal place of residence at all times. The Homebuyer should be aware that the completion date will not occur until sometime after the execution of this agreement.

The PJ will provide a formal Witten notice to the Homebuyer of the Completion Date and the resulting expiration date of this Affordability Period and this Agreement. The expiration of this Agreement and the Affordability Period shall be the same. Additionally, this Agreement shall be amended to reflect the expiration date of the Affordability Period and such amendment, along with this Agreement, will be recorded in the land records of the City of Hattiesburg.

If the property is voluntarily or involuntarily sold or transferred to another party during the Affordability Period, the liability of the Homebuyer will be limited as set forth in Section 5 below.

SECTION 3. Property Value and Purchase Price Limits

The appraised value of the Property is $88,000.00, the purchase price of the Property is $70,400.00, which within the applicable HOME maximum purchase price limit for the City of Hattiesburg. The applicable purchase price limit is **$200,140.00** for a new construction and **$140,000.00** for rehabilitation.

SECTION 4. Principal Residence

This Agreement shall remain in force throughout the Affordability Period as long as the Property remains the principal residence of the Homebuyer. Should the Homebuyer cease to maintain the Property as his/her principal residence, rents the residence to another party, or converts the Property to a non-residential use; the Homebuyer will be in breach of this Agreement and will be required to repay the entire HOME investment amount. The entire HOME investment includes any direct HOME assistance to the Homebuyer described herein and includes any additional HOME funds provided by The City of Hattiesburg including any funds used for acquisition and development of the property and any HOME funds used to pay project-related soft costs.

As of the date this Agreement, the total HOME investment is estimated to be **$6,102.00**, but a final accounting of costs will be completed as part of the project's official completion in HUD's IDIS system. Along with Notice of the Completion Date required in Section 2 above, the PJ will

provide a formal written notice to the Homebuyer of the total HOME investment and amend this Agreement accordingly.

If the Property is voluntarily or involuntarily sold or transferred to another party during the Affordability Period, the liability of the Homebuyer will be limited as set forth in Section 5 below

SECTION 5. Recapture Agreement

In compliance with 92.254(a) (5), if Homebuyer sells or otherwise voluntarily or involuntarily transfers title to the Property during the affordability period, including transfer as a result of foreclosure, then the direct HOME assistance to the buyer will be recaptured by the PJ in accordance with the terms of section, as limited by the amount of available net proceeds. The term net proceeds is defined as the sale price less the balance due on superior mortgages and closing costs. The PJ reserves the right to determine whether the sale price is comparable to the sales price in an arms-length transaction for a similar unit and to evaluate the closing costs charged to the Homebuyer to ensure they are reasonable and customary.

The PJ will use the following calculation to determine the amount to be recaptured, and imposes these requirements in accordance with 24CFR 92.254 (a)(5)(ii)(A)(2), whereby there is a reduction of the amount subject to recapture, prorate,

1. Calculated the number of months that a beneficiary has satisfied the applicable Affordability period.
2. Divide that number by the total number of months of the applicable Affordability Period.
3. The resulting percentage is the proportion of the Affordability Period that has been satisfied.
4. Multiply the total award amount by this resulting percentage.
5. The resulting dollar amount is the portion of the award that reduces any amount subject to recapture.
6. Subtract the resulting dollar amount from the total award amount to determine the amount to be recaptured.
7. The city may only recapture funds if/when there are net proceeds from which an amount can be recaptured.
   Example: A Homebuyer received HOME assistance in the amount of $10,000, with an applicable affordability period of 5 years (60 months). After 20 Months, the beneficiary sells the house. The City will determine the 20 months of the affordability period was satisfied, which is 33.3% of the total period (20/60). Multiplying $10,000 (total award) by 33.33% (portion satisfied) equals $3,333. The total award can be reduced by this amount ($10,000-$3,333) to arrive at the amount to be recaptured - $6,667. This $6,667 is the maximum amount that can be recaptured and is subject to what net proceeds are available at sale. If only $2,000 in net proceeds is available at sale, only $2,000 will be recaptured. If $20,000 in net proceeds is available at sale, only $6,667 will be recaptured.

Further, the City acknowledges the provision of 24 CFR 92.254 (a)(5)(ii) that allows subsequent buyers to assume the remaining Affordability Period should the subsequent buyer be determined income-eligible for HOME purposes. This assumes that the new buyer does not receive any

HOME assistance in the acquisition of the unit. Subsequent purchase by a buyer using HOME assistance in the acquisition will result in applicable recapture for the selling party and the establishment of a new affordability period for the new buyer based on the details of their own HOME assistance.

SECTION 6. Use of HOME Funds

The Homebuyer agrees that the Home assistance will be used as gap financing to assist with downpayment, closing costs, and/or the purchase price of the Property. This will reduce the total amount the Homebuyer will be required to borrow from a bank, credit union, or other lender in order to purchase the Property. The amount of HOME assistance will not be final until the PJ has completed all necessary underwriting and subsidy layering requirements.

SECTION 7. Low Income Homebuyer

The Homebuyer attests that the Homebuyer qualifies as a low income individual or household as defined by the HOME Program. "Low-income" is defined as an individual or household whose total income does not exceed 80% of the Area Median Income (AMI) as defined by HUD. The PJ uses the 24 CFR Part 5 definitions for determining income for a HOME-eligible beneficiary.

SECTION 8. Insurance Requirement

The Homebuyer must at all times during the duration of this Agreement maintain a valid and current hazard insurance policy on the Property for the current appraised or assessed value of the Property naming the PJ as an additional loss payee in primary coverage. Failure to maintain a valid and current insurance policy will be considered a breach of this Agreement, and the PJ will have the right to secure insurance for the Property and charge such costs to the Homebuyer or to foreclose on its Mortgage, if necessary, to protect the HOME Program investment. If the property is in a flood zone the homebuyer shall maintain a current and valid flood insurance policy on the property. Evidence of insurance must be provided at closing and annually thereafter.

SECTION 9. Property Maintenance

Homebuyer agrees not to commit waste and to use and maintain the Property in accordance with local zoning, land use, or property maintenance requirements.

SECTION 10. Default and enforcement

In the event the Homebuyer violates any terms of this agreement, including but not limited to the provisions of Section4, The PJ may enforce the agreement by issuing a Notice of Violation to the Homebuyer. Upon receipt of such a notice, the Homebuyer agrees to remedy the violation within 30 days, or in the case of violation requiring longer cure periods the PJ may allow for a period of up to 90 days to correct the violation. In such cases, the Homebuyer must take action to begin corrections within 30 days. Upon Homebuyer's failure to correct the violation within the allotted period, the PJ may take additional corrective action including suing for specific performance,

declaring a default in the Loan and initiating foreclosure proceedings, and seeking any other legal remedies available.

SECTION 11. Role of City of Hattiesburg

As the HOME Participating Jurisdiction, the City of Hattiesburg is ultimately responsible to HUD for compliance with all HOME requirements, including the enforcement of this Agreement and in particular its provision related to Principal Residency and Recapture.

Therefore, Homebuyer specifically acknowledges that any information, documents, certifications, warranties, or promises are being made to the City of Hattiesburg and are true and correct and that Homebuyer's financial situation has not changed significantly since the application was made. The Homebuyer acknowledges that any discrepancies or misstatements may result in Homebuyer's disqualification from participation in the PJ"s programs and shall be deemed a breach of this Agreement, and Homebuyer will required to repay the entire HOME investment amount.

Further, Homebuyer specifically acknowledges that the City of Hattiesburg may review, monitor, or seek to confirm the Homebuyer's ongoing compliance with the terms of this Agreement, and the Homebuyer agrees to provide such information as the PJ may reasonably require in the course of such monitoring or reviews, including but not limited to evidence that the Homebuyer is in compliance with Section 4.

City of Hattiesburg may issue Notice of Violation, require corrective action, or seek performance using any and all legal remedies available.

IN WITNESS WHEREOF, the authorized representatives hereto have caused their names to be affixed on the day and year first above written and for the purposes herein expressed.

CITY OF HATTIESBURG, MISSISSIPPI

By:_____ _____

MAYOR **DATE**

ATTEST:

By:_____ _____

CITY CLERK **DATE**

I, _____, A Notary Public for said Parish and State, certify that _____ personally came before me this day and acknowledged that they are official signatories of the City of Hattiesburg and that by authority duly given and as the act of the municipality, the foregoing instrument was signed in its name by its City of Hattiesburg Director, sealed with the corporate seal, and attested by herself as its City of Hattiesburg Parish Clerk.

WITNESS my hand and official seal, this the _____day of _____20_____,

_____

NOTARY PUBLIC

MY COMMISSION EXPIRES:_____

SEAL-STAMP

HOMEBUYER(S)

BY:_____ _____

Print Name_____ Date

BY:_____ _____

Print Name_____ Date

ATTEST:

MISSISSIPPI, City of Hattiesburg. I, a Notary Public of the Parish and State aforesaid, certify that _____ and _____personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this _____ day of _____, 20___. My commission expires: _____.

_____

NOTARY PUBLIC

SEAL-STAMP

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1	Council - Ward 2	Council - Ward 3	Council - Ward 4	Council - Ward 5
Kim Bradley	*Deborah Denard Delgado*	*Carter Carroll*	*Dave J. Ware, II*	*Henry Naylor*

MEMORANDUM

TO: Mayor and Council

FROM: Janet Beech, Purchasing Manager

DATE: February 14, 2017

SUBJECT: Emergency Purchase

Attached are Purchase Order and Invoice of Jefcoat Fence of Hattiesburg. The replacement of the fencing at the City of Hattiesburg Water Plant #2 due to damage from the 2017 Tornado was deemed necessary as a safety issue and to prevent further damage. Delaying for competitive bids would have been detrimental to the interest of the City.

This item is submitted for your review, approval, and acknowledgement on the minutes of the City of Hattiesburg Council Meeting Agenda as an Emergency Purchase per Mississippi Code 31-7-1(k).

Janet Beech, CMPA
Purchasing Manager
601-545-4510

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/25/17

PO No. - 167475

Req No. - 191180

VENDOR MAILING:
JEFCOAT FENCE OF HATTIESBURG
5328 HWY 42
PO BOX 1167
HATTIESBURG MS 39403-1167

WAGGONER, ROBIN (601) 5454630

VENDOR # 90069659

SHIP TO :
CITY OF HATTIESBURG
WATER PLANT #2
900 JAMES STREET
HATTIESBURG MS 39401

PROCESSING CODE:

SEND METHOD 1 (601)5834990

PROJECT LINE: **JAN.21,2017 TORNADO**REPLACE DAMAGED FENCE AT PLANT#2

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
009673.6351	REPLACE FENCING *** SEE ATTACHED ***	1.00	EA	33,654.9200	33,654.92

TOTAL CONTRACT AMOUNT NOT TO EXCEED 33,654.92

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

PROPOSAL

Jefcoat Fence Company, Inc. of Hattiesburg
P. O. Box 1167
Hattiesburg, MS 39403
Phone: 601-583-0516
Fax 601-583-4990

— Disaster Relief —

Jefcoat
FENCE AND ACCESS CONTROL

"The Name that Secures Your Trust"
www.jefcoatfenceofhattiesburg.com

QUOTE IS VALID FOR 30 DAYS.

Company	CITY OF HATTIESBURG	From	Kenny Smith
		Date:	
Fax/Email		Cell Phone:	601 408 3303
Re	BRUCE MORGAN	Email:	kenny@jefcoatfenceofhattiesburg.com

MS. CERTIFICATE OF RESPONSIBILITY # 16003-SC
MS. ELECTRONIC PROTECTION LICENSE #15024185

AS DEFINED BY FEDERAL GOVERNMENT WE ARE A SMALL DISADVANTAGED BUSINESS AND WOMEN OWNED SMALL BUSINESS

OR# 191180

To provide materials and labor as follow

INSTALL 2217' OF 6+3 9GA CHAINLINK
1-24' CANTILEVER
2-20' DOUBLE GATES
1-4' WALK GATE

AMOUNT$33,654.92

chal 7
1-25-2017

229673.6351

DR

January 21, 2017
Tornado

THANK YOU
Kenny Smith
Asst. General Manager

ALL PRICES PLUS APPLICABLE SALES TAX, INSURANCE, AND BONDS.

NOTE: With a written contract that lists the insurance requirements, there is no additional insurance cost UNLESS insurance requirements are requested that are above our standard policies for each entity. Otherwise, there may be additional charges for named additional insured, completed operations, and auto for each entity. Jefcoat Fence Co. Inc. of Hattiesburg uses our carrier's accepted endorsements only.

ACCEPTANCE OF PROPOSAL

The above specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1	Council - Ward 2	Council - Ward 3	Council - Ward 4	Council - Ward 5
Kim Bradley	*Deborah Denard Delgado*	*Carter Carroll*	*Dave J. Ware, II*	*Henry Naylor*

MEMORANDUM

TO: Mayor and Council

FROM: Janet Beech, Purchasing Manager

DATE: February 14, 2017

SUBJECT: Emergency Purchase

Attached are Purchase Order and Invoice of Chain Electric Company. Repairs to Well Pump #5 were deemed necessary as to prevent further damage due to the Tornado of 2017 and to ensure the continuous operations of Well Pump #5. Delaying for competitive bids would have been detrimental to the interest of the City.

This item is submitted for your review, approval, and acknowledgement on the minutes of the City of Hattiesburg Council Meeting Agenda as an Emergency Purchase per Mississippi Code 31-7-1(k).

Janet Beech, CMPA
Purchasing Manager
601-545-4510

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/25/17

PO No. - 167472

Req No. - 191175

VENDOR MAILING:
CHAIN ELECTRIC COMPANY
PO BOX 2058
HATTIESBURG MS 39403-2058

WAGGONER, ROBIN (601) 5454630

VENDOR # 00015051

SHIP TO :
CITY OF HATTIESBURG
WATER PLANT #2
900 JAMES STREET
HATTIESBURG MS 39401

PROCESSING CODE:

SEND METHOD 1 (601)5848320

PROJECT LINE: **JAN.21,2017 TORNADO**REPLACEELECTRICAL WP#2, WELLPUMP #5

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
009673.6351	REPLACE ELECTRICAL *REMOVE EXISTING DAMAGED EQUIPMENT & RACK *FURNISH & INSTALL NEW EQUIPMENT RACK. INCLUDES BORING HOLES & SETTING POST IN CONCRETE. *FURNISH & INSTALLNEW 320AMP METER BASE, 400AMP ENCLOSED CIRCUIT BREAKER, 400AMP ASCO 4000 SERIES AUTOMATIC TRANSFER SWITCH, & 5KVA CONTROL POWER TRANSFORMER *INSTALL & CONNECT POWER TO PUMP MOTOR CONTROLLER *BUILD NEW NORMAL POWER SERVICE RISER UP POLE & REPLACE ALL DAMAGED CONDUITS *REPLACE NORMAL & EMERGENCY POWER FEEDERS WITH NEW 350 MCM COPPER & TERMINATE. *REPLACE LOAD FEEDER TO PUMP MOTOR W/ #2/0 COPPER & TERMINAT *REPLACE GENERATOR CONTROL POWER CIRCUITS & TERMINATE *REPLACE 120V CIRCUIT & RISER TO MPC FURNISHED SECURITY LIGHT POLE *INSPECT & REPLACE/SPLICE PUMP CONTROLS AS NEEDED - - *** SEE ATTACHED ***	1.00	EA	25,170.0000	25,170.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 25,170.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

SINCE 1955
CHAIN ELECTRIC
COMPANY

1308 W. Pine Street
P. O. Box 2058
Hattiesburg, MS 39403-2058
Telephone (601) 545-3800
FAX (601) 584-8320
e-mail: bchain@bchain.com

OR# 191175

January 23, 2017

City of Hattiesburg
Water Department
Attn: Arnold Landrum

Re: Replace Electrical Equipment and Rack for Water Plant #2, Well Pump #5

Please accept this as our proposal to remove tornado damaged electrical equipment and rack, and replace with new electrical equipment and rack at Water Plant #2, Well Pump #5 per following Scope of Work.

Scope of Work:

1) Remove all existing equipment and rack.
2) Furnish and install new equipment rack. Includes boring holes and setting post in concrete.
3) Furnish and install new 320Amp meter base, 400Amp enclosed circuit breaker, 400Amp ASCO 4000 Series Automatic Transfer Switch, and 5kVA control power transformer.
4) Install and connect power to pump motor controller. (To be furnished by Control Systems, Inc.)
5) Build new normal power service riser up pole and replace all damaged conduits.
6) Replace normal and emergency power feeders with new 350 MCM copper and terminate.
7) Replace load feeder to pump motor with #2/0 copper and terminate.
8) Replace generator control power circuits and terminate.
9) Replace 120V circuit and riser to MPC furnished security pole light.
10) Inspect and replace/splice pump controls as necessary.

TOTAL AMOUNT $ 25,170.00

ALTERNATE PRICE $ 20,960.00 (Includes about Scope of Work, but substitutes ASCO 4000 Series ATS with ASCO 300 Series ATS)

*Lead time on ASCO Series 4000 ATS is 3-4 weeks.
*Alternate ASCO Series 300 ATS is stock item. (Approximately one week delivery)
*Prices include all applicable tax.

If you have any questions or concerns, please call me at 601-545-3800 or 601-596-5152.

Thank you,

Harvey Simmons
Manager, Commercial and Industrial Division

009673-6351

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1	Council - Ward 2	Council - Ward 3	Council - Ward 4	Council - Ward 5
Kim Bradley	*Deborah Denard Delgado*	*Carter Carroll*	*Dave J. Ware, II*	*Henry Naylor*

MEMORANDUM

TO: Mayor and Council

FROM: Janet Beech, Purchasing Manager

DATE: February 14, 2017

SUBJECT: Emergency Purchase

Attached are Purchase Order and Invoice of Eddie Pearson Roofing, LLC. This temporary roof repair on the City of Hattiesburg Water Plant was deemed necessary as to prevent further damage due to the Tornado of 2017. Delaying for competitive bids would have been detrimental to the interest of the City.

This item is submitted for your review, approval, and acknowledgement on the minutes of the City of Hattiesburg Council Meeting Agenda as an Emergency Purchase per Mississippi Code 31-7-1(k).

Janet Beech, CMPA
Purchasing Manager
601-545-4510

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 02/09/17

PO No. - 167887

Req No. - 191633

VENDOR MAILING:
EDDIE PEARSON ROOFING, LLC
112 CARSON ST
HATTIESBURG MS 39401

BARNES, KESHIBA (601) 5454530

VENDOR # 00098124

SHIP TO :
CITY OF HATTIESBURG
WATER PLANT #2
900 JAMES STREET
HATTIESBURG MS 39401

PROCESSING CODE: RIP

SEND METHOD 0 ( )

PROJECT LINE: TORNADO 2017 ROOF REPAIR ON THE WATER PLANT BUILDING

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
009673.6351	TEMP ROOF REPAIR 2000 SQ FOOT OF TEMPORARY ROOFING REPAIR...INVOICE# 1550	1.00	EA	27,842.2500	27,842.25

TOTAL CONTRACT AMOUNT NOT TO EXCEED 27,842.25

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

QB 191633

Eddie Pearson Roofing, LLC

112 Carson St.
Hattiesburg, MS 39401

Invoice

Date	Invoice #
2/7/2017	1550

Bill To
City of Hattiesburg City Waterworks Facility

P.O. No.	Terms	Project
154485		

Description	Qty	Rate	Amount
Administration building : Install 2000 Sq. Ft. of temporary roofing, EPDM 60 mil roof membrane		4,656.00	4,656.00
Install four(4) 3x8 sheet metal to cover holes in the roof and over 240 Sq. Ft. for two (2) porches in front			
On the two story building beside the administration office, to install 60 mil EPDM temporary over flat areas 9955 Sq. Ft.		22,398.75	22,398.75
Install 225 Ft. of 2x4 treated around perimeter where wood blocking was missing		787.50	787.50
#PrayForThePineBelt			

check
2/9/2017
601673.6351
DR

Subtotal	$27,842.25
Sales Tax (0.0%)	$0.00
Total	$27,842.25
Payments/Credits	$0.00
Balance Due	$27,842.25

Phone (601)582-3624
Fax (601)582-3645
www.eddiepearsonroofing.net
bridgette@epearsonroofing.com

tornado 2017

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-259 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Acknowledge Receipt of Monthly Budget Report for the month ending 1-31-17

Title: Acknowledge receipt of monthly budget report for the month ending January 31, 2017, on permanent file in the City Clerk's Office.

Type: Action Item

Drafter: Lisa Luu

In Control: City Council

Reference:

Attachments: Expenditure 1-31-17, Revenue 1-31-17

File Created: 02/17/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

001003 - GENERAL FUND-CITY COUNCIL

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
13154	REGULAR WAGES	4000	197000		52615	144385	33.3	26.7	39,154-	19.8-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	100			100	33.3		100-	100.0-
	DISASTER RECOVERY OVER	4310								
13154	SALARIES		197100		52615	144485	33.3	26.6	39,254-	19.9-
	EMPLOYEE BENEFITS									
2072	STATE RETIREMENT	4600	31043		8287	22756	33.3	26.6	6,181-	19.9-
970	F.I.C.A. TAXES	4700	15079		3880	11199	33.3	25.7	3,439-	22.8-
3500	HOSPITALIZATION INS.	4800	52800		17500	35300	33.3	33.1	300-	.5-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	524			524	33.3		524-	100.0-
6542	EMPLOYEE BENEFITS		99946		29667	70279	33.3	29.6	10,944-	10.9-
19695	PERSONAL SERVICES		297046		82282	214764	33.3	27.7	50,200-	16.8-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	1500		51	1449	33.3	3.4	1,346-	89.7-
	MINOR OFFICE EQUIP/FUR	5020	300			300-	33.3		300-	100.0-
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	400			400	33.3		400-	100.0-
	COMPUTER SUPPLIES	5080	1100		878	222	33.3	79.8	1,534	139.4
	OFFICE SUPPLIES		2700		929	1771	33.3	34.4	87	3.2
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
69	FOOD	5115	400		238	162	33.3	59.5	314	78.5
	MINOR EQUIPMENT	5460	300			300	33.3		300-	100.0-
	OTHER OPERATING MATL/S	5590								
69	OPERATING SUPPLIES		700		238	462	33.3	34.0	14	2.0
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	MTR VEHICLE REP. PTS/S	5700								
	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE									

69	SUPPLIES AND EXPENSES		3400		1167	2233	33.3	34.3	101	2.9
	PROFESSIONAL SERVICES									
25000	AUDITING AND ACCOUNTIN	6010	100000		34200	65800	33.3	34.2	2,600	2.6
	ARCHITECTURAL	6012								
	ENTERTAINMENT	6033								
	DATA PROCESSING	6035								
	OTHER PROFESSIONAL SER	6049								
25000	PROFESSIONAL SERVICE		100000		34200	65800	33.3	34.2	2,600	2.6
	COMMUNICATIONS									
148	TELEPHONE AND TELEGRAP	6060	1500		177	1324	33.3	11.8	968-	64.5-
	POSTAGE	6070								
148	COMMUNICATIONS		1500		177	1324	33.3	11.8	968-	64.5-
	TRANSPORTATION									
1168	TRAVEL EXPENSE		16000	250	2679	13071	33.3	16.7	7,962-	49.7-
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130	100		18	82	33.3	18.0	46-	46.0-
1168	TRANSPORTATION		16100	500	2698	13152	33.3	16.7	8,006-	49.7-
	ADVERTISING									
	ADVERTISING	6150								
	ORDINANCE EXPENSE	6160								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BINDING	6205								
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	SURETY AND FORGERY BON	6270	2100			2100	33.3		2,100-	100.0-
	OTHER INSURANCE	6299								
	INSURANCE		2100			2100	33.3		2,100-	100.0-
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365								
	HOUSEHOLD EQUIPMENT R&	6370								
	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384								
	OTHER REPAIRS AND MAIN	6399	1000			1000	33.3		1,000-	100.0-
	REPR/MAINT-OUTSIDE L		1000			1000	33.3		1,000-	100.0-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									

	EXHIBITIONS & PROMOTIO	6500	2500			2500	33.3		2,500-	100.0-
	DUES AND MEMBERSHIPS	6840	790		370	420	33.3	46.8	320	40.5
1660	REGISTRATION FEE/TUITI		7500	684	1660	5669	33.3	22.1	2,520-	33.6-
	SERVICES NOT SPECIFIED	6999								
1660	OTHER SERVICES & CHA		10790	1,368	2030	8589	33.3	18.8	4,700-	43.5-
27976	OTHER SERVICES & CHAR		131490	1,868	39104	91965	33.3	29.7	14,178-	10.7-
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
47740	EXPENDITURES		431936	1,868	122553	308962	33.3	28.3	64,276-	14.8-

001015 - GENERAL FUND-CITY COURT

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
47496	REGULAR WAGES	4000	828070		163038	665032	33.3	19.6	338,956-	40.9-
	DISASTER RECOVERY WAGE	4010								
1189	OVERTIME	4300	15000		5044	9956	33.3	33.6	132	.8
	DISASTER RECOVERY OVER	4310								
48685	SALARIES		843070		168082	674988	33.3	19.9	338,824-	40.1-
	EMPLOYEE BENEFITS									
7668	STATE RETIREMENT	4600	132785		26473	106312	33.3	19.9	53,365-	40.1-
3592	F.I.C.A. TAXES	4700	64495		12319	52176	33.3	19.1	27,537-	42.6-
5055	HOSPITALIZATION INS.	4800	138600		31620	106980	33.3	22.8	43,740-	31.5-
1656	UNEMPLOYMENT BENEFITS	4900	1657		1656	1	33.3	99.9	3,311	199.8
	WORKMAN'S COMPENSATION	4910	1740			1740	33.3		1,740-	100.0-
17971	EMPLOYEE BENEFITS		339277		72069	267208	33.3	21.2	123,069-	36.2-
66656	PERSONAL SERVICES		1182347		240151	942196	33.3	20.3	461,893-	39.0-
	OFFICE SUPPLIES									
	PAPER	5003	4000	760	756	2484	33.3	18.9	1,732-	43.3-
6	PRINTED FORMS	5005	100		6	94	33.3	6.0	82-	82.0-
109-	OTHER EXPENDABLE OFF.S	5010	6000	1,634	2903	1462	33.3	48.3	2,709	45.1
935	MINOR OFFICE EQUIP/FUR	5020	12600	560	2679	9361	33.3	21.2	4,562-	36.2-
	MICROFILM SUPPLIES	5030	100			100	33.3		100-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
20-	COMPUTER SUPPLIES	5080	4000	120		3880	33.3		4,000-	100.0-
812	OFFICE SUPPLIES		26800	3,074	6344	17382	33.3	23.6	7,768-	28.9-
	OPERATING SUPPLIES									
	FOOD	5115	300	133	96	72	33.3	32.0	12-	4.0-
	GAS AND OIL	5250								
42	WEARING APPAREL	5355	200		42	158	33.3	21.0	74-	37.0-
	MINOR EQUIPMENT	5460	8100		1382	6718	33.3	17.0	3,954-	48.8-
	OTHER OPERATING MATL/S	5590								
	OTHER OPER.MATL-JAIL G	5591								
42	OPERATING SUPPLIES		8600	133	1520	6947	33.3	17.6	4,040-	46.9-
	REPAIR & MAINTENANCE SP									
203	BUILDING MATERIALS & S	5600	1000		973	27	33.3	97.3	1,919	191.9
	MTR VEHICLE REP. PTS/S	5700								
203	REPAIR & MAINTENANCE		1000		973	27	33.3	97.3	1,919	191.9

1056	SUPPLIES AND EXPENSES		36400	3,207	8837	24356	33.3	24.2	9,888-	27.1-
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
340	LEGAL	6025	17313		869	16444	33.3	5.0	14,705-	84.9-
	DATA PROCESSING	6035								
	MICROFILM PROCESSING	6037								
2580	OTHER PROF-JAIL DIV GR	6048	10000		7604	2396	33.3	76.0	12,812	128.1
24226	OTHER PROFESSIONAL SER		241847		101109	140738	33.3	41.8	61,480	25.4
27145	PROFESSIONAL SERVICE		269160		109582	159578	33.3	40.7	59,586	22.1
	COMMUNICATIONS									
221	TELEPHONE AND TELEGRAP	6060	2000		1165	835	33.3	58.2	1,495	74.7
	POSTAGE	6070								
221	COMMUNICATIONS		2000		1165	835	33.3	58.2	1,495	74.7
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	6900			6900	33.3		6,900-	100.0-
	TRVL-JAIL DIVERSN GRAN	6118								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		6900			6900	33.3		6,900-	100.0-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BINDING	6205								
	PRINTING AND BINDING									
	INSURANCE									
	SURETY AND FORGERY BON	6270								
2866	ELECTRICITY	6305	3000		2866	134	33.3	95.5	5,598	186.6
2866	INSURANCE		3000		2866	134	33.3	95.5	5,598	186.6
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	8184		2584	5600	33.3	31.5	432-	5.2-
	OFFICE EQUIPMENT R&M	6365	1000			1000	33.3		1,000-	100.0-
	REPR/MAINT-OUTSIDE L		9184		2584	6600	33.3	28.1	1,432-	15.5-
	RENTALS									
434	OFFICE EQUIPMENT RENT	6410	10000		1439	8561	33.3	14.3	5,682-	56.8-
	OTHER RENT	6449								
434	RENTALS		10000		1439	8561	33.3	14.3	5,682-	56.8-
	OTHER SERVICES & CHARGE									
	COURT COSTS	6710								
	REFUNDS									
50	DUES AND MEMBERSHIPS	6840	1000		210	790	33.3	21.0	370-	37.0-
	REGISTRATION FEE/TUITI	6845	1000			1000	33.3		1,000-	100.0-

	SERVICES NOT SPECIFIED	6999								
50	OTHER SERVICES & CHA		2000		210	1790	33.3	10.5	1,370-	68.5-
30716	OTHER SERVICES & CHAR		302244		117845	184399	33.3	38.9	51,291	16.9
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
98428	EXPENDITURES		1520991	3,207	366833	1150951	33.3	24.1	420,491-	27.6-

001020 - GENERAL FUND-MAYOR/ADMIN.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
30313	REGULAR WAGES	4000	434716		119984	314732	33.3	27.6	74,764-	17.1-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	1000			1000	33.3		1,000-	100.0-
	DISASTER RECOVERY OVER	4310								
30313	SALARIES		435716		119984	315732	33.3	27.5	75,764-	17.3-
	EMPLOYEE BENEFITS									
4774	STATE RETIREMENT	4600	68625		18898	49727	33.3	27.5	11,931-	17.3-
2264	F.I.C.A. TAXES	4700	33332		8945	24387	33.3	26.8	6,496-	19.4-
4000	HOSPITALIZATION INS.	4800	59400		20550	38850	33.3	34.5	2,250	3.7
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	5039			5039	33.3		5,039-	100.0-
11038	EMPLOYEE BENEFITS		166896		48392	118504	33.3	28.9	21,720-	13.0-
41351	PERSONAL SERVICES		602612		168376	434236	33.3	27.9	97,484-	16.1-
	OFFICE SUPPLIES									
79	PAPER	5003	500		399	101	33.3	79.8	697	139.4
	PRINTED FORMS	5005								
30	OTHER EXPENDABLE OFF.S	5010	3559	300	653	2606	33.3	18.3	1,599-	44.9-
200	MINOR OFFICE EQUIP/FUR	5020	2145		974	1171	33.3	45.4	777	36.2
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050	741		740	1	33.3	99.8	1,479	199.5
	BOOKS	5070	900			900	33.3		900-	100.0-
980	COMPUTER SUPPLIES	5080	1150		980	170	33.3	85.2	1,790	155.6
1289	OFFICE SUPPLIES		8995	300	3746	4949	33.3	41.6	2,243	24.9
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
288	FOOD	5115	2300		759	1541	33.3	33.0	22-	.9-
296	GAS AND OIL	5250	4000		1117	2883	33.3	27.9	648-	16.2-
	LUBRICANTS	5255								
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590	550		36	514	33.3	6.5	442-	80.3-
	OTHER OPER.MATL-NLC HE	5591								
584	OPERATING SUPPLIES		6850		1912	4938	33.3	27.9	1,114-	16.2-
	REPAIR & MAINTENANCE SP									
	MTR VEHICLE REP. PTS/S	5700	750	306		444	33.3		750-	100.0-
	COMMUNICATION REPAIR P	5750								
	OTHER REPAIR/MAINT. SP	5990	250		20	230	33.3	8.0	190-	76.0-

200	DISASTER REPAIR SUPPLI	5995			200	200-				600	
200	REPAIR & MAINTENANCE		1000	306	220	474	33.3	22.0		340-	34.0-
2073	SUPPLIES AND EXPENSES		16845	606	5877	10362	33.3	34.8		786	4.6
	PROFESSIONAL SERVICES										
	APPRAISAL	6017									
	CONSULTANT SERV/SURVEY	6020									
	ENTERTAINMENT	6033									
	OTHER PROFESSIONAL SER	6049									
	OTHER PROF SERV-NLC HE	6049 98	144		144		33.3	100.0		288	200.0
	PROFESSIONAL SERVICE		144		144		33.3	100.0		288	200.0
	COMMUNICATIONS										
932	TELEPHONE AND TELEGRAP	6060	3356	65	1247	2044	33.3	37.1		385	11.4
	POSTAGE	6070									
932	COMMUNICATIONS		3356	65	1247	2044	33.3	37.1		385	11.4
	TRANSPORTATION										
388	TRAVEL EXPENSE	6110	25800	518	1871	23411	33.3	7.2		20,186-	78.2-
23	FREIGHT	6120	400		23	377	33.3	5.7		330-	82.5-
	MESSENGER/EXPRESS SERV	6130									
411	TRANSPORTATION		26200	518	1894	23788	33.3	7.2		20,518-	78.3-
	ADVERTISING										
1539	ADVERTISING	6150	27045	1,360	2807	22878	33.3	10.3		18,623-	68.8-
	ADVERTISING-BC HEALTHY	6151									
	ADVERTISING-SPEC. EVEN	6152									
	ADVERTISING-MAYOR'S YO	6153	10000	900		9100	33.3			10,000-	100.0-
	ADVERTISING-USM-ISP	6156	28000		28000		33.3	100.0		56,000	200.0
	ADVERTISING-WILLIAM CA	6157	7000			7000	33.3			7,000-	100.0-
	ADVERTISING-MS ASSC OF	6158									
1539	ADVERTISING		72045	2,260	30807	38978	33.3	42.7		20,376	28.2
	PRINTING AND BINDING										
116	PRINTING	6200	1500		261	1239	33.3	17.4		716-	47.7-
	BINDING	6205									
	BLUELINES	6210									
	FILM PROCESSING	6240									
116	PRINTING AND BINDING		1500		261	1239	33.3	17.4		716-	47.7-
	INSURANCE										
	PUBLIC LIAB/PROPERTY D	6255									
	AUTOMOBILE INSURANCE	6265									
	SURETY AND FORGERY BON	6270									
	OTHER INSURANCE	6299									
	INSURANCE										
	REPR/MAINT-OUTSIDE LABO										
215	OFFICE EQUIPMENT R&M	6365	5000		982	4018	33.3	19.6		2,054-	41.0-
	HOUSEHOLD EQUIPMENT R&	6370									

	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384	2000			2000	33.3		2,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
	OTHER REPAIRS AND MAIN	6399								
215	REPR/MAINT-OUTSIDE L		7000		982	6018	33.3	14.0	4,054-	57.9-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	LATE PAYMENT CHARGE	6705								
	DUES AND MEMBERSHIPS	6840	3000		485	2515	33.3	16.1	1,544-	51.4-
520	REGISTRATION FEE/TUITI	6845	6000		1825	4175	33.3	30.4	524-	8.7-
	SERVICES NOT SPECIFIED	6999								
520	OTHER SERVICES & CHA		9000		2310	6690	33.3	25.6	2,070-	23.0-
3732	OTHER SERVICES & CHAR		119245	2,843	37645	78757	33.3	31.5	6,309-	5.2-
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325	2000			2000	33.3		2,000-	100.0-
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399	3396		1696	1700	33.3	49.9	1,692	49.8
	MACHINERY AND EQUIPM		5396		1696	3700	33.3	31.4	308-	5.7-
	VEHICLES									
	AUTOMOBILES	7400								
	VEHICLES									
	CAPITAL OUTLAY		5396		1696	3700	33.3	31.4	308-	5.7-
47157	EXPENDITURES		744098	3,449	213595	527054	33.3	28.7	103,312-	13.8-

001030 - GENERAL FUND-ELECTIONS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
	OVERTIME	4300								
	SALARIES									
	EMPLOYEE BENEFITS									
	STATE RETIREMENT	4600								
	F.I.C.A. TAXES	4700								
	HOSPITALIZATION INS.	4800								
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910								
	EMPLOYEE BENEFITS									
	PERSONAL SERVICES									
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	700			700	33.3		700-	100.0-
	OFFICE SUPPLIES		700			700	33.3		700-	100.0-
	OPERATING SUPPLIES									
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590	2500		2175	325	33.3	87.0	4,025	161.0
	OPERATING SUPPLIES		2500		2175	325	33.3	87.0	4,025	161.0
	REPAIR & MAINTENANCE SP									
	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE									
	SUPPLIES AND EXPENSES		3200		2175	1025	33.3	67.9	3,325	103.9
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	DATA PROCESSING	6035								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
	POSTAGE	6070	8500			8500	33.3		8,500-	100.0-
	COMMUNICATIONS		8500			8500	33.3		8,500-	100.0-

	TRANSPORTATION								
	FREIGHT	6120	235	233		2	33.3	235-	100.0-
	MESSENGER/EXPRESS SERV	6130	500			500	33.3	500-	100.0-
	TRANSPORTATION		735	233		502	33.3	735-	100.0-
	ADVERTISING								
	ADVERTISING	6150							
	ADVERTISING								
	PRINTING AND BINDING								
	PRINTING	6200	4765			4765	33.3	4,765-	100.0-
	BINDING	6205							
	PRINTING AND BINDING		4765			4765	33.3	4,765-	100.0-
	REPR/MAINT-OUTSIDE LABO								
	OFFICE EQUIPMENT R&M	6365							
	OTHER REPAIRS AND MAIN	6399							
	REPR/MAINT-OUTSIDE L								
	RENTALS								
	BUILDING RENT	6405							
	OFFICE EQUIPMENT RENT	6410							
	RENTALS								
	OTHER SERVICES & CHARGE								
	SERVICES NOT SPECIFIED	6999	50000			50000	33.3	50,000-	100.0-
	OTHER SERVICES & CHA		50000			50000	33.3	50,000-	100.0-
	OTHER SERVICES & CHAR		64000	233		63767	33.3	64,000-	100.0-
	MACHINERY AND EQUIPMENT								
	OFFICE FURN/EQUIP.	7325							
	OTHER EQUIPMENT	7399							
	MACHINERY AND EQUIPM								
	CAPITAL OUTLAY								
	EXPENDITURES		67200	233	2175	64792	33.3	3.2 60,674-	90.2-

001040 - GENERAL FUND-MUNICIPAL CLERK

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
7764	REGULAR WAGES	4000	101883		31146	70737	33.3	30.5	8,445-	8.2-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	2000			2000	33.3		2,000-	100.0-
	DISASTER RECOVERY OVER	4310								
7764	SALARIES		103883		31146	72737	33.3	29.9	10,445-	10.0-
	EMPLOYEE BENEFITS									
1223	STATE RETIREMENT	4600	16362		4905	11457	33.3	29.9	1,646-	10.0-
563	F.I.C.A. TAXES	4700	7947		2258	5689	33.3	28.4	1,173-	14.7-
2000	HOSPITALIZATION INS.	4800	26400		10000	16400	33.3	37.8	3,600	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	408			408	33.3		408-	100.0-
3786	EMPLOYEE BENEFITS		51617		17163	34454	33.3	33.2	127-	.2-
11550	PERSONAL SERVICES		155500		48309	107191	33.3	31.0	10,572-	6.7-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
324	OTHER EXPENDABLE OFF.S	5010	2600		2018	582	33.3	77.6	3,454	132.8
	MINOR OFFICE EQUIP/FUR	5020	1000		180	820	33.3	18.0	460-	46.0-
	MICROFILM SUPPLIES	5030								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	300			300	33.3		300-	100.0-
324	OFFICE SUPPLIES		3900		2198	1702	33.3	56.3	2,694	69.0
	OPERATING SUPPLIES									
	FOOD	5115								
	GAS AND OIL	5250								
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590								
	OPERATING SUPPLIES									
324	SUPPLIES AND EXPENSES		3900		2198	1702	33.3	56.3	2,694	69.0
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
	ABSTRACTING & RECORDIN	6023								
	LEGAL	6025								
	DATA PROCESSING	6035								

	MICROFILM PROCESSING	6037								
	OTHER PROFESSIONAL SER	6049	500	375		125	33.3		500-	100.0-
	PROFESSIONAL SERVICE		500	375		125	33.3		500-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130	75			75	33.3		75-	100.0-
	TRANSPORTATION		75			75	33.3		75-	100.0-
	ADVERTISING									
170	ADVERTISING	6150	19500		10840	8660	33.3	55.5	13,020	66.7
	ORDINANCE EXPENSE	6160	3000			3000	33.3		3,000-	100.0-
170	ADVERTISING		22500		10840	11660	33.3	48.1	10,020	44.5
	PRINTING AND BINDING									
	PRINTING	6200	1600			1600	33.3		1,600-	100.0-
	BINDING	6205								
	PRINTING AND BINDING		1600			1600	33.3		1,600-	100.0-
	INSURANCE									
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365	3700			3700	33.3		3,700-	100.0-
	DISINFECT./EXTERMINATI	6394	1000		325	675	33.3	32.5	24-	2.4-
	OTHER REPAIRS AND MAIN	6399								
	REPR/MAINT-OUTSIDE L		4700		325	4375	33.3	6.9	3,724-	79.2-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	RENTALS									
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845	900			900	33.3		900-	100.0-
	SERVICES NOT SPECIFIED	6999	1000		3	998	33.3	.3	990-	99.0-
	OTHER SERVICES & CHA		1900		3	1898	33.3	.1	1,890-	99.4-
170	OTHER SERVICES & CHAR		31275	375	11168	19732	33.3	35.7	2,229	7.1
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	OTHER EQUIPMENT	7399								

	MACHINERY AND EQUIPM								
	CAPITAL OUTLAY								
12044	EXPENDITURES	190675	375	61674	128626	33.3	32.3	5,653-	2.9-

001041 - GENERAL FUND-TAX DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES								
	REGULAR WAGES	4000							
	OVERTIME	4300							
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	SALARIES								
	EMPLOYEE BENEFITS								
	STATE RETIREMENT	4600							
	F.I.C.A. TAXES	4700							
	HOSPITALIZATION INS.	4800							
	UNEMPLOYMENT BENEFITS	4900							
	WORKMAN'S COMPENSATION	4910							
---			---	---	---	---	--- ---	---	---
	EMPLOYEE BENEFITS								
---			---	---	---	---	--- ---	---	---
	PERSONAL SERVICES								
	OFFICE SUPPLIES								
	PAPER	5003							
	PRINTED FORMS	5005							
	OTHER EXPENDABLE OFF.S	5010							
	MINOR OFFICE EQUIP/FUR	5020							
	MICROFILM SUPPLIES	5030							
	SUBSCRIPTIONS,MAGS,MAP	5050							
	MAPS FOR RESALE	5060							
	BOOKS	5070							
	COMPUTER SUPPLIES	5080							
---			---	---	---	---	--- ---	---	---
	OFFICE SUPPLIES								
	OPERATING SUPPLIES								
	GAS AND OIL	5250							
	LUBRICANTS	5255							
	MINOR EQUIPMENT	5460							
	OTHER OPERATING MATL/S	5590							
---			---	---	---	---	--- ---	---	---
	OPERATING SUPPLIES								
	REPAIR & MAINTENANCE SP								
	MTR VEHICLE REP. PTS/S	5700							
	OTHER REPAIR/MAINT. SP	5990							
---			---	---	---	---	--- ---	---	---
	REPAIR & MAINTENANCE								
---			---	---	---	---	--- ---	---	---
	SUPPLIES AND EXPENSES								
	PROFESSIONAL SERVICES								

CONSULTANT SERV/SURVEY 6020
ABSTRACTING & RECORDIN 6023
LEGAL 6025
DATA PROCESSING 6035
MICROFILM PROCESSING 6037
OTHER PROFESSIONAL SER 6049

PROFESSIONAL SERVICE
COMMUNICATIONS
TELEPHONE AND TELEGRAP 6060
POSTAGE 6070

COMMUNICATIONS
TRANSPORTATION
TRAVEL EXPENSE 6110
FREIGHT 6120
MESSENGER/EXPRESS SERV 6130

TRANSPORTATION
ADVERTISING
ADVERTISING 6150

ADVERTISING
PRINTING AND BINDING
PRINTING 6200
BINDING 6205
BLUELINES 6210

PRINTING AND BINDING
INSURANCE
AUTOMOBILE INSURANCE 6265
SURETY AND FORGERY BON 6270

INSURANCE
REPR/MAINT-OUTSIDE LABO
BUILDING R&M 6350
OFFICE EQUIPMENT R&M 6365
MOTOR VEHICLE EQ. R&M 6384
COMMUNICATION EQ. R&M 6390
OTHER REPAIRS AND MAIN 6399

REPR/MAINT-OUTSIDE L
RENTALS
OFFICE EQUIPMENT RENT 6410

RENTALS
OTHER SERVICES & CHARGE
REFUNDS
DUES AND MEMBERSHIPS 6840
REGISTRATION FEE/TUITI 6845
SERVICES NOT SPECIFIED 6999

OTHER SERVICES & CHA

OTHER SERVICES & CHAR

MACHINERY AND EQUIPMENT

HOUSEHOLD FURN/EQUIP.	7320
OFFICE FURN/EQUIP.	7325
DATA PROCESSING EQUIP.	7327
COMMUNICATION EQUIPMEN	7355
OTHER EQUIPMENT	7399

MACHINERY AND EQUIPM

VEHICLES

AUTOMOBILES	7400

VEHICLES

CAPITAL OUTLAY

EXPENDITURES

001042 - GENERAL FUND-ACCOUNTING DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
12997	REGULAR WAGES	4000	208959		51631	157328	33.3	24.7	54,065-	25.8-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
12997	SALARIES		208959		51631	157328	33.3	24.7	54,065-	25.8-
	EMPLOYEE BENEFITS									
2047	STATE RETIREMENT	4600	32911		8132	24779	33.3	24.7	8,515-	25.8-
984	F.I.C.A. TAXES	4700	15985		3909	12076	33.3	24.4	4,257-	26.6-
2500	HOSPITALIZATION INS.	4800	33000		13050	19950	33.3	39.5	6,150	18.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	745			745	33.3		745-	100.0-
5531	EMPLOYEE BENEFITS		83141		25091	58050	33.3	30.1	7,867-	9.4-
18528	PERSONAL SERVICES		292100		76722	215378	33.3	26.2	61,934-	21.2-
	OFFICE SUPPLIES									
115	PAPER	5003	580		115	465	33.3	19.8	234-	40.3-
	PRINTED FORMS	5005	1650			1650	33.3		1,650-	100.0-
123	OTHER EXPENDABLE OFF.S	5010	993		151	842	33.3	15.2	539-	54.2-
	MINOR OFFICE EQUIP/FUR	5020								
	MICROFILM SUPPLIES	5030								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	675			675	33.3		675-	100.0-
238	OFFICE SUPPLIES		3898		266	3632	33.3	6.8	3,100-	79.5-
	OPERATING SUPPLIES									
32	CLEANING/JANITORIAL SP	5100	1000		32	968	33.3	3.2	904-	90.4-
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590								
32	OPERATING SUPPLIES		1000		32	968	33.3	3.2	904-	90.4-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	7			7	33.3		7-	100.0-
	MINOR COMPUTER EQUIP.	5800	800		250	550	33.3	31.2	50-	6.2-
	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE		807		250	557	33.3	30.9	57-	7.0-
270	SUPPLIES AND EXPENSES		5705		548	5157	33.3	9.6	4,061-	71.1-

	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
	DATA PROCESSING	6035								
	MICROFILM PROCESSING	6037								
	OTHER PROFESSIONAL SER	6049	1500			1500	33.3		1,500-	100.0-
	PROFESSIONAL SERVICE		1500			1500	33.3		1,500-	100.0-
	COMMUNICATIONS									
14	TELEPHONE AND TELEGRAP	6060	200		24	176	33.3	12.0	128-	64.0-
	POSTAGE	6070								
14	COMMUNICATIONS		200		24	176	33.3	12.0	128-	64.0-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120	100			100	33.3		100-	100.0-
	MESSENGER/EXPRESS SERV	6130	60		55	5	33.3	91.6	105	175.0
	TRANSPORTATION		160		55	105	33.3	34.3	5	3.1
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	1370			1370	33.3		1,370-	100.0-
	BINDING	6205								
	PRINTING AND BINDING		1370			1370	33.3		1,370-	100.0-
	INSURANCE									
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	OFFICE EQUIPMENT R&M	6365	200			200	33.3		200-	100.0-
	OTHER REPAIRS AND MAIN	6399	300	300			33.3		300-	100.0-
	REPR/MAINT-OUTSIDE L		500	300		200	33.3		500-	100.0-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
14	OTHER SERVICES & CHAR		3730	300	79	3351	33.3	2.1	3,492-	93.6-
	MACHINERY AND EQUIPMENT									

	OFFICE FURN/EQUIP. 7325									
	DATA PROCESSING EQUIP. 7327									
	OTHER EQUIPMENT 7399									
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
18813	EXPENDITURES	301535	300	77350	223885	33.3	25.6	69,485-	23.0-

001045 - GENERAL FUND-PURCHASING DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
7831	REGULAR WAGES	4000	102000		31369	70631	33.3	30.7	7,892-	7.7-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	500			500	33.3		500-	100.0-
	DISASTER RECOVERY OVER	4310								
7831	SALARIES		102500		31369	71131	33.3	30.6	8,392-	8.1-
	EMPLOYEE BENEFITS									
1233	STATE RETIREMENT	4600	16144		4941	11203	33.3	30.6	1,320-	8.1-
569	F.I.C.A. TAXES	4700	7841		2281	5560	33.3	29.0	997-	12.7-
1500	HOSPITALIZATION INS.	4800	19800		7500	12300	33.3	37.8	2,700	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	359			359	33.3		359-	100.0-
3303	EMPLOYEE BENEFITS		44644		14722	29922	33.3	32.9	478-	1.0-
11133	PERSONAL SERVICES		147144		46091	101053	33.3	31.3	8,870-	6.0-
	OFFICE SUPPLIES									
	PAPER	5003	2500		107	2393	33.3	4.2	2,178-	87.1-
	PRINTED FORMS	5005								
282	OTHER EXPENDABLE OFF.S	5010	1804	154	719	931	33.3	39.8	353	19.5
1547	MINOR OFFICE EQUIP/FUR	5020	3100	829	1892	379	33.3	61.0	2,576	83.0
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
1829	OFFICE SUPPLIES		7404	983	2718	3703	33.3	36.7	750	10.1
	OPERATING SUPPLIES									
	MINOR EQUIPMENT	5460								
100	OTHER OPERATING MATL/S	5590	400		207	193	33.3	51.7	221	55.2
100	OPERATING SUPPLIES		400		207	193	33.3	51.7	221	55.2
1930	SUPPLIES AND EXPENSES		7804	983	2925	3897	33.3	37.4	971	12.4
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
	DATA PROCESSING	6035								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								

	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	2000			2000	33.3		2,000-	100.0-
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		2000			2000	33.3		2,000-	100.0-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BINDING	6205								
	PRINTING AND BINDING									
	INSURANCE									
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
115	OFFICE EQUIPMENT R&M	6365	1280		460	820	33.3	35.9	100	7.8
	OTHER REPAIRS AND MAIN	6399								
115	REPR/MAINT-OUTSIDE L		1280		460	820	33.3	35.9	100	7.8
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	RENTALS									
	OTHER SERVICES & CHARGE									
105	DUES AND MEMBERSHIPS	6840	500		185	315	33.3	37.0	55	11.0
	REGISTRATION FEE/TUITI	6845	2000			2000	33.3		2,000-	100.0-
	SERVICES NOT SPECIFIED	6999								
105	OTHER SERVICES & CHA		2500		185	2315	33.3	7.4	1,944-	77.7-
220	OTHER SERVICES & CHAR		5780		645	5135	33.3	11.1	3,844-	66.5-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									

13283	EXPENDITURES	160728	983	49661	110084	33.3	30.8	11,744-	7.3-

001060 - GENERAL FUND-CITY ATTORNEY

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
5923	REGULAR WAGES	4000	77000		23692	53308	33.3	30.7	5,924-	7.6-
	OVERTIME	4300								
5923	SALARIES		77000		23692	53308	33.3	30.7	5,924-	7.6-
	EMPLOYEE BENEFITS									
933	STATE RETIREMENT	4600	12128		3732	8396	33.3	30.7	932-	7.6-
452	F.I.C.A. TAXES	4700	5891		1808	4083	33.3	30.6	467-	7.9-
	HOSPITALIZATION INS.	4800	6600		2000	4600	33.3	30.3	600-	9.0-
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910	257			257	33.3		257-	100.0-
1385	EMPLOYEE BENEFITS		24876		7540	17336	33.3	30.3	2,256-	9.0-
7308	PERSONAL SERVICES		101876		31232	70644	33.3	30.6	8,180-	8.0-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020								
	BOOKS	5070								
	OTHER OPERATING MATL/S	5590								
	OFFICE SUPPLIES									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
	LEGAL	6025	7000			7000	33.3		7,000-	100.0-
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE		7000			7000	33.3		7,000-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	1000		600	400	33.3	60.0	800	80.0
	TRANSPORTATION		1000		600	400	33.3	60.0	800	80.0
	PRINTING AND BINDING									
	PRINTING	6200								

	PRINTING AND BINDING									
	OTHER SERVICES & CHARGE									
	COURT COSTS	6710	100			100	33.3		100-	100.0-
	DUES AND MEMBERSHIPS	6840	325		310	15	33.3	95.3	605	186.1
	REGISTRATION FEE/TUITI	6845	675		30	645	33.3	4.4	585-	86.6-
	OTHER SERVICES & CHA		1100		340	760	33.3	30.9	80-	7.2-
	OTHER SERVICES & CHAR		9100		940	8160	33.3	10.3	6,280-	69.0-
	MACHINERY AND EQUIPMENT									
	CAPITAL OUTLAY									
7308	EXPENDITURES		110976		32172	78804	33.3	28.9	14,460-	13.0-

001080 - GENERAL FUND-HUMAN RESOURCES

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
10174	REGULAR WAGES	4000	132264		40696	91568	33.3	30.7	10,176-	7.6-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
10174	SALARIES		132264		40696	91568	33.3	30.7	10,176-	7.6-
	EMPLOYEE BENEFITS									
1602	STATE RETIREMENT	4600	20832		6410	14422	33.3	30.7	1,602-	7.6-
744	F.I.C.A. TAXES	4700	10118		2976	7142	33.3	29.4	1,190-	11.7-
1500	HOSPITALIZATION INS.	4800	19800		7500	12300	33.3	37.8	2,700	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	531			531	33.3		531-	100.0-
3846	EMPLOYEE BENEFITS		51781		16886	34895	33.3	32.6	1,123-	2.1-
14021	PERSONAL SERVICES		184045		57582	126463	33.3	31.2	11,299-	6.1-
	OFFICE SUPPLIES									
492	PAPER	5003	3000		942	2058	33.3	31.4	174-	5.8-
	PRINTED FORMS	5005	1200			1200	33.3		1,200-	100.0-
119	OTHER EXPENDABLE OFF.S	5010	1000	113	211	676	33.3	21.1	366-	36.6-
	MINOR OFFICE EQUIP/FUR	5020	300			300	33.3		300-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050	300			300	33.3		300-	100.0-
	BOOKS	5070	100			100	33.3		100-	100.0-
176	COMPUTER SUPPLIES	5080	3000		176	2824	33.3	5.8	2,472-	82.4-
787	OFFICE SUPPLIES		8900	113	1329	7458	33.3	14.9	4,912-	55.1-
	OPERATING SUPPLIES									
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590								
	OPERATING SUPPLIES									
787	SUPPLIES AND EXPENSES		8900	113	1329	7458	33.3	14.9	4,912-	55.1-
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
1107	OTHER PROFESSIONAL SER	6049	14400		4379	10022	33.3	30.4	1,262-	8.7-
1107	PROFESSIONAL SERVICE		14400		4379	10022	33.3	30.4	1,262-	8.7-
	COMMUNICATIONS									
18	TELEPHONE AND TELEGRAP	6060	100		10	90	33.3	10.0	70-	70.0-
	POSTAGE	6070	20			20	33.3		20-	100.0-

18	COMMUNICATIONS		120		10	110	33.3	8.3	90-	75.0-
	TRANSPORTATION									
271-	TRAVEL EXPENSE	6110			1043-	1043			3,129	
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130	100			100	33.3		100-	100.0-
271-	TRANSPORTATION		100		1043-	1143	33.3	43.0	3,029	29.0
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	200			200	33.3		200-	100.0-
	BINDING	6205								
	PRINTING AND BINDING		200			200	33.3		200-	100.0-
	INSURANCE									
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
531	OFFICE EQUIPMENT R&M	6365	5500		1911	3589	33.3	34.7	233	4.2
531	REPR/MAINT-OUTSIDE L		5500		1911	3589	33.3	34.7	233	4.2
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840	200			200	33.3		200-	100.0-
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA		200			200	33.3		200-	100.0-
1385	OTHER SERVICES & CHAR		20520		5257	15263	33.3	25.6	4,748-	23.1-
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
16193	EXPENDITURES		213465	113	64168	149184	33.3	30.0	20,961-	9.8-

001081 - GENERAL FUND-LOSS CONTROL

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
6045	REGULAR WAGES	4000	78587		24181	54406	33.3	30.7	6,043-	7.6-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
6045	SALARIES		78587		24181	54406	33.3	30.7	6,043-	7.6-
	EMPLOYEE BENEFITS									
952	STATE RETIREMENT	4600	12377		3809	8568	33.3	30.7	949-	7.6-
435	F.I.C.A. TAXES	4700	6012		1741	4271	33.3	28.9	788-	13.1-
1000	HOSPITALIZATION INS.	4800	13200		5000	8200	33.3	37.8	1,800	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	943			943	33.3		943-	100.0-
2387	EMPLOYEE BENEFITS		33032		10549	22483	33.3	31.9	1,384-	4.1-
8433	PERSONAL SERVICES		111619		34730	76889	33.3	31.1	7,429-	6.6-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005	383	104		279	33.3		383-	100.0-
133	OTHER EXPENDABLE OFF.S	5010	1248	247	210	791	33.3	16.8	618-	49.5-
	MINOR OFFICE EQUIP/FUR	5020	300			300	33.3		300-	100.0-
	PHOTO SUPPLIES	5040	100		24	76	33.3	24.0	28-	28.0-
	SUBSCRIPTIONS,MAGS,MAP	5050	350			350	33.3		350-	100.0-
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
133	OFFICE SUPPLIES		2381	351	234	1795	33.3	9.8	1,679-	70.5-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	MEDICAL SUPPLIES	5120	150			150	33.3		150-	100.0-
106	GAS AND OIL	5250	2000		584	1416	33.3	29.2	248-	12.4-
	LUBRICANTS	5255								
	WEARING APPAREL	5355	300			300	33.3		300-	100.0-
	MINOR EQUIPMENT	5460	1000			1000	33.3		1,000-	100.0-
	OTHER OPERATING MATL/S	5590								
106	OPERATING SUPPLIES		3450		584	2866	33.3	16.9	1,698-	49.2-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	MTR VEHICLE REP. PTS/S	5700	1107		7	1100	33.3	.6	1,085-	98.0-
	COMMUNICATION REPAIR P	5750								

	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE		1107		7	1100	33.3	.6	1,085-	98.0-
239	SUPPLIES AND EXPENSES		6938	351	826	5761	33.3	11.9	4,460-	64.2-
	COMMUNICATIONS									
110	TELEPHONE AND TELEGRAP	6060	760		139	621	33.3	18.2	342-	45.0-
	POSTAGE	6070								
110	COMMUNICATIONS		760		139	621	33.3	18.2	342-	45.0-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365								
	HOUSEHOLD EQUIPMENT R&	6370								
	MOTOR VEHICLE EQ. R&M	6384	300			300	33.3		300-	100.0-
	COMMUNICATION EQ. R&M	6390								
	CLEANING AND PAINTING	6392								
	OTHER REPAIRS AND MAIN	6399	1800			1800	33.3		1,800-	100.0-
	REPR/MAINT-OUTSIDE L		2100			2100	33.3		2,100-	100.0-
	RENTALS									
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
110	OTHER SERVICES & CHAR		2860		139	2721	33.3	4.8	2,442-	85.3-

	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
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	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
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	VEHICLES									
---			---	---	---	---	---	---	---	---
	CAPITAL OUTLAY									
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8782	EXPENDITURES		121417	351	35695	85371	33.3	29.3	14,331-	11.8-

001090 - GENERAL FUND-URBAN DEVELOPMT

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
26669	REGULAR WAGES	4000	416446		106669	309777	33.3	25.6	96,438-	23.1-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	300			300	33.3		300-	100.0-
	DISASTER RECOVERY OVER	4310								
26669	SALARIES		416746		106669	310077	33.3	25.5	96,738-	23.2-
	EMPLOYEE BENEFITS									
4200	STATE RETIREMENT	4600	65637		16800	48837	33.3	25.5	15,237-	23.2-
1944	F.I.C.A. TAXES	4700	31882		7770	24112	33.3	24.3	8,572-	26.8-
5000	HOSPITALIZATION INS.	4800	79200		26100	53100	33.3	32.9	900-	1.1-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	3835			3835	33.3		3,835-	100.0-
11144	EMPLOYEE BENEFITS		181054		50671	130383	33.3	27.9	29,040-	16.0-
37813	PERSONAL SERVICES		597800		157340	440460	33.3	26.3	125,780-	21.0-
	OFFICE SUPPLIES									
87	PAPER	5003	1560	60	478	1022	33.3	30.6	126-	8.0-
	PRINTED FORMS	5005								
16	OTHER EXPENDABLE OFF.S	5010	3332	131	232	2969	33.3	6.9	2,636-	79.1-
35	N.I.P. SUPPLIES	5011	12495	521	1109	10866	33.3	8.8	9,167-	73.3-
	CITIZENS CORPS GRANT S	5012								
	MIDTOWN STUDY GRANT SU	5013								
	NLC HEALTH OUTREACH SU	5014	2000			2000	33.3		2,000-	100.0-
	DOLLARWISE GRANT/CONF	5015								
	MINOR OFFICE EQUIP/FUR	5020	1455		333	1122	33.3	22.8	455-	31.2-
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	360	60		300	33.3		360-	100.0-
	COMPUTER SUPPLIES	5080	3000		311	2689	33.3	10.3	2,066-	68.8-
138	OFFICE SUPPLIES		24202	772	2462	20968	33.3	10.1	16,816-	69.4-
	OPERATING SUPPLIES									
7	FOOD	5115	250		15	235	33.3	6.0	204-	81.6-
23	GAS AND OIL	5250	2000		277	1724	33.3	13.8	1,168-	58.4-
	LUBRICANTS	5255								
	MINOR EQUIPMENT	5460	200			200	33.3		200-	100.0-
	OTHER OPERATING MATL/S	5590	400			400	33.3		400-	100.0-
30	OPERATING SUPPLIES		2850		292	2558	33.3	10.2	1,974-	69.2-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	300			300	33.3		300-	100.0-

	PAINT AND PAINTING SPL	5650	150			150	33.3		150-	100.0-
116	MTR VEHICLE REP. PTS/S	5700	900		620	280	33.3	68.8	960	106.6
	OTHER REPAIR/MAINT. SP	5990								
116	REPAIR & MAINTENANCE		1350		620	730	33.3	45.9	510	37.7
284	SUPPLIES AND EXPENSES		28402	772	3374	24256	33.3	11.8	18,280-	64.3-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
280	CONSULTANT SERV/SURVEY	6020	10000		6063	3937	33.3	60.6	8,189	81.8
	CONSULTANT SERV-TWIN F	6020 01								
	CONSULTANT SERV-MIDTOW	6020 02	15000		489	14511	33.3	3.2	13,532-	90.2-
	ABSTRACTING & RECORDIN	6023								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049	11500			11500	33.3		11,500-	100.0-
	OTHER PROF SERV-NLC OU	6049 98								
280	PROFESSIONAL SERVICE		36500		6552	29948	33.3	17.9	16,844-	46.1-
	COMMUNICATIONS									
677	TELEPHONE AND TELEGRAP	6060	3800		867	2933	33.3	22.8	1,198-	31.5-
	POSTAGE	6070	100			100	33.3		100-	100.0-
677	COMMUNICATIONS		3900		867	3033	33.3	22.2	1,298-	33.2-
	TRANSPORTATION									
478	TRAVEL EXPENSE	6110	10400	214	2612	7575	33.3	25.1	2,564-	24.6-
	TRVL EXP-MIDTOWN STDY	6111								
	TRVL EXP-NLC HEALTH OU	6112								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130	100			100	33.3		100-	100.0-
478	TRANSPORTATION		10500	214	2612	7675	33.3	24.8	2,664-	25.3-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	3700		289	3411	33.3	7.8	2,832-	76.5-
	PRINTING-GRANT RELATED	6202								
	BLUELINES	6210								
	FILM PROCESSING	6240								
	PRINTING AND BINDING		3700		289	3411	33.3	7.8	2,832-	76.5-
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	OFFICE EQUIPMENT R&M	6365								
	MOTOR VEHICLE EQ. R&M	6384								

	SIGN PAINTING	6396								
90	OTHER REPAIRS AND MAIN	6399	300		90	210	33.3	30.0	30-	10.0-
90	REPR/MAINT-OUTSIDE L		300		90	210	33.3	30.0	30-	10.0-
	RENTALS									
369	OFFICE EQUIPMENT RENT	6410	8000		1476	6524	33.3	18.4	3,572-	44.6-
	OTHER RENT	6449								
369	RENTALS		8000		1476	6524	33.3	18.4	3,572-	44.6-
	OTHER SERVICES & CHARGE									
	EXHIBITIONS & PROMOTIO	6500								
450	DUES AND MEMBERSHIPS	6840	2150		1060	1090	33.3	49.3	1,030	47.9
1540	REGISTRATION FEE/TUITI	6845	4000		1671	2329	33.3	41.7	1,013	25.3
	SERVICES NOT SPECIFIED	6999								
1990	OTHER SERVICES & CHA		6150		2731	3419	33.3	44.4	2,043	33.2
3885	OTHER SERVICES & CHAR		69050	214	14617	54220	33.3	21.1	25,198-	36.4-
	MACHINERY AND EQUIPMENT									
	PHOTOGRAPHIC EQUIP.	7308								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY									
41982	EXPENDITURES		695252	986	175331	518936	33.3	25.2	169,258-	24.3-

001091 - GENERAL FUND-INFO TECHNOLOGY

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
21030	REGULAR WAGES	4000	273393		84121	189272	33.3	30.7	21,029-	7.6-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
21030	SALARIES		273393		84121	189272	33.3	30.7	21,029-	7.6-
	EMPLOYEE BENEFITS									
3312	STATE RETIREMENT	4600	43059		13249	29810	33.3	30.7	3,311-	7.6-
1499	F.I.C.A. TAXES	4700	20915		5996	14919	33.3	28.6	2,927-	13.9-
3500	HOSPITALIZATION INS.	4800	46200		17500	28700	33.3	37.8	6,300	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	1055			1055	33.3		1,055-	100.0-
8311	EMPLOYEE BENEFITS		111729		36745	74984	33.3	32.8	1,493-	1.3-
29341	PERSONAL SERVICES		385122		120866	264256	33.3	31.3	22,524-	5.8-
	OFFICE SUPPLIES									
	PAPER	5003	2500		92	2408	33.3	3.6	2,224-	88.9-
	PRINTED FORMS	5005								
18	OTHER EXPENDABLE OFF.S	5010	1500		36	1464	33.3	2.4	1,392-	92.8-
	MINOR OFFICE EQUIP/FUR	5020								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
3243	COMPUTER SUPPLIES	5080	50000		16352	33648	33.3	32.7	944-	1.8-
	COMPUTR SUP-PURCHASE C	5081								
3262	OFFICE SUPPLIES		54000		16480	37520	33.3	30.5	4,560-	8.4-
	OPERATING SUPPLIES									
38	GAS AND OIL	5250	800		242	558	33.3	30.2	74-	9.2-
	UNIFORMS, BADGES, ETC.	5350								
	MINOR EQUIPMENT	5460	1000		440	560	33.3	44.0	320	32.0
	OTHER OPERATING MATL/S	5590								
38	OPERATING SUPPLIES		1800		682	1118	33.3	37.8	246	13.6
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	MTR VEHICLE REP. PTS/S	5700	300			300	33.3		300-	100.0-
	MINOR COMPUTER EQUIP.	5800	1500			1500	33.3		1,500-	100.0-
	REPAIR & MAINTENANCE		1800			1800	33.3		1,800-	100.0-
3299	SUPPLIES AND EXPENSES		57600		17162	40438	33.3	29.7	6,114-	10.6-

	PROFESSIONAL SERVICES									
1844	DATA PROCESSING	6035	35000	13,800	2905	18295	33.3	8.3	26,284-	75.0-
75	OTHER PROFESSIONAL SER	6049	3000		2903	97	33.3	96.7	5,709	190.3
1919	PROFESSIONAL SERVICE		38000	13,800	5808	18392	33.3	15.2	20,576-	54.1-
	COMMUNICATIONS									
631	TELEPHONE AND TELEGRAP	6060	3000		814	2186	33.3	27.1	558-	18.6-
35921	NETWORK	6068	175000		64795	110205	33.3	37.0	19,385	11.0
2401	NETWORK WIRELESS	6069	26000		10216	15784	33.3	39.2	4,648	17.8
	POSTAGE	6070								
38952	COMMUNICATIONS		204000		75826	128174	33.3	37.1	23,478	11.5
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120	100			100	33.3		100-	100.0-
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		100			100	33.3		100-	100.0-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BINDING	6205								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	ELECTRICAL R&M	6355								
25519	OFFICE EQUIPMENT R&M	6365	285000		84127	200873	33.3	29.5	32,618-	11.4-
	MOTOR VEHICLE EQ. R&M	6384	100			100	33.3		100-	100.0-
	TOW IN CHARGES	6398								
25519	REPR/MAINT-OUTSIDE L		285100		84127	200973	33.3	29.5	32,718-	11.4-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
66391	OTHER SERVICES & CHAR		527200	13,800	165761	347639	33.3	31.4	29,916-	5.6-

	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
23119	DATA PROCESSING EQUIP.	7327	100000	6,570	79704	13726	33.3	79.7	139,112	139.1
	FINANCIAL SOFTWARE	7328	75000		70837	4163	33.3	94.4	137,511	183.3
	DOM PREP GRANT 06HS205	7332								
12604	PUBLIC SAFETY SOFTWARE	7333	150000		50414	99586	33.3	33.6	1,242	.8
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
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35722	MACHINERY AND EQUIPM		325000	6,570	200956	117474	33.3	61.8	277,868	85.4
	VEHICLES									
	AUTOMOBILES	7400								
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	VEHICLES									
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35722	CAPITAL OUTLAY		325000	6,570	200956	117474	33.3	61.8	277,868	85.4
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134754	EXPENDITURES		1294922	20,370	504745	769807	33.3	38.9	219,313	16.9

001092 - GENERAL FUND-GEN.GOVT.BLDG

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
	OVERTIME	4300								
	SALARIES									
	EMPLOYEE BENEFITS									
	STATE RETIREMENT	4600								
	F.I.C.A. TAXES	4700								
	HOSPITALIZATION INS.	4800								
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910								
	EMPLOYEE BENEFITS									
	PERSONAL SERVICES									
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	250			250	33.3		250-	100.0-
	OFFICE SUPPLIES		250			250	33.3		250-	100.0-
	OPERATING SUPPLIES									
50	CLEANING/JANITORIAL SP	5100	3075	75	1435	1565	33.3	46.6	1,230	40.0
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	2500		688	1812	33.3	27.5	436-	17.4-
	DIESEL FUEL	5257								
	HORT./LANDSCAPING SPLY	5440	2250		833	1418	33.3	37.0	249	11.0
	HAND TOOLS	5450	25			25	33.3		25-	100.0-
172	MINOR EQUIPMENT	5460	4150		422	3728	33.3	10.1	2,884-	69.4-
	OTHER OPERATING MATL/S	5590	200		40	160	33.3	20.0	80-	40.0-
222	OPERATING SUPPLIES		12200	75	3417	8708	33.3	28.0	1,948-	15.9-
	REPAIR & MAINTENANCE SP									
50	BUILDING MATERIALS & S	5600	4035		50	3985	33.3	1.2	3,885-	96.2-
	ELECTRICAL SUPPLIES	5605	2800		1199	1601	33.3	42.8	797	28.4
	PLUMBING SUPPLIES	5610	3000			3000	33.3		3,000-	100.0-
	PAINT AND PAINTING SPL	5650	2000			2000	33.3		2,000-	100.0-
	OTHER REPAIR/MAINT. SP	5990	100			100	33.3		100-	100.0-
50	REPAIR & MAINTENANCE		11935		1249	10686	33.3	10.4	8,187-	68.5-

272	SUPPLIES AND EXPENSES		24385	75	4667	19643	33.3	19.1	10,383-	42.5-
	PROFESSIONAL SERVICES									
	BUILDING SECURITY	6021	2000		1440	560	33.3	72.0	2,320	116.0
3889	OTHER PROFESSIONAL SER	6049	30039	39	10254	19746	33.3	34.1	723	2.4
3889	PROFESSIONAL SERVICE		32039	39	11694	20306	33.3	36.4	3,043	9.4
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	TELEPHONE-EATON SCHOOL	6060 GRANT								
	COMMUNICATIONS									
	TRANSPORTATION									
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	INSURANCE									
	UTILITIES									
25	GAS	6300	3500		100	3400	33.3	2.8	3,200-	91.4-
	GAS-TRAIN DEPOT	6300 DEPOT								
	GAS-EATON SCHOOL	6300 GRANT								
3332	ELECTRICITY	6305	50000		12488	37512	33.3	24.9	12,536-	25.0-
	ELECTRICITY-EMP MED CL	6305 CLINIC								
	ELECTRICITY-TRAIN DEPO	6305 DEPOT								
	ELECTRICITY-EATON SCHO	6305 GRANT								
3357	UTILITIES		53500		12588	40912	33.3	23.5	15,736-	29.4-
	REPR/MAINT-OUTSIDE LABO									
14610	BUILDING R&M	6350	69085	57,610	33016	21541-	33.3	47.7	29,963	43.3
	ELECTRICAL R&M	6355	1000		160	840	33.3	16.0	520-	52.0-
	PLUMBING EQUIPMENT R&M	6357	1000			1000	33.3		1,000-	100.0-
	HOUSEHOLD EQUIPMENT R&	6370	7030	30	115	6885	33.3	1.6	6,684-	95.0-
1176	FIXED EQUIPMENT R&M	6380	10030	30	2352	7648	33.3	23.4	2,974-	29.6-
	MINOR EQUIPMENT R&M	6382								
	CLEANING AND PAINTING	6392	3900			3900	33.3		3,900-	100.0-
	EXTERMINATION-DEPOT	6393								
113	DISINFECT./EXTERMINATI	6394	1250		226	1024	33.3	18.0	572-	45.7-
	OTHER REPAIRS AND MAIN	6399	500			500	33.3		500-	100.0-
15899	REPR/MAINT-OUTSIDE L		93795	57,670	35869	256	33.3	38.2	13,812	14.7
	RENTALS									
	MOP-MAT-RAG RENT	6435								
1100	OTHER RENT	6449	14000		5500	8500	33.3	39.2	2,500	17.8
1100	RENTALS		14000		5500	8500	33.3	39.2	2,500	17.8
	OTHER SERVICES & CHARGE									
	CUSTODIAL SERVICE	6870								

	OTHER SERVICES & CHA									
24245	OTHER SERVICES & CHAR		193334	57,709	65651	69974	33.3	33.9	3,619	1.8
	LAND									
	LAND	7000								
	LAND									
	BUILDING/BLD IMPROVEMEN									
70000	BUILDINGS		44889		114858	69969-	33.3	255.8	299,685	667.6
70000	BUILDING/BLD IMPROVE		44889		114858	69969-	33.3	255.8	299,685	667.6
	IMPROVEMENT OTHER THAN									
	LANDSCAPING	7250								
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
70000	CAPITAL OUTLAY		44889		114858	69969-	33.3	255.8	299,685	667.6
94517	EXPENDITURES		262608	57,784	185176	19649	33.3	70.5	292,920	111.5

001093 - GENERAL FD-INTERMODAL FAC O&M

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
	OVERTIME	4300								
	SALARIES									
	EMPLOYEE BENEFITS									
	STATE RETIREMENT	4600								
	F.I.C.A. TAXES	4700								
	HOSPITALIZATION INS.	4800								
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910								
	EMPLOYEE BENEFITS									
	PERSONAL SERVICES									
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020	350			350	33.3		350-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
	OFFICE SUPPLIES		350			350	33.3		350-	100.0-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	1000		435	565	33.3	43.5	305	30.5
	GAS AND OIL	5250								
	LUBRICANTS	5255								
	HORT./LANDSCAPING SPLY	5440	950			950	33.3		950-	100.0-
523	MINOR EQUIPMENT	5460	650		523	128	33.3	80.4	919	141.3
	OTHER OPERATING MATL/S	5590	211			211	33.3		211-	100.0-
523	OPERATING SUPPLIES		2811		957	1854	33.3	34.0	60	2.1
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	600			600	33.3		600-	100.0-
	ELECTRICAL SUPPLIES	5605	3589		545	3044	33.3	15.1	1,953-	54.4-
	PLUMBING SUPPLIES	5610	600	145	179	276	33.3	29.8	62-	10.3-
	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700								
	AGRICLTRL REPAIR PTS/S	5755								
	OTHER REPAIR/MAINT. SP	5990	800			800	33.3		800-	100.0-

	REPAIR & MAINTENANCE		5589	145	724	4720	33.3	12.9	3,417-	61.1-
523	SUPPLIES AND EXPENSES		8750	145	1681	6924	33.3	19.2	3,706-	42.3-
	PROFESSIONAL SERVICES									
	BUILDING SECURITY	6021								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
20	FREIGHT	6120	20		20		33.3	100.0	40	200.0
	MESSENGER/EXPRESS SERV	6130	20			20-	33.3		20-	100.0-
20	TRANSPORTATION				20	20-	33.3		60	100.0-
	ADVERTISING									
	ADVERTISING	6150	2600			2600	33.3		2,600-	100.0-
	ADVERTISING		2600			2600	33.3		2,600-	100.0-
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	UTILITIES									
	GAS	6300								
3496	ELECTRICITY	6305	50000		10747	39253	33.3	21.4	17,758-	35.5-
3496	UTILITIES		50000		10747	39253	33.3	21.4	17,758-	35.5-
	REPR/MAINT-OUTSIDE LABO									
11116	BUILDING R&M	6350	28286		18853	9433	33.3	66.6	28,273	99.9
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365								
	MOTOR VEHICLE EQ. R&M	6384								
85	DISINFECT./EXTERMINATI	6394			1035	1035-			3,105	
	SIGN PAINTING	6396								
	OTHER REPAIRS AND MAIN	6399	12891		1026	11865	33.3	7.9	9,813-	76.1-
11201	REPR/MAINT-OUTSIDE L		41177		20914	20263	33.3	50.7	21,565	52.3
	RENTALS									
	UNIFORM RENT	6430	400		46	355	33.3	11.5	262-	65.5-
	OTHER RENT	6449								

	RENTALS		400		46	355	33.3	11.5	262-	65.5-
	OTHER SERVICES & CHARGE									
	EXHIBITIONS & PROMOTIO	6500								
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	CUSTODIAL SERVICE	6870								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
14717	OTHER SERVICES & CHAR		94177		31727	62450	33.3	33.6	1,004	1.0
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
15591	OTHER EQUIPMENT	7399	100000	84,409	15591		33.3	15.5	53,226-	53.2-
15591	MACHINERY AND EQUIPM		100000	84,409	15591		33.3	15.5	53,226-	53.2-
15591	CAPITAL OUTLAY		100000	84,409	15591		33.3	15.5	53,226-	53.2-
30830	EXPENDITURES		202927	84,554	48999	69374	33.3	24.1	55,929-	27.5-

001094 - GENERAL FUND-METRPLTN PLANG.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
13763	REGULAR WAGES	4000	178915		54390	124525	33.3	30.3	15,745-	8.8-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	500			500	33.3		500-	100.0-
	DISASTER RECOVERY OVER	4310								
13763	SALARIES		179415		54390	125025	33.3	30.3	16,245-	9.0-
	EMPLOYEE BENEFITS									
2168	STATE RETIREMENT	4600	28258		8566	19692	33.3	30.3	2,560-	9.0-
984	F.I.C.A. TAXES	4700	13725		3887	9838	33.3	28.3	2,063-	15.0-
2500	HOSPITALIZATION INS.	4800	33000		12500	20500	33.3	37.8	4,500	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	572			572	33.3		572-	100.0-
5652	EMPLOYEE BENEFITS		76055		24953	51102	33.3	32.8	1,195-	1.5-
19415	PERSONAL SERVICES		255470		79344	176126	33.3	31.0	17,438-	6.8-
	OFFICE SUPPLIES									
	PAPER	5003	1000			1000	33.3		1,000-	100.0-
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	2500		613	1887	33.3	24.5	660-	26.4-
	MINOR OFFICE EQUIP/FUR	5020	1525		2144	619-	33.3	140.5	4,907	321.7
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	3000		16	2984	33.3	.5	2,952-	98.4-
	OFFICE SUPPLIES		8025		2773	5252	33.3	34.5	294	3.6
	OPERATING SUPPLIES									
	FOOD	5115	100	45		55	33.3		100-	100.0-
35	GAS AND OIL	5250	1000		145	855	33.3	14.5	564-	56.4-
	MINOR EQUIPMENT	5460								
	MTR VEHICLE REP. PTS/S	5700	700			700	33.3		700-	100.0-
35	OPERATING SUPPLIES		1800	45	145	1610	33.3	8.0	1,364-	75.7-
35	SUPPLIES AND EXPENSES		9825	45	2919	6861	33.3	29.7	1,067-	10.8-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	CONSULTANT SERV/SURVEY	6020	50400		22840	27560	33.3	45.3	18,120	35.9
	ABSTRACTING & RECORDIN	6023								
	LEGAL	6025								

	OTHER PROFESSIONAL SER	6049	5100			5100	33.3		5,100-	100.0-
	PROFESSIONAL SERVICE		55500		22840	32660	33.3	41.1	13,020	23.4
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	10000	800	1036	8164	33.3	10.3	6,892-	68.9-
	FREIGHT	6120								
62	MESSENGER/EXPRESS SERV	6130	500		124	376	33.3	24.8	128-	25.6-
62	TRANSPORTATION		10500	800	1160	8540	33.3	11.0	7,020-	66.8-
	ADVERTISING									
	ADVERTISING	6150	1000			1000	33.3		1,000-	100.0-
	ADVERTISING		1000			1000	33.3		1,000-	100.0-
	PRINTING AND BINDING									
	PRINTING	6200	700			700	33.3		700-	100.0-
	BLUELINES	6210								
	FILM PROCESSING	6240								
	PRINTING AND BINDING		700			700	33.3		700-	100.0-
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365	1300		1225	75	33.3	94.2	2,375	182.6
	REPR/MAINT-OUTSIDE L		1300		1225	75	33.3	94.2	2,375	182.6
	OTHER SERVICES & CHARGE									
	EXHIBITIONS & PROMOTIO									
	DUES AND MEMBERSHIPS	6840	1000			1000	33.3		1,000-	100.0-
	REGISTRATION FEE/TUITI	6845	3500		100	3400	33.3	2.8	3,200-	91.4-
40	SERVICES NOT SPECIFIED	6999	1000		120	880	33.3	12.0	640-	64.0-
40	OTHER SERVICES & CHA		5500		220	5280	33.3	4.0	4,840-	88.0-
102	OTHER SERVICES & CHAR		74500	800	25445	48255	33.3	34.1	1,835	2.4
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	OTHER EQUIPMENT	7399	8044	8,044			33.3		8,044-	100.0-
	MACHINERY AND EQUIPM		8044	8,044			33.3		8,044-	100.0-
	VEHICLES									
	AUTOMOBILES	7400								
	VEHICLES									
	CAPITAL OUTLAY		8044	8,044			33.3		8,044-	100.0-
19552	EXPENDITURES		347839	8,889	107708	231243	33.3	30.9	24,715-	7.1-

001095 - GENERAL FUND-G/G INS.OTH SER

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
	OVERTIME	4300	1000			1000	33.3		1,000-	100.0-
	SALARIES		1000			1000	33.3		1,000-	100.0-
	EMPLOYEE BENEFITS									
	STATE RETIREMENT	4600								
	F.I.C.A. TAXES	4700								
	HOSPITALIZATION INS.	4800								
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910								
	EMPLOYEE BENEFITS									
	PERSONAL SERVICES		1000			1000	33.3		1,000-	100.0-
	OFFICE SUPPLIES									
	PAPER	5003	1000			1000	33.3		1,000-	100.0-
	PRINTED FORMS	5005								
	OFFICE SUPPLIES		1000			1000	33.3		1,000-	100.0-
	OPERATING SUPPLIES									
	FOOD	5115								
	DIESEL FUEL	5257								
	WEARING APPAREL	5355								
	OTHER OPERATING MATL/S	5590	200			200	33.3		200-	100.0-
	UNALLOC. PETROLEUM PRO	5599								
	OPERATING SUPPLIES		200			200	33.3		200-	100.0-
	REPAIR & MAINTENANCE SP									
	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE									
	SUPPLIES AND EXPENSES		1200			1200	33.3		1,200-	100.0-
	PROFESSIONAL SERVICES									
	AUDITING AND ACCOUNTIN	6010								
	TITLE OPINIONS	6016								
	APPRAISAL	6017								
	CONSULTANT SERV/SURVEY	6020								
	CONSULTANT-TWIN FORKS	6020 01								
	CONSULTANT-GORDONS CRK	6020 05								
39146	LEGAL	6025	400000		305930	94070	33.3	76.4	517,790	129.4

	CAFE PLAN-ADMIN.COSTS	6026	4500			4500	33.3		4,500-	100.0-
1940	MEDICAL	6027	37500		9929	27571	33.3	26.4	7,712-	20.5-
62743	MEDICAL ANALYSIS-EMP C	6027 01	384000		158039	225961	33.3	41.1	90,117	23.4
	UNALLOC.WELLNESS/HOSP.	6028	200			200	33.3		200-	100.0-
	IN-SERVICE TRAINING	6029	1250			1250	33.3		1,250-	100.0-
	ENTERTAINMENT	6033								
	DATA PROCESSING	6035								
	EMER.SHELTER/MDA GRANT	6040								
	I.P.-HYBERPLASTIC/MDA	6041								
	COPS-SECURE SCHLS/OJP	6042								
87	NLC FINANCIAL INITIATI	6043	30650		1558	29092	33.3	5.0	25,976-	84.7-
	CONTRIB FUNDED EVENTS		1500		29	1471	33.3	1.9	1,412-	94.1-
411	OTHER PROFESSIONAL SER	6049	919350		19827	899523	33.3	2.1	859,868-	93.5-
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104327	PROFESSIONAL SERVICE		1778950		495313	1283637	33.3	27.8	293,010-	16.4-
	COMMUNICATIONS									
9585	TELEPHONE AND TELEGRAP	6060	105000		57326	47674	33.3	54.5	66,978	63.7
	TELEPHONE RENT	6065								
	NETWORK	6068	1200			1200	33.3		1,200-	100.0-
75	POSTAGE	6070	55000		1282	53718	33.3	2.3	51,154-	93.0-
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9660	COMMUNICATIONS		161200		58607	102593	33.3	36.3	14,621	9.0
	TRANSPORTATION									
736	TRAVEL EXPENSE	6110	9300		1093	8207	33.3	11.7	6,020-	64.7-
	MESSENGER/EXPRESS SERV	6130								
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736	TRANSPORTATION		9300		1093	8207	33.3	11.7	6,020-	64.7-
	ADVERTISING									
939	UNALLOCATED ADVERTISIN	6155	15500		6234	9266	33.3	40.2	3,202	20.6
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939	ADVERTISING		15500		6234	9266	33.3	40.2	3,202	20.6
	PRINTING AND BINDING									
145	PRINTING	6200	4000		283	3717	33.3	7.0	3,150-	78.7-
	BINDING	6205								
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145	PRINTING AND BINDING		4000		283	3717	33.3	7.0	3,150-	78.7-
	INSURANCE									
	FIRE & EXTENDED COVERA	6250	200000			200000	33.3		200,000-	100.0-
103	PUBLIC LIAB/PROPERTY D	6255	450000		446856	3144	33.3	99.3	890,568	197.9
	BOILER MACHINERY	6260								
	SURETY AND FORGERY BON	6270	1000		761	239	33.3	76.1	1,283	128.3
1081	OTHER INSURANCE	6299	3810		2162	1648	33.3	56.7	2,676	70.2
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1184	INSURANCE		654810		449779	205031	33.3	68.6	694,527	106.0
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365								
	MOTOR VEHICLE EQ. R&M	6384								
	COMMUNICATION EQ. R&M	6390								
9152	OTHER REPAIRS AND MAIN	6399	34500	1,062	44591	11153-	33.3	129.2	99,273	287.7
	OTHER REPAIRS AND MAIN	6399 FBC								
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9152	REPR/MAINT-OUTSIDE L		34500	1,062	44591	11153-	33.3	129.2	99,273	287.7

	OTHER SERVICES & CHARGE									
	SETTLEMT OF DAMAGE CLA	6700	150000		150000		33.3	100.0	300,000	200.0
	LATE PAYMENT CHARGE	6705	95		93	2	33.3	97.8	184	193.6
	COURT COSTS	6710								
	THEFT LOSS	6818								
5163	PROP.TAX COLL. FEES .0	6830	55000		19699	35301	33.3	35.8	4,097	7.4
16979	PROP.TAX COLL. FEES.00	6831	80000		19051	60949	33.3	23.8	22,846-	28.5-
57	BANK SERV/TRF FEE	6832	2100		943	1157	33.3	44.9	729	34.7
	DUES AND MEMBERSHIPS	6840	25000		18130	6870	33.3	72.5	29,390	117.5
	REGISTRATION FEE/TUITI	6845	4800		435	4365	33.3	9.0	3,494-	72.7-
	PROPERTY TAXES	6995								
	LOBBYING	6998								
	SERVICES NOT SPECIFIED	6999	9905		1720	8185	33.3	17.3	4,745-	47.9-
22198	OTHER SERVICES & CHA		326900		210071	116829	33.3	64.2	303,313	92.7
148341	OTHER SERVICES & CHAR		2985160	1,062	1265971	1718127	33.3	42.4	812,753	27.2
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	VEHICLES									
	CAPITAL OUTLAY									
148341	EXPENDITURES		2987360	1,062	1265971	1720327	33.3	42.3	810,553	27.1

001096 - GENERAL FUND-FED PROG ADMIN

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
9424	REGULAR WAGES	4000	179989		45394	134595	33.3	25.2	43,807-	24.3-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
9424	SALARIES		179989		45394	134595	33.3	25.2	43,807-	24.3-
	EMPLOYEE BENEFITS									
1484	STATE RETIREMENT	4600	28348		7150	21199	33.3	25.2	6,898-	24.3-
704	F.I.C.A. TAXES	4700	16829		3396	13433	33.3	20.1	6,641-	39.4-
893	HOSPITALIZATION INS.	4800	26400		6746	19654	33.3	25.5	6,162-	23.3-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	2974			2974	33.3		2,974-	100.0-
3082	EMPLOYEE BENEFITS		75051		17291	57760	33.3	23.0	23,177-	30.8-
12507	PERSONAL SERVICES		255040		62685	192355	33.3	24.5	66,984-	26.2-
	OFFICE SUPPLIES									
	PAPER	5003	200			200	33.3		200-	100.0-
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	500		9	491	33.3	1.8	472-	94.4-
	MINOR OFFICE EQUIP/FUR	5020	3639		1639	2000	33.3	45.0	1,278	35.1
	MICROFILM SUPPLIES	5030								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
	OFFICE SUPPLIES		4339		1648	2691	33.3	37.9	605	13.9
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
164	FOOD	5115	500		223	277	33.3	44.6	169	33.8
48	GAS AND OIL	5250	1500		241	1259	33.3	16.0	776-	51.7-
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590	500		65	435	33.3	13.0	304-	60.8-
	OTHER OPER.MATL-BROWNS	5591								
212	OPERATING SUPPLIES		2500		529	1971	33.3	21.1	912-	36.4-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	MTR VEHICLE REP. PTS/S	5700	1000			1000	33.3		1,000-	100.0-
	MINOR COMPUTER EQUIP.	5800								
	OTHER REPAIR/MAINT. SP	5990								
1476	DISASTER REPAIR SUPPLI	5995		7,233	1476	8709-			4,428	

1476	REPAIR & MAINTENANCE		1000	7,233	1476	7709-	33.3	147.6	3,428	342.8
1688	SUPPLIES AND EXPENSES		7839	7,233	3653	3047-	33.3	46.6	3,120	39.8
	PROFESSIONAL SERVICES									
	CONSULTANT SERV-BROWNS	6020								
	DATA PROCESSING	6035								
	MICROFILM PROCESSING	6037								
201	OTHER PROFESSIONAL SER	6049	15000		201	14799	33.3	1.3	14,396-	95.9-
201	PROFESSIONAL SERVICE		15000		201	14799	33.3	1.3	14,396-	95.9-
	COMMUNICATIONS									
217	TELEPHONE AND TELEGRAP	6060	1000		246	754	33.3	24.6	262-	26.2-
	POSTAGE	6070								
217	COMMUNICATIONS		1000		246	754	33.3	24.6	262-	26.2-
	TRANSPORTATION									
1329	TRAVEL EXPENSE	6110	3500	150	1859	1491	33.3	53.1	2,077	59.3
	TRVL EXP-BROWNSFIELD P	6116								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
1329	TRANSPORTATION		3500	150	1859	1491	33.3	53.1	2,077	59.3
	ADVERTISING									
	ADVERTISING	6150	1500		110	1390	33.3	7.3	1,170-	78.0-
	ADVERTISING		1500		110	1390	33.3	7.3	1,170-	78.0-
	PRINTING AND BINDING									
	PRINTING	6200								
	BINDING	6205								
	PRINTING AND BINDING									
	INSURANCE									
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
3006	DISASTER REPAIRS	6351		3,774	3006	6780-			9,018	
	OFFICE EQUIPMENT R&M	6365								
	MOTOR VEHICLE EQ. R&M	6384	500			500	33.3		500-	100.0-
	OTHER REPAIRS AND MAIN	6399								
3006	REPR/MAINT-OUTSIDE L		500	3,774	3006	6280-	33.3	601.2	8,518	703.6
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	EXHIBITIONS & PROMOTIO		750			750	33.3		750-	100.0-

	DUES AND MEMBERSHIPS	6840	500			500	33.3		500-	100.0-
138	REGISTRATION FEE/TUITI	6845	500		238	262	33.3	47.6	214	42.8
	SERVICES NOT SPECIFIED	6999								
138	OTHER SERVICES & CHA		1750		238	1512	33.3	13.6	1,036-	59.2-
4890	OTHER SERVICES & CHAR		23250	3,924	5660	13666	33.3	24.3	6,270-	26.9-
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
19085	EXPENDITURES		286129	11,157	71998	202974	33.3	25.1	70,135-	24.5-

001100 - GENERAL FUND-POLICE/PUB.SFTY

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
446323	REGULAR WAGES	4000	6829454		1773772	5055682	33.3	25.9	1,508,138-	22.0-
	DISASTER RECOVERY WAGE	4010								
88546	OVERTIME	4300	700000		277123	422877	33.3	39.5	131,369	18.7
	DISASTER RECOVERY OVER	4310								
534869	SALARIES		7529454		2050895	5478559	33.3	27.2	1,376,768-	18.2-
	EMPLOYEE BENEFITS									
83629	STATE RETIREMENT	4600	1185889		318450	867439	33.3	26.8	230,539-	19.4-
39530	F.I.C.A. TAXES	4700	576003		151336	424667	33.3	26.2	121,995-	21.1-
65690	HOSPITALIZATION INS.	4800	1155000		355843	799157	33.3	30.8	87,470-	7.5-
34-	UNEMPLOYMENT BENEFITS	4900	8000		34-	8034	33.3	.4	7,898-	98.7-
	WORKMAN'S COMPENSATION	4910	172344			172344	33.3		172,344-	100.0-
188815	EMPLOYEE BENEFITS		3097236		825595	2271641	33.3	26.6	620,450-	20.0-
723684	PERSONAL SERVICES		10626690		2876489	7750201	33.3	27.0	1,997,222-	18.7-
	OFFICE SUPPLIES									
327	PAPER	5003	5000		961	4039	33.3	19.2	2,116-	42.3-
	PRINTED FORMS	5005								
66	OTHER EXPENDABLE OFF.S	5010	7020	124	3023	3874	33.3	43.0	2,049	29.1
258	EXPENDABLE OFF.SPL-LIF	5012	1500		796	704	33.3	53.0	888	59.2
	MINOR OFFICE EQUIP/FUR	5020	4000		3075	925	33.3	76.8	5,225	130.6
	MICROFILM SUPPLIES	5030								
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050	5300			5300	33.3		5,300-	100.0-
	BOOKS	5070	800			800	33.3		800-	100.0-
1100	COMPUTER SUPPLIES	5080	7000	199	1627	5174	33.3	23.2	2,118-	30.2-
	COMPUTR SUP-LLEBG '01	5081								
	COMPUTR SUP-COPS MORE'	5082								
1751	OFFICE SUPPLIES		30620	323	9482	20815	33.3	30.9	2,174-	7.0-
	OPERATING SUPPLIES									
540	CLEANING/JANITORIAL SP	5100	8000		383	7617	33.3	4.7	6,850-	85.6-
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115	1000			1000	33.3		1,000-	100.0-
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130								
	FEED FOR ANIMALS	5150	2500	517	514	1469	33.3	20.5	958-	38.3-
17456	GAS AND OIL	5250	200450		75895	124555	33.3	37.8	27,235	13.5
	LUBRICANTS	5255								
182	DIESEL FUEL	5257	3000		470	2530	33.3	15.6	1,590-	53.0-
	OTHER FUEL	5260								

7174	UNIFORMS, BADGES, ETC.	5350	61672	9,599	30428	21645	33.3	49.3	29,612	48.0
150	WEARING APPAREL	5355	150		150		33.3	100.0	300	200.0
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450								
275	MINOR EQUIPMENT	5460	30000	3,374	3446	23180	33.3	11.4	19,662-	65.5-
	MINOR EQUIP-BYRNE '15	5461	10461			10461	33.3		10,461-	100.0-
	MINOR EQUIP-BYRNE GRAN	5463								
	MINOR EQ-LLEBG/BYRNE'0	5464								
12024	OTHER OPERATING MATL/S	5590	52200	18,791	30532	2877	33.3	58.4	39,396	75.4
	OTHER OPER.MATL-METH.G	5591								
	OTHER OPER.MATLS-PRO S	5592								
	OTHER OPER.-ALCOHOL CN	5593								
	OTHER OPER-VICTIM ADVO	5594	1000	104		896	33.3		1,000-	100.0-
	OTHER OPER-LAW ENF.LIA	5596								
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37800	OPERATING SUPPLIES		370433	32,385	141819	196229	33.3	38.2	55,024	14.8
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	2500	1,500	123	877	33.3	4.9	2,130-	85.2-
37	ELECTRICAL SUPPLIES	5605	2000		189	1811	33.3	9.4	1,432-	71.6-
	PLUMBING SUPPLIES	5610								
	PAINT AND PAINTING SPL	5650								
13003	MTR VEHICLE REP. PTS/S	5700	80015	1,459	60597	17959	33.3	75.7	101,776	127.1
	COMMUNICATION REPAIR P	5750	4500			4500	33.3		4,500-	100.0-
	AGRICLTRL REPAIR PTS/S	5755								
	EXPENDABLE WELDING SPL	5770								
	MINOR COMPUTER EQUIP.	5800								
	OTHER REPAIR/MAINT. SP	5990	10309	194	1630	8485	33.3	15.8	5,419-	52.5-
55	REPR SPLY-8/29/05 STOR	5995		570	55	625-			165	
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13095	REPAIR & MAINTENANCE		99324	3,723	62593	33008	33.3	63.0	88,455	89.0
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52646	SUPPLIES AND EXPENSES		500377	36,431	213894	250052	33.3	42.7	141,305	28.2
	PROFESSIONAL SERVICES									
	LEGAL	6025								
550	MEDICAL	6027	8000		4693	3307	33.3	58.6	6,079	75.9
536	VETERINARIAN	6030	3000		536	2464	33.3	17.8	1,392-	46.4-
	ENTERTAINMENT	6033								
	DATA PROCESSING	6035								
	MICROFILM PROCESSING	6037								
	METRO CRIME STOPPERS	6039								
	OTHER PROF.-ALCOHOL CN	6047								
	OTHER PROF.-VICTIM'S A	6048								
2953	OTHER PROFESSIONAL SER	6049	29000	2,022	17786	9192	33.3	61.3	24,358	83.9
	POL.LATERAL TRNG FEE	6049 26								
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4039	PROFESSIONAL SERVICE		40000	2,022	23014	14964	33.3	57.5	29,042	72.6
	COMMUNICATIONS									
4348	TELEPHONE AND TELEGRAP	6060	20000	4,876	7470	7654	33.3	37.3	2,410	12.0
	TELEPHONE-GRANT	6060 GRANT								

	TELEPHONE RENT	6065								
	NETWORK WIRELESS	6069	23000		2980	20020	33.3	12.9	14,060-	61.1-
	POSTAGE	6070	100			100	33.3		100-	100.0-
	OTHER COMMUNICATION EX	6099								
4348	COMMUNICATIONS		43100	4,876	10449	27774	33.3	24.2	11,752-	27.2-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	22000		1481	20519	33.3	6.7	17,556-	79.8-
	TRVL EXP-TRAFFIC GRANT	6111								
	TRVL EXP-VICTIM'S ADV	6112								
	TRVL EXP-TERRORISM PRE	6113								
	TRAVEL EXP-PROJ SAFE N	6114								
	TRVL/TRNG-COP'S METH G	6116								
	TRVL EXP-LAW ENF LIAIS	6118								
	TRVL EXP-ALCOHOL GRANT	6119	874			874	33.3		874-	100.0-
114	FREIGHT	6120	1449	415	836	198	33.3	57.6	1,059	73.0
	MESSENGER/EXPRESS SERV	6130	1060	13	200	847	33.3	18.8	460-	43.3-
114	TRANSPORTATION		25383	428	2517	22439	33.3	9.9	17,831-	70.2-
	ADVERTISING									
	ADVERTISING	6150	13000			13000	33.3		13,000-	100.0-
	ADVERTISING		13000			13000	33.3		13,000-	100.0-
	PRINTING AND BINDING									
4	PRINTING	6200	1000		212	788	33.3	21.2	364-	36.4-
	BINDING	6205								
	FILM PROCESSING	6240								
4	PRINTING AND BINDING		1000		212	788	33.3	21.2	364-	36.4-
	INSURANCE									
	FIRE & EXTENDED COVERA	6250								
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265	17000			17000	33.3		17,000-	100.0-
	SURETY AND FORGERY BON	6270	300		175	125	33.3	58.3	225	75.0
	OTHER INSURANCE	6299								
	INSURANCE		17300		175	17125	33.3	1.0	16,774-	96.9-
	UTILITIES									
1142	GAS	6300	3000		1683	1317	33.3	56.1	2,049	68.3
476	ELECTRICITY	6305	83217		19421	63796	33.3	23.3	24,953-	29.9-
1618	UTILITIES		86217		21104	65113	33.3	24.4	22,905-	26.5-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	8/29/05 STORM REPAIRS	6353								
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
720	OFFICE EQUIPMENT R&M	6365	35000		28800	6200	33.3	82.2	51,400	146.8
	OFF.EQ.R&M-COPS MORE	6366								
	HOUSEHOLD EQUIPMENT R&	6370								
3749	FIXED EQUIPMENT R&M	6380	15000	200	5643	9157	33.3	37.6	1,929	12.8

	MINOR EQUIPMENT R&M	6382								
5953	MOTOR VEHICLE EQ. R&M	6384	46500	3,230	43106	164	33.3	92.7	82,818	178.1
	AGRICULTURAL EQ. R&M	6387								
	COMMUNICATION EQ. R&M	6390								
	CLEANING AND PAINTING	6392								
165	DISINFECT./EXTERMINATI	6394	1000		330	670	33.3	33.0	10-	1.0-
	SIGN PAINTING	6396								
275	TOW IN CHARGES	6398	4000		1275	2725	33.3	31.8	174-	4.3-
	OTHER REPAIRS AND MAIN	6399								
10861	REPR/MAINT-OUTSIDE L		101500	3,430	79154	18916	33.3	77.9	135,962	133.9
	RENTALS									
802	OFFICE EQUIPMENT RENT	6410	7200		2528	4672	33.3	35.1	384	5.3
	MOTORCYCLE RENT	6417	45820	62,100		16280-	33.3		45,820-	100.0-
	CYLINDER RENT	6425	800			800	33.3		800-	100.0-
	UNIFORM RENT	6430								
	MOP-MAT-RAG RENT	6435								
	OTHER RENT	6449								
802	RENTALS		53820	62,100	2528	10808-	33.3	4.6	46,236-	85.9-
	OTHER SERVICES & CHARGE									
	EXHIBITIONS & PROMOTIO	6500								
	SETTLEMT OF DAMAGE CLA	6700								
	COURT COSTS	6710								
	JAIL EXPENSE	6815								
	EVIDENCE BUY MONEY	6817								
	THEFT LOSS	6818								
	CASH OVERAGE/SHORTAGE	6819								
	BANK SERV/TRF FEE	6832								
	REFUNDS									
162	NSF CHECKS	6836	2000		719	1281	33.3	35.9	157	7.8
282	DUES AND MEMBERSHIPS	6840	3500		432	3068	33.3	12.3	2,204-	62.9-
	REGISTRATION FEE/TUITI	6845	11670			11670	33.3		11,670-	100.0-
	LAUNDRY	6850								
	SERVICES NOT SPECIFIED	6999								
444	OTHER SERVICES & CHA		17170		1151	16019	33.3	6.7	13,716-	79.8-
22230	OTHER SERVICES & CHAR		398490	72,856	140304	185330	33.3	35.2	22,422	5.6
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227								
	LANDSCAPING	7250								
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									

	8/29/05 STORM EQUIP	7302								
	EQUIP-METH GRANT	7303								
	EQUIP-DOMESTIC PREP	7312								
	EQUIP-HOMELAND SECURIT	7313			39998	39998-			119,994	
	EQUIP-TERRORISM PREVEN	7314								
	EQUIP-TERRORISM '05	7316								
	EQ-DOMESTIC PREP'05	7318								
	EQUIP-PROJ SAFE NEIGHB	7319								
	HOUSEHOLD FURN/EQUIP.	7320								
	EQUIP-BYRNE '13	7323								
	EQUIP-BYRNE '14	7324								
	OFFICE FURN/EQUIP.	7325	169250	19,373	19270	130607	33.3	11.3	111,440-	65.8-
	COPS TECH GRANT EQUIP	7326								
133265	DATA PROCESSING EQUIP.	7327	19985		142800	122815-	33.3	714.5	408,415	43.6
	FEMA-EMER.WARNING SIRE	7330								
	EQUIP-JUSTICE ASSIST G	7331								
	COMMUNICATION EQUIPMEN	7355								
	TRAFFIC CONTROL EQUIP.	7360								
	EQUIP-BYRNE '09	7375								
	OTHER EQUIP-STOP VIOL	7397								
	OTHER EQUIP-ALCOHOL GR	7398								
93295	OTHER EQUIPMENT	7399	277909	8,310	268374	1225	33.3	96.5	527,213	189.7
226560	MACHINERY AND EQUIPM		467144	27,683	470443	30981-	33.3	100.7	944,185	202.1
	VEHICLES									
	AUTOMOBILES	7400								
	AUTOMOBILES-METH GRANT	7401								
	AUTOMOBILES-BYRNE GRAN	7402								
	MOTORCYCLES	7405								
	PICK UP TRUCKS	7420								
	VEHICLES									
	OTHER									
	ZOOLOGICAL ANIMALS	7505								
	OTHER									
226560	CAPITAL OUTLAY		467144	27,683	470443	30981-	33.3	100.7	944,185	202.1
1025120	EXPENDITURES		11992701	136,970	3701130	8154602	33.3	30.8	889,311-	7.4-

001131 - GENERAL FUND-JOINT P&F TRNG.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
1775	REGULAR WAGES	4000	23080		7102	15978	33.3	30.7	1,774-	7.6-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	1000		115	885	33.3	11.5	654-	65.4-
	DISASTER RECOVERY OVER	4310								
1775	SALARIES		24080		7217	16863	33.3	29.9	2,428-	10.0-
	EMPLOYEE BENEFITS									
280	STATE RETIREMENT	4600	3793		1137	2656	33.3	29.9	381-	10.0-
114	F.I.C.A. TAXES	4700	1842		463	1379	33.3	25.1	452-	24.5-
500	HOSPITALIZATION INS.	4800	6600		2500	4100	33.3	37.8	900	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	82			82	33.3		82-	100.0-
893	EMPLOYEE BENEFITS		12817		4100	8717	33.3	31.9	517-	4.0-
2669	PERSONAL SERVICES		36897		11317	25580	33.3	30.6	2,945-	7.9-
	OFFICE SUPPLIES									
	PAPER	5003	750		183	567	33.3	24.4	200-	26.6-
	PRINTED FORMS	5005	50			50	33.3		50-	100.0-
9	OTHER EXPENDABLE OFF.S	5010	4136	289	867	2980	33.3	20.9	1,534-	37.0-
	SPLY-RRT COORDINATOR	5013								
	MINOR OFFICE EQUIP/FUR	5020	1000			1000	33.3		1,000-	100.0-
	CASSETTES, TAPES	5035								
	PHOTO SUPPLIES	5040	775			775	33.3		775-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050	500			500	33.3		500-	100.0-
	BOOKS-POLICE	5070	2000			2000	33.3		2,000-	100.0-
	BOOKS-FIRE	5071	2000		53	1947	33.3	2.6	1,840-	92.0-
	COMPUTER SUPPLIES	5080	3000			3000	33.3		3,000-	100.0-
9	OFFICE SUPPLIES		14211	289	1103	12819	33.3	7.7	10,901-	76.7-
	OPERATING SUPPLIES									
166	CLEANING/JANITORIAL SP	5100	3000	313	762	1925	33.3	25.4	714-	23.8-
	HOUSEHOLD SUPPLIES	5110	750		43	707	33.3	5.7	620-	82.6-
96	FOOD	5115	1000		301	699	33.3	30.1	96-	9.6-
200	MEDICAL SUPPLIES	5120	1000		200	800	33.3	20.0	400-	40.0-
	GAS AND OIL	5250	1000			1000	33.3		1,000-	100.0-
	WEARING APPAREL-POLICE	5355	2500	135	749	1616	33.3	29.9	252-	10.0-
	WEARING APPAREL-FIRE	5356	2500	135	579	1786	33.3	23.1	762-	30.4-
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405	2000			2000	33.3		2,000-	100.0-
	BRICK,STONE,MORTAR,ETC	5410								
	SAND,CLAY,GRVL,FILL DI	5415								

	HORT./LANDSCAPING SPLY	5440	500		9-	509	33.3	1.8	472-	94.4-
	HAND TOOLS	5450	1500			1500	33.3		1,500-	100.0-
31	MINOR EQUIPMENT-POLICE	5460	17007	6,063	4725	6219	33.3	27.7	2,831-	16.6-
	MINOR EQUIPMENT-FIRE	5462	10000		110-	10110	33.3	1.1	9,670-	96.7-
	MINOR EQUIP-REGIONAL R	5463	7500			7500	33.3		7,500-	100.0-
	SWIFT WATER RESCUE SUP	5465	7500			7500	33.3		7,500-	100.0-
	HAZ.MAT SUPPLIES	5466	5000			5000	33.3		5,000-	100.0-
	P&F CLASSES-(FEE) SUPP	5469								
	OTHER OPER.MATL-POLICE	5590	12500		3325	9175	33.3	26.6	2,524-	20.1-
	OTHER OPER.MATL-FIRE	5591	12500		79-	12579	33.3	.6	12,262-	98.0-
492	OPERATING SUPPLIES		87757	6,646	10486	70626	33.3	11.9	56,299-	64.1-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	6000		298	5702	33.3	4.9	5,106-	85.1-
	ELECTRICAL SUPPLIES	5605	1450			1450	33.3		1,450-	100.0-
86	PLUMBING SUPPLIES	5610	1000		86	914	33.3	8.6	742-	74.2-
	PAINT AND PAINTING SPL	5650	750			750	33.3		750-	100.0-
	MTR VEHICLE REP. PTS/S	5700	1200			1200	33.3		1,200-	100.0-
	OTHER REPAIR/MAINT. SP	5990	2500			2500	33.3		2,500-	100.0-
86	REPAIR & MAINTENANCE		12900		384	12516	33.3	2.9	11,748-	91.0-
587	SUPPLIES AND EXPENSES		114868	6,935	11973	95961	33.3	10.4	78,948-	68.7-
	PROFESSIONAL SERVICES									
	MEDICAL	6027	100			100	33.3		100-	100.0-
	P&F CLASSES-(FEE) SERV	6045								
	OTHER PROFESSIONAL SER		16925		569	16356	33.3	3.3	15,217-	89.9-
	PROFESSIONAL SERVICE		17025		569	16456	33.3	3.3	15,317-	89.9-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060	750		540	210	33.3	72.0	870	116.0
	TELEPHONE-RRT COORDINA	6060 GRANT								
	POSTAGE	6070								
	COMMUNICATIONS		750		540	210	33.3	72.0	870	116.0
	TRANSPORTATION									
	TRVL EXP-POLICE	6110	6011	10	678	5322	33.3	11.2	3,977-	66.1-
	TRVL EXP-FIRE	6111	7000		1266	5734	33.3	18.0	3,202-	45.7-
	TRVL EXP-RRT COORDINAT	6112								
	TRVL EXP-RESPONSE TEAM	6116								
8	FREIGHT	6120	550	128	213	209	33.3	38.7	89	16.1
8	TRANSPORTATION		13561	138	2157	11265	33.3	15.9	7,089-	52.2-
	ADVERTISING									
	ADVERTISING	6150	4000			4000	33.3		4,000-	100.0-
	ADVERTISING		4000			4000	33.3		4,000-	100.0-
	PRINTING AND BINDING									
	PRINTING	6200								
	FILM PROCESSING	6240								

	PRINTING AND BINDING									
	INSURANCE									
	BOILER MACHINERY	6260								
	SURETY AND FORGERY BON	6270								
	OTHER INSURANCE	6299								
	INSURANCE									
	UTILITIES									
454	GAS	6300	3000		790	2210	33.3	26.3	630-	21.0-
941	ELECTRICITY	6305	18000		4653	13347	33.3	25.8	4,040-	22.4-
	WATER	6315								
1395	UTILITIES		21000		5443	15557	33.3	25.9	4,670-	22.2-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	7000		120	6880	33.3	1.7	6,640-	94.8-
45	DISASTER REPAIRS	6351			45	45-			135	
	OFFICE EQUIPMENT R&M	6365								
	MINOR EQUIPMENT R&M	6382	150			150	33.3		150-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	1000			1000	33.3		1,000-	100.0-
	CLEANING AND PAINTING	6392	500			500	33.3		500-	100.0-
50	DISINFECT./EXTERMINATI	6394	1300		198	1102	33.3	15.2	706-	54.3-
30	OTHER REPAIRS AND MAIN	6399	1500		30	1470	33.3	2.0	1,410-	94.0-
125	REPR/MAINT-OUTSIDE L		11450		393	11057	33.3	3.4	10,270-	89.6-
	RENTALS									
236	OTHER RENT	6449	4000		1027	2973	33.3	25.6	918-	22.9-
236	RENTALS		4000		1027	2973	33.3	25.6	918-	22.9-
	OTHER SERVICES & CHARGE									
	PETTY CASH LOSS/STORM	6818								
	DUES AND MEMBERSHIPS	6840	250		180	70	33.3	72.0	290	116.0
	REGISTRATN FEE-POLICE	6845	7000		895	6105	33.3	12.7	4,314-	61.6-
	REGISTRATN FEE-FIRE	6846	15000		2115	12885	33.3	14.1	8,654-	57.6-
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA		22250		3190	19060	33.3	14.3	12,680-	56.9-
1764	OTHER SERVICES & CHAR		94036	138	13319	80579	33.3	14.1	54,078-	57.5-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	EQUIP-RESPONSE TEAM'07	7311								
	EQUIP-RESPONSE TEAM'04	7314								
	EQUIP-CITY HOMELAND SE	7316								
	OFFICE FURN/EQUIP.	7325								

	COMMUNICATION EQUIPMEN	7355									
	TRAFFIC CONTROL EQUIP.	7360									
	OTHER EQUIP-HAZ.MAT	7398									
	OTHER EQUIPMENT	7399									
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	MACHINERY AND EQUIPM										
	VEHICLES										
	AUTOMOBILES	7400									
	BUSES	7410									
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	VEHICLES										
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	CAPITAL OUTLAY										
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5020	EXPENDITURES		245801	7,073	36609	202119	33.3	14.8	135,973-	55.3-

001160 - GENERAL FUND-FIRE DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
341998	REGULAR WAGES	4000	4672568		1274902	3397666	33.3	27.2	847,862-	18.1-
	DISASTER RECOVERY WAGE	4010								
86138	OVERTIME	4300	450000		297368	152632	33.3	66.0	442,104	98.2
	DISASTER RECOVERY OVER	4310								
428135	SALARIES		5122568		1572270	3550298	33.3	30.6	405,758-	7.9-
	EMPLOYEE BENEFITS									
66777	STATE RETIREMENT	4600	806804		245057	561747	33.3	30.3	71,632-	8.8-
30960	F.I.C.A. TAXES	4700	391876		113211	278665	33.3	28.8	52,242-	13.3-
52500	HOSPITALIZATION INS.	4800	811800		272086	539714	33.3	33.5	4,458	.5
	UNEMPLOYMENT BENEFITS	4900	6000			6000	33.3		6,000-	100.0-
	WORKMAN'S COMPENSATION	4910	218747			218747	33.3		218,747-	100.0-
150236	EMPLOYEE BENEFITS		2235227		630355	1604872	33.3	28.2	344,161-	15.3-
578372	PERSONAL SERVICES		7357795		2202624	5155171	33.3	29.9	749,923-	10.1-
	OFFICE SUPPLIES									
74	PAPER	5003	500		248	252	33.3	49.6	244	48.8
	PRINTED FORMS	5005								
315	OTHER EXPENDABLE OFF.S	5010	6000		1092	4908	33.3	18.2	2,724-	45.4-
183	MINOR OFFICE EQUIP/FUR	5020	2264		1464	800	33.3	64.6	2,128	93.9
	CASSETTES, TAPES	5035								
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	1400	175	25	1200	33.3	1.7	1,324-	94.5-
50	COMPUTER SUPPLIES	5080	1000		474	526	33.3	47.4	422	42.2
622	OFFICE SUPPLIES		11164	175	3303	7686	33.3	29.5	1,254-	11.2-
	OPERATING SUPPLIES									
827	CLEANING/JANITORIAL SP	5100	8600	888	4691	3022	33.3	54.5	5,473	63.6
19	HOUSEHOLD SUPPLIES	5110	4000		114	3886	33.3	2.8	3,658-	91.4-
	FOOD	5115	400		168	232	33.3	42.0	104	26.0
	MEDICAL SUPPLIES	5120	5400			5400	33.3		5,400-	100.0-
	LABORATORY SUPPLIES	5125								
	CHEMICALS	5130								
408	GAS AND OIL	5250	24000		3825	20175	33.3	15.9	12,524-	52.1-
119	LUBRICANTS	5255	3800		2922	878	33.3	76.8	4,966	130.6
4155	DIESEL FUEL	5257	58000		15997	42003	33.3	27.5	10,008-	17.2-
	OTHER FUEL	5260								
320	UNIFORMS, BADGES, ETC.	5350	55000	40,828	334	13838	33.3	.6	53,998-	98.1-
5714	WEARING APPAREL	5355	14000		10682	3318	33.3	76.3	18,046	128.9
	ASPHALT & ASPHALT PROD	5400								

	CONCRETE, CEMENT, ETC.	5405	450			450	33.3		450-	100.0-
	HORT./LANDSCAPING SPLY	5440	400			400	33.3		400-	100.0-
	HAND TOOLS	5450	2000		48	1952	33.3	2.4	1,856-	92.8-
207	MINOR EQUIPMENT	5460	10223		1476	8747	33.3	14.4	5,795-	56.6-
	MINOR FIRE FIGHTING EQ	5462	10400		1959	8441	33.3	18.8	4,522-	43.4-
	SWIFT WATER RESCUE SUP	5465	800			800	33.3		800-	100.0-
	FIRE HOSE	5470	17700			17700	33.3		17,700-	100.0-
	RECREATIONAL SUPPLIES	5510								
	SFTY/FIRE P/MATL CONTR	5535	4000		2083	1917	33.3	52.0	2,249	56.2
247	OTHER OPERATING MATL/S	5590	800		322	478	33.3	40.2	166	20.7
12016	OPERATING SUPPLIES		219973	41,716	44620	133638	33.3	20.2	86,113-	39.1-
	REPAIR & MAINTENANCE SP									
3903	BUILDING MATERIALS & S	5600	7000	42	4859	2099	33.3	69.4	7,577	108.2
202	ELECTRICAL SUPPLIES	5605	2250		413	1837	33.3	18.3	1,010-	44.8-
160	PLUMBING SUPPLIES	5610	2150		835	1315	33.3	38.8	355	16.5
18	PAINT AND PAINTING SPL	5650	2600		18	2582	33.3	.6	2,546-	97.9-
6765	MTR VEHICLE REP. PTS/S	5700	45724	4,142	32093	9490	33.3	70.1	50,555	110.5
	COMMUNICATION REPAIR P	5750	1000			1000	33.3		1,000-	100.0-
	AGRICLTRL REPAIR PTS/S	5755								
	SCBA REPAIR PTS/SPL	5756	16300		10676	5624	33.3	65.4	15,728	96.4
	MINOR COMPUTER EQUIP.	5800								
75	OTHER REPAIR/MAINT. SP	5990	500	25	75	400	33.3	15.0	274-	54.8-
1847	REPR SPLY-8/29/05 STOR	5995		4,990	1847	6837-			5,541	
12970	REPAIR & MAINTENANCE		77524	9,199	50817	17509	33.3	65.5	74,927	96.6
25608	SUPPLIES AND EXPENSES		308661	51,090	98740	158833	33.3	31.9	12,441-	4.0-
	PROFESSIONAL SERVICES									
	APPRAISAL	6017								
275	MEDICAL	6027	23250		5844	17406	33.3	25.1	5,718-	24.5-
	ENTERTAINMENT	6033								
75	OTHER PROFESSIONAL SER	6049	11900		1335	10565	33.3	11.2	7,894-	66.3-
350	PROFESSIONAL SERVICE		35150		7179	27971	33.3	20.4	13,612-	38.7-
	COMMUNICATIONS									
1211	TELEPHONE AND TELEGRAP	6060	15000		2888	12112	33.3	19.2	6,336-	42.2-
	NETWORK	6068								
	NETWORK WIRELESS-GRANT	6069								
	POSTAGE	6070								
1211	COMMUNICATIONS		15000		2888	12112	33.3	19.2	6,336-	42.2-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	5233		385-	5618	33.3	7.3	4,077-	77.9-
66-	FREIGHT	6120	2800	208	516	2076	33.3	18.4	1,252-	44.7-
	MESSENGER/EXPRESS SERV	6130								
66-	TRANSPORTATION		8033	208	131	7694	33.3	1.6	7,639-	95.0-
	ADVERTISING									
	ADVERTISING	6150	6800		1625	5175	33.3	23.8	1,924-	28.2-

	ADVERTISING		6800		1625	5175	33.3	23.8	1,924-	28.2-
	PRINTING AND BINDING									
	PRINTING	6200	2320		1185	1135	33.3	51.0	1,235	53.2
	FILM PROCESSING	6240								
	PRINTING AND BINDING		2320		1185	1135	33.3	51.0	1,235	53.2
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270	125			125	33.3		125-	100.0-
	OTHER INSURANCE	6299								
	INSURANCE		125			125	33.3		125-	100.0-
	UTILITIES									
2849	GAS	6300	26975		4683	22292	33.3	17.3	12,925-	47.9-
4915	ELECTRICITY	6305	69000		20987	48013	33.3	30.4	6,038-	8.7-
50	WATER	6315	354		146	208	33.3	41.2	84	23.7
7815	UTILITIES		96329		25816	70513	33.3	26.7	18,881-	19.6-
	REPR/MAINT-OUTSIDE LABO									
954	BUILDING R&M	6350	45238	5,862	11974	27402	33.3	26.4	9,316-	20.5-
677	8/29/05 STORM REPAIRS	6353			677	677-			2,031	
	ELECTRICAL R&M	6355	200			200	33.3		200-	100.0-
	PLUMBING EQUIPMENT R&M	6357	1600		206	1394	33.3	12.8	982-	61.3-
	STREETS & STRUCTURES R	6360								
194	OFFICE EQUIPMENT R&M	6365	1870		1106	764	33.3	59.1	1,448	77.4
1170	HOUSEHOLD EQUIPMENT R&	6370	4000		1170	2830	33.3	29.2	490-	12.2-
	FIXED EQUIPMENT R&M	6380	4025			4025	33.3		4,025-	100.0-
	MINOR EQUIPMENT R&M	6382	1000		419-	1419	33.3	41.9	257	25.7
217	MOTOR VEHICLE EQ. R&M	6384	51445	6	9712	41727	33.3	18.8	22,309-	43.3-
20	AGRICULTURAL EQ. R&M	6387	500		122	378	33.3	24.4	134-	26.8-
	SCBA EQUIP. R&M	6389	13350		3738	9613	33.3	28.0	2,136-	16.0-
	COMMUNICATION EQ. R&M	6390	4000		288	3712	33.3	7.2	3,136-	78.4-
336	DISINFECT./EXTERMINATI	6394	2000		818	1182	33.3	40.9	454	22.7
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	1600		675	925	33.3	42.1	425	26.5
420	OTHER REPAIRS AND MAIN	6399	3850	3,213	520	117	33.3	13.5	2,290-	59.4-
3988	REPR/MAINT-OUTSIDE L		134678	9,081	30588	95010	33.3	22.7	42,914-	31.8-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	MACHINERY RENT	6420	100			100	33.3		100-	100.0-
399	CYLINDER RENT	6425	3000		1866	1134	33.3	62.2	2,598	86.6
	UNIFORM RENT	6430								
	MOP-MAT-RAG RENT	6435								
	OTHER RENT	6449	1600		300	1300	33.3	18.7	700-	43.7-
399	RENTALS		4700		2166	2534	33.3	46.0	1,798	38.2
	OTHER SERVICES & CHARGE									
175	DUES AND MEMBERSHIPS	6840	1300		953	347	33.3	73.3	1,559	119.9
	REGISTRATION FEE/TUITI	6845	1300		450	850	33.3	34.6	50	3.8

	LAUNDRY	6850	100			100	33.3		100-	100.0-
	SERVICES NOT SPECIFIED	6999	750			750	33.3		750-	100.0-
175	OTHER SERVICES & CHA		3450		1403	2047	33.3	40.6	759	22.0
13871	OTHER SERVICES & CHAR		306585	9,289	72980	224317	33.3	23.8	87,645-	28.5-
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227								
	LANDSCAPING	7250								
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	8/29/05 STORM EQUIP	7302								
	LABORATORY	7310								
	FIRE FIGHTING	7315								
	EQUIP-SCBA-'11 AF GRAN	7317								
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	EQ-WIRELESS NETWORK GR	7331								
	AGRICULTURAL EQUIPMENT	7335								
	COMMUNICATION EQUIPMEN	7355								
	TRAFFIC CONTROL EQUIP.	7360								
	HYDRANTS & METERS	7365								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	HEAVY TRUCKS	7430								
	VEHICLES									
	CAPITAL OUTLAY									
617851	EXPENDITURES		7973041	60,379	2374343	5538320	33.3	29.7	850,011-	10.6-

001180 - GENERAL FUND-LAND DEVEL.ADM.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
27108	REGULAR WAGES	4000	399998		111453	288545	33.3	27.8	65,638-	16.4-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	1000			1000	33.3		1,000-	100.0-
	DISASTER RECOVERY OVER	4310								
27108	SALARIES		400998		111453	289545	33.3	27.7	66,638-	16.6-
	EMPLOYEE BENEFITS									
4269	STATE RETIREMENT	4600	63157		17554	45603	33.3	27.7	10,495-	16.6-
2002	F.I.C.A. TAXES	4700	30676		8260	22416	33.3	26.9	5,896-	19.2-
6005	HOSPITALIZATION INS.	4800	92400		30670	61730	33.3	33.1	390-	.4-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	14732			14732	33.3		14,732-	100.0-
12276	EMPLOYEE BENEFITS		201465		56483	144982	33.3	28.0	32,015-	15.8-
39384	PERSONAL SERVICES		602463		167936	434527	33.3	27.8	98,655-	16.3-
	OFFICE SUPPLIES									
	PAPER	5003	2277		501	1776	33.3	22.0	773-	33.9-
	PRINTED FORMS	5005	500		347	153	33.3	69.4	541	108.2
541	OTHER EXPENDABLE OFF.S	5010	3991		1297	2694	33.3	32.4	99-	2.4-
165	MINOR OFFICE EQUIP/FUR	5020	4241		263	3978	33.3	6.2	3,451-	81.3-
	PHOTO SUPPLIES	5040	500			500	33.3		500-	100.0-
330	SUBSCRIPTIONS,MAGS,MAP	5050	330		330		33.3	100.0	660	200.0
	BOOKS	5070	1000			1000	33.3		1,000-	100.0-
	COMPUTER SUPPLIES	5080								
1036	OFFICE SUPPLIES		12839		2738	10101	33.3	21.3	4,625-	36.0-
	OPERATING SUPPLIES									
	FOOD	5115								
777	GAS AND OIL	5250	10880		2960	7921	33.3	27.2	2,000-	18.3-
	LUBRICANTS	5255								
	WEARING APPAREL	5355	2120		993	1127	33.3	46.8	859	40.5
	MINOR EQUIPMENT	5460	100			100	33.3		100-	100.0-
	OTHER OPERATING MATL/S	5590								
777	OPERATING SUPPLIES		13100		3952	9148	33.3	30.1	1,244-	9.4-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	PAINT AND PAINTING SPL	5650								
23	MTR VEHICLE REP. PTS/S	5700	3500	63	1088	2350	33.3	31.0	236-	6.7-
	COMMUNICATION REPAIR P	5750	500			500	33.3		500-	100.0-

23	REPAIR & MAINTENANCE		4000	63	1088	2850	33.3	27.2	736-	18.4-
1837	SUPPLIES AND EXPENSES		29939	63	7778	22098	33.3	25.9	6,605-	22.0-
	PROFESSIONAL SERVICES									
	DEMOLITION	6013	6300		6230	70	33.3	98.8	12,390	196.6
2250	ASBESTOS REMOVAL	6014	31900	5,522	2250	24128	33.3	7.0	25,150-	78.8-
750	TITLE OPINIONS	6016	21800		2450	19350	33.3	11.2	14,450-	66.2-
900	LOT CLEARING	6018	8400	750	6425	1225	33.3	76.4	10,875	129.4
	MEDICAL	6027								
194	OTHER PROFESSIONAL SER	6049	8700	625	1476	6599	33.3	16.9	4,272-	49.1-
4094	PROFESSIONAL SERVICE		77100	6,897	18831	51372	33.3	24.4	20,606-	26.7-
	COMMUNICATIONS									
746	TELEPHONE AND TELEGRAP	6060	7600		1104-	8704	33.3	14.5	4,288-	56.4-
	POSTAGE	6070								
746	COMMUNICATIONS		7600		1104-	8704	33.3	14.5	4,288-	56.4-
	TRANSPORTATION									
843	TRAVEL EXPENSE	6110	8635	802	6774	1058	33.3	78.4	11,687	135.3
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130	300			300	33.3		300-	100.0-
843	TRANSPORTATION		8935	802	6774	1358	33.3	75.8	11,387	127.4
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	50000			50000	33.3		50,000-	100.0-
	FILM PROCESSING	6240								
	PRINTING AND BINDING		50000			50000	33.3		50,000-	100.0-
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365	1100			1100	33.3		1,100-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	2500	32	90	2378	33.3	3.6	2,230-	89.2-
	COMMUNICATION EQ. R&M	6390	1000			1000	33.3		1,000-	100.0-
	CLEANING AND PAINTING	6392								
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	500			500	33.3		500-	100.0-
	REPR/MAINT-OUTSIDE L		5100	32	90	4978	33.3	1.7	4,830-	94.7-
	RENTALS									
110	OTHER RENT	6449	5630		1644	3986	33.3	29.2	698-	12.3-
110	RENTALS		5630		1644	3986	33.3	29.2	698-	12.3-
	OTHER SERVICES & CHARGE									

650	DUES AND MEMBERSHIPS	6840	2400		650	1750	33.3	27.0	450-	18.7-
300	REGISTRATION FEE/TUITI	6845	4430	1,240	1150	2040	33.3	25.9	980-	22.1-
950	OTHER SERVICES & CHA		6830	1,240	1800	3790	33.3	26.3	1,430-	20.9-
6743	OTHER SERVICES & CHAR		161195	8,971	28035	124189	33.3	17.3	77,089-	47.8-
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY									
47964	EXPENDITURES		793597	9,034	203749	580814	33.3	25.6	182,349-	22.9-

001190 - GENERAL FUND-P/S CONTRAC.SER

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
8369	OVERTIME	4300	160000		42023	117977	33.3	26.2	33,930-	21.2-
8369	SALARIES		160000		42023	117977	33.3	26.2	33,930-	21.2-
	EMPLOYEE BENEFITS									
1318	STATE RETIREMENT	4600	31500		6590	24910	33.3	20.9	11,730-	37.2-
618	F.I.C.A. TAXES	4700	15300		3067	12233	33.3	20.0	6,098-	39.8-
815	HOSPITALIZATION INS.	4800	15000		4108	10892	33.3	27.3	2,676-	17.8-
2751	EMPLOYEE BENEFITS		61800		13766	48035	33.3	22.2	20,502-	33.1-
11120	PERSONAL SERVICES		221800		55789	166011	33.3	25.1	54,432-	24.5-
	PROFESSIONAL SERVICES									
8443	MEDICAL	6027	175000		89780	85220	33.3	51.3	94,340	53.9
	OTHER PROF.-JAIL DIV G	6048								
8443	PROFESSIONAL SERVICE		175000		89780	85220	33.3	51.3	94,340	53.9
	OTHER SERVICES & CHARGE									
73999	JAIL EXPENSE	6815	1025000		170525	854475	33.3	16.6	513,424-	50.0-
	DISTRICT ATT'Y SUBSIDY	6816								
	JAIL IMPR-CITY SHARE	6826								
	AMBULANCE SERV.CONTRIB	6860								
	EMERGENCY MGMT.CONTRIB	6865	101000		25250	75750	33.3	25.0	25,250-	25.0-
	USM CITIZEN CORPS COUN	6866								
	USM TITLE V CONTRACT	6867								
	JUVENILLE ACCT.INCENTI	6868								
	METH GRANT CONTRACT	6869								
	SERVICES NOT SPECIFIED	6999								
73999	OTHER SERVICES & CHA		1126000		195775	930225	33.3	17.3	538,674-	47.8-
82442	OTHER SERVICES & CHAR		1301000		285555	1015445	33.3	21.9	444,334-	34.1-
	VEHICLES									
	AUTOMOBILES	7400								
	VEHICLES									
	CAPITAL OUTLAY									
93562	EXPENDITURES		1522800		341344	1181456	33.3	22.4	498,768-	32.7-

001191 - GENERAL FUND-TRAFFIC MAINT.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
17277	REGULAR WAGES	4000	282446		62930	219516	33.3	22.2	93,656-	33.1-
	DISASTER RECOVERY WAGE	4010								
796	OVERTIME	4300	12000		5476	6524	33.3	45.6	4,428	36.9
	DISASTER RECOVERY OVER	4310								
18073	SALARIES		294446		68407	226039	33.3	23.2	89,224-	30.3-
	EMPLOYEE BENEFITS									
2847	STATE RETIREMENT	4600	46375		10774	35601	33.3	23.2	14,053-	30.3-
1339	F.I.C.A. TAXES	4700	22525		5056	17469	33.3	22.4	7,357-	32.6-
4000	HOSPITALIZATION INS.	4800	66000		20150	45850	33.3	30.5	5,550-	8.4-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	13721			13721	33.3		13,721-	100.0-
8185	EMPLOYEE BENEFITS		149121		35980	113141	33.3	24.1	41,181-	27.6-
26259	PERSONAL SERVICES		443567		104387	339180	33.3	23.5	130,405-	29.3-
	OFFICE SUPPLIES									
	PAPER	5003	400			400	33.3		400-	100.0-
	PRINTED FORMS	5005								
72-	OTHER EXPENDABLE OFF.S	5010	1200		408	792	33.3	34.0	24	2.0
	MINOR OFFICE EQUIP/FUR	5020	1000			1000	33.3		1,000-	100.0-
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	500			500	33.3		500-	100.0-
	COMPUTER SUPPLIES	5080	600		184	416	33.3	30.6	48-	8.0-
72-	OFFICE SUPPLIES		3700		592	3108	33.3	16.0	1,924-	52.0-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	200			200	33.3		200-	100.0-
	HOUSEHOLD SUPPLIES	5110	1500		245	1255	33.3	16.3	764-	50.9-
	FOOD	5115								
	MEDICAL SUPPLIES	5120	50			50	33.3		50-	100.0-
	CHEMICALS	5130	600			600	33.3		600-	100.0-
1014	GAS AND OIL	5250	18000		4178	13822	33.3	23.2	5,466-	30.3-
	LUBRICANTS	5255	100			100	33.3		100-	100.0-
38	DIESEL FUEL	5257	2000		483	1517	33.3	24.1	550-	27.5-
	WEARING APPAREL	5355	2100			2100	33.3		2,100-	100.0-
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	HORT./LANDSCAPING SPLY	5440								
297	HAND TOOLS	5450	2520		754	1766	33.3	29.9	258-	10.2-

	MINOR EQUIPMENT	5460	12900		2135	10765	33.3	16.5	6,494-	50.3-
9417	TRAFFIC CONTROL EQ. SP	5540	58600		16133	42467	33.3	27.5	10,200-	17.4-
5295	TRAFFIC SIGNS	5545	15000	30	6867	8103	33.3	45.7	5,601	37.3
	STREET MARKING SUPPLIE	5550	3000			3000	33.3		3,000-	100.0-
277	OTHER OPERATING MATL/S	5590	1600		986	614	33.3	61.6	1,358	84.8
16338	OPERATING SUPPLIES		118170	30	31780	86360	33.3	26.8	22,830-	19.3-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	2543		1444	1099	33.3	56.7	1,789	70.3
	ELECTRICAL SUPPLIES	5605	3000			3000	33.3		3,000-	100.0-
	STRUCTURAL STEEL & IRO	5620	957			957	33.3		957-	100.0-
545	PAINT AND PAINTING SPL	5650	6612		800	5812	33.3	12.0	4,212-	63.7-
289-	MTR VEHICLE REP. PTS/S	5700	5029	376	2079	2573	33.3	41.3	1,208	24.0
1619	COMMUNICATION REPAIR P	5750	1700		1619	81	33.3	95.2	3,157	185.7
	OTHER REPAIR/MAINT. SP	5990	500			500	33.3		500-	100.0-
	DISASTER REPAIR SUPPLI	5995								
1876	REPAIR & MAINTENANCE		20341	376	5943	14022	33.3	29.2	2,511-	12.3-
18142	SUPPLIES AND EXPENSES		142211	406	38315	103490	33.3	26.9	27,265-	19.1-
	PROFESSIONAL SERVICES									
	MEDICAL	6027								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
126	TELEPHONE AND TELEGRAP	6060	1000		155	845	33.3	15.5	534-	53.4-
	POSTAGE	6070								
126	COMMUNICATIONS		1000		155	845	33.3	15.5	534-	53.4-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	1000		38-	1038	33.3	3.8	886-	88.6-
45	FREIGHT	6120	525		452	73	33.3	86.0	831	158.2
	MESSENGER/EXPRESS SERV	6130								
45	TRANSPORTATION		1525		414	1111	33.3	27.1	283-	18.5-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	UTILITIES									
172	GAS	6300	2000		233	1767	33.3	11.6	1,300-	65.0-
1046	ELECTRICITY	6305	16000		4541	11460	33.3	28.3	2,376-	14.8-
	TRAFFIC LIGHT ELECTRIC	6310								
1218	UTILITIES		18000		4774	13226	33.3	26.5	3,678-	20.4-

	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	DISASTER REPAIRS	6351								
	STREETS & STRUCTURES R	6360								
	OFFICE EQUIPMENT R&M	6365	500			500	33.3		500-	100.0-
	TRAFFIC CONTROL EQ. R&	6375	8000			8000	33.3		8,000-	100.0-
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382	150			150	33.3		150-	100.0-
930	MOTOR VEHICLE EQ. R&M	6384	4150		930	3220	33.3	22.4	1,360-	32.7-
	COMMUNICATION EQ. R&M	6390	825		450	375	33.3	54.5	525	63.6
45	DISINFECT./EXTERMINATI	6394	700		90	610	33.3	12.8	430-	61.4-
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	200			200	33.3		200-	100.0-
	OTHER REPAIRS AND MAIN	6399	1200		39	1161	33.3	3.2	1,082-	90.1-
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975	REPR/MAINT-OUTSIDE L		15725		1509	14216	33.3	9.5	11,197-	71.2-
	RENTALS									
	MACHINERY RENT	6420								
	CYLINDER RENT	6425								
266	UNIFORM RENT	6430	2000		1780	220	33.3	89.0	3,340	167.0
	MOP-MAT-RAG RENT	6435	300			300	33.3		300-	100.0-
26	OTHER RENT	6449	200		109	91	33.3	54.5	127	63.5
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291	RENTALS		2500		1889	611	33.3	75.5	3,167	126.6
	OTHER SERVICES & CHARGE									
460	DUES AND MEMBERSHIPS	6840	800		460	340	33.3	57.5	580	72.5
	REGISTRATION FEE/TUITI	6845	2000		1075	925	33.3	53.7	1,225	61.2
	LAUNDRY	6850								
507	SERVICES NOT SPECIFIED	6999	5850		1261	4589	33.3	21.5	2,066-	35.3-
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967	OTHER SERVICES & CHA		8650		2796	5854	33.3	32.3	262-	3.0-
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3622	OTHER SERVICES & CHAR		47400		11537	35863	33.3	24.3	12,788-	26.9-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
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	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	TRAFFIC CONTROL EQUIP.	7360								
	OTHER EQUIPMENT	7399								
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	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	HEAVY TRUCKS	7430								
	SPECIAL TRUCKS	7450								

	VEHICLES								
	CAPITAL OUTLAY								
48023	EXPENDITURES	633178	406	154239	478533	33.3	24.3	170,460-	26.9-

001201 - GENERAL FUND-STREET DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
87558	REGULAR WAGES	4000	1128283		345038	783245	33.3	30.5	93,169-	8.2-
	DISASTER RECOVERY WAGE	4010								
1073	OVERTIME	4300	30000		6507	23493	33.3	21.6	10,478-	34.9-
	DISASTER RECOVERY OVER	4310								
88631	SALARIES		1158283		351545	806738	33.3	30.3	103,647-	8.9-
	EMPLOYEE BENEFITS									
13959	STATE RETIREMENT	4600	182430		55368	127062	33.3	30.3	16,326-	8.9-
6610	F.I.C.A. TAXES	4700	92825		26231	66594	33.3	28.2	14,131-	15.2-
21500	HOSPITALIZATION INS.	4800	283800		103900	179900	33.3	36.6	27,900	9.8
	UNEMPLOYMENT BENEFITS	4900	2200		2198	2	33.3	99.9	4,394	199.7
	WORKMAN'S COMPENSATION	4910	72129			72129	33.3		72,129-	100.0-
42070	EMPLOYEE BENEFITS		633384		187698	445686	33.3	29.6	70,290-	11.0-
130701	PERSONAL SERVICES		1791667		539243	1252424	33.3	30.0	173,937-	9.7-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
254	OTHER EXPENDABLE OFF.S	5010	500		303	197	33.3	60.6	409	81.8
	MINOR OFFICE EQUIP/FUR	5020	2500	2,273		227	33.3		2,500-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050								
254	OFFICE SUPPLIES		3000	2,273	303	424	33.3	10.1	2,090-	69.6-
	OPERATING SUPPLIES									
120	CLEANING/JANITORIAL SP	5100	3072		2124	948	33.3	69.1	3,300	107.4
367	HOUSEHOLD SUPPLIES	5110	2000		367	1633	33.3	18.3	898-	44.9-
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	16500		3711	12789	33.3	22.4	5,366-	32.5-
1317	GAS AND OIL	5250	35000	870	6744	27386	33.3	19.2	14,768-	42.1-
	LUBRICANTS	5255	1900			1900	33.3		1,900-	100.0-
4508	DIESEL FUEL	5257	55200		17542	37658	33.3	31.7	2,574-	4.6-
	WEARING APPAREL	5355	3700		3177	523	33.3	85.8	5,831	157.5
	ASPHALT & ASPHALT PROD	5400	27000		9-	27009	33.3		26,972-	99.8-
4454	CONCRETE, CEMENT, ETC.	5405	118200	12,540	5457	100203	33.3	4.6	101,828-	86.1-
	BRICK,STONE,MORTAR,ETC	5410	17000		15351	1649	33.3	90.3	29,053	170.9
8578	SAND,CLAY,GRVL,FILL DI	5415	21400	3,400	11905	6095	33.3	55.6	14,315	66.8
	DRAINAGE PIPE & CULVER	5420	11500	5,051		6450	33.3		11,500-	100.0-
	HORT./LANDSCAPING SPLY	5440	3000		558	2442	33.3	18.6	1,326-	44.2-
340	HAND TOOLS	5450	3000		1222	1779	33.3	40.7	666	22.2
	MINOR EQUIPMENT	5460	20000		1650	18350	33.3	8.2	15,050-	75.2-

	STREET MARKING SUPPLIE	5550								
954	OTHER OPERATING MATL/S	5590	18600		3828	14772	33.3	20.5	7,116-	38.2-
20637	OPERATING SUPPLIES		357072	21,861	73627	261584	33.3	20.6	136,190-	38.1-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	10000		1316	8684	33.3	13.1	6,052-	60.5-
	ELECTRICAL SUPPLIES	5605	5000			5000	33.3		5,000-	100.0-
	PLUMBING SUPPLIES	5610	1900		4	1896	33.3	.2	1,888-	99.3-
1836	STRUCTURAL STEEL & IRO	5620	4500		1836	2665	33.3	40.8	1,008	22.4
111-	PAINT AND PAINTING SPL	5650	3700		7	3693	33.3	.1	3,678-	99.4-
6754	MTR VEHICLE REP. PTS/S	5700	93491	7,626	42742	43123	33.3	45.7	34,735	37.1
	COMMUNICATION REPAIR P	5750	1000			1000	33.3		1,000-	100.0-
	AGRICLTRL REPAIR PTS/S	5755	1400			1400	33.3		1,400-	100.0-
	OTHER REPAIR/MAINT. SP	5990	334	540		206-	33.3		334-	100.0-
5433	DISASTER REPAIR SUPPLI	5995		22,785	5433	28218-			16,299	
13911	REPAIR & MAINTENANCE		121325	30,951	51338	39036	33.3	42.3	32,689	26.9
34801	SUPPLIES AND EXPENSES		481397	55,085	125268	301044	33.3	26.0	105,593-	21.9-
	PROFESSIONAL SERVICES									
	LOT CLEARING	6018								
	MEDICAL	6027								
150	OTHER PROFESSIONAL SER	6049	41900	75	1241	40584	33.3	2.9	38,176-	91.1-
150	PROFESSIONAL SERVICE		41900	75	1241	40584	33.3	2.9	38,176-	91.1-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	2600	318	42-	2324	33.3	1.6	2,474-	95.1-
17	FREIGHT	6120	800	165	509	126	33.3	63.6	727	90.8
	MESSENGER/EXPRESS SERV	6130								
17	TRANSPORTATION		3400	483	467	2451	33.3	13.7	1,998-	58.7-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
	ELECTRICITY	6305								
	UTILITIES									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
56380	DISASTER REPAIRS	6351		7,390	56380	63770-			169,140	

	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	STREETS & STRUCTURES R		603360	574,968	72743	493930	33.3	12.0	385,130-	63.8-
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382	1000			1000	33.3		1,000-	100.0-
4618	MOTOR VEHICLE EQ. R&M	6384	80300	2,035	12167	66098	33.3	15.1	43,798-	54.5-
	AGRICULTURAL EQ. R&M	6387								
	COMMUNICATION EQ. R&M	6390								
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	1000	65	450	485	33.3	45.0	350	35.0
2680	OTHER REPAIRS AND MAIN	6399	7000		6188	812	33.3	88.4	11,564	165.2
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63678	REPR/MAINT-OUTSIDE L		692660	1,159,426	147927	498555	33.3	21.3	248,878-	35.9-
	RENTALS									
	AUTOMOTIVE EQ. RENT	6415								
	MACHINERY RENT	6420	23000			23000	33.3		23,000-	100.0-
655	UNIFORM RENT	6430	8200		2950	5250	33.3	35.9	650	7.9
	OTHER RENT	6449								
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655	RENTALS		31200		2950	28250	33.3	9.4	22,350-	71.6-
	OTHER SERVICES & CHARGE									
190	DUES AND MEMBERSHIPS	6840	250		190	60	33.3	76.0	320	128.0
	REGISTRATION FEE/TUITI	6845	2750		70-	2820	33.3	2.5	2,540-	92.3-
	SERVICES NOT SPECIFIED	6999	1500		200	1300	33.3	13.3	900-	60.0-
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190	OTHER SERVICES & CHA		4500		320	4180	33.3	7.1	3,540-	78.6-
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64691	OTHER SERVICES & CHAR		773660	1,159,984	152904	574020	33.3	19.7	314,948-	40.7-
	IMPROVEMENT OTHER THAN									
	BRIDGES	7210								
	SEWERS									
	B/WAY, E. HARDY-SBA	7223								
	KAB/LANDSCAPING	7226								
	STREETS & ROADWAYS									
	OTHER IMPROVEMENTS	7295								
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	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	CONSTRUCTION EQUIPMENT	7345								
	COMMUNICATION EQUIPMEN	7355								
	PIPE	7370								
	OTHER EQUIPMENT	7399								
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	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	HEAVY TRUCKS	7430								
	DUMP TRUCKS	7440								
	SPECIAL TRUCKS	7450								

	VEHICLES								
	CAPITAL OUTLAY								
230193	EXPENDITURES	3046724	1,215,069	817415	2127489	33.3	26.8	594,478-	19.5-

001202 - GENERAL FUND-STREET LIGHTS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	UTILITIES									
92774	ELECTRICITY	6305	1170000		370275	799725	33.3	31.6	59,174-	5.0-
92774	UTILITIES		1170000		370275	799725	33.3	31.6	59,174-	5.0-
92774	OTHER SERVICES & CHAR		1170000		370275	799725	33.3	31.6	59,174-	5.0-
	IMPROVEMENT OTHER THAN STREET LIGHTING	7235								
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
92774	EXPENDITURES		1170000		370275	799725	33.3	31.6	59,174-	5.0-

001203 - GENERAL FUND-ENGR/PUBLIC SER

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
18297	REGULAR WAGES	4000	270035		74120	195915	33.3	27.4	47,675-	17.6-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300	500		64	436	33.3	12.8	308-	61.6-
	DISASTER RECOVERY OVER	4310								
18297	SALARIES		270535		74184	196351	33.3	27.4	47,983-	17.7-
	EMPLOYEE BENEFITS									
2882	STATE RETIREMENT	4600	42609		11684	30925	33.3	27.4	7,557-	17.7-
1396	F.I.C.A. TAXES	4700	20696		5657	15039	33.3	27.3	3,724-	17.9-
2500	HOSPITALIZATION INS.	4800	46200		14550	31650	33.3	31.4	2,550-	5.5-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	8952			8952	33.3		8,952-	100.0-
6778	EMPLOYEE BENEFITS		118957		31891	87066	33.3	26.8	23,283-	19.5-
25075	PERSONAL SERVICES		389492		106075	283417	33.3	27.2	71,266-	18.2-
	OFFICE SUPPLIES									
54	PAPER	5003	400		146	254	33.3	36.5	38	9.5
	PRINTED FORMS	5005								
112	OTHER EXPENDABLE OFF.S	5010	750		565	185	33.3	75.3	945	126.0
	MINOR OFFICE EQUIP/FUR	5020	3000			3000	33.3		3,000-	100.0-
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050	265			265	33.3		265-	100.0-
	MAPS FOR RESALE	5060								
	BOOKS	5070								
297	COMPUTER SUPPLIES	5080	700		518	182	33.3	74.0	854	122.0
463	OFFICE SUPPLIES		5115		1229	3886	33.3	24.0	1,427-	27.8-
	OPERATING SUPPLIES									
	FOOD	5115								
	MEDICAL SUPPLIES	5120	300			300	33.3		300-	100.0-
112	GAS AND OIL	5250	2400		552	1848	33.3	23.0	744-	31.0-
	LUBRICANTS	5255								
	WEARING APPAREL	5355	50			50	33.3		50-	100.0-
	HORT./LANDSCAPING SPLY	5440								
	MINOR EQUIPMENT	5460	800			800	33.3		800-	100.0-
	OTHER OPERATING MATL/S	5590	160			160	33.3		160-	100.0-
112	OPERATING SUPPLIES		3710		552	3158	33.3	14.8	2,054-	55.3-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	750			750	33.3		750-	100.0-
	ELECTRICAL SUPPLIES	5605	100			100	33.3		100-	100.0-

	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700	1250		80	1170	33.3	6.4	1,010-	80.8-
	COMMUNICATION REPAIR P	5750	100			100	33.3		100-	100.0-
	OTHER REPAIR/MAINT. SP	5990			45	45-			135	
	DISASTER REPAIR SUPPLI	5995								
	REPAIR & MAINTENANCE		2200		125	2075	33.3	5.6	1,824-	82.9-
575	SUPPLIES AND EXPENSES		11025		1906	9119	33.3	17.2	5,307-	48.1-
	PROFESSIONAL SERVICES									
5500	ENGINEERING	6015	210000		64401	145599	33.3	30.6	16,796-	7.9-
	CONSULTANT SERV/SURVEY	6020								
	ABSTRACTING & RECORDIN	6023								
	OTHER PROFESSIONAL SER	6049	67500		27908	39592	33.3	41.3	16,224	24.0
5500	PROFESSIONAL SERVICE		277500		92309	185191	33.3	33.2	572-	.2-
	COMMUNICATIONS									
110	TELEPHONE AND TELEGRAP	6060			390	390-			1,170	
44	POSTAGE	6070	1000		348	652	33.3	34.8	44	4.4
155	COMMUNICATIONS		1000		739	262	33.3	73.9	1,217	121.7
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	4000		307	3693	33.3	7.6	3,078-	76.9-
	FREIGHT	6120	600		65	535	33.3	10.8	404-	67.3-
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		4600		372	4228	33.3	8.0	3,484-	75.7-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BLUELINES	6210								
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE									
	UTILITIES									
147	GAS	6300	1800		206	1594	33.3	11.4	1,182-	65.6-
246	ELECTRICITY	6305	4000		1171	2829	33.3	29.2	486-	12.1-
393	UTILITIES		5800		1378	4422	33.3	23.7	1,666-	28.7-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	4000			4000	33.3		4,000-	100.0-
24906	DISASTER REPAIRS	6351			24906	24906-			74,718	
	STREETS & STRUCTURES R	6360								

	OFFICE EQUIPMENT R&M	6365	1000			1000	33.3		1,000-	100.0-
	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384	1000			1000	33.3		1,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
55	DISINFECT./EXTERMINATI	6394	700		110	590	33.3	15.7	370-	52.8-
	TOW IN CHARGES	6398								
24961	REPR/MAINT-OUTSIDE L		6700		25016	18316-	33.3	373.3	68,348	20.1
	RENTALS									
318	OFFICE EQUIPMENT RENT	6410	4015		1603	2412	33.3	39.9	794	19.7
	UNIFORM RENT	6430	400			400	33.3		400-	100.0-
	OTHER RENT	6449								
318	RENTALS		4415		1603	2812	33.3	36.3	394	8.9
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840	359			359	33.3		359-	100.0-
	REGISTRATION FEE/TUITI	6845	3000			3000	33.3		3,000-	100.0-
30	SERVICES NOT SPECIFIED	6999			30	30-			90	
30	OTHER SERVICES & CHA		3359		30	3329	33.3	.8	3,269-	97.3-
31357	OTHER SERVICES & CHAR		303374		121446	181928	33.3	40.0	60,964	20.0
	LAND									
	EASEMENTS	7010								
	LAND									
	MACHINERY AND EQUIPMENT									
	ENGINEERING	7305								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	EMERGENCY GENERATORS	7362								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY									
57007	EXPENDITURES		703891		229428	474463	33.3	32.5	15,607-	2.2-

001204 - GENERAL FUND-SHOP DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
24390	REGULAR WAGES	4000	332427		95205	237222	33.3	28.6	46,811-	14.0-
	DISASTER RECOVERY WAGE	4010								
72	OVERTIME	4300	15000		956	14044	33.3	6.3	12,132-	80.8-
	DISASTER RECOVERY OVER	4310								
24462	SALARIES		347427		96162	251265	33.3	27.6	58,941-	16.9-
	EMPLOYEE BENEFITS									
3853	STATE RETIREMENT	4600	54720		15145	39575	33.3	27.6	9,284-	16.9-
1809	F.I.C.A. TAXES	4700	26578		7109	19469	33.3	26.7	5,250-	19.7-
5500	HOSPITALIZATION INS.	4800	79200		27600	51600	33.3	34.8	3,600	4.5
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	10072			10072	33.3		10,072-	100.0-
11162	EMPLOYEE BENEFITS		171070		49854	121216	33.3	29.1	21,508-	12.5-
35624	PERSONAL SERVICES		518497		146016	372481	33.3	28.1	80,449-	15.5-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020								
	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
4667	CHEMICALS	5130	13500		12901	599	33.3	95.5	25,203	186.6
187	GAS AND OIL	5250	10000		7818	2182	33.3	78.1	13,454	134.5
	LUBRICANTS	5255								
	DIESEL FUEL	5257	3000		334	2666	33.3	11.1	1,998-	66.6-
	WEARING APPAREL	5355								
	HAND TOOLS	5450	1000			1000	33.3		1,000-	100.0-
	MINOR EQUIPMENT	5460	1500			1500	33.3		1,500-	100.0-
415	OTHER OPERATING MATL/S	5590	1000		494	506	33.3	49.4	482	48.2
5269	OPERATING SUPPLIES		30000		21547	8453	33.3	71.8	34,641	115.4
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	800		252	548	33.3	31.5	44-	5.5-
	ELECTRICAL SUPPLIES	5605	800			800	33.3		800-	100.0-
	PLUMBING SUPPLIES	5610	300			300	33.3		300-	100.0-

	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								
39	MTR VEHICLE REP. PTS/S	5700	3645	77	3216	353	33.3	88.2	6,003	164.6
	TROLLEY REPR PARTS & S	5710								
	COMMUNICATION REPAIR P	5750	500			500	33.3		500-	100.0-
	EXPENDABLE WELDING SPL	5770	4700		4310	390	33.3	91.7	8,230	175.1
400	OTHER REPAIR/MAINT. SP	5990	5100		815	4285	33.3	15.9	2,654-	52.0-
439	REPAIR & MAINTENANCE		15845	77	8593	7175	33.3	54.2	9,934	62.6
5708	SUPPLIES AND EXPENSES		45845	77	30140	15628	33.3	65.7	44,575	97.2
	TRANSPORTATION									
	FREIGHT	6120								
	TRANSPORTATION									
	INSURANCE									
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
1902	GAS	6300	3000		3767	767-	33.3	125.5	8,301	276.7
1669	ELECTRICITY	6305	35000		6403	28597	33.3	18.2	15,790-	45.1-
3571	UTILITIES		38000		10169	27831	33.3	26.7	7,492-	19.7-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382	1000			1000	33.3		1,000-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	1800			1800	33.3		1,800-	100.0-
	TROLLEY EQUIPMENT R&M	6385								
	COMMUNICATION EQ. R&M	6390								
	DISINFECT./EXTERMINATI	6394								
	TOW IN CHARGES	6398								
	OTHER REPAIRS AND MAIN	6399								
	REPR/MAINT-OUTSIDE L		2800			2800	33.3		2,800-	100.0-
	RENTALS									
	CYLINDER RENT	6425	700		410	290	33.3	58.5	530	75.7
193	UNIFORM RENT	6430	2500		854	1646	33.3	34.1	62	2.4
	OTHER RENT	6449								
193	RENTALS		3200		1264	1936	33.3	39.5	592	18.5
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									

3764	OTHER SERVICES & CHAR		44000		11433	32567	33.3	25.9	9,700-	22.0-
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	PLANT EQUIPMENT	7340								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY									
45097	EXPENDITURES		608342	77	187589	420677	33.3	30.8	45,574-	7.4-

001205 - GENERAL FUND-G O & F S DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
12237	REGULAR WAGES	4000	181440		47643	133797	33.3	26.2	38,510-	21.2-
	DISASTER RECOVERY WAGE	4010								
61	OVERTIME	4300	2500		1125	1375	33.3	45.0	875	35.0
	DISASTER RECOVERY OVER	4310								
12298	SALARIES		183940		48768	135172	33.3	26.5	37,636-	20.4-
	EMPLOYEE BENEFITS									
1937	STATE RETIREMENT	4600	28971		7681	21290	33.3	26.5	5,927-	20.4-
907	F.I.C.A. TAXES	4700	14071		3594	10477	33.3	25.5	3,289-	23.3-
3000	HOSPITALIZATION INS.	4800	46200		14600	31600	33.3	31.6	2,400-	5.1-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	1722			1722	33.3		1,722-	100.0-
5844	EMPLOYEE BENEFITS		91464		25875	65589	33.3	28.2	13,838-	15.1-
18142	PERSONAL SERVICES		275404		74642	200762	33.3	27.1	51,478-	18.6-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
84	OTHER EXPENDABLE OFF.S	5010	2000		1558	442	33.3	77.9	2,674	133.7
	MINOR OFFICE EQUIP/FUR	5020	1000		300	700	33.3	30.0	100-	10.0-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
84	OFFICE SUPPLIES		3000		1858	1142	33.3	61.9	2,574	85.8
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	2450		253	2197	33.3	10.3	1,690-	68.9-
	HOUSEHOLD SUPPLIES	5110	400			400	33.3		400-	100.0-
	MEDICAL SUPPLIES	5120	300			300	33.3		300-	100.0-
	CHEMICALS	5130								
	DIESEL FUEL-GENERATORS	5257	1800			1800	33.3		1,800-	100.0-
	WEARING APPAREL	5355								
	HAND TOOLS	5450								
	MINOR EQUIPMENT	5460								
154	OTHER OPERATING MATL/S	5590	500		379	121	33.3	75.8	637	127.4
154	OPERATING SUPPLIES		5450		632	4818	33.3	11.5	3,554-	65.2-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	500			500	33.3		500-	100.0-
	ELECTRICAL SUPPLIES	5605	550			550	33.3		550-	100.0-
	PLUMBING SUPPLIES	5610	100		45	55	33.3	45.0	35	35.0

	PAINT AND PAINTING SPL	5650	500			500	33.3		500-	100.0-
	COMMUNICATION REPAIR P	5750								
	REPAIR & MAINTENANCE		1650		45	1605	33.3	2.7	1,514-	91.7-
238	SUPPLIES AND EXPENSES		10100		2535	7565	33.3	25.0	2,494-	24.6-
	PROFESSIONAL SERVICES									
3146	OTHER PROFESSIONAL SER	6049	6650		5003	1647	33.3	75.2	8,359	125.6
3146	PROFESSIONAL SERVICE		6650		5003	1647	33.3	75.2	8,359	125.6
	COMMUNICATIONS									
893	TELEPHONE AND TELEGRAP	6060	5000		1166	3834	33.3	23.3	1,502-	30.0-
	POSTAGE	6070								
893	COMMUNICATIONS		5000		1166	3834	33.3	23.3	1,502-	30.0-
	TRANSPORTATION									
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION									
	UTILITIES									
60	ELECTRICITY	6305	800		238	562	33.3	29.7	86-	10.7-
60	UTILITIES		800		238	562	33.3	29.7	86-	10.7-
	REPR/MAINT-OUTSIDE LABO									
	OFFICE EQUIPMENT R&M	6365								
	HOUSEHOLD EQUIPMENT R&	6370								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
	COMMUNICATION EQ. R&M	6390								
220	DISINFECT./EXTERMINATI	6394	1500		440	1060	33.3	29.3	180-	12.0-
220	REPR/MAINT-OUTSIDE L		1500		440	1060	33.3	29.3	180-	12.0-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	UNIFORM RENT	6430	650			650	33.3		650-	100.0-
99	MOP-MAT-RAG RENT	6435	1900		422	1478	33.3	22.2	634-	33.3-
99	RENTALS		2550		422	2128	33.3	16.5	1,284-	50.3-
	OTHER SERVICES & CHARGE									
	REGISTRATION FEE/TUITI	6845								
	LAUNDRY	6850								
	OTHER SERVICES & CHA									
4418	OTHER SERVICES & CHAR		16500		7269	9231	33.3	44.0	5,307	32.1
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									

	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP. 7320									
	OFFICE FURN/EQUIP. 7325									
	DATA PROCESSING EQUIP. 7327									
	FUEL FAC.SOFTWARE/EQ 7328									
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	MACHINERY AND EQUIPM									
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	CAPITAL OUTLAY									
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22797	EXPENDITURES	302004		84446	217558	33.3	27.9	48,666-	16.1-

001206 - GENERAL FUND-DRAINAGE DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
8122	REGULAR WAGES	4000	105582		32343	73239	33.3	30.6	8,552-	8.0-
	DISASTER RECOVERY WAGE	4010								
120	OVERTIME	4300	3000		338	2662	33.3	11.2	1,986-	66.2-
	DISASTER RECOVERY OVER	4310								
8242	SALARIES		108582		32681	75901	33.3	30.0	10,538-	9.7-
	EMPLOYEE BENEFITS									
1298	STATE RETIREMENT	4600	17102		5147	11955	33.3	30.0	1,660-	9.7-
625	F.I.C.A. TAXES	4700	9936		2480	7456	33.3	24.9	2,496-	25.1-
2000	HOSPITALIZATION INS.	4800	26400		10550	15850	33.3	39.9	5,250	19.8
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	7382			7382	33.3		7,382-	100.0-
3923	EMPLOYEE BENEFITS		61320		18177	43143	33.3	29.6	6,788-	11.0-
12165	PERSONAL SERVICES		169902		50858	119044	33.3	29.9	17,328-	10.1-
	OPERATING SUPPLIES									
	CHEMICALS	5130	2000			2000	33.3		2,000-	100.0-
331	GAS AND OIL	5250	5000		712	4288	33.3	14.2	2,864-	57.2-
	LUBRICANTS	5255								
	DIESEL FUEL	5257	500			500	33.3		500-	100.0-
150	WEARING APPAREL	5355	1200		702	498	33.3	58.5	906	75.5
8866	CONCRETE, CEMENT, ETC.	5405	22300		17110	5190	33.3	76.7	29,030	130.1
	BRICK,STONE,MORTAR,ETC	5410	2000			2000	33.3		2,000-	100.0-
	SAND,CLAY,GRVL,FILL DI	5415	2500			2500	33.3		2,500-	100.0-
2932	DRAINAGE PIPE & CULVER	5420	24000		9632	14368	33.3	40.1	4,896	20.4
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	1000			1000	33.3		1,000-	100.0-
	MINOR EQUIPMENT	5460	1400		655	745	33.3	46.7	565	40.3
119	OTHER OPERATING MATL/S	5590	1200	8	439	753	33.3	36.5	117	9.7
	OTHER OPER.MATL-BROWNS	5591								
12398	OPERATING SUPPLIES		63100	8	29250	33843	33.3	46.3	24,650	39.0
	REPAIR & MAINTENANCE SP									
	STRUCTURAL STEEL & IRO	5620								
	MTR VEHICLE REP. PTS/S	5700	700			700	33.3		700-	100.0-
	COMMUNICATION REPAIR P	5750								
	REPAIR & MAINTENANCE		700			700	33.3		700-	100.0-
12398	SUPPLIES AND EXPENSES		63800	8	29250	34543	33.3	45.8	23,950	37.5

	PROFESSIONAL SERVICES									
	CONSULTANT SERV-BROWNS	6020								
490	OTHER PROFESSIONAL SER	6049	43800		16177	27623	33.3	36.9	4,731	10.8
490	PROFESSIONAL SERVICE		43800		16177	27623	33.3	36.9	4,731	10.8
	TRANSPORTATION									
	TRVL EXP-BROWNSFIELD P	6116								
	FREIGHT	6120								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
	ELECTRICITY	6305								
	UTILITIES									
	REPR/MAINT-OUTSIDE LABO									
6150	STREETS & STRUCTURES R	6360	181500	65,000	4900	111600	33.3	2.6	166,800-	91.9-
	MOTOR VEHICLE EQ. R&M	6384	5000			5000	33.3		5,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
	TOW IN CHARGES	6398	200			200	33.3		200-	100.0-
6150	REPR/MAINT-OUTSIDE L		186700	65,000	4900	116800	33.3	2.6	172,000-	92.1-
	RENTALS									
	MACHINERY RENT	6420								
	UNIFORM RENT	6430	800			800	33.3		800-	100.0-
	RENTALS		800			800	33.3		800-	100.0-
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
6640	OTHER SERVICES & CHAR		231300	65,000	21077	145223	33.3	9.1	168,068-	72.6-
	LAND									
	LAND	7000								
	EASEMENTS	7010								
	LAND									
	IMPROVEMENT OTHER THAN									
	DRAINS									
	OTHER IMPROVEMENTS	7295								
	MISC. PROJECTS									
	IMPROVEMENT OTHER TH									

	MACHINERY AND EQUIPMENT									
	DP EQUIP-BROWNSFIELD P	7324								
	CONSTRUCTION EQUIPMENT	7345								
	PIPE	7370								
	OTHER EQUIPMENT	7399								
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	MACHINERY AND EQUIPM									
	VEHICLES									
	PICK UP TRUCKS	7420								
	DUMP TRUCKS	7440								
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	VEHICLES									
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	CAPITAL OUTLAY									
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31203	EXPENDITURES		465002	65,008	101185	298809	33.3	21.7	161,446-	34.7-

001207 - GENERAL FUND-CONSTRUCTION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
35308	REGULAR WAGES	4000	433064		140478	292586	33.3	32.4	11,630-	2.6-
	DISASTER RECOVERY WAGE	4010								
44	OVERTIME	4300	8000		2569	5431	33.3	32.1	292-	3.6-
	DISASTER RECOVERY OVER	4310								
35352	SALARIES		441064		143047	298017	33.3	32.4	11,922-	2.7-
	EMPLOYEE BENEFITS									
5568	STATE RETIREMENT	4600	69468		22530	46938	33.3	32.4	1,878-	2.7-
2595	F.I.C.A. TAXES	4700	35492		10512	24980	33.3	29.6	3,956-	11.1-
7505	HOSPITALIZATION INS.	4800	105600		37670	67930	33.3	35.6	7,410	7.0
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	43547			43547	33.3		43,547-	100.0-
15668	EMPLOYEE BENEFITS		254607		70712	183895	33.3	27.7	42,471-	16.6-
51020	PERSONAL SERVICES		695671		213759	481912	33.3	30.7	54,393-	7.8-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020	3400		200	3200	33.3	5.8	2,800-	82.3-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	150			150	33.3		150-	100.0-
	OFFICE SUPPLIES		3550		200	3350	33.3	5.6	2,950-	83.0-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	CHEMICALS	5130								
1564	GAS AND OIL	5250	23150		6194	16956	33.3	26.7	4,568-	19.7-
	LUBRICANTS	5255	400			400	33.3		400-	100.0-
15	DIESEL FUEL	5257	1200		79	1121	33.3	6.5	962-	80.1-
	WEARING APPAREL	5355	750		102	648	33.3	13.6	444-	59.2-
	CONCRETE, CEMENT, ETC.	5405	1100			1100	33.3		1,100-	100.0-
	SAND,CLAY,GRVL,FILL DI	5415								
	DRAINAGE PIPE & CULVER	5420								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	8800		62	8738	33.3	.7	8,614-	97.8-
	MINOR EQUIPMENT	5460	7200		655	6545	33.3	9.0	5,234-	72.6-
	TRAFFIC SIGNS	5545								
1226	OTHER OPERATING MATL/S	5590	5000	270	3186	1544	33.3	63.7	4,558	91.1
2805	OPERATING SUPPLIES		47600	270	10278	37052	33.3	21.5	16,766-	35.2-

	REPAIR & MAINTENANCE SP									
789	BUILDING MATERIALS & S	5600	8500	47	3318	5135	33.3	39.0	1,454	17.1
2195	ELECTRICAL SUPPLIES	5605	9500		7323	2177	33.3	77.0	12,469	131.2
143	PLUMBING SUPPLIES	5610	3000		725	2275	33.3	24.1	824-	27.4-
	STRUCTURAL STEEL & IRO	5620	750			750	33.3		750-	100.0-
	PAINT AND PAINTING SPL	5650	1200		1131	69	33.3	94.2	2,193	182.7
1200	MTR VEHICLE REP. PTS/S	5700	8800		2474	6326	33.3	28.1	1,378-	15.6-
	GENERATOR REP. PTS/SPL	5705								
	COMMUNICATION REPAIR P	5750	1000			1000	33.3		1,000-	100.0-
	AGRICLTRL REPAIR PTS/S	5755	500			500	33.3		500-	100.0-
	EXPENDABLE WELDING SPL	5770								
	OTHER REPAIR/MAINT. SP	5990	3100		88-	3188	33.3	2.8	2,836-	91.4-
4326	REPAIR & MAINTENANCE		36350	47	14883	21420	33.3	40.9	8,299	22.8
	REPR PARTS/SUPPLIES									
	REPR/MAINT SPL-EATON S	5991 01								
	REPR/MAINT SPL-DOWNTOW	5991 02	60000		4012-	64012	33.3	6.6	47,964-	79.9-
90	DISASTER REPAIR SUPPLI				90	90-	33.3	6.6	270	79.9-
	8/29/05 STORM SUPPLIES						33.3	6.6		79.9-
90	REPR PARTS/SUPPLIES		60000		3921-	63921	33.3	6.5	48,236-	80.3-
7222	SUPPLIES AND EXPENSES		147500	317	21440	125744	33.3	14.5	83,180-	56.3-
	PROFESSIONAL SERVICES									
	DEMOLITION	6013								
	ENGINEERING	6015								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
221	TELEPHONE AND TELEGRAP	6060	2200		307	1893	33.3	13.9	1,278-	58.0-
221	COMMUNICATIONS		2200		307	1893	33.3	13.9	1,278-	58.0-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	1000		25-	1025	33.3	2.5	924-	92.4-
	FREIGHT	6120								
	TRANSPORTATION		1000		25-	1025	33.3	2.5	924-	92.4-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
	GAS	6300								
1458	ELECTRICITY	6305	3500		5345	1845-	33.3	152.7	12,535	358.1
1458	UTILITIES		3500		5345	1845-	33.3	152.7	12,535	358.1
	REPR/MAINT-OUTSIDE LABO									

	8/29/05 FACILITY REPRS									
	8/29/05 STORM REPAIRS	6353								
	8/29/05 INFRAST REPRS									
	STREETS & STRUCTURES R	6360								
	OFFICE EQUIPMENT R&M	6365								
	MINOR EQUIPMENT R&M	6382								
	GENERATOR R&M	6383	63000		62937	63	33.3	99.9	125,811	199.7
	MOTOR VEHICLE EQ. R&M	6384	3000		475	2525	33.3	15.8	1,574-	52.4-
	AGRICULTURAL EQ. R&M	6387								
	COMMUNICATION EQ. R&M	6390	1000			1000	33.3		1,000-	100.0-
	DOWNTOWN LIGHTS R&M	6391	5432			5432	33.3		5,432-	100.0-
	DISINFECT./EXTERMINATI	6394	200			200	33.3		200-	100.0-
	REPRS/MAINT-EATON SCHL	6395								
	TOW IN CHARGES	6398	200			200	33.3		200-	100.0-
	OTHER REPAIRS AND MAIN	6399	800			800	33.3		800-	100.0-
	REPR/MAINT-OUTSIDE L		73632		63412	10220	33.3	86.1	116,604	158.3
	RENTALS									
	LAND RENT	6400								
	MACHINERY RENT	6420								
	CYLINDER RENT	6425	550			550	33.3		550-	100.0-
	UNIFORM RENT	6430	3350			3350	33.3		3,350-	100.0-
	OTHER RENT	6449	200			200	33.3		200-	100.0-
	RENTALS		4100			4100	33.3		4,100-	100.0-
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
1679	OTHER SERVICES & CHAR		84432		69039	15393	33.3	81.7	122,685	145.3
	LAND									
	EASEMENTS	7010								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	DRAINS	7215								
	OTHER IMPROVEMENTS									
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	8/29/05 STORM EQUIP	7302								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								

	AGRICULTURAL EQUIPMENT	7335									
	CONSTRUCTION EQUIPMENT	7345									
	COMMUNICATION EQUIPMEN	7355									
	PIPE	7370									
	OTHER EQUIPMENT	7399									
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	MACHINERY AND EQUIPM										
	VEHICLES										
	AUTOMOBILES	7400									
	PICK UP TRUCKS	7420									
	DUMP TRUCKS	7440									
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	VEHICLES										
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	CAPITAL OUTLAY										
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59920	EXPENDITURES		927603	317	304238	623048	33.3	32.7	14,889-	1.6-	

001220 - GENERAL FUND-SANITATION DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
63772	REGULAR WAGES	4000	953973		255181	698792	33.3	26.7	188,429-	19.7-
	DISASTER RECOVERY WAGE	4010								
412	OVERTIME	4300	21000		3286	17714	33.3	15.6	11,142-	53.0-
	DISASTER RECOVERY OVER	4310								
64184	SALARIES		974973		258467	716506	33.3	26.5	199,571-	20.4-
	EMPLOYEE BENEFITS									
10109	STATE RETIREMENT	4600	153558		40709	112849	33.3	26.5	31,430-	20.4-
4816	F.I.C.A. TAXES	4700	74585		19393	55192	33.3	26.0	16,405-	21.9-
15500	HOSPITALIZATION INS.	4800	250800		80650	170150	33.3	32.1	8,850-	3.5-
	UNEMPLOYMENT BENEFITS	4900	1000			1000	33.3		1,000-	100.0-
	WORKMAN'S COMPENSATION	4910	90839			90839	33.3		90,839-	100.0-
30425	EMPLOYEE BENEFITS		570782		140751	430031	33.3	24.6	148,528-	26.0-
94609	PERSONAL SERVICES		1545755		399219	1146536	33.3	25.8	348,097-	22.5-
	OFFICE SUPPLIES									
489	OTHER EXPENDABLE OFF.S	5010	1700		591	1109	33.3	34.7	73	4.2
23	MINOR OFFICE EQUIP/FUR	5020	1000		23	977	33.3	2.3	930-	93.0-
	BOOKS	5070								
512	OFFICE SUPPLIES		2700		614	2086	33.3	22.7	858-	31.7-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	2150			2150	33.3		2,150-	100.0-
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
60	CHEMICALS	5130	20000		2002	17998	33.3	10.0	13,994-	69.9-
582	GAS AND OIL	5250	21500		4927	16573	33.3	22.9	6,718-	31.2-
	NATURAL GAS FUEL	5252								
	LUBRICANTS	5255	2000			2000	33.3		2,000-	100.0-
8400	DIESEL FUEL	5257	114470		38298	76172	33.3	33.4	424	.3
	DIESEL FUEL-RECYCLING	5257 01								
	WEARING APPAREL	5355	700			700	33.3		700-	100.0-
	CONCRETE, CEMENT, ETC.	5405								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	1000		95	905	33.3	9.5	714-	71.4-
	MINOR EQUIPMENT	5460	10000			10000	33.3		10,000-	100.0-
324	OTHER OPERATING MATL/S	5590	7400		592	6808	33.3	8.0	5,624-	76.0-
	OTHER OPERATING SPLY-R	5590 01	2920			2920	33.3		2,920-	100.0-
9366	OPERATING SUPPLIES		182140		45914	136226	33.3	25.2	44,398-	24.3-

	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	1000			1000	33.3		1,000-	100.0-
	ELECTRICAL SUPPLIES	5605	1300			1300	33.3		1,300-	100.0-
	PLUMBING SUPPLIES	5610								
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								
9957	MTR VEHICLE REP. PTS/S	5700	104356	5,908	25317	73131	33.3	24.2	28,404-	27.2-
	COMMUNICATION REPAIR P	5750	200			200	33.3		200-	100.0-
	EXPENDABLE WELDING SPL	5770								
	MINOR COMPUTER EQUIP.	5800								
	OTHER REPAIR/MAINT. SP	5990								
9957	REPAIR & MAINTENANCE		106856	5,908	25317	75631	33.3	23.6	30,904-	28.9-
19836	SUPPLIES AND EXPENSES		291696	5,908	71846	213942	33.3	24.6	76,158-	26.1-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	CONSULTANT SERV/SURVEY	6020								
	OTHER PROFESSIONAL SER	6049	4750			4750	33.3		4,750-	100.0-
	PROFESSIONAL SERVICE		4750			4750	33.3		4,750-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110			50-	50			150	
100	FREIGHT	6120	825	218	439	168	33.3	53.2	492	59.6
100	TRANSPORTATION		825	218	389	218	33.3	47.1	342	41.4
	ADVERTISING									
	ADVERTISING	6150	200			200-	33.3		200-	100.0-
452	ADVERTISING-RECYCLING	6150 01	11025	1,404	1973	7648	33.3	17.8	5,105-	46.3-
452	ADVERTISING		10825	1,404	1973	7448	33.3	18.2	4,905-	45.3-
	PRINTING AND BINDING									
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
531	ELECTRICITY	6305	7500		1699	5801	33.3	22.6	2,402-	32.0-
	WATER	6315								
531	UTILITIES		7500		1699	5801	33.3	22.6	2,402-	32.0-
	REPR/MAINT-OUTSIDE LABO									

	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380	1000			1000	33.3		1,000-	100.0-
	MINOR EQUIPMENT R&M	6382	3000			3000	33.3		3,000-	100.0-
4990	MOTOR VEHICLE EQ. R&M	6384	80000	4,345	24754	50901	33.3	30.9	5,738-	7.1-
	COMMUNICATION EQ. R&M	6390								
	DISINFECT./EXTERMINATI	6394	50			50	33.3		50-	100.0-
	TOW IN CHARGES	6398	1500			1500	33.3		1,500-	100.0-
1290	OTHER REPAIRS AND MAIN	6399	2300		1860	440	33.3	80.8	3,280	142.6
6280	REPR/MAINT-OUTSIDE L		87850	4,345	26614	56891	33.3	30.2	8,008-	9.1-
	RENTALS									
	LAND RENT	6400								
764	UNIFORM RENT	6430	11000		2994	8006	33.3	27.2	2,018-	18.3-
107	MOP-MAT-RAG RENT	6435	1000		363	637	33.3	36.3	89	8.9
871	RENTALS		12000		3357	8643	33.3	27.9	1,928-	16.0-
	OTHER SERVICES & CHARGE									
60986	TIPPING FEES	6880	650000		328367	321633	33.3	50.5	335,101	51.5
	TIPPING/DISPOSAL OTHER	6885	135000			135000	33.3		135,000-	100.0-
184	RECYCLING FEES	6890	50000		475	49525	33.3	.9	48,574-	97.1-
	SERVICES NOT SPECIFIED	6999								
61170	OTHER SERVICES & CHA		835000		328841	506159	33.3	39.3	151,523	18.1
69405	OTHER SERVICES & CHAR		958750	5,967	362873	589910	33.3	37.8	129,869	13.5
	LAND									
	LEASEHOLDS	7020								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	PLANT EQUIPMENT	7340								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	OTHER EQUIPMENT-RECYCL	7399 01								
	MACHINERY AND EQUIPM									
	VEHICLES									
	PICK UP TRUCKS	7420								
	HEAVY TRUCKS	7430								
	SANITATION TRUCKS	7460								

	VEHICLES								
	CAPITAL OUTLAY								
183850	EXPENDITURES	2796201	11,875	833937	1950389	33.3	29.8	294,389-	10.5-

001221 - GENERAL FUND-STREET CLEANING

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
4008	REGULAR WAGES	4000	52104		16032	36072	33.3	30.7	4,008-	7.6-
	DISASTER RECOVERY WAGE	4010								
3	OVERTIME	4300	3000		166	2834	33.3	5.5	2,502-	83.4-
	DISASTER RECOVERY OVER	4310								
4011	SALARIES		55104		16198	38906	33.3	29.3	6,510-	11.8-
	EMPLOYEE BENEFITS									
632	STATE RETIREMENT	4600	8679		2551	6128	33.3	29.3	1,025-	11.8-
306	F.I.C.A. TAXES	4700	4215		1236	2979	33.3	29.3	507-	12.0-
1000	HOSPITALIZATION INS.	4800	13200		5000	8200	33.3	37.8	1,800	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	2204			2204	33.3		2,204-	100.0-
1938	EMPLOYEE BENEFITS		28798		8787	20011	33.3	30.5	2,436-	8.4-
5949	PERSONAL SERVICES		83902		24986	58916	33.3	29.7	8,944-	10.6-
	OPERATING SUPPLIES									
	GAS AND OIL	5250								
	LUBRICANTS	5255								
203	DIESEL FUEL	5257	7200		2181	5019	33.3	30.2	656-	9.1-
	WEARING APPAREL	5355								
	HAND TOOLS	5450								
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590								
203	OPERATING SUPPLIES		7200		2181	5019	33.3	30.2	656-	9.1-
	REPAIR & MAINTENANCE SP									
	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700	12000			12000	33.3		12,000-	100.0-
	REPAIR & MAINTENANCE		12000			12000	33.3		12,000-	100.0-
203	SUPPLIES AND EXPENSES		19200		2181	17019	33.3	11.3	12,656-	65.9-
	TRANSPORTATION									
	FREIGHT	6120	200		186	14	33.3	93.0	358	179.0
	TRANSPORTATION		200		186	14	33.3	93.0	358	179.0
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									

	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	MOTOR VEHICLE EQ. R&M	6384	1000			1000	33.3		1,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
	TOW IN CHARGES	6398	500		350	150	33.3	70.0	550	110.0
	REPR/MAINT-OUTSIDE L		1500		350	1150	33.3	23.3	450-	30.0-
	RENTALS									
	UNIFORM RENT	6430	900			900	33.3		900-	100.0-
	RENTALS		900			900	33.3		900-	100.0-
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR		2600		536	2064	33.3	20.6	992-	38.1-
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	VEHICLES									
	PICK UP TRUCKS	7420								
	HEAVY TRUCKS	7430								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY									
6152	EXPENDITURES		105702		27703	77999	33.3	26.2	22,592-	21.3-

001250 - GENERAL FUND-HEALTH DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
21315	REGULAR WAGES	4000	304506		84826	219680	33.3	27.8	50,028-	16.4-
	DISASTER RECOVERY WAGE	4010								
228	OVERTIME	4300	10000		733	9267	33.3	7.3	7,800-	78.0-
	DISASTER RECOVERY OVER	4310								
21544	SALARIES		314506		85559	228947	33.3	27.2	57,828-	18.3-
	EMPLOYEE BENEFITS									
3393	STATE RETIREMENT	4600	49535		13476	36059	33.3	27.2	9,107-	18.3-
1633	F.I.C.A. TAXES	4700	24060		7976	16084	33.3	33.1	132-	.5-
6000	HOSPITALIZATION INS.	4800	79200		26600	52600	33.3	33.5	600	.7
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	14402			14402	33.3		14,402-	100.0-
11026	EMPLOYEE BENEFITS		167697		48052	119645	33.3	28.6	23,541-	14.0-
32569	PERSONAL SERVICES		482203		133611	348592	33.3	27.7	81,369-	16.8-
	OFFICE SUPPLIES									
	OTHER EXPENDABLE OFF.S	5010								
	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	130000	44,426	18041	67533	33.3	13.8	75,876-	58.3-
	CHEMICALS-MOSQUITO GRA	5135								
1052	GAS AND OIL	5250	21000		7189	13812	33.3	34.2	567	2.7
	LUBRICANTS	5255								
352	DIESEL FUEL	5257	3000		2554	446	33.3	85.1	4,662	155.4
	OTHER FUEL	5260								
51	WEARING APPAREL	5355	700		51	649	33.3	7.2	546-	78.0-
	HAND TOOLS	5450	1000		409	591	33.3	40.9	227	22.7
	MINOR EQUIPMENT	5460	1400			1400	33.3		1,400-	100.0-
	HAZ.MAT SUP-DOMESTIC P	5466								
312	OTHER OPERATING MATL/S	5590	1700		778	922	33.3	45.7	634	37.2
1766	OPERATING SUPPLIES		158800	44,426	29021	85353	33.3	18.2	71,736-	45.1-
	REPAIR & MAINTENANCE SP									
	ELECTRICAL SUPPLIES	5605								
	PLUMBING SUPPLIES	5610								
	PAINT AND PAINTING SPL	5650								
838	MTR VEHICLE REP. PTS/S	5700	8450		2807	5643	33.3	33.2	28-	.3-
	COMMUNICATION REPAIR P	5750								
	AGRICLTRL REPAIR PTS/S	5755	300			300	33.3		300-	100.0-

838	REPAIR & MAINTENANCE		8750		2807	5943	33.3	32.0	328-	3.7-
2605	SUPPLIES AND EXPENSES		167550	44,426	31828	91296	33.3	18.9	72,066-	43.0-
	PROFESSIONAL SERVICES									
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	TRVL EXP-MOSQUITO GRAN	6111								
	FREIGHT	6120								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING-GRANT RELATED	6202								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	MINOR EQUIPMENT R&M	6382	1600			1600	33.3		1,600-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	2200			2200	33.3		2,200-	100.0-
	AGRICULTURAL EQ. R&M	6387	400			400	33.3		400-	100.0-
	COMMUNICATION EQ. R&M	6390	800			800	33.3		800-	100.0-
	TOW IN CHARGES	6398	200		40	160	33.3	20.0	80-	40.0-
	REPR/MAINT-OUTSIDE L		5200		40	5160	33.3	.7	5,080-	97.6-
	RENTALS									
265	UNIFORM RENT	6430	2500		1107	1393	33.3	44.2	821	32.8
265	RENTALS		2500		1107	1393	33.3	44.2	821	32.8
	OTHER SERVICES & CHARGE									
	REGISTRATION FEE/TUITI	6845	1000			1000	33.3		1,000-	100.0-
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA		1000			1000	33.3		1,000-	100.0-
265	OTHER SERVICES & CHAR		8700		1147	7553	33.3	13.1	5,258-	60.4-
	MACHINERY AND EQUIPMENT									
	AGRICULTURAL EQUIPMENT	7335								
	EQUIP-MOSQUITO GRANT	7377								
	OTHER EQUIPMENT	7399								

	MACHINERY AND EQUIPM									
	VEHICLES									
	PICK UP TRUCKS	7420								
	DUMP TRUCKS	7440								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY									
35438	EXPENDITURES		658453	44,426	166585	447442	33.3	25.2	158,697-	24.1-

001260 - GENERAL FUND-ANIMAL CONTROL

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
7693	REGULAR WAGES	4000	101574		27467	74107	33.3	27.0	19,172-	18.8-
	DISASTER RECOVERY WAGE	4010								
60	OVERTIME	4300	2000		243	1757	33.3	12.1	1,270-	63.5-
	DISASTER RECOVERY OVER	4310								
7754	SALARIES		103574		27710	75864	33.3	26.7	20,444-	19.7-
	EMPLOYEE BENEFITS									
1221	STATE RETIREMENT	4600	16313		4364	11949	33.3	26.7	3,221-	19.7-
578	F.I.C.A. TAXES	4700	7923		2067	5856	33.3	26.0	1,721-	21.7-
2000	HOSPITALIZATION INS.	4800	26400		9050	17350	33.3	34.2	750	2.8
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	1384			1384	33.3		1,384-	100.0-
3799	EMPLOYEE BENEFITS		52520		15482	37038	33.3	29.4	6,074-	11.5-
11553	PERSONAL SERVICES		156094		43191	112903	33.3	27.6	26,520-	16.9-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	200			200	33.3		200-	100.0-
	MINOR OFFICE EQUIP/FUR	5020								
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	200			200	33.3		200-	100.0-
	OFFICE SUPPLIES		400			400	33.3		400-	100.0-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130								
528	GAS AND OIL	5250	7000		1928	5072	33.3	27.5	1,216-	17.3-
	LUBRICANTS	5255								
	WEARING APPAREL	5355	2200		2198	2	33.3	99.9	4,394	199.7
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450								
	MINOR EQUIPMENT	5460	1200		58	1142	33.3	4.8	1,026-	85.5-
	OTHER OPERATING MATL/S	5590	500			500	33.3		500-	100.0-
528	OPERATING SUPPLIES		10900		4184	6716	33.3	38.3	1,652	15.1

	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	ELECTRICAL SUPPLIES	5605								
	PLUMBING SUPPLIES	5610								
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700	3500			3500	33.3		3,500-	100.0-
	COMMUNICATION REPAIR P	5750								
	OTHER REPAIR/MAINT. SP	5990								
	REPAIR & MAINTENANCE		3500			3500	33.3		3,500-	100.0-
528	SUPPLIES AND EXPENSES		14800		4184	10616	33.3	28.2	2,248-	15.1-
	PROFESSIONAL SERVICES									
	VETERINARIAN	6030	2000			2000	33.3		2,000-	100.0-
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE		2000			2000	33.3		2,000-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060	500		11	489	33.3	2.2	466-	93.2-
	POSTAGE	6070								
	COMMUNICATIONS		500		11	489	33.3	2.2	466-	93.2-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	800			800	33.3		800-	100.0-
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		800			800	33.3		800-	100.0-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	200			200	33.3		200-	100.0-
	PRINTING AND BINDING		200			200	33.3		200-	100.0-
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365								
	HOUSEHOLD EQUIPMENT R&	6370								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384	1400			1400	33.3		1,400-	100.0-
	COMMUNICATION EQ. R&M	6390								

	CLEANING AND PAINTING	6392								
	DISINFECT./EXTERMINATI	6394								
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	100			100	33.3		100-	100.0-
	OTHER REPAIRS AND MAIN	6399								
	REPR/MAINT-OUTSIDE L		1500			1500	33.3		1,500-	100.0-
	RENTALS									
	OTHER RENT	6449								
	RENTALS									
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840	125			125	33.3		125-	100.0-
	REGISTRATION FEE/TUITI	6845	1800			1800	33.3		1,800-	100.0-
9716	SERVICES NOT SPECIFIED	6999	119760		48580	71180	33.3	40.5	25,980	21.6
9716	OTHER SERVICES & CHA		121685		48580	73105	33.3	39.9	24,055	19.7
9716	OTHER SERVICES & CHAR		126685		48591	78094	33.3	38.3	19,088	15.0
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY									
21797	EXPENDITURES		297579		95966	201613	33.3	32.2	9,681-	3.2-

001280 - GENERAL FUND-HUMAN/SOC.ASST

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	CONTRIBUTIONS		199500		53500	146000	33.3	26.8	39,000-	19.5-
	OTHER SERVICES & CHA		199500		53500	146000	33.3	26.8	39,000-	19.5-
	OTHER SERVICES & CHAR		199500		53500	146000	33.3	26.8	39,000-	19.5-
	EXPENDITURES		199500		53500	146000	33.3	26.8	39,000-	19.5-

001402 - GENERAL FUND-ECONOMIC DEV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	TRANSPORTATION									
	TRAVEL-ALL AMER.CITY A	6110								
	TRANSPORTATION									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	REPR/MAINT-OUTSIDE L									
	OTHER SERVICES & CHARGE									
	CONTRIBUTIONS		230000		50000	180000	33.3	21.7	80,000-	34.7-
	OTHER SERVICES & CHA		230000		50000	180000	33.3	21.7	80,000-	34.7-
	OTHER SERVICES & CHAR		230000		50000	180000	33.3	21.7	80,000-	34.7-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	VEHICLES									
	TROLLEYS	7415								
	VEHICLES									
	CAPITAL OUTLAY									
	EXPENDITURES		230000		50000	180000	33.3	21.7	80,000-	34.7-

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	NOTE PRINCIPAL									
	2005 STORM NOTE	8205								
	SAENGER SERIES 1999 NO	8220								
9158	MDB CAPITAL PROJECTS		109975		43822	66153	33.3	39.8	21,491	19.5
	W&S USA YEAST 2002"B"N	8224								
9158	NOTE PRINCIPAL		109975		43822	66153	33.3	39.8	21,491	19.5
	INTEREST ON NOTES									
	2005 STORM NOTE	8305								
	SAENGER SERIES 1999 NO	8331								
3132	MDB CAPITAL PROJECT NO		40505		15465	25041	33.3	38.1	5,890	14.5
	W&S USA YEAST 2002"B"N	8334								
3132	INTEREST ON NOTES		40505		15465	25041	33.3	38.1	5,890	14.5
	PAYING AGENT FEES									
	LEASE ISSUES	8401			3000	3000-			9,000	
	PAYING AGENT FEES				3000	3000-			9,000	
	CAPITAL LEASE PAYMENTS									
	COMPUTER LEASE-INFO.SY	8510								
	COMPUTER LEASE-POLICE	8511								
	POLICE CARS LEASE	8512								
	EMER GENERATORS LEASE	8513								
	2012 EQUIP LEASE	8514								
	BUILDING LEASE	8515								
	PUBLIC SAFETY COMPLEX	8516								
39923	SANITATION TRUCKS LEAS	8520	480675		159377	321298	33.3	33.1	2,543-	.5-
	SANITATION CANS LEASE	8521								
	SPECIAL TRUCKS LEASE	8523								
	DUMP TRUCK LEASE	8525								
	DOWNTOWN LIGHTING	8531								
39923	CAPITAL LEASE PAYMEN		480675		159377	321298	33.3	33.1	2,543-	.5-
	INTEREST ON CAPITAL LEA									
	COMPUTER LEASE-INFO SY	8610								
	COMPUTER LEASE-POLICE	8611								
	POLICE CARS LEASE	8612								
	EMER GENERATORS LEASE	8613								
	2012 EQUIP LEASE	8614								
	BUILDING LEASE	8615								
	PUBLIC SAFETY COMPLEX	8616	330524		214324	116200	33.3	64.8	312,448	94.5
1453	SANITATION TRUCKS LEAS	8620	15845		6129	9716	33.3	38.6	2,542	16.0
	SANITATION CANS LEASE	8621								
	SPECIAL TRUCKS LEASE	8623								

	DUMP TRUCK LEASE	8625								
	DOWNTOWN LIGHTING	8631								
1453	INTEREST ON CAPITAL		346369		220454	125915	33.3	63.6	314,993	90.9
53666	DEBT SERVICE		977524		442117	535407	33.3	45.2	348,827	35.6
53666	EXPENDITURES		977524		442117	535407	33.3	45.2	348,827	35.6

001500 - GENERAL FUND-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T PARKS & RECREATION	9000 02	2240000		600000	1640000	33.3	26.7	440,000-	19.6-
	T/T MUN,FIRE PROTECTIO	9000 05								
	T/T SPECIAL STREET	9000 08								
	T/T 1994 GO-IND. DEVEL	9000 103								
	T/T GOVNMT. COMPLEX BL	9000 104								
	T/T UDAG PAYBACK	9000 108								
	T/T GROUP INSURANCE TR	9000 109								
	T/T CITY B & I	9000 13								
	T/T POL/FIRE DIS./RELI	9000 18								
	T/T 2003 TIF B&I-CHAUV	9000 22								
	T/T AIRPORT IMPROVEMEN	9000 39								
	T/T MASS TRANSIT OPER.	9000 73	230000			230000	33.3		230,000-	100.0-
	T/T W & S CONSTRUCTION	9000 75								
	T/T COMMUNITY CENTERS	9000 77	990000			990000	33.3		990,000-	100.0-
	T/T COMMUNITY DEVELOPM	9000 82								
	T/T '01 BOND CONSTR	9000 95								
	T/T MDB CAPITAL PROJ.F	9000 96								
	T/T KPZ CAPITAL	9000 98								
	TRANSFERS TO OTHER F		3460000		600000	2860000	33.3	17.3	1,660,000-	47.9-
	TRANSFERS		3460000		600000	2860000	33.3	17.3	1,660,000-	47.9-
	EXPENDITURES		3460000		600000	2860000	33.3	17.3	1,660,000-	47.9-

001551 - GENERAL FUND-AIRPORT DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
3840	REGULAR WAGES	4000	49920		15360	34560	33.3	30.7	3,840-	7.6-
	DISASTER RECOVERY WAGE	4010								
12	OVERTIME	4300	1000		12	988	33.3	1.2	964-	96.4-
	DISASTER RECOVERY OVER	4310								
3852	SALARIES		50920		15372	35548	33.3	30.1	4,804-	9.4-
	EMPLOYEE BENEFITS									
607	STATE RETIREMENT	4600	8020		2421	5599	33.3	30.1	756-	9.4-
291	F.I.C.A. TAXES	4700	3895		1161	2734	33.3	29.8	411-	10.5-
1000	HOSPITALIZATION INS.	4800	13200		5000	8200	33.3	37.8	1,800	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	3028			3028	33.3		3,028-	100.0-
1898	EMPLOYEE BENEFITS		28643		8583	20060	33.3	29.9	2,893-	10.1-
5750	PERSONAL SERVICES		79563		23955	55608	33.3	30.1	7,697-	9.6-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	450			450	33.3		450-	100.0-
	CHEMICALS	5130	1000			1000	33.3		1,000-	100.0-
384	GAS AND OIL	5250	6500		1455	5045	33.3	22.3	2,134-	32.8-
	LUBRICANTS	5255	200			200	33.3		200-	100.0-
	DIESEL FUEL	5257	1000		800	200	33.3	80.0	1,400	140.0
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	500			500	33.3		500-	100.0-
	MINOR EQUIPMENT	5460	1300			1300	33.3		1,300-	100.0-
	OTHER OPERATING MATL/S	5590	4400		533	3867	33.3	12.1	2,800-	63.6-
384	OPERATING SUPPLIES		15350		2788	12562	33.3	18.1	6,986-	45.5-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	1000			1000	33.3		1,000-	100.0-
302	ELECTRICAL SUPPLIES	5605	7450		2282	5168	33.3	30.6	604-	8.1-
	PLUMBING SUPPLIES	5610	700			700	33.3		700-	100.0-
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700	1000			1000	33.3		1,000-	100.0-
	COMMUNICATION REPAIR P	5750								
	AGRICLTRL REPAIR PTS/S	5755	2000			2000	33.3		2,000-	100.0-
	EXPENDABLE WELDING SPL	5770	700			700	33.3		700-	100.0-
	OTHER REPAIR/MAINT. SP	5990	10000		825	9175	33.3	8.2	7,524-	75.2-

302	REPAIR & MAINTENANCE		22850		3107	19743	33.3	13.5	13,528-	59.2-
686	SUPPLIES AND EXPENSES		38200		5895	32305	33.3	15.4	20,514-	53.7-
	PROFESSIONAL SERVICES									
	APPRAISAL	6017								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	INSURANCE									
	FIRE & EXTENDED COVERA	6250								
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
30	GAS	6300	1200		125	1075	33.3	10.4	824-	68.6-
1148	ELECTRICITY	6305	14000		4306	9694	33.3	30.7	1,082-	7.7-
	WATER	6315								
1178	UTILITIES		15200		4431	10769	33.3	29.1	1,906-	12.5-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	1000			1000	33.3		1,000-	100.0-
	STREETS & STRUCTURES R	6360								
	FIXED EQUIPMENT R&M	6380	2000		225	1775	33.3	11.2	1,324-	66.2-
	MINOR EQUIPMENT R&M	6382	500			500	33.3		500-	100.0-
	GENERATOR R&M	6383								
	MOTOR VEHICLE EQ. R&M	6384	2000			2000	33.3		2,000-	100.0-
	CONSTRUCTION EQUIP R&M	6386								
	AGRICULTURAL EQ. R&M	6387	1000			1000	33.3		1,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
90	DISINFECT./EXTERMINATI	6394	800		180	620	33.3	22.5	260-	32.5-
90	OTHER REPAIRS AND MAIN	6399	58550	1,997	940	55613	33.3	1.6	55,730-	95.1-

180	REPR/MAINT-OUTSIDE L		65850	1,997	1345	62508	33.3	2.0	61,814-	93.8-
	RENTALS									
	LAND RENT	6400								
	CYLINDER RENT	6425	200			200	33.3		200-	100.0-
	UNIFORM RENT	6430	750			750	33.3		750-	100.0-
19	OTHER RENT	6449	2000		80	1920	33.3	4.0	1,760-	88.0-
19	RENTALS		2950		80	2870	33.3	2.7	2,710-	91.8-
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845	958			958	33.3		958-	100.0-
	SERVICES NOT SPECIFIED	6999	1000			1000	33.3		1,000-	100.0-
	OTHER SERVICES & CHA		1958			1958	33.3		1,958-	100.0-
1377	OTHER SERVICES & CHAR		85958	1,997	5856	78105	33.3	6.8	68,390-	79.5-
	LAND									
	LEASEHOLDS	7020								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	DRAINS	7215								
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	AGRICULTURAL EQUIPMENT	7335								
	CONSTRUCTION EQUIPMENT	7345								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	PICK UP TRUCKS	7420								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY									
7813	EXPENDITURES		203721	1,997	35705	166019	33.3	17.5	96,605-	47.4-

001553 - GENERAL FUND-CEMETERY DIV

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
30591	REGULAR WAGES	4000	482309		123937	358372	33.3	25.6	110,497-	22.9-
	DISASTER RECOVERY WAGE	4010								
1098	OVERTIME	4300	18000		5991	12009	33.3	33.2	26-	.1-
	DISASTER RECOVERY OVER	4310								
31689	SALARIES		500309		129927	370382	33.3	25.9	110,527-	22.0-
	EMPLOYEE BENEFITS									
4991	STATE RETIREMENT	4600	78799		20464	58335	33.3	25.9	17,407-	22.0-
2342	F.I.C.A. TAXES	4700	38274		9603	28671	33.3	25.0	9,464-	24.7-
8500	HOSPITALIZATION INS.	4800	118800		40100	78700	33.3	33.7	1,500	1.2
	UNEMPLOYMENT BENEFITS	4900	1000			1000	33.3		1,000-	100.0-
	WORKMAN'S COMPENSATION	4910	19699			19699	33.3		19,699-	100.0-
15833	EMPLOYEE BENEFITS		256572		70167	186405	33.3	27.3	46,070-	17.9-
47521	PERSONAL SERVICES		756881		200094	556787	33.3	26.4	156,599-	20.6-
	OFFICE SUPPLIES									
	PAPER	5003	100		27	73	33.3	27.0	18-	18.0-
	PRINTED FORMS	5005								
116	OTHER EXPENDABLE OFF.S	5010	1200		587	613	33.3	48.9	561	46.7
	MINOR OFFICE EQUIP/FUR	5020	1500			1500	33.3		1,500-	100.0-
	PUBLIC EDUCATION MAT'L	5032								
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
116	OFFICE SUPPLIES		2800		613	2187	33.3	21.8	960-	34.2-
	OPERATING SUPPLIES									
234	CLEANING/JANITORIAL SP	5100	2000		504	1496	33.3	25.2	488-	24.4-
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	2700		293	2407	33.3	10.8	1,820-	67.4-
1001	GAS AND OIL	5250	25000		6248	18752	33.3	24.9	6,256-	25.0-
	LUBRICANTS	5255	500			500	33.3		500-	100.0-
778	DIESEL FUEL	5257	18000		3869	14131	33.3	21.4	6,392-	35.5-
	WEARING APPAREL	5355	2100			2100	33.3		2,100-	100.0-
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405	200			200	33.3		200-	100.0-
	SAND,CLAY,GRVL,FILL DI	5415	3000			3000	33.3		3,000-	100.0-
	DRAINAGE PIPE & CULVER	5420								
676	HORT./LANDSCAPING SPLY	5440	4000	144	676	3180	33.3	16.9	1,972-	49.3-
	HAND TOOLS	5450	1000		55	945	33.3	5.5	834-	83.4-

	MINOR EQUIPMENT	5460	3500		435	3065	33.3	12.4	2,194-	62.6-
	PUMPING EQUIPMENT PART	5495								
	TRAFFIC SIGNS	5545								
	OTHER OPERATING MATL/S	5590	300			300	33.3		300-	100.0-
2689	OPERATING SUPPLIES		62300	144	12080	50076	33.3	19.3	26,060-	41.8-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	2000			2000	33.3		2,000-	100.0-
	ELECTRICAL SUPPLIES	5605	500		27	473	33.3	5.4	418-	83.6-
168	PLUMBING SUPPLIES	5610	500		172	328	33.3	34.4	16	3.2
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								
3527	MTR VEHICLE REP. PTS/S	5700	10000		5175	4825	33.3	51.7	5,525	55.2
	COMMUNICATION REPAIR P	5750	500			500	33.3		500-	100.0-
354	AGRICLTRL REPAIR PTS/S	5755	5000		1713	3287	33.3	34.2	139	2.7
	EXPENDABLE WELDING SPL	5770								
	OTHER REPAIR/MAINT. SP	5990	100			100	33.3		100-	100.0-
383	DISASTER REPAIR SUPPLI	5995			383	383-			1,149	
4432	REPAIR & MAINTENANCE		18600		7471	11129	33.3	40.1	3,813	20.5
7237	SUPPLIES AND EXPENSES		83700	144	20164	63392	33.3	24.0	23,208-	27.7-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	LEGAL	6025								
	MEDICAL	6027								
308	OTHER PROFESSIONAL SER	6049	3800		1232	2568	33.3	32.4	104-	2.7-
308	PROFESSIONAL SERVICE		3800		1232	2568	33.3	32.4	104-	2.7-
	COMMUNICATIONS									
181	TELEPHONE AND TELEGRAP	6060	1500		209	1291	33.3	13.9	872-	58.1-
181	COMMUNICATIONS		1500		209	1291	33.3	13.9	872-	58.1-
	TRANSPORTATION									
30-	TRAVEL EXPENSE	6110	1000		270	730	33.3	27.0	190-	19.0-
23	FREIGHT	6120	75		23	53	33.3	30.6	5-	6.6-
8-	TRANSPORTATION		1075		292	783	33.3	27.1	199-	18.5-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	BLUELINES	6210								
	PRINTING AND BINDING									
	INSURANCE									
	FIRE & EXTENDED COVERA	6250								
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								

	INSURANCE									
	UTILITIES									
89	GAS	6300	1000		127	873	33.3	12.7	618-	61.8-
418	ELECTRICITY	6305	7126		1830	5296	33.3	25.6	1,636-	22.9-
	WATER	6315								
507	UTILITIES		8126		1956	6170	33.3	24.0	2,258-	27.7-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	500			500	33.3		500-	100.0-
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	STREETS & STRUCTURES R	6360	1800			1800	33.3		1,800-	100.0-
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
1513	MOTOR VEHICLE EQ. R&M	6384	14600	330	2090	12180	33.3	14.3	8,330-	57.0-
	CONSTRUCTION EQUIP R&M	6386	8500		1276	7224	33.3	15.0	4,672-	54.9-
	AGRICULTURAL EQ. R&M	6387	1000			1000	33.3		1,000-	100.0-
	COMMUNICATION EQ. R&M	6390								
	CLEANING AND PAINTING	6392								
85	DISINFECT./EXTERMINATI	6394	1000		170	830	33.3	17.0	490-	49.0-
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398	500			500	33.3		500-	100.0-
90	OTHER REPAIRS AND MAIN	6399	1500		90	1410	33.3	6.0	1,230-	82.0-
1688	REPR/MAINT-OUTSIDE L		29400	330	3627	25443	33.3	12.3	18,518-	62.9-
	RENTALS									
	MACHINERY RENT	6420								
	CYLINDER RENT	6425								
248	UNIFORM RENT	6430	3500		1068	2432	33.3	30.5	296-	8.4-
114	MOP-MAT-RAG RENT	6435	1350		499	851	33.3	36.9	147	10.8
362	RENTALS		4850		1568	3282	33.3	32.3	146-	3.0-
	OTHER SERVICES & CHARGE									
	THEFT LOSS	6818	10			10	33.3		10-	100.0-
	DUES AND MEMBERSHIPS	6840	290		160	130	33.3	55.1	190	65.5
	REGISTRATION FEE/TUITI	6845	300		150-	450	33.3	50.0	150	50.0
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA		600		10	590	33.3	1.6	570-	95.0-
3038	OTHER SERVICES & CHAR		49351	330	8894	40127	33.3	18.0	22,669-	45.9-
	LAND									
	LAND	7000			875	875-			2,625	
	LAND				875	875-			2,625	
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS	7100								
	BUILDING IMPROVEMENTS									

	BUILDING/BLD IMPROVE										
	IMPROVEMENT OTHER THAN										
	FENCES/RAILINGS	7212									
	DRAINS	7215									
	STREETS & ROADWAYS	7230									
	LANDSCAPING										
	OTHER IMPROVEMENTS	7295									
	IMPROVEMENT OTHER TH										
	MACHINERY AND EQUIPMENT										
	OFFICE FURN/EQUIP.	7325									
	AGRICULTURAL EQUIPMENT	7335									
	CONSTRUCTION EQUIPMENT	7345									
	COMMUNICATION EQUIPMEN	7355									
	PIPE	7370									
	OTHER EQUIPMENT	7399									
	MACHINERY AND EQUIPM										
	VEHICLES										
	AUTOMOBILES	7400									
	PICK UP TRUCKS	7420									
	DUMP TRUCKS	7440									
	VEHICLES										
	CAPITAL OUTLAY				875	875-				2,625	
57796	EXPENDITURES		889932	474	230027	659431	33.3	25.8		199,850-	22.4-

001560 - GENERAL FUND-PARKING OPER.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
11936	REGULAR WAGES	4000	168420		49719	118701	33.3	29.5	19,262-	11.4-
	DISASTER RECOVERY WAGE	4010								
135	OVERTIME	4300	2000		497	1503	33.3	24.8	508-	25.4-
	DISASTER RECOVERY OVER	4310								
12071	SALARIES		170420		50216	120204	33.3	29.4	19,772-	11.6-
	EMPLOYEE BENEFITS									
1457	STATE RETIREMENT	4600	26841		5938	20903	33.3	22.1	9,027-	33.6-
868	F.I.C.A. TAXES	4700	13037		3621	9416	33.3	27.7	2,173-	16.6-
1500	HOSPITALIZATION INS.	4800	19800		7500	12300	33.3	37.8	2,700	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	4082			4082	33.3		4,082-	100.0-
3825	EMPLOYEE BENEFITS		64260		17059	47201	33.3	26.5	13,082-	20.3-
15896	PERSONAL SERVICES		234680		67274	167406	33.3	28.6	32,858-	14.0-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
20	OTHER EXPENDABLE OFF.S	5010	600		20	580	33.3	3.3	540-	90.0-
100	MINOR OFFICE EQUIP/FUR	5020	600		350	250	33.3	58.3	450	75.0
	COMPUTER SUPPLIES	5080								
120	OFFICE SUPPLIES		1200		370	830	33.3	30.8	90-	7.5-
	OPERATING SUPPLIES									
42	CLEANING/JANITORIAL SP	5100	300		42	258	33.3	14.0	174-	58.0-
	CHEMICALS	5130	50			50	33.3		50-	100.0-
149	GAS AND OIL	5250	1200		895	305	33.3	74.5	1,485	123.7
	WEARING APPAREL	5355	770		270	500	33.3	35.0	40	5.1
	HORT./LANDSCAPING SPLY	5440								
	MINOR EQUIPMENT	5460	520		1654	1134-	33.3	318.0	4,442	854.2
53	OTHER OPERATING MATL/S	5590	750	150	83	517	33.3	11.0	500-	66.6-
244	OPERATING SUPPLIES		3590	150	2944	496	33.3	82.0	5,242	146.0
	REPAIR & MAINTENANCE SP									
	ELECTRICAL SUPPLIES	5605	1500		234	1266	33.3	15.6	798-	53.2-
	PAINT AND PAINTING SPL	5650	1020			1020	33.3		1,020-	100.0-
	MTR VEHICLE REP. PTS/S	5700	280			280	33.3		280-	100.0-
	REPAIR & MAINTENANCE		2800		234	2566	33.3	8.3	2,098-	74.9-
364	SUPPLIES AND EXPENSES		7590	150	3548	3892	33.3	46.7	3,054	40.2

	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
1227	ELECTRICITY	6305	16000		4519	11481	33.3	28.2	2,442-	15.2-
1227	UTILITIES		16000		4519	11481	33.3	28.2	2,442-	15.2-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	10000	75		9925	33.3		10,000-	100.0-
	ELECTRICAL R&M	6355	100			100	33.3		100-	100.0-
97	PLUMBING EQUIPMENT R&M	6357	500		97	403	33.3	19.4	208-	41.6-
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380	10000		195	9805	33.3	1.9	9,414-	94.1-
	MOTOR VEHICLE EQ. R&M	6384	2000		424	1576	33.3	21.2	728-	36.4-
	SIGN PAINTING	6396	500			500	33.3		500-	100.0-
	TOW IN CHARGES	6398	150			150	33.3		150-	100.0-
468	OTHER REPAIRS AND MAIN	6399	6000		1827	4173	33.3	30.4	518-	8.6-
565	REPR/MAINT-OUTSIDE L		29250	75	2542	26633	33.3	8.6	21,624-	73.9-
	RENTALS									
1975	PARKING GARAGE/LOT REN	6402	25000		7975	17025	33.3	31.9	1,074-	4.2-
	OTHER RENT	6449	100			100	33.3		100-	100.0-
1975	RENTALS		25100		7975	17125	33.3	31.7	1,174-	4.6-
3767	OTHER SERVICES & CHAR		70350	75	15037	55239	33.3	21.3	25,238-	35.8-
	LAND									
	LAND	7000								
	LEASEHOLDS	7020								
	LAND									
	IMPROVEMENT OTHER THAN									
	FENCES/RAILINGS	7212								
	PARKING LOT/DRIVEWAY									
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								

	VEHICLES								
	CAPITAL OUTLAY								
20027	EXPENDITURES	312620	225	85859	226536	33.3	27.4	55,042-	17.6-

002300 - PKS/REC-RECREATION MAINT. DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
56093	REGULAR WAGES	4000	832522		229710	602812	33.3	27.5	143,392-	17.2-
	DISASTER RECOVERY WAGE	4010								
94	OVERTIME	4300	40000		8502	31498	33.3	21.2	14,494-	36.2-
	DISASTER RECOVERY OVER	4310								
56187	SALARIES		872522		238212	634310	33.3	27.3	157,886-	18.0-
	EMPLOYEE BENEFITS									
8849	STATE RETIREMENT	4600	137422		37405	100017	33.3	27.2	25,206-	18.3-
4234	F.I.C.A. TAXES	4700	66748		17917	48831	33.3	26.8	12,996-	19.4-
14500	HOSPITALIZATION INS.	4800	211200		76550	134650	33.3	36.2	18,450	8.7
2860	UNEMPLOYMENT BENEFITS	4900	4840		4840		33.3	100.0	9,680	200.0
	WORKMAN'S COMPENSATION	4910	28113			28113	33.3		28,113-	100.0-
30443	EMPLOYEE BENEFITS		448323		136712	311611	33.3	30.4	38,187-	8.5-
86630	PERSONAL SERVICES		1320845		374924	945921	33.3	28.3	196,073-	14.8-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
850	OTHER EXPENDABLE OFF.S	5010	1800		1662	138	33.3	92.3	3,186	177.0
384	MINOR OFFICE EQUIP/FUR	5020	13864	310	13478	76	33.3	97.2	26,570	191.6
	PHOTO SUPPLIES	5040								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
1234	OFFICE SUPPLIES		15664	310	15141	213	33.3	96.6	29,759	189.9
	OPERATING SUPPLIES									
2279	CLEANING/JANITORIAL SP	5100	16000		4701	11299	33.3	29.3	1,896-	11.8-
	MEDICAL SUPPLIES	5120	400		398	2	33.3	99.5	794	198.5
813	CHEMICALS	5130	32000	2,558	11135	18307	33.3	34.7	1,405	4.3
3108	GAS AND OIL	5250	65000		17331	47669	33.3	26.6	13,006-	20.0-
196	LUBRICANTS	5255	3000		1259	1741	33.3	41.9	777	25.9
182	DIESEL FUEL	5257	3000		417	2583	33.3	13.9	1,748-	58.2-
	WEARING APPAREL	5355	3000			3000	33.3		3,000-	100.0-
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405	1000			1000	33.3		1,000-	100.0-
1200	SAND,CLAY,GRVL,FILL DI	5415	16500	696	2800	13004	33.3	16.9	8,100-	49.0-
	HORT./LANDSCAPING SPLY	5440	38000	2,000	25095	10905	33.3	66.0	37,285	98.1
	HAND TOOLS	5450	3500	143	391	2967	33.3	11.1	2,326-	66.4-
	MINOR EQUIPMENT	5460	7600	1,398	5383	819	33.3	70.8	8,549	112.4
4522	RECREATIONAL SUPPLIES	5510	36000	5,288	8362	22350	33.3	23.2	10,914-	30.3-
1746	OTHER OPERATING MATL/S	5590	6000		5762	238	33.3	96.0	11,286	188.1

	OTHER OPER.MATLS-KAB	5591	6000		249	5751	33.3	4.1	5,252-	87.5-
14047	OPERATING SUPPLIES		237000	12,083	83284	141633	33.3	35.1	12,852	5.4
	REPAIR & MAINTENANCE SP									
3977	BUILDING MATERIALS & S	5600	19850	1,530	5317	13004	33.3	26.7	3,898-	19.6-
	ELECTRICAL SUPPLIES	5605	20000	2,576	9255	8169	33.3	46.2	7,765	38.8
672	PLUMBING SUPPLIES	5610	11500	55	2781	8665	33.3	24.1	3,156-	27.4-
	STRUCTURAL STEEL & IRO	5620	500			500	33.3		500-	100.0-
2175	PAINT AND PAINTING SPL	5650	18500	77	4546	13876	33.3	24.5	4,862-	26.2-
748	MTR VEHICLE REP. PTS/S	5700	18000	1,331	4907	11762	33.3	27.2	3,278-	18.2-
	COMMUNICATION REPAIR P	5750	1700		71	1629	33.3	4.1	1,486-	87.4-
2227	AGRICLTRL REPAIR PTS/S	5755	35000	1,087	7040	26873	33.3	20.1	13,880-	39.6-
	OTHER REPAIR/MAINT. SP	5990	1500		278	1222	33.3	18.5	666-	44.4-
	VANDALISM REPAIR PARTS	5992								
	REPR SPLY-8/29/05 STOR	5995		1,769		1769-				
9799	REPAIR & MAINTENANCE		126550	8,425	34195	83930	33.3	27.0	23,964-	18.9-
25079	SUPPLIES AND EXPENSES		379214	20,818	132620	225777	33.3	34.9	18,646	4.9
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020	62704	203	6981	55520	33.3	11.1	41,760-	66.5-
1947	OTHER PROFESSIONAL SER	6049	8947	2,386	1947	4614	33.3	21.7	3,105-	34.7-
1947	PROFESSIONAL SERVICE		71651	2,589	8928	60134	33.3	12.4	44,867-	62.6-
	COMMUNICATIONS									
331	TELEPHONE AND TELEGRAP	6060	2300		417	1883	33.3	18.1	1,048-	45.5-
	POSTAGE	6070	100			100	33.3		100-	100.0-
331	COMMUNICATIONS		2400		417	1983	33.3	17.3	1,148-	47.8-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	450			450	33.3		450-	100.0-
408	FREIGHT	6120	3278	1,430	905	943	33.3	27.6	562-	17.1-
408	TRANSPORTATION		3728	1,430	905	1393	33.3	24.2	1,012-	27.1-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200	300			300	33.3		300-	100.0-
	PRINTING AND BINDING		300			300	33.3		300-	100.0-
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	OTHER INSURANCE	6299								
	INSURANCE									
	UTILITIES									
	GAS	6300								
1358	ELECTRICITY	6305	10000		3986	6014	33.3	39.8	1,958	19.5

1358	UTILITIES		10000		3986	6014	33.3	39.8	1,958	19.5
	REPR/MAINT-OUTSIDE LABO									
11773	BUILDING R&M		15185	1,221	14631	444	33.3	96.3	28,708	189.0
	8/29/05 STORM REPAIRS	6353								
	ELECTRICAL R&M	6355	11000	1,625	5146	4229	33.3	46.7	4,438	40.3
315	PLUMBING EQUIPMENT R&M	6357	5175		650	4525	33.3	12.5	3,225-	62.3-
	STREETS & STRUCTURES R	6360	49250		49250		33.3	100.0	98,500	200.0
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380	20000			20000	33.3		20,000-	100.0-
	MINOR EQUIPMENT R&M	6382								
867	MOTOR VEHICLE EQ. R&M	6384	9000	301	2691	6009	33.3	29.9	926-	10.2-
650	AGRICULTURAL EQ. R&M	6387	22500	568	3280	18652	33.3	14.5	12,660-	56.2-
	COMMUNICATION EQ. R&M	6390	1000		225	775	33.3	22.5	324-	32.4-
96	DISINFECT./EXTERMINATI	6394	1800		144	1656	33.3	8.0	1,368-	76.0-
	SIGN PAINTING	6396	10000	1,331	3070	5599	33.3	30.7	790-	7.9-
65	TOW IN CHARGES	6398	750	65	130	555	33.3	17.3	360-	48.0-
300	OTHER REPAIRS AND MAIN	6399	3000	1,200	1755	45	33.3	58.5	2,265	75.5
14065	REPR/MAINT-OUTSIDE L		148660	7,532	80971	62489	33.3	54.4	94,253	63.4
	RENTALS									
	MACHINERY RENT	6420	3350	993	2127	230	33.3	63.4	3,031	90.4
	CYLINDER RENT	6425								
465	UNIFORM RENT	6430	6000		1861	4139	33.3	31.0	416-	6.9-
20	OTHER RENT	6449	8200		5313	2887	33.3	64.7	7,739	94.3
486	RENTALS		17550	993	9300	7257	33.3	52.9	10,350	58.9
	OTHER SERVICES & CHARGE									
	DUES AND MEMBERSHIPS	6840	650			650	33.3		650-	100.0-
	REGISTRATION FEE/TUITI	6845	1800			1800	33.3		1,800-	100.0-
	CUSTODIAL SERVICE	6870	3000		810	2190	33.3	27.0	570-	19.0-
31597	SERVICES NOT SPECIFIED	6999	146247	71,540	46518	28189	33.3	31.8	6,693-	4.5-
31597	OTHER SERVICES & CHA		151697	71,540	47328	32829	33.3	31.1	9,713-	6.4-
50193	OTHER SERVICES & CHAR		405986	84,084	151836	172398	33.3	37.3	49,522	12.1
	LAND	7000								
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227								
	PARK & PLAYGROUND LIGH	7240								
	SMOKEY HERRINGTON FIEL	7243								
	TRACKS	7244								
	JAYCEE BALLPK/WORLD SE	7248								
	LANDSCAPING									
	POOLS									
	RECREATION IMPROVEMENT									

	OTHER IMPROVEMENTS		61543	9,216	114446	55207-	33.3	185.9	281,795	457.8
	IMPROVEMENT OTHER TH		61543	9,216	114446	55207-	33.3	185.9	281,795	457.8
	MACHINERY AND EQUIPMENT									
	8/29/05 STORM EQUIP	7302								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	AGRICULTURAL EQUIPMENT	7335								
	RECREATIONAL EQUIPMENT	7350								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	BUSES	7410								
	PICK UP TRUCKS	7420								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY		61543	9,216	114446	55207-	33.3	185.9	281,795	457.8
161902	EXPENDITURES		2167588	114,118	773826	1288888	33.3	35.6	153,890	7.0

002315 - PKS/REC-REC.ADMIN/COM.REL.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
19937	REGULAR WAGES	4000	344113		79170	264943	33.3	23.0	106,603-	30.9-
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300			9	9-			27	
	DISASTER RECOVERY OVER	4310								
19937	SALARIES		344113		79178	264935	33.3	23.0	106,579-	30.9-
	EMPLOYEE BENEFITS									
3140	STATE RETIREMENT	4600	54355		12471	41884	33.3	22.9	16,941-	31.1-
1438	F.I.C.A. TAXES	4700	26401		5709	20692	33.3	21.6	9,273-	35.1-
3500	HOSPITALIZATION INS.	4800	46200		17500	28700	33.3	37.8	6,300	13.6
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	15365			15365	33.3		15,365-	100.0-
8078	EMPLOYEE BENEFITS		142821		35679	107142	33.3	24.9	35,783-	25.0-
28016	PERSONAL SERVICES		486934		114858	372076	33.3	23.5	142,360-	29.2-
	OFFICE SUPPLIES									
	PAPER	5003	350			350	33.3		350-	100.0-
	PRINTED FORMS	5005								
117	OTHER EXPENDABLE OFF.S	5010	2000		1040	960	33.3	52.0	1,120	56.0
	MINOR OFFICE EQUIP/FUR	5020								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	1350			1350	33.3		1,350-	100.0-
117	OFFICE SUPPLIES		3700		1040	2660	33.3	28.1	580-	15.6-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120	200			200	33.3		200-	100.0-
	CHEMICALS	5130	8500			8500	33.3		8,500-	100.0-
	SERVE-SAFE SUPPLIES	5155	200			200	33.3		200-	100.0-
136	GAS AND OIL	5250	10300		715	9585	33.3	6.9	8,154-	79.1-
	LUBRICANTS	5255								
	OTHER FUEL	5260								
	WEARING APPAREL	5355	850			850	33.3		850-	100.0-
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	HORT./LANDSCAPING SPLY	5440								
	MINOR EQUIPMENT	5460	5000			5000	33.3		5,000-	100.0-
2049	RECREATIONAL SUPPLIES	5510	59837		10205	49632	33.3	17.0	29,221-	48.8-

	MDSE FOR RESALE	5520								
	CERAMIC SUP.FOR RESALE	5521	1000			1000	33.3		1,000-	100.0-
	OTHER OPERATING MATL/S	5590								
2184	OPERATING SUPPLIES		85887		10920	74967	33.3	12.7	53,127-	61.8-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	ELECTRICAL SUPPLIES	5605								
	PLUMBING SUPPLIES	5610								
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650	200			200	33.3		200-	100.0-
	MTR VEHICLE REP. PTS/S	5700	1200			1200	33.3		1,200-	100.0-
	RECREATIONAL EQ. REP P	5765								
	REPAIR & MAINTENANCE		1400			1400	33.3		1,400-	100.0-
2301	SUPPLIES AND EXPENSES		90987		11960	79027	33.3	13.1	55,107-	60.5-
	PROFESSIONAL SERVICES									
	ARCHITECTURAL	6012								
	CONSULTANT SERV/SURVEY	6020								
	CONTRACTUAL PROGRAMS	6032								
160	OFFICIALS	6034	89644		6861	82783	33.3	7.6	69,060-	77.0-
39019	OTHER PROFESSIONAL SER	6049	157708	7,069	81618	69021	33.3	51.7	87,146	55.2
39179	PROFESSIONAL SERVICE		247352	7,069	88479	151804	33.3	35.7	18,085	7.3
	COMMUNICATIONS									
219	TELEPHONE AND TELEGRAP	6060	1760		260	1500	33.3	14.7	980-	55.6-
	POSTAGE	6070								
219	COMMUNICATIONS		1760		260	1500	33.3	14.7	980-	55.6-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	650			650	33.3		650-	100.0-
	CONTRACT TRAVEL	6115								
	FREIGHT	6120								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		650			650	33.3		650-	100.0-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING-SPEC. EVEN	6152	2940			2940	33.3		2,940-	100.0-
	ADVERTISING-SENIOR FAR	6154	1200	188	66	946	33.3	5.5	1,002-	83.5-
	ADVERTISING		4140	188	66	3886	33.3	1.5	3,942-	95.2-
	PRINTING AND BINDING									
	PRINTING	6200								
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								

	OTHER INSURANCE	6299								
	INSURANCE									
	UTILITIES									
517	GAS	6300	4000		884	3116	33.3	22.1	1,348-	33.7-
12261	ELECTRICITY	6305	185000		54062	130938	33.3	29.2	22,814-	12.3-
12778	UTILITIES		189000		54947	134053	33.3	29.0	24,158-	12.7-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	1000			1000	33.3		1,000-	100.0-
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365	2000			2000	33.3		2,000-	100.0-
	HOUSEHOLD EQUIPMENT R&	6370								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384	2000			2000	33.3		2,000-	100.0-
	RECREATIONAL EQ. R&M	6388								
	COMMUNICATION EQ. R&M	6390								
296	DISINFECT./EXTERMINATI	6394	2000		640	1360	33.3	32.0	80-	4.0-
	SIGN PAINTING	6396	900			900	33.3		900-	100.0-
	TOW IN CHARGES	6398								
	OTHER REPAIRS AND MAIN	6399								
296	REPR/MAINT-OUTSIDE L		7900		640	7260	33.3	8.1	5,980-	75.6-
	RENTALS									
	LAND RENT	6400								
	MACHINERY RENT	6420								
	CYLINDER RENT	6425								
	MOP-MAT-RAG-RENT	6435								
	OTHER RENT	6449	500			500	33.3		500-	100.0-
	RENTALS		500			500	33.3		500-	100.0-
	OTHER SERVICES & CHARGE									
294	PROP.TAX COLL. FEES .0	6830	7000		1123	5877	33.3	16.0	3,630-	51.8-
968	PROP.TAX COLL. FEES.00	6831	8000		1086	6914	33.3	13.5	4,742-	59.2-
	BANK SERV/TRF FEE	6832								
	DUES AND MEMBERSHIPS	6840	1000			1000	33.3		1,000-	100.0-
	REGISTRATION FEE/TUITI	6845	900			900	33.3		900-	100.0-
	CONTRACT COACHES	6852								
	DAY CAMP COUNSELORS	6855								
	CUSTODIAL SERVICE	6870								
	SERVICES NOT SPECIFIED	6999	200			200	33.3		200-	100.0-
1262	OTHER SERVICES & CHA		17100		2208	14892	33.3	12.9	10,476-	61.2-
53734	OTHER SERVICES & CHAR		468402	7,257	146601	314544	33.3	31.2	28,598-	6.1-
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227	46998	46,998		1	33.3		46,998-	100.0-
	OTHER IMPROVEMENTS	7295								

	IMPROVEMENT OTHER TH		46998	46,998		1	33.3		46,998-	100.0-
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	RECREATIONAL EQUIPMENT	7350								
	COMMUNICATION EQUIPMEN	7355								
	MACHINERY AND EQUIPM									
	VEHICLES									
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY		46998	46,998		1	33.3		46,998-	100.0-
84051	EXPENDITURES		1093321	54,255	273418	765648	33.3	25.0	273,067-	24.9-

002341 - PKS/REC-KAMPER PARK ZOO DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
	REGULAR WAGES	4000								
	DISASTER RECOVERY WAGE	4010								
	OVERTIME	4300								
	DISASTER RECOVERY OVER	4310								
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	SALARIES									
	EMPLOYEE BENEFITS									
	STATE RETIREMENT	4600								
	F.I.C.A. TAXES	4700								
	HOSPITALIZATION INS.	4800								
	UNEMPLOYMENT BENEFITS	4900								
	WORKMAN'S COMPENSATION	4910								
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	EMPLOYEE BENEFITS									
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	PERSONAL SERVICES									
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020								
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
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	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130								
	FEED FOR ANIMALS	5150								
	ANIMAL SUPPLIES	5160								
	GAS AND OIL	5250								
	LUBRICANTS	5255								
	DIESEL FUEL	5257								
	OTHER FUEL	5260								
	WEARING APPAREL	5355								
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450								

MINOR EQUIPMENT 5460
RECREATIONAL SUPPLIES 5510
CONCESSION SUPPLIES 5515
MDSE FOR RESALE-GIFTSH 5520
MDSE FOR RESALE-CONCES 5522
TRAFFIC SIGNS 5545
OTHER OPERATING MATL/S 5590

OPERATING SUPPLIES

REPAIR & MAINTENANCE SP
BUILDING MATERIALS & S 5600
ELECTRICAL SUPPLIES 5605
PLUMBING SUPPLIES 5610
STRUCTURAL STEEL & IRO 5620
PAINT AND PAINTING SPL 5650
MTR VEHICLE REP. PTS/S 5700
COMMUNICATION REPAIR P 5750
AGRICLTRL REPAIR PTS/S 5755
RECREATIONAL EQ. REP P 5765
OTHER REPAIR/MAINT. SP 5990

REPAIR & MAINTENANCE

SUPPLIES AND EXPENSES

PROFESSIONAL SERVICES
VETERINARIAN 6030
OTHER PROFESSIONAL SER 6049
OTHER PROF SERV-KPZ CO 6049 98

PROFESSIONAL SERVICE

COMMUNICATIONS
TELEPHONE AND TELEGRAP 6060
POSTAGE 6070

COMMUNICATIONS

TRANSPORTATION
TRAVEL EXPENSE 6110
FREIGHT 6120
MESSENGER/EXPRESS SERV 6130

TRANSPORTATION

ADVERTISING
ADVERTISING 6150

ADVERTISING

PRINTING AND BINDING
PRINTING 6200
FILM PROCESSING 6240

PRINTING AND BINDING

INSURANCE

	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
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	INSURANCE									
	UTILITIES									
	GAS	6300								
	ELECTRICITY	6305								
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	UTILITIES									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
	OFFICE EQUIPMENT R&M	6365								
	HOUSEHOLD EQUIPMENT R&	6370								
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
	MOTOR VEHICLE EQ. R&M	6384								
	AGRICULTURAL EQ. R&M	6387								
	RECREATIONAL EQ. R&M	6388								
	COMMUNICATION EQ. R&M	6390								
	DISINFECT./EXTERMINATI	6394								
	SIGN PAINTING	6396								
	TOW IN CHARGES	6398								
	OTHER REPAIRS AND MAIN	6399								
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	REPR/MAINT-OUTSIDE L									
	RENTALS									
	LAND RENT	6400								
	BUILDING RENT	6405								
	MACHINERY RENT	6420								
	CYLINDER RENT	6425								
	UNIFORM RENT	6430								
	MOP-MAT-RAG RENT	6435								
	OTHER RENT	6449								
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	RENTALS									
	OTHER SERVICES & CHARGE									
	THEFT LOSS	6818								
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	CUSTODIAL SERVICE	6870								
	SALES TAX-KPZ RIDES	6996								
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									

BUILDING IMPROVEMENTS

BUILDING/BLD IMPROVE
IMPROVEMENT OTHER THAN
PARKING LOT/DRIVEWAY 7227
STREETS & ROADWAYS 7230
PARK & PLAYGROUND LIGH 7240
LANDSCAPING 7250
OTHER IMPROVEMENTS

IMPROVEMENT OTHER TH
MACHINERY AND EQUIPMENT
HOUSEHOLD FURN/EQUIP. 7320
DATA PROCESSING EQUIP. 7327
AGRICULTURAL EQUIPMENT 7335
RECREATIONAL EQUIPMENT 7350
COMMUNICATION EQUIPMEN 7355
OTHER EQUIPMENT 7399

MACHINERY AND EQUIPM
VEHICLES
AUTOMOBILES 7400
PICK UP TRUCKS 7420

VEHICLES
OTHER
ZOOLOGICAL ANIMALS 7505

OTHER

CAPITAL OUTLAY

EXPENDITURES

004369 - LIBRARY FUND EXPENDITURES

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
287	PROP.TAX COLL. FEES .0	6830			1095	1095-			3,285	
944	PROP.TAX COLL. FEES.00	6831			1059	1059-			3,177	
1231	OTHER SERVICES & CHA				2154	2154-			6,462	
1231	OTHER SERVICES & CHAR				2154	2154-			6,462	
1231	EXPENDITURES				2154	2154-			6,462	

005160 - H.M.F.P.FUND-FIRE DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OFFICE SUPPLIES									
	MINOR OFFICE EQUIP/FUR	5020	3000			3000	33.3		3,000-	100.0-
	PUBLIC EDUCATION MAT'L	5032								
	OFFICE SUPPLIES		3000			3000	33.3		3,000-	100.0-
	OPERATING SUPPLIES									
	GAS AND OIL	5250								
	WEARING APPAREL	5355	59873	19,304		40569	33.3		59,873-	100.0-
	MINOR EQUIPMENT	5460	400			400	33.3		400-	100.0-
	MINOR FIRE FIGHTING EQ	5462								
	HAZ.MAT SUPPLIES	5466								
	FIRE HOSE	5470	2088			2088	33.3		2,088-	100.0-
	SFTY/FIRE P/MATL CONTR	5535								
	OTHER OPER.MATLS-USM	5590	1500			1500	33.3		1,500-	100.0-
	OPERATING SUPPLIES		63861	19,304		44557	33.3		63,861-	100.0-
	REPAIR & MAINTENANCE SP									
	MTR VEHICLE REP. PTS/S	5700								
	COMMUNICATION REPAIR P	5750	525			525	33.3		525-	100.0-
	MINOR COMPUTER EQUIP.	5800	2000			2000	33.3		2,000-	100.0-
	REPAIR & MAINTENANCE		2525			2525	33.3		2,525-	100.0-
	SUPPLIES AND EXPENSES		69386	19,304		50082	33.3		69,386-	100.0-
	OTHER PROFESSIONAL SER	6049	5175			5175	33.3		5,175-	100.0-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	TRANSPORTATION									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M (USM)	6350	2500			2500	33.3		2,500-	100.0-
	MOTOR VEHICLE EQ. R&M	6384								
	COMMUNICATION EQ. R&M	6390								
	REPR/MAINT-OUTSIDE L		2500			2500	33.3		2,500-	100.0-
	OTHER SERVICES & CHARGE									
	BANK SERV/TRF FEE	6832								
	REGISTRATION FEE/TUITI	6845	19295		1130	18165	33.3	5.8	15,905-	82.4-
	OTHER SERVICES & CHA		19295		1130	18165	33.3	5.8	15,905-	82.4-
	OTHER SERVICES & CHAR		26970		1130	25840	33.3	4.1	23,580-	87.4-

	LAND									
	LAND	7000								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS		10500			10500	33.3		10,500-	100.0-
	BUILDING IMPROVEMENTS						33.3			100.0-
	BUILDING/BLD IMPROVE		10500			10500	33.3		10,500-	100.0-
	IMPROVEMENT OTHER THAN									
	PARKING LOT/DRIVEWAY	7227								
	LANDSCAPING	7250								
	OTHER IMPROVEMENTS	7295	9500			9500	33.3		9,500-	100.0-
	OTHER IMPROVEMENTS-USM	7297								
	IMPROVEMENT OTHER TH		9500			9500	33.3		9,500-	100.0-
	MACHINERY AND EQUIPMENT									
	FIRE FIGHTING	7315	9270	4,535	4535	200	33.3	48.9	4,335	46.7
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	AGRICULTURAL EQUIPMENT	7335								
	COMMUNICATION EQUIPMEN	7355	45265		2414	42851	33.3	5.3	38,023-	84.0-
19886	COMMUNICATION EQ-USM	7356	49000		19886	29114	33.3	40.5	10,658	21.7
	HYDRANTS & METERS(USM)	7365								
	OTHER EQUIP-USM MONIES	7398								
	OTHER EQUIPMENT	7399								
19886	MACHINERY AND EQUIPM		103535	4,535	26835	72165	33.3	25.9	23,029-	22.2-
	VEHICLES									
	AUTOMOBILES	7400								
	MOTORCYCLES	7405								
	BUSES	7410								
	PICK UP TRUCKS	7420	60000	35,465		24535	33.3		60,000-	100.0-
	HEAVY TRUCKS	7430								
	FIRE TRUCKS	7435								
	VEHICLES		60000	35,465		24535	33.3		60,000-	100.0-
19886	CAPITAL OUTLAY		183535	40,000	26835	116700	33.3	14.6	103,029-	56.1-
19886	EXPENDITURES		279891	59,304	27965	192623	33.3	9.9	195,995-	70.0-

005460 - H.M.F.P.FUND-CAPITAL LEASES

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	CAPITAL LEASE PAYMENTS									
	MDB-BLDG-FIRE STA #8	8515								
	FIRE TRUCKS LEASE-A'04	8527								
	FIRE TRUCKS LEASE-B'04	8528								
15564	FIRE TRUCKS LEASE-'16	8529	187320		62148	125172	33.3	33.1	876-	.4-
	FIRE PROT.EQUIP.LEASE	8530								
13732	FIRE TRUCKS LEASE-'11	8532	165737		54742	110995	33.3	33.0	1,511-	.9-
29296	CAPITAL LEASE PAYMEN		353057		116891	236166	33.3	33.1	2,383-	.6-
	INTEREST ON CAPITAL LEA									
	MDB-BLDG-FIRE STA #8	8615								
	FIRE TRUCKS LEASE-A'04	8627								
	FIRE TRUCKS LEASE-B'04	8628								
813	FIRE TRUCKS LEASE-'16	8629	9218		3361	5857	33.3	36.4	865	9.3
	FIRE PROT.EQUIP.LEASE	8630								
608	FIRE TRUCKS LEASE-'11	8632	6351		2620	3731	33.3	41.2	1,509	23.7
1421	INTEREST ON CAPITAL		15569		5981	9588	33.3	38.4	2,374	15.2
30718	DEBT SERVICE		368626		122872	245754	33.3	33.3	10-	
30718	EXPENDITURES		368626		122872	245754	33.3	33.3	10-	

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	CHEMICALS	5130								
	GAS AND OIL	5250								
	LUBRICANTS	5255								
	OTHER FUEL	5260								
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	BRICK,STONE,MORTAR,ETC	5410								
	SAND,CLAY,GRVL,FILL DI	5415								
	DRAINAGE PIPE & CULVER	5420								
	HORT./LANDSCAPING SPLY	5440								
	MINOR EQUIPMENT	5460								
	TRAFFIC CONTROL EQ. SP	5540								
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	OPERATING SUPPLIES									
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	PLUMBING SUPPLIES	5610								
	STRUCTURAL STEEL & IRO	5620								
---			---	---	---	---	---	---	---	---
	REPAIR & MAINTENANCE									
---			---	---	---	---	---	---	---	---
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
	OTHER PROFESSIONAL SER	6049								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
	REPR/MAINT-OUTSIDE LABO									
	STREETS & STRUCTURES R	6360	297168	14,053	127255	155860	33.3	42.8	84,597	28.4
---			---	---	---	---	---	---	---	---
	REPR/MAINT-OUTSIDE L		297168	14,053	127255	155860	33.3	42.8	84,597	28.4
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR		297168	14,053	127255	155860	33.3	42.8	84,597	28.4
	LAND									
	LAND	7000								
	EASEMENTS	7010								
	STREETS & ROADWAYS									
---			---	---	---	---	---	---	---	---
	LAND									
---			---	---	---	---	---	---	---	---
	CAPITAL OUTLAY									
---			---	---	---	---	---	---	---	---

EXPENDITURES	297168	14,053	127255	155860	33.3	42.8	84,597	28.4

009660 - W&S O&M-CUSTOMER ACCT. DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
22388	REGULAR WAGES	4000	296482		89170	207312	33.3	30.0	28,972-	9.7-
	DISASTER RECOVERY WAGE	4010								
141	OVERTIME	4300	4500		1123	3377	33.3	24.9	1,130-	25.1-
	DISASTER RECOVERY OVER	4310								
22528	SALARIES		300982		90293	210689	33.3	29.9	30,102-	10.0-
	EMPLOYEE BENEFITS									
3548	STATE RETIREMENT	4600	47405		14221	33184	33.3	29.9	4,741-	10.0-
1677	F.I.C.A. TAXES	4700	23025		6721	16304	33.3	29.1	2,861-	12.4-
6500	HOSPITALIZATION INS.	4800	85800		31550	54250	33.3	36.7	8,850	10.3
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	4411			4411	33.3		4,411-	100.0-
11725	EMPLOYEE BENEFITS		161141		52492	108649	33.3	32.5	3,665-	2.2-
34253	PERSONAL SERVICES		462123		142785	319338	33.3	30.8	33,767-	7.3-
	OFFICE SUPPLIES									
	PAPER	5003	3000	829		2171	33.3		3,000-	100.0-
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	2350	582	812	956	33.3	34.5	86	3.6
251	MINOR OFFICE EQUIP/FUR	5020	3030	30	1136	1864	33.3	37.4	378	12.4
	BOOKS	5070								
251	OFFICE SUPPLIES		8380	1,441	1947	4991	33.3	23.2	2,538-	30.2-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100	1000	213	73	714	33.3	7.3	780-	78.0-
	MEDICAL SUPPLIES	5120								
617	GAS AND OIL	5250	12000		3167	8833	33.3	26.3	2,498-	20.8-
	LUBRICANTS	5255								
	CONCRETE, CEMENT, ETC.	5405								
	HAND TOOLS	5450	3000		359	2641	33.3	11.9	1,922-	64.0-
	MINOR EQUIPMENT	5460	2100		2100		33.3	100.0	4,200	200.0
	METER LOCKS	5467	5000		4877	123	33.3	97.5	9,631	192.6
	OTHER OPERATING MATL/S	5590	500			500	33.3		500-	100.0-
617	OPERATING SUPPLIES		23600	213	10576	12810	33.3	44.8	8,128	34.4
	REPAIR & MAINTENANCE SP									
	ELECTRICAL SUPPLIES	5605	1000		72-	1072	33.3	7.2	784-	78.4-
	MTR VEHICLE REP. PTS/S	5700	3116	106	1066	1944	33.3	34.2	82	2.6
	COMMUNICATION REPAIR P	5750								
	OTHER REPAIR/MAINT. SP	5990	500	117		383	33.3		500-	100.0-

	REPAIR & MAINTENANCE		4616	223	994	3399	33.3	21.5	1,634-	35.3-
867	SUPPLIES AND EXPENSES		36596	1,877	13518	21200	33.3	36.9	3,958	10.8
	PROFESSIONAL SERVICES									
	AUDITING AND ACCOUNTIN	6010	25000			25000	33.3		25,000-	100.0-
	APPRAISAL	6017								
	LEGAL	6025								
	MEDICAL	6027								
2463	OTHER PROFESSIONAL SER	6049	24000		6055	17946	33.3	25.2	5,834-	24.3-
2463	PROFESSIONAL SERVICE		49000		6055	42946	33.3	12.3	30,834-	62.9-
	COMMUNICATIONS									
125	TELEPHONE AND TELEGRAP	6060	1500		164	1336	33.3	10.9	1,008-	67.2-
	POSTAGE	6070	52500		10000	42500	33.3	19.0	22,500-	42.8-
125	COMMUNICATIONS		54000		10164	43836	33.3	18.8	23,508-	43.5-
	TRANSPORTATION									
	FREIGHT	6120	500		58	442	33.3	11.6	326-	65.2-
	TRANSPORTATION		500		58	442	33.3	11.6	326-	65.2-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
25	PRINTING	6200	4100		1736	2364	33.3	42.3	1,108	27.0
25	PRINTING AND BINDING		4100		1736	2364	33.3	42.3	1,108	27.0
	INSURANCE									
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
158	GAS	6300	1200		259	941	33.3	21.5	422-	35.1-
349	ELECTRICITY	6305	6000		1646	4354	33.3	27.4	1,062-	17.7-
507	UTILITIES		7200		1905	5295	33.3	26.4	1,484-	20.6-
	REPR/MAINT-OUTSIDE LABO									
30	BUILDING R&M	6350	4000		30	3970	33.3	.7	3,910-	97.7-
	OFFICE EQUIPMENT R&M	6365	2300			2300	33.3		2,300-	100.0-
	FIXED EQUIPMENT R&M	6380	1075	75		1000	33.3		1,075-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	10000		65	9935	33.3	.6	9,804-	98.0-
	COMMUNICATION EQ. R&M	6390	800	720		80	33.3		800-	100.0-
45	DISINFECT./EXTERMINATI	6394	900		45	855	33.3	5.0	764-	84.8-
	OTHER REPAIRS AND MAIN	6399	1000			1000	33.3		1,000-	100.0-
75	REPR/MAINT-OUTSIDE L		20075	795	140	19140	33.3	.6	19,655-	97.9-
	RENTALS									
	BUILDING RENT	6405								
	OFFICE EQUIPMENT RENT	6410								
140	UNIFORM RENT	6430	1300		374	926	33.3	28.7	178-	13.6-

	MOP-MAT-RAG RENT	6435								
	OTHER RENT	6449								
140	RENTALS		1300		374	926	33.3	28.7	178-	13.6-
	OTHER SERVICES & CHARGE									
	CASH OVERAGE/SHORTAGE	6819								
	BANK SERV/TRF FEE	6832								
	REFUNDS									
	NSF CHECKS	6836								
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845	1100			1100	33.3		1,100-	100.0-
	SERVICES NOT SPECIFIED	6999	4000		4000		33.3	100.0	8,000	200.0
	OTHER SERVICES & CHA		5100		4000	1100	33.3	78.4	6,900	135.2
3335	OTHER SERVICES & CHAR		141275	795	24432	116048	33.3	17.2	67,979-	48.1-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	WATER UTILITY SOFTWARE	7329								
	CONSTRUCTION EQUIPMENT	7345								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	SPECIAL TRUCKS	7450								
	VEHICLES									
	CAPITAL OUTLAY									
38456	EXPENDITURES		639994	2,672	180735	456586	33.3	28.2	97,788-	15.2-

009672 - W&S O&M-WATER TRANSMISSION DIV

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
35016	REGULAR WAGES	4000	507097		143106	363991	33.3	28.2	77,779-	15.3-
	DISASTER RECOVERY WAGE	4010								
1333	OVERTIME	4300	35000		6740	28260	33.3	19.2	14,780-	42.2-
	DISASTER RECOVERY OVER	4310								
36349	SALARIES		542097		149846	392251	33.3	27.6	92,559-	17.0-
	EMPLOYEE BENEFITS									
5725	STATE RETIREMENT	4600	85380		23601	61779	33.3	27.6	14,576-	17.0-
2727	F.I.C.A. TAXES	4700	41470		11247	30223	33.3	27.1	7,728-	18.6-
8500	HOSPITALIZATION INS.	4800	125400		45500	79900	33.3	36.2	11,100	8.8
	UNEMPLOYMENT BENEFITS	4900	1000			1000	33.3		1,000-	100.0-
	WORKMAN'S COMPENSATION	4910	17308			17308	33.3		17,308-	100.0-
16952	EMPLOYEE BENEFITS		270558		80348	190210	33.3	29.6	29,514-	10.9-
53301	PERSONAL SERVICES		812655		230194	582461	33.3	28.3	122,073-	15.0-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010								
	MINOR OFFICE EQUIP/FUR	5020								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	40000			40000	33.3		40,000-	100.0-
2736	GAS AND OIL	5250			12697	12697-			38,091	
	NATURAL GAS FUEL	5252								
	LUBRICANTS	5255								
142	DIESEL FUEL	5257	6000		873	5127	33.3	14.5	3,380-	56.3-
	WEARING APPAREL	5355	3000		929	2071	33.3	30.9	212-	7.0-
	ASPHALT & ASPHALT PROD	5400	10000			10000	33.3		10,000-	100.0-
	CONCRETE, CEMENT, ETC.	5405	10000			10000	33.3		10,000-	100.0-
	BRICK,STONE,MORTAR,ETC	5410	1000			1000	33.3		1,000-	100.0-
	SAND,CLAY,GRVL,FILL DI	5415	15000			15000	33.3		15,000-	100.0-
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	7000	1,547	337	5115	33.3	4.8	5,988-	85.5-
	MINOR EQUIPMENT	5460	2000	240		1760	33.3		2,000-	100.0-
	HYDRANT PARTS	5480	1000			1000	33.3		1,000-	100.0-
	METER PARTS	5485	776			776	33.3		776-	100.0-

	VALVE PARTS	5490								
	PUMPING EQUIPMENT PART	5495								
	OTHER OPERATING MATL/S	5590	2000		1481	519	33.3	74.0	2,443	122.1
2878	OPERATING SUPPLIES		97776	1,787	16317	79672	33.3	16.6	48,824-	49.9-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	ELECTRICAL SUPPLIES	5605								
8275	PLUMBING SUPPLIES	5610	125000	8,728	36517	79755	33.3	29.2	15,448-	12.3-
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650	1000			1000	33.3		1,000-	100.0-
874	MTR VEHICLE REP. PTS/S	5700	15000	334	1690	12977	33.3	11.2	9,930-	66.2-
	COMMUNICATION REPAIR P	5750								
	EXPENDABLE WELDING SPL	5770								
	OTHER REPAIR/MAINT. SP	5990	3245		1245	2000	33.3	38.3	490	15.1
	DISASTER REPAIR SUPPLI	5995								
9149	REPAIR & MAINTENANCE		144245	9,062	39452	95732	33.3	27.3	25,889-	17.9-
12027	SUPPLIES AND EXPENSES		242021	10,849	55768	175403	33.3	23.0	74,717-	30.8-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	ABSTRACTING & RECORDIN	6023								
	MEDICAL	6027								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	COMMUNICATIONS									
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								

	DISASTER REPAIRS	6351		1,970		1970-				
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
12337	STREETS & STRUCTURES R	6360	760494	12,450	449891	298153	33.3	59.1	589,179	77.4
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
80	MOTOR VEHICLE EQ. R&M	6384	10500	518	102	9880	33.3	.9	10,194-	97.0-
	CONSTRUCTION EQUIP R&M	6386	5000		194	4806	33.3	3.8	4,418-	88.3-
	COMMUNICATION EQ. R&M	6390								
65	TOW IN CHARGES	6398	1000		200	800	33.3	20.0	400-	40.0-
	OTHER REPAIRS AND MAIN	6399								
12482	REPR/MAINT-OUTSIDE L		776994	14,938	450387	311670	33.3	57.9	574,167	73.8
	RENTALS									
	MACHINERY RENT	6420	1500			1500	33.3		1,500-	100.0-
	CYLINDER RENT	6425								
294	UNIFORM RENT	6430	4500		1070	3430	33.3	23.7	1,290-	28.6-
	OTHER RENT	6449	4000			4000	33.3		4,000-	100.0-
294	RENTALS		10000		1070	8930	33.3	10.7	6,790-	67.9-
	OTHER SERVICES & CHARGE									
	SETTLEMT OF DAMAGE CLA	6700								
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
12776	OTHER SERVICES & CHAR		786994	14,938	451457	320600	33.3	57.3	567,377	72.0
	LEASEHOLDS	7020								
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS	7150								
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	DATA PROCESSING EQUIP.	7327								
	CONSTRUCTION EQUIPMENT	7345								
	COMMUNICATION EQUIPMEN	7355								
	HYDRANTS & METERS	7365								
	PIPE	7370								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	SPECIAL TRUCKS	7450								

	VEHICLES								
	CAPITAL OUTLAY								
78104	EXPENDITURES	1841670	25,787	737419	1078464	33.3	40.0	370,587	20.1

009673 - W&S O&M-WATER PLANT DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
28776	REGULAR WAGES	4000	400080		118379	281701	33.3	29.5	44,942-	11.2-
	DISASTER RECOVERY WAGE	4010								
2367	OVERTIME	4300	20000		6799	13201	33.3	33.9	397	1.9
	DISASTER RECOVERY OVER	4310								
31143	SALARIES		420080		125177	294903	33.3	29.7	44,548-	10.6-
	EMPLOYEE BENEFITS									
4905	STATE RETIREMENT	4600	66163		19715	46448	33.3	29.7	7,017-	10.6-
2306	F.I.C.A. TAXES	4700	32136		9278	22858	33.3	28.8	4,302-	13.3-
7500	HOSPITALIZATION INS.	4800	105600		37100	68500	33.3	35.1	5,700	5.3
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	9079			9079	33.3		9,079-	100.0-
14711	EMPLOYEE BENEFITS		213478		66094	147384	33.3	30.9	15,196-	7.1-
45854	PERSONAL SERVICES		633558		191271	442287	33.3	30.1	59,744-	9.4-
	OFFICE SUPPLIES									
	PAPER	5003	200			200	33.3		200-	100.0-
	PRINTED FORMS	5005	2500			2500	33.3		2,500-	100.0-
	OTHER EXPENDABLE OFF.S	5010	3000		463	2537	33.3	15.4	1,610-	53.6-
	MINOR OFFICE EQUIP/FUR	5020	100			100	33.3		100-	100.0-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070	200			200	33.3		200-	100.0-
	COMPUTER SUPPLIES	5080	300		201	99	33.3	67.0	303	101.0
	OFFICE SUPPLIES		6300		665	5635	33.3	10.5	4,304-	68.3-
	OPERATING SUPPLIES									
4-	CLEANING/JANITORIAL SP	5100	2000		797	1203	33.3	39.8	391	19.5
	FOOD	5115								
	MEDICAL SUPPLIES	5120								
5055	CHEMICALS	5130	50000	38,300	14024	2324-	33.3	28.0	7,928-	15.8-
254	GAS AND OIL	5250	7000		951	6049	33.3	13.5	4,146-	59.2-
	LUBRICANTS	5255								
214	DIESEL FUEL	5257	10000		869	9131	33.3	8.6	7,392-	73.9-
72	OTHER FUEL	5260	500		144	356	33.3	28.8	68-	13.6-
	WEARING APPAREL	5355	100			100	33.3		100-	100.0-
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	DRAINAGE PIPE & CULVER	5420								
	HORT./LANDSCAPING SPLY	5440								
	HAND TOOLS	5450	500			500	33.3		500-	100.0-
	MINOR EQUIPMENT	5460	1500		1124	376	33.3	74.9	1,872	124.8

	METER PARTS	5485								
	VALVE PARTS	5490								
	PUMPING EQUIPMENT PART	5495	10000		2611	7389	33.3	26.1	2,166-	21.6-
48	OTHER OPERATING MATL/S	5590	4000		1071	2929	33.3	26.7	786-	19.6-
5640	OPERATING SUPPLIES		85600	38,300	21590	25710	33.3	25.2	20,830-	24.3-
	REPAIR & MAINTENANCE SP									
1508	BUILDING MATERIALS & S	5600	5000		1508	3492	33.3	30.1	476-	9.5-
848	ELECTRICAL SUPPLIES	5605	12000	39	1289	10672	33.3	10.7	8,132-	67.7-
	PLUMBING SUPPLIES	5610	2000			2000	33.3		2,000-	100.0-
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650	2000		262	1738	33.3	13.1	1,214-	60.7-
145	MTR VEHICLE REP. PTS/S	5700	3700	1,200	385	2115	33.3	10.4	2,544-	68.7-
	GENERATOR REP. PTS/SPL	5705	10000			10000	33.3		10,000-	100.0-
	COMMUNICATION REPAIR P	5750								
245	AGRICLTRL REPAIR PTS/S	5755	3000		893	2107	33.3	29.7	320-	10.6-
	MINOR COMPUTER EQUIP.	5800								
	OTHER REPAIR/MAINT. SP	5990	4000		178	3822	33.3	4.4	3,466-	86.6-
	DISASTER REPAIR SUPPLI	5995		1,193		1193-				
2745	REPAIR & MAINTENANCE		41700	2,432	4514	34754	33.3	10.8	28,158-	67.5-
8385	SUPPLIES AND EXPENSES		133600	40,732	26769	66099	33.3	20.0	53,292-	39.8-
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	CONSULTANT SERV/SURVEY	6020								
329	OTHER PROFESSIONAL SER	6049	75000		329	74671	33.3	.4	74,012-	98.6-
329	PROFESSIONAL SERVICE		75000		329	74671	33.3	.4	74,012-	98.6-
	COMMUNICATIONS									
576	TELEPHONE AND TELEGRAP	6060	3000		755	2245	33.3	25.1	734-	24.4-
	POSTAGE	6070	2500			2500	33.3		2,500-	100.0-
576	COMMUNICATIONS		5500		755	4745	33.3	13.7	3,234-	58.8-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	2000		265	1735	33.3	13.2	1,204-	60.2-
106	FREIGHT	6120	1000		172	828	33.3	17.2	484-	48.4-
	MESSENGER/EXPRESS SERV	6130								
106	TRANSPORTATION		3000		437	2563	33.3	14.5	1,688-	56.2-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	INSURANCE									
	BOILER MACHINERY	6260								
	SURETY AND FORGERY BON	6270								

	INSURANCE									
	UTILITIES									
873	GAS	6300	4000		1152	2848	33.3	28.8	544-	13.6-
56405	ELECTRICITY	6305	750000		225633	524367	33.3	30.0	73,100-	9.7-
57278	UTILITIES		754000		226785	527215	33.3	30.0	73,644-	9.7-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350	1000			1000	33.3		1,000-	100.0-
	DISASTER REPAIRS	6351		63,825		63825-				
	ELECTRICAL R&M	6355	32899		16500	16400	33.3	50.1	16,601	50.4
	PLUMBING EQUIPMENT R&M	6357	1000			1000	33.3		1,000-	100.0-
	OFFICE EQUIPMENT R&M	6365								
	FIXED EQUIPMENT R&M	6380	131156	7,756	31744	91655	33.3	24.2	35,924-	27.3-
	MINOR EQUIPMENT R&M	6382	4000		888	3113	33.3	22.2	1,336-	33.4-
	GENERATOR R&M	6383	80399			80399	33.3		80,399-	100.0-
18	MOTOR VEHICLE EQ. R&M	6384	5000		18	4982	33.3	.3	4,946-	98.9-
	CONSTRUCTION EQUIP R&M	6386								
	AGRICULTURAL EQ. R&M	6387	1000		119	881	33.3	11.9	642-	64.2-
	COMMUNICATION EQ. R&M	6390	1000			1000	33.3		1,000-	100.0-
148	DISINFECT./EXTERMINATI	6394	1000		296	704	33.3	29.6	112-	11.2-
	OTHER REPAIRS AND MAIN	6399	1000			1000	33.3		1,000-	100.0-
166	REPR/MAINT-OUTSIDE L		259454	71,581	49565	138308	33.3	19.1	110,758-	42.6-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	MACHINERY RENT	6420								
	CYLINDER RENT	6425								
253	UNIFORM RENT	6430	4000		986	3014	33.3	24.6	1,042-	26.0-
72	MOP-MAT-RAG RENT	6435	1000		259	741	33.3	25.9	222-	22.2-
	OTHER RENT	6449								
325	RENTALS		5000		1245	3755	33.3	24.9	1,264-	25.2-
	OTHER SERVICES & CHARGE									
	BANK SERV/TRF FEE	6832								
	DUES AND MEMBERSHIPS	6840	1000			1000	33.3		1,000-	100.0-
	REGISTRATION FEE/TUITI	6845	2000			2000	33.3		2,000-	100.0-
	CUSTODIAL SERVICE	6870								
	PROPERTY TAXES	6995								
90	SERVICES NOT SPECIFIED	6999	2000		90	1910	33.3	4.5	1,730-	86.5-
90	OTHER SERVICES & CHA		5000		90	4910	33.3	1.8	4,730-	94.6-
58870	OTHER SERVICES & CHAR		1106954	71,581	279205	756168	33.3	25.2	269,338-	24.3-
	BUILDING/BLD IMPROVEMEN									
18430	BUILDING IMPROVEMENTS		156000		150859	5141	33.3	96.7	296,577	190.1
18430	BUILDING/BLD IMPROVE		156000		150859	5141	33.3	96.7	296,577	190.1
	IMPROVEMENT OTHER THAN									
	FENCES/RAILINGS	7212								
	LANDSCAPING	7250								

	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	WATER UTILITY SOFTWARE	7329								
	AGRICULTURAL EQUIPMENT	7335								
	PLANT EQUIPMENT	7340								
	COMMUNICATION EQUIPMEN	7355								
	HYDRANTS & METERS	7365								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
18430	CAPITAL OUTLAY		156000		150859	5141	33.3	96.7	296,577	190.1
131539	EXPENDITURES		2030112	112,313	648104	1269695	33.3	31.9	85,800-	4.2-

009676 - W&S O&M-SEWER DIVISION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
29943	REGULAR WAGES	4000	476522		122942	353580	33.3	25.7	107,696-	22.6-
	DISASTER RECOVERY WAGE	4010								
1753	OVERTIME	4300	35000		7889	27111	33.3	22.5	11,332-	32.3-
	DISASTER RECOVERY OVER	4310								
31696	SALARIES		511522		130831	380691	33.3	25.5	119,028-	23.2-
	EMPLOYEE BENEFITS									
4992	STATE RETIREMENT	4600	80565		20606	59959	33.3	25.5	18,747-	23.2-
2403	F.I.C.A. TAXES	4700	39131		9924	29207	33.3	25.3	9,359-	23.9-
7500	HOSPITALIZATION INS.	4800	118800		40600	78200	33.3	34.1	3,000	2.5
	UNEMPLOYMENT BENEFITS	4900	1000			1000	33.3		1,000-	100.0-
	WORKMAN'S COMPENSATION	4910	17027			17027	33.3		17,027-	100.0-
14896	EMPLOYEE BENEFITS		256523		71130	185393	33.3	27.7	43,133-	16.8-
46591	PERSONAL SERVICES		768045		201961	566084	33.3	26.2	162,161-	21.1-
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	HOUSEHOLD SUPPLIES	5110								
	MEDICAL SUPPLIES	5120								
22351	CHEMICALS	5130	165000		67612	97388	33.3	40.9	37,836	22.9
645	GAS AND OIL	5250	10000		3320	6680	33.3	33.2	40-	.4-
	LUBRICANTS	5255								
609	DIESEL FUEL	5257	20000		1723	18277	33.3	8.6	14,830-	74.1-
	OTHER FUEL	5260								
	WEARING APPAREL	5355	3000		946	2054	33.3	31.5	162-	5.4-
	ASPHALT & ASPHALT PROD	5400	10000			10000	33.3		10,000-	100.0-
	CONCRETE, CEMENT, ETC.	5405	1000		329	671	33.3	32.9	12-	1.2-
	BRICK,STONE,MORTAR,ETC	5410								
	SAND,CLAY,GRVL,FILL DI	5415	10000	2,850	5987	1163	33.3	59.8	7,961	79.6
	DRAINAGE PIPE & CULVER	5420								
	HORT./LANDSCAPING SPLY	5440	500			500	33.3		500-	100.0-
90-	HAND TOOLS	5450	10000	455	540	9005	33.3	5.4	8,380-	83.8-
	MINOR EQUIPMENT	5460	2000		3350	1350-	33.3	167.5	8,050	402.5
	PUMPING EQUIPMENT PART	5495	100			100	33.3		100-	100.0-
119-	OTHER OPERATING MATL/S	5590	5000	235	708	4057	33.3	14.1	2,876-	57.5-
23396	OPERATING SUPPLIES		236600	3,540	84516	148544	33.3	35.7	16,948	7.1
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	500			500	33.3		500-	100.0-
	ELECTRICAL SUPPLIES	5605	2500			2500	33.3		2,500-	100.0-
27	PLUMBING SUPPLIES	5610	40000		6737	33263	33.3	16.8	19,788-	49.4-

	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650	500			500	33.3		500-	100.0-
	MTR VEHICLE REP. PTS/S	5700	25000	2,421	2337	20241	33.3	9.3	17,988-	71.9-
	COMMUNICATION REPAIR P	5750								
	AGRICLTRL REPAIR PTS/S	5755								
	EXPENDABLE WELDING SPL	5770								
	OTHER REPAIR/MAINT. SP	5990	2000			2000	33.3		2,000-	100.0-
	DISASTER REPAIR SUPPLI	5995								
27	REPAIR & MAINTENANCE		70500	2,421	9074	59005	33.3	12.8	43,278-	61.3-
23423	SUPPLIES AND EXPENSES		307100	5,961	93590	207549	33.3	30.4	26,330-	8.5-
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049	2000			2000	33.3		2,000-	100.0-
	PROFESSIONAL SERVICE		2000			2000	33.3		2,000-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
517	TRAVEL EXPENSE	6110	1200		517	683	33.3	43.0	351	29.2
	FREIGHT	6120	800		75	725	33.3	9.3	574-	71.7-
517	TRANSPORTATION		2000		592	1408	33.3	29.6	224-	11.2-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
13	GAS	6300	200		50	150	33.3	25.0	50-	25.0-
7279	ELECTRICITY	6305	100000		27027	72973	33.3	27.0	18,918-	18.9-
7292	UTILITIES		100200		27077	73123	33.3	27.0	18,968-	18.9-
	REPR/MAINT-OUTSIDE LABO									
	DISASTER REPAIRS	6351		1,970		1970-				
	ELECTRICAL R&M	6355	8000			8000	33.3		8,000-	100.0-
	PLUMBING EQUIPMENT R&M	6357								
164418	STREETS & STRUCTURES R	6360	1136960	2,311	498584	640687	33.3	43.8	358,792	31.5
	FIXED EQUIPMENT R&M	6380	2000			2000	33.3		2,000-	100.0-
	MINOR EQUIPMENT R&M	6382	10500		250-	10750	33.3	2.3	9,750-	92.8-
571	MOTOR VEHICLE EQ. R&M	6384	35000	1,558	2338	31104	33.3	6.6	27,986-	79.9-
	CONSTRUCTION EQUIP R&M	6386	20000			20000	33.3		20,000-	100.0-

	AGRICULTURAL EQ. R&M	6387								
	COMMUNICATION EQ. R&M	6390	2000			2000	33.3		2,000-	100.0-
135	TOW IN CHARGES	6398	2000		135	1865	33.3	6.7	1,594-	79.7-
	OTHER REPAIRS AND MAIN	6399								
165124	REPR/MAINT-OUTSIDE L		1216460	1,217	500806	714437	33.3	41.1	285,958	23.5
	RENTALS									
	AUTOMOTIVE EQ. RENT	6415								
	MACHINERY RENT	6420	5000			5000	33.3		5,000-	100.0-
	CYLINDER RENT	6425								
273	UNIFORM RENT	6430	3500		1078	2422	33.3	30.8	266-	7.6-
	OTHER RENT	6449	2500			2500	33.3		2,500-	100.0-
273	RENTALS		11000		1078	9922	33.3	9.8	7,766-	70.6-
	OTHER SERVICES & CHARGE									
	REGISTRATION FEE/TUITI	6845	1000			1000	33.3		1,000-	100.0-
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA		1000			1000	33.3		1,000-	100.0-
173206	OTHER SERVICES & CHAR		1332660	1,217	529554	801889	33.3	39.7	256,002	19.2
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	BRIDGES	7210								
	FENCES/RAILINGS	7212								
	DRAINS	7215								
	SEWERS	7220								
	STREETS & ROADWAYS	7230								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	ENGINEERING	7305								
	DATA PROCESSING EQUIP.	7327								
	AGRICULTURAL EQUIPMENT	7335								
	PLANT EQUIPMENT	7340								
	CONSTRUCTION EQUIPMENT	7345								
	COMMUNICATION EQUIPMEN	7355								
	PIPE	7370								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	DUMP TRUCKS	7440								
	SPECIAL TRUCKS	7450								
	VEHICLES									

	CAPITAL OUTLAY								
243221	EXPENDITURES	2407805	7,178	825104	1575523	33.3	34.2	67,507	2.8

009677 - W&S O&M-SEWER LAGOON DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
11309	REGULAR WAGES	4000	172869		47166	125703	33.3	27.2	31,371-	18.1-
	DISASTER RECOVERY WAGE	4010								
152	OVERTIME	4300	25000		1898	23102	33.3	7.5	19,306-	77.2-
	DISASTER RECOVERY OVER	4310								
11461	SALARIES		197869		49064	148805	33.3	24.7	50,677-	25.6-
	EMPLOYEE BENEFITS									
1805	STATE RETIREMENT	4600	31164		7728	23436	33.3	24.7	7,980-	25.6-
844	F.I.C.A. TAXES	4700	15137		3629	11508	33.3	23.9	4,249-	28.0-
2500	HOSPITALIZATION INS.	4800	46200		12150	34050	33.3	26.2	9,750-	21.1-
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	6286			6286	33.3		6,286-	100.0-
5149	EMPLOYEE BENEFITS		99287		23507	75780	33.3	23.6	28,765-	28.9-
16611	PERSONAL SERVICES		297156		72571	224585	33.3	24.4	79,442-	26.7-
	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	CLEANING/JANITORIAL SP	5100								
	MEDICAL SUPPLIES	5120	500			500	33.3		500-	100.0-
29974	CHEMICALS	5130	160000		65642	94359	33.3	41.0	36,926	23.0
595	GAS AND OIL	5250	10000		2425	7575	33.3	24.2	2,724-	27.2-
	LUBRICANTS	5255	3000		4200	1200-	33.3	140.0	9,600	320.0
	DIESEL FUEL	5257	5000		887	4113	33.3	17.7	2,338-	46.7-
	OTHER FUEL	5260								
	WEARING APPAREL	5355	500			500	33.3		500-	100.0-
	CONCRETE, CEMENT, ETC.	5405								
	SAND,CLAY,GRVL,FILL DI	5415								
	HAND TOOLS	5450	1000		122	878	33.3	12.2	634-	63.4-
	MINOR EQUIPMENT	5460	5000		370	4630	33.3	7.4	3,890-	77.8-
	METER PARTS	5485								
	VALVE PARTS	5490								
1170	PUMPING EQUIPMENT PART	5495	150000	6,733	16514	126753	33.3	11.0	100,458-	66.9-
273	OTHER OPERATING MATL/S	5590	4225		498	3727	33.3	11.7	2,731-	64.6-
32011	OPERATING SUPPLIES		339225	6,733	90657	241835	33.3	26.7	67,253-	19.8-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600	100			100	33.3		100-	100.0-
1772	ELECTRICAL SUPPLIES	5605	25000	220	3682	21098	33.3	14.7	13,954-	55.8-
	PLUMBING SUPPLIES	5610	3000			3000	33.3		3,000-	100.0-
	STRUCTURAL STEEL & IRO	5620								
	PAINT AND PAINTING SPL	5650								

1309	MTR VEHICLE REP. PTS/S	5700	5398	398	2108	2892	33.3	39.0	926	17.1
	COMMUNICATION REPAIR P	5750								
	EXPENDABLE WELDING SPL	5770								
	OTHER REPAIR/MAINT. SP	5990								
	DISASTER REPAIR SUPPLI	5995								
3081	REPAIR & MAINTENANCE		33498	618	5790	27090	33.3	17.2	16,128-	48.1-
35092	SUPPLIES AND EXPENSES		372723	7,351	96447	268925	33.3	25.8	83,381-	22.3-
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
41439	LEGAL	6025	122000		114931	7069	33.3	94.2	222,793	182.6
	MEDICAL	6027								
1402	OTHER PROFESSIONAL SER	6049	78000		17952	60048	33.3	23.0	24,144-	30.9-
42841	PROFESSIONAL SERVICE		200000		132883	67117	33.3	66.4	198,649	99.3
	TRANSPORTATION									
	TRAVEL EXPENSE	6110	2500		311	2189	33.3	12.4	1,566-	62.6-
	FREIGHT	6120	300			300	33.3		300-	100.0-
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION		2800		311	2489	33.3	11.1	1,866-	66.6-
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
61191	ELECTRICITY	6305	818120		219885	598235	33.3	26.8	158,464-	19.3-
	INTERFUND ENERGY REIMB	6307								
61191	UTILITIES		818120		219885	598235	33.3	26.8	158,464-	19.3-
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	DISASTER REPAIRS	6351		798		798-				
353	ELECTRICAL R&M	6355	25000	1,572	6216	17212	33.3	24.8	6,352-	25.4-
157404	FIXED EQUIPMENT R&M	6380	730825	10,474	401152	319199	33.3	54.8	472,631	64.6
	MINOR EQUIPMENT R&M	6382								
1068	MOTOR VEHICLE EQ. R&M	6384	3000		1538	1462	33.3	51.2	1,614	53.8
	CONSTRUCTION EQUIP R&M	6386	500			500	33.3		500-	100.0-
	COMMUNICATION EQ. R&M	6390								
80	DISINFECT./EXTERMINATI	6394	600		200	400	33.3	33.3		
	TOW IN CHARGES	6398	300		65	235	33.3	21.6	104-	34.6-
	OTHER REPAIRS AND MAIN	6399	1000			1000	33.3		1,000-	100.0-
158904	REPR/MAINT-OUTSIDE L		761225	12,844	409171	339210	33.3	53.7	466,288	61.2
	RENTALS									

	MACHINERY RENT	6420								
118	UNIFORM RENT	6430	2500		491	2009	33.3	19.6	1,026-	41.0-
118	RENTALS		2500		491	2009	33.3	19.6	1,026-	41.0-
	OTHER SERVICES & CHARGE									
	SETTLEMT OF DAMAGE CLA	6700								
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	SERVICES NOT SPECIFIED	6999	20000			20000	33.3		20,000-	100.0-
	OTHER SERVICES & CHA		20000			20000	33.3		20,000-	100.0-
263054	OTHER SERVICES & CHAR		1804645	12,844	762740	1029061	33.3	42.2	483,575	26.7
	IMPROVEMENT OTHER THAN SEWERS									
	STREETS & ROADWAYS	7230								
	OTHER IMPROVEMENTS									
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
3700	DATA PROCESSING EQUIP.	7327	12000	3,700	3700	4600	33.3	30.8	900-	7.5-
	AGRICULTURAL EQUIPMENT	7335								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
3700	MACHINERY AND EQUIPM		12000	3,700	3700	4600	33.3	30.8	900-	7.5-
	VEHICLES									
	AUTOMOBILES	7400								
	SPECIAL TRUCKS	7450								
	VEHICLES									
3700	CAPITAL OUTLAY		12000	3,700	3700	4600	33.3	30.8	900-	7.5-
	CAPITAL LEASE PAYMENTS									
	ENERGY IMPR LEASE	8517								
	CAPITAL LEASE PAYMEN									
	INTEREST ON CAPITAL LEA									
	ENERGY IMPR LEASE	8617								
	INTEREST ON CAPITAL									
	DEBT SERVICE									
318457	EXPENDITURES		2486524	23,895	935459	1527171	33.3	37.6	319,853	12.8

010451 - W&S B&I-REVENUE OBLIGATIONS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	CONSULTANT SERV/SURVEY	6020								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
	BONDS REDEEMED									
535000	GENERAL ISSUES	8000	2070000		535000	1535000	33.3	25.8	465,000-	22.4-
599131	REVENUE ISSUES	8010	2735000		599131	2135869	33.3	21.9	937,606-	34.2-
	5 YEAR NOTE PRINCIPAL	8021								
1134131	BONDS REDEEMED		4805000		1134131	3670869	33.3	23.6	1,402,606-	29.1-
	INTEREST ON BONDS									
105192	GENERAL ISSUES	8100	297800		105192	192608	33.3	35.3	17,776	5.9
50000	REVENUE ISSUES	8110	2298000		50000	2248000	33.3	2.1	2,148,000-	93.4-
	5 YEAR NOTE INTEREST	8121								
155192	INTEREST ON BONDS		2595800		155192	2440608	33.3	5.9	2,130,224-	82.0-
	PAYING AGENT FEES									
	GENERAL ISSUES	8400	8000		1784	6216	33.3	22.3	2,648-	33.1-
	REVENUE ISSUES	8410	5000			5000	33.3		5,000-	100.0-
	PAYING AGENT FEES		13000		1784	11216	33.3	13.7	7,648-	58.8-
1289323	DEBT SERVICE		7413800		1291107	6122693	33.3	17.4	3,540,478-	47.7-
1289323	EXPENDITURES		7413800		1291107	6122693	33.3	17.4	3,540,478-	47.7-

010500 - W&S B&I-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T W & S RFDG.BONDS	9000 65								
	T/T W & S CONSTRUCTION	9000 75								
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	TRANSFERS TO OTHER F									
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	TRANSFERS									
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	EXPENDITURES									

011451 - WATER & SEWER-REV.OBLIGATN

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	NOTE PRINCIPAL									
21267	SRF NOTE	8222	173772		84592	89180	33.3	48.6	80,004	46.0
21267	NOTE PRINCIPAL		173772		84592	89180	33.3	48.6	80,004	46.0
	INTEREST ON NOTES									
867	SRF NOTE	8332	8763		3942	4821	33.3	44.9	3,063	34.9
867	INTEREST ON NOTES		8763		3942	4821	33.3	44.9	3,063	34.9
	PAYING AGENT FEES									
2800	REVENUE ISSUES	8410	8500		5350	3150	33.3	62.9	7,550	88.8
2800	PAYING AGENT FEES		8500		5350	3150	33.3	62.9	7,550	88.8
	CAPITAL LEASE PAYMENTS									
	2012 EQUIP LEASE	8514								
	CAPITAL LEASE PAYMEN									
	INTEREST ON CAPITAL LEA									
	2012 EQUIP LEASE	8614								
	INTEREST ON CAPITAL									
24934	DEBT SERVICE		191035		93884	97151	33.3	49.1	90,617	47.4
24934	EXPENDITURES		191035		93884	97151	33.3	49.1	90,617	47.4

011500 - WATER & SEWER-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T GENERAL FUND	9000 01	250000			250000	33.3		250,000-	100.0-
779167	T/T WATER & SEWER O&M	9000 09	9350000		3116667	6233333	33.3	33.3	1	
	T/T WATER & SEWER B&I	9000 10								
	T/T WATER & SEWER B&I	9000 10A	250000		250000		33.3	100.0	500,000	200.0
72083	T/T WATER & SEWER B&I	9000 10B	865000		288333	576667	33.3	33.3		
104583	T/T WATER & SEWER B&I	9000 10C	1255000		418333	836667	33.3	33.3		
244250	T/T WATER & SEWER B&I	9000 10D	2931000		977000	1954000	33.3	33.3		
20000	T/T 2010 W&S GO BOND	9000 10GO	240000		80000	160000	33.3	33.3		
53333	T/T W&SB&I (METER GO)	9000 10M	640000		213333	426667	33.3	33.3		
125000	T/T 2016 W&S REF BONDS	9000 10REF	1250000		250000	1000000	33.3	20.0	500,000-	40.0-
	T/T W&SB&I-USA YEAST P	9000 15								
	T/T WATER & SEWER CONT	9000 17								
452003	T/T W & S CONSTRUCTION	9000 75	2000000		2408078	408078-	33.3	120.4	5,224,234	261.2
	T/T 2010 W&S GO BOND	9000 99								
1850419	TRANSFERS TO OTHER F		19031000		8001745	11029255	33.3	42.0	4,974,235	26.1
1850419	TRANSFERS		19031000		8001745	11029255	33.3	42.0	4,974,235	26.1
1850419	EXPENDITURES		19031000		8001745	11029255	33.3	42.0	4,974,235	26.1

011660 - WATER & SEWER-CUST.ACCT.DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	RENTALS									
108	OFFICE EQUIPMENT RENT	6410	2000		323	1677	33.3	16.1	1,030-	51.5-
108	RENTALS		2000		323	1677	33.3	16.1	1,030-	51.5-
	OTHER SERVICES & CHARGE									
	DEPR. EXPENSE - METERS	6800								
	CASH OVERAGE/SHORTAGE	6819								
224	BANK SERV/TRF FEE	6832	2400		824	1576	33.3	34.3	72	3.0
573	REFUNDS		15000		2105	12895	33.3	14.0	8,684-	57.8-
	NSF CHECKS	6836								
	BAD DEBT EXPENSE	6837								
105	BANK NSF FEES	6838	2000		322	1678	33.3	16.1	1,034-	51.7-
	OTHER INCOME EXPENSE	6839			4000-	4000			12,000	
902	OTHER SERVICES & CHA		19400		748-	20148	33.3	3.8	17,156-	88.4-
1010	OTHER SERVICES & CHAR		21400		425-	21825	33.3	1.9	20,124-	94.0-
1010	EXPENDITURES		21400		425-	21825	33.3	1.9	20,124-	94.0-

012452 - 1999 TAX INCRE B&I-GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020								
	BONDS REDEEMED									
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120								
	INTEREST ON BONDS									
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420								
	PAYING AGENT FEES									
	DEBT SERVICE									
	EXPENDITURES									

013450 - CITY B&I-GENERAL OBLIGATIONS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	CONSULTANT SERV/SURVEY	6020							
	LEGAL FEES	6025							
	OTHER SERVICES	6049							
	INTERGOV'TL-DEBT SERV								
	P&I-FORREST CTY(KOHLER	6455							
	INTERGOV'TL-DEBT SER								
	OTHER SERVICES & CHARGE								
1030	PROP.TAX COLL. FEES .0	6830			3930	3930-		11,790	
3387	PROP.TAX COLL. FEES.00	6831			3800	3800-		11,400	
	BANK SERV/TRF FEE	6832							
4416	OTHER SERVICES & CHA				7730	7730-		23,190	
4416	OTHER SERVICES & CHAR				7730	7730-		23,190	
	BONDS REDEEMED								
	GENERAL ISSUES	8000			860000	860000-		2,580,000	
	IND/ECON DEV ISSUES	8020							
	5 YEAR NOTE PRINCIPAL	8021							
	BONDS REDEEMED				860000	860000-		2,580,000	
	INTEREST ON BONDS								
	GENERAL ISSUES	8100			119850	119850-		359,550	
	IND/ECON DEV ISSUES	8120							
	5 YEAR NOTE INTEREST	8121							
	INTEREST ON BONDS				119850	119850-		359,550	
	PAYING AGENT FEES								
2490	GENERAL ISSUES	8400			6341	6341-		19,023	
	IND/ECON DEV ISSUES	8420							
2490	PAYING AGENT FEES				6341	6341-		19,023	
2490	DEBT SERVICE				986191	986191-		2,958,573	
6906	EXPENDITURES				993921	993921-		2,981,763	

014599 - SCHOOL FUND-MISC.CHARGES

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE								
6915	PROP.TAX COLL. FEES .0	6830			25378	25378-		76,134	
16727	PROP.TAX COLL. FEES.00	6831			18898	18898-		56,694	
23641	OTHER SERVICES & CHA				44276	44276-		132,828	
23641	OTHER SERVICES & CHAR				44276	44276-		132,828	
23641	EXPENDITURES				44276	44276-		132,828	

015451 - W&S B&I USA YEAST-REV OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	BONDS REDEEMED								
	REVENUE ISSUES	8010							
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	BONDS REDEEMED								
	INTEREST ON BONDS								
	REVENUE ISSUES	8110							
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	INTEREST ON BONDS								
	PAYING AGENT FEES								
	REVENUE ISSUES	8410							
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	PAYING AGENT FEES								
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	DEBT SERVICE								
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	EXPENDITURES								

015500 - W&S B&I USA YEAST-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T WATER & SEWER B&I	9000 10								
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	TRANSFERS TO OTHER F									
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	TRANSFERS									
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	EXPENDITURES									

018701 - P&FD&R-TRUST AND AGENCY

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES								
	AUDITING AND ACCOUNTIN	6010							
590	OTHER PROFESSIONAL SER	6049			3789	3789-		11,367	
590	PROFESSIONAL SERVICE				3789	3789-		11,367	
	OTHER SERVICES & CHANGE								
211758	PENSION EXPENSE	6825			843375	843375-		2,530,125	
436	PROP.TAX COLL. FEES .0	6830			1665	1665-		4,995	
1435	PROP.TAX COLL. FEES.00	6831			1610	1610-		4,830	
	REFUNDS								
213629	OTHER SERVICES & CHA				846650	846650-		2,539,950	
214219	OTHER SERVICES & CHAR				850438	850438-		2,551,314	
214219	EXPENDITURES				850438	850438-		2,551,314	

019100 - POL.FORFEITURES-POLICE DIV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OFFICE SUPPLIES									
	OTHER EXPENDABLE OFF.S	5010								
	OFFICE SUPPLIES									
	OPERATING SUPPLIES									
	FOOD	5115								
	GAS AND OIL	5250								
	UNIFORMS, BADGES, ETC.	5350								
	WEARING APPAREL	5355								
	WEARING APPAREL-HURR R	5356								
	MINOR EQUIPMENT	5460								
	DISPATCHER TRNG.MATERI	5468								
	MINOR EQ-HURR.RELIEF	5471								
	OTHER OPER.MATLS-K-9 S	5590								
	OTHER OPER.MATLS-CRIME	5591	12000		1509	10491	33.3	12.5	7,472-	62.2-
2153	OTHER OPER.MATLS-D.A.R	5592	29441	550	6433	22458	33.3	21.8	10,141-	34.4-
	OTHER OPER-NON-SWORN C	5595								
	PAINT AND PAINTING SPL	5650								
	COMMUNICATION REPAIR P	5750								
	MINOR COMPUTER EQUIP.	5800								
2153	OPERATING SUPPLIES		41441	550	7943	32948	33.3	19.1	17,611-	42.4-
2153	SUPPLIES AND EXPENSES		41441	550	7943	32948	33.3	19.1	17,611-	42.4-
	PROFESSIONAL SERVICES									
	METRO CRIME STOPPERS	6039	20000			20000	33.3		20,000-	100.0-
	FEES - NON-SWORN CLASS	6044								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE		20000			20000	33.3		20,000-	100.0-
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	TRAVEL EXP-M/C TRAININ	6112	3600			3600	33.3		3,600-	100.0-
	TRAVEL EXP-K-9 TRAININ	6113								
	TRAVEL EXP-TELECOMMUNI	6114								
	TRAVEL/REG-NON SWORN P	6117								
	FREIGHT	6120								
	TRANSPORTATION		3600			3600	33.3		3,600-	100.0-

	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	OTHER SERVICES & CHARGE									
	EVIDENCE BUY MONEY									
	DUES AND MEMBERSHIPS	6840	3000		2500	500	33.3	83.3	4,500	150.0
	REGISTRATION FEE/TUITI	6845								
	OTHER SERVICES & CHA		3000		2500	500	33.3	83.3	4,500	150.0
	OTHER SERVICES & CHAR		26600		2500	24100	33.3	9.3	19,100-	71.8-
	LAND									
	LAND	7000								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	COMMUNICATION EQUIPMEN	7355								
	EQUIP-HURR.RELIEF	7376								
12000	OTHER EQUIPMENT	7399	58917		12000	46917	33.3	20.3	22,917-	38.8-
12000	MACHINERY AND EQUIPM		58917		12000	46917	33.3	20.3	22,917-	38.8-
	VEHICLES									
	AUTOMOBILES	7400	50000			50000	33.3		50,000-	100.0-
	MOTORCYCLES	7405								
	VEHICLES		50000			50000	33.3		50,000-	100.0-
	OTHER									
	ZOOLOGICAL ANIMALS	7505								
	OTHER									
12000	CAPITAL OUTLAY		108917		12000	96917	33.3	11.0	72,917-	66.9-
14153	EXPENDITURES		176958	550	22443	153965	33.3	12.6	109,628-	61.9-

020452 - 2002 TIF B&I-S/P GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	135000			135000	33.3		135,000-	100.0-
	BONDS REDEEMED		135000			135000	33.3		135,000-	100.0-
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	110702			110702	33.3		110,702-	100.0-
	INTEREST ON BONDS		110702			110702	33.3		110,702-	100.0-
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420	2000			2000	33.3		2,000-	100.0-
	PAYING AGENT FEES		2000			2000	33.3		2,000-	100.0-
	DEBT SERVICE		247702			247702	33.3		247,702-	100.0-
	EXPENDITURES		247702			247702	33.3		247,702-	100.0-

021452 - 2004 TIF B&I-H/D GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020								
	BONDS REDEEMED									
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120								
	INTEREST ON BONDS									
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420								
	PAYING AGENT FEES									
	DEBT SERVICE									
	EXPENDITURES									

022452 - 2003 TIF B&I-C/S GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	115000			115000	33.3		115,000-	100.0-
	BONDS REDEEMED		115000			115000	33.3		115,000-	100.0-
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	77318			77318	33.3		77,318-	100.0-
	INTEREST ON BONDS		77318			77318	33.3		77,318-	100.0-
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420	2000			2000	33.3		2,000-	100.0-
	PAYING AGENT FEES		2000			2000	33.3		2,000-	100.0-
	DEBT SERVICE		194318			194318	33.3		194,318-	100.0-
	EXPENDITURES		194318			194318	33.3		194,318-	100.0-

022500 - '03 TIF B&I-C/S-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T GENERAL FUND	9000 01								
---			---	---	---	---	---	---	---	---
	TRANSFERS TO OTHER F									
---			---	---	---	---	---	---	---	---
	TRANSFERS									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

023452 - 2007 TIF B&I-T/C GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	355000			355000	33.3		355,000-	100.0-
	BONDS REDEEMED		355000			355000	33.3		355,000-	100.0-
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	92283			92283	33.3		92,283-	100.0-
	INTEREST ON BONDS		92283			92283	33.3		92,283-	100.0-
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420	3500			3500	33.3		3,500-	100.0-
	PAYING AGENT FEES		3500			3500	33.3		3,500-	100.0-
	DEBT SERVICE		450783			450783	33.3		450,783-	100.0-
	EXPENDITURES		450783			450783	33.3		450,783-	100.0-

024452 - 2008 TIF B&I-L/C GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	40000			40000	33.3		40,000-	100.0-
	BONDS REDEEMED		40000			40000	33.3		40,000-	100.0-
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	13200			13200	33.3		13,200-	100.0-
	INTEREST ON BONDS		13200			13200	33.3		13,200-	100.0-
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420	1000			1000	33.3		1,000-	100.0-
	PAYING AGENT FEES		1000			1000	33.3		1,000-	100.0-
	DEBT SERVICE		54200			54200	33.3		54,200-	100.0-
	EXPENDITURES		54200			54200	33.3		54,200-	100.0-

025452 - 2011 TIF B&I-KOHLS GEN OBLIGA

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	70000			70000	33.3		70,000-	100.0-
	BONDS REDEEMED		70000			70000	33.3		70,000-	100.0-
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	19500		9750	9750	33.3	50.0	9,750	50.0
	INTEREST ON BONDS		19500		9750	9750	33.3	50.0	9,750	50.0
	PAYING AGENT FEES									
1940	IND/ECON DEV ISSUES	8420	2000		1940	60	33.3	97.0	3,820	191.0
1940	PAYING AGENT FEES		2000		1940	60	33.3	97.0	3,820	191.0
1940	DEBT SERVICE		91500		11690	79810	33.3	12.7	56,430-	61.6-
1940	EXPENDITURES		91500		11690	79810	33.3	12.7	56,430-	61.6-

026452 - 2016 TIF B&I-WHISP PINES EXPEN

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE								
	PROP.TAX COLL. FEES .0	6830							
	PROP.TAX COLL. FEES.00	6831							
	BANK SERV/TRF FEE	6832							
	OTHER SERVICES & CHA								
	OTHER SERVICES & CHAR								
	BONDS REDEEMED								
	IND/ECON DEV ISSUES	8020							
	BONDS REDEEMED								
	INTEREST ON BONDS								
	IND/ECON DEV ISSUES	8120							
	INTEREST ON BONDS								
	PAYING AGENT FEES								
1240	IND/ECON DEV ISSUES	8420			1240	1240-		3,720	
1240	PAYING AGENT FEES				1240	1240-		3,720	
1240	DEBT SERVICE				1240	1240-		3,720	
1240	EXPENDITURES				1240	1240-		3,720	

027500 - TAX COLLECTOR'S-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND								
2747594	T/T GENERAL FUND	9000 01			3208119	3208119-		9,624,357	
	T/T GENERAL FD-C.C. FE	9000 01CC							
	T/T GENERAL FD-EXCESS	9000 01EB							
	T/T GENERAL FD-CHKG IN	9000 01ICHK							
7001	T/T GENERAL FD-INT/PEN	9000 01IP			53443	53443-		160,329	
159434	T/T PARKS & RECERATION	9000 02			192495	192495-		577,485	
155488	T/T LIBRARY	9000 04			187729	187729-		563,187	
	T/T 1999 TAX INCRE B&I	9000 12							
558019	T/T CITY B & I	9000 13			673729	673729-		2,021,187	
2883454	T/T SCHOOL FUND	9000 14			3493405	3493405-		10,480,215	
375119	T/T SCHOOL-1988 SCH.BO	9000 14SB			454960	454960-		1,364,880	
236389	T/T POL/FIRE DIS./RELI	9000 18			285754	285754-		857,262	
	T/T 2002 TIF B&I-SP	9000 20							
	T/T 2004 TIF B&I-HD	9000 21							
	T/T 2003 TIF B&I-CS	9000 22							
	T/T 2007 TIF B&I-TC	9000 23							
	T/T 2008 TIF B&I-LC	9000 24							
50000	T/T 2011 TIF B&I-TC KO	9000 25			50000	50000-		150,000	
	T/T '16 TIF B&I-WHISPE	9000 26							
	T/T 2016 TIF B&I-HBURG	9000 28			75000	75000-		225,000	
	T/T 2015A TIF B&I-RIDG	9000 50			94000	94000-		282,000	
	T/T 2015B TIF B&I-MIDT	9000 51			20000	20000-		60,000	
39464	T/T MASS TRANSIT OPER.	9000 73			47648	47648-		142,944	
	T/T 2008 TIF CONSTR-LC	9000 90							
7211961	TRANSFERS TO OTHER F				8836282	8836282-		26,508,846	
7211961	TRANSFERS				8836282	8836282-		26,508,846	
7211961	EXPENDITURES				8836282	8836282-		26,508,846	

028452 - 2016 TIF B&I-HBRG CLINIC MIDTN

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020			42000	42000-			126,000	
	BONDS REDEEMED				42000	42000-			126,000	
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120			28385	28385-			85,155	
	INTEREST ON BONDS				28385	28385-			85,155	
	PAYING AGENT FEES									
	IND/ECON DEV ISSUES	8420								
	PAYING AGENT FEES									
	DEBT SERVICE				70385	70385-			211,155	
	EXPENDITURES				70385	70385-			211,155	

039551 - AIRPORT IMPR.-AIRPORT DIV

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES								
	REGULAR WAGES	4000							
	OVERTIME	4300							
	SALARIES								
	EMPLOYEE BENEFITS								
	STATE RETIREMENT	4600							
	F.I.C.A. TAXES	4700							
	HOSPITALIZATION INS.	4800							
	EMPLOYEE BENEFITS								
	PERSONAL SERVICES								
	OPERATING SUPPLIES								
	GAS AND OIL	5250							
	MINOR EQUIPMENT	5460							
	OTHER OPERATING MATL/S	5590							
	OPERATING SUPPLIES								
	REPAIR & MAINTENANCE SP								
	PLUMBING SUPPLIES	5610							
	PAINT AND PAINTING SPL	5650							
	OTHER REPAIR/MAINT. SP	5990							
	REPAIR & MAINTENANCE								
	SUPPLIES AND EXPENSES								
	PROFESSIONAL SERVICES								
	ENGINEERING	6015							
	LEGAL	6025							
	PROFESSIONAL SERVICE								
	REPR/MAINT-OUTSIDE LABO								
	BUILDING R&M	6350							
	STREETS & STRUCTURES R	6360							
	DISINFECT./EXTERMINATI	6394							
	OTHER REPAIRS AND MAIN	6399							
	AUTOMOTIVE EQ. RENT	6415							
	OTHER RENT	6449							
	REPR/MAINT-OUTSIDE L								

	OTHER SERVICES & CHAR									
	IMPROVEMENT OTHER THAN									
	STREETS & ROADWAYS	7230								
	STREET LIGHTING	7235								
	LIGHTING SYSTEM	7236								
375	OTHER IMPROVEMENTS		1380000		6701	1373299	33.3	.4	1,359,896-	98.5-
375	IMPROVEMENT OTHER TH		1380000		6701	1373299	33.3	.4	1,359,896-	98.5-
	MACHINERY AND EQUIPMENT									
	DATA PROCESSING EQUIP.	7327								
	AGRICULTURAL EQUIPMENT	7335								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
375	CAPITAL OUTLAY		1380000		6701	1373299	33.3	.4	1,359,896-	98.5-
375	EXPENDITURES		1380000		6701	1373299	33.3	.4	1,359,896-	98.5-

050452 - 2015A TIF B&I-RIDGE/TURTLE CRK

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	PROP.TAX COLL. FEES .0	6830								
	PROP.TAX COLL. FEES.00	6831								
	BANK SERV/TRF FEE	6832								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020	70000		60000	10000	33.3	85.7	110,000	157.1
	BONDS REDEEMED		70000		60000	10000	33.3	85.7	110,000	157.1
	INTEREST ON BONDS									
	IND/ECON DEV ISSUES	8120	77000		33688	43313	33.3	43.7	24,064	31.2
	INTEREST ON BONDS		77000		33688	43313	33.3	43.7	24,064	31.2
	PAYING AGENT FEES									
1940	IND/ECON DEV ISSUES	8420	2000		1940	60	33.3	97.0	3,820	191.0
1940	PAYING AGENT FEES		2000		1940	60	33.3	97.0	3,820	191.0
1940	DEBT SERVICE		149000		95628	53373	33.3	64.1	137,884	92.5
1940	EXPENDITURES		149000		95628	53373	33.3	64.1	137,884	92.5

050602 - 2015 TIF B&I-RIDGE/MIDTOWN MAR

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES								
	CONSULTANT SERV/SURVEY	6020							
	LEGAL	6025							
	OTHER PROFESSIONAL SER	6049							
	PROFESSIONAL SERVICE								
	INSURANCE								
	OTHER INSURANCE	6299							
	INSURANCE								
	OTHER SERVICES & CHAR								
	BONDS REDEEMED								
	GENERAL ISSUES	8000							
	BONDS REDEEMED								
	INTEREST ON BONDS								
	GENERAL ISSUES	8100							
	INTEREST ON BONDS								
	PAYING AGENT FEES								
	GENERAL ISSUES	8400							
	PAYING AGENT FEES								
	DEBT SERVICE								
	EXPENDITURES								

051452 - 2015B TIF B&I-MIDTOWN MARKET

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE								
	PROP.TAX COLL. FEES .0	6830							
	PROP.TAX COLL. FEES.00	6831							
	BANK SERV/TRF FEE	6832							
	OTHER SERVICES & CHA								
	OTHER SERVICES & CHAR								
	BONDS REDEEMED								
	IND/ECON DEV ISSUES	8020			10000	10000-		30,000	
	BONDS REDEEMED				10000	10000-		30,000	
	INTEREST ON BONDS								
	IND/ECON DEV ISSUES	8120			5775	5775-		17,325	
	INTEREST ON BONDS				5775	5775-		17,325	
	PAYING AGENT FEES								
1940	IND/ECON DEV ISSUES	8420			1940	1940-		5,820	
1940	PAYING AGENT FEES				1940	1940-		5,820	
1940	DEBT SERVICE				17715	17715-		53,145	
1940	EXPENDITURES				17715	17715-		53,145	

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	CHEMICALS	5130								
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	BRICK,STONE,MORTAR,ETC	5410								
	SAND,CLAY,GRVL,FILL DI	5415								
	DRAINAGE PIPE & CULVER	5420								
	MINOR EQUIPMENT	5460								
	STREET MARKING SUPPLIE	5550								
	OPERATING SUPPLIES									
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	PLUMBING SUPPLIES	5610								
	STRUCTURAL STEEL & IRO	5620								
	REPAIR & MAINTENANCE									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
17303	ENGINEERING	6015	275000		118253	156747	33.3	43.0	79,759	29.0
	APPRAISAL	6017								
	LEGAL	6025			400-	400			1,200	
	OTHER PROFESSIONAL SER	6049								
17303	PROFESSIONAL SERVICE		275000		117853	157147	33.3	42.8	78,559	28.5
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	TRANSPORTATION									
	REPR/MAINT-OUTSIDE LABO									
101542	STREETS & STRUCTURES R	6360	1480406	555,858	354944	569604	33.3	23.9	415,574-	28.0-
	MINOR EQUIPMENT R&M	6382								
101542	REPR/MAINT-OUTSIDE L		1480406	555,858	354944	569604	33.3	23.9	415,574-	28.0-
	RENTALS									
	MACHINERY RENT	6420								
	RENTALS									
	OTHER SERVICES & CHARGE									
	BANK SERV/TRF FEE	6832								
	8/29 TIPPING FEES									

	OTHER SERVICES & CHA										
118846	OTHER SERVICES & CHAR		1755406	555,858	472797	726751	33.3	26.9	337,014-	19.1-
	LAND										
	LAND	7000	50000			50000	33.3		50,000-	100.0-
	EASEMENTS	7010									
	LAND		50000			50000	33.3		50,000-	100.0-
	IMPROVEMENT OTHER THAN										
2477	BRIDGES		330000		4334	325666	33.3	1.3	316,998-	96.0-
	DRAINS						33.3	1.3		96.0-
	SIDEWALKS		1912361	208,000	5228	1891133	33.3	.2	1,896,677-	99.1-
	STREETS & ROADWAYS		2376256	7,488,000	63770	2312486	33.3	2.6	2,184,946-	91.9-
	OTHER IMPROVEMENTS		3903	52,416,000	3903		33.3	100.0	7,806	200.0
2477	IMPROVEMENT OTHER TH		4622520	60,112,000	77235	4529285	33.3	1.6	4,390,814-	94.9-
	MACHINERY AND EQUIPMENT										
	AGRICULTURAL EQUIPMENT	7335									
	CONSTRUCTION EQUIPMENT	7345									
	MACHINERY AND EQUIPM										
	VEHICLES										
	AUTOMOBILES	7400									
	PICK UP TRUCKS	7420									
	DUMP TRUCKS	7440									
	SPECIAL TRUCKS	7450									
	VEHICLES										
2477	CAPITAL OUTLAY		4672520	60,112,000	77235	4579285	33.3	1.6	4,440,814-	95.0-
121323	EXPENDITURES		6427926	60,667,858	550033	5306036	33.3	8.5	4,777,826-	74.3-

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

072460 - MUN.R&B FUND-CAPITAL LEASES

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	CAPITAL LEASE PAYMENTS								
	TRACTOR LEASE '11	8512							
	BACKHOE LEASE '11	8514							
---			---	---	---	---	--- ---	---	---
	CAPITAL LEASE PAYMEN								
	INTEREST ON CAPITAL LEA								
	TRACTOR LEASE '11	8612							
	BACKHOE LEASE '11	8614							
---			---	---	---	---	--- ---	---	---
	INTEREST ON CAPITAL								
---			---	---	---	---	--- ---	---	---
	DEBT SERVICE								
---			---	---	---	---	--- ---	---	---
	EXPENDITURES								

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

072500 - MUN.ROAD&BRIDGE-TRANSFERS

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL		....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T GENERAL FUND	9000 01								
	T/T SPECIAL STREET	9000 08								
	T/T COMMUNITY DEVELOPM	9000 82								
---	TRANSFERS TO OTHER F		---	---	---	---	---	---	---	---
---	TRANSFERS		---	---	---	---	---	---	---	---
---	EXPENDITURES		---	---	---	---	---	---	---	---

073570 - MASS TRANSIT-TRANSPORTATION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
34171	REGULAR WAGES	4000	521791		134707	387084	33.3	25.8	117,669-	22.5-
	DISASTER RECOVERY WAGE	4010								
2706	OVERTIME	4300	55000		15879	39121	33.3	28.8	7,362-	13.3-
	DISASTER RECOVERY OVER	4310								
36877	SALARIES		576791		150586	426205	33.3	26.1	125,033-	21.6-
	EMPLOYEE BENEFITS									
5808	STATE RETIREMENT	4600	88482		23717	64765	33.3	26.8	17,330-	19.5-
2672	F.I.C.A. TAXES	4700	42978		10916	32062	33.3	25.3	10,230-	23.8-
8000	HOSPITALIZATION INS.	4800	118800		40150	78650	33.3	33.7	1,650	1.3
3055	UNEMPLOYMENT BENEFITS	4900	4700		4700		33.3	100.0	9,400	200.0
	WORKMAN'S COMPENSATION	4910	13316			13316	33.3		13,316-	100.0-
19535	EMPLOYEE BENEFITS		268276		79483	188793	33.3	29.6	29,826-	11.1-
56412	PERSONAL SERVICES		845067		230069	614998	33.3	27.2	154,859-	18.3-
	OFFICE SUPPLIES									
	PAPER	5003	300			300	33.3		300-	100.0-
	PRINTED FORMS	5005								
1110	OTHER EXPENDABLE OFF.S	5010	2000	75	1216	709	33.3	60.8	1,648	82.4
389	MINOR OFFICE EQUIP/FUR	5020	2500		389	2111	33.3	15.5	1,332-	53.2-
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080	1500			1500	33.3		1,500-	100.0-
1499	OFFICE SUPPLIES		6300	75	1605	4620	33.3	25.4	1,484-	23.5-
	OPERATING SUPPLIES									
285	CLEANING/JANITORIAL SP	5100	1300		285	1015	33.3	21.9	444-	34.1-
	FOOD	5115	1000			1000	33.3		1,000-	100.0-
	MEDICAL SUPPLIES	5120								
	CHEMICALS	5130	600			600	33.3		600-	100.0-
232	GAS AND OIL	5250	10000		1631	8369	33.3	16.3	5,106-	51.0-
	LUBRICANTS	5255	500		190	310	33.3	38.0	70	14.0
5060	DIESEL FUEL	5257	120000		21663	98337	33.3	18.0	55,010-	45.8-
	OTHER FUEL	5260								
	WEARING APPAREL	5355	1800			1800	33.3		1,800-	100.0-
	CONCRETE, CEMENT, ETC.	5405	3700			3700	33.3		3,700-	100.0-
	SAND,CLAY,GRVL,FILL DI	5415								
	HAND TOOLS	5450	500		134	366	33.3	26.8	98-	19.6-
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590	3700		147	3553	33.3	3.9	3,258-	88.0-

5576	OPERATING SUPPLIES		143100		24049	119051	33.3	16.8	70,952-	49.5-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
360	ELECTRICAL SUPPLIES	5605	500		360	140	33.3	72.0	580	116.0
	PLUMBING SUPPLIES	5610	500			500	33.3		500-	100.0-
	PAINT AND PAINTING SPL	5650	500			500	33.3		500-	100.0-
240	MTR VEHICLE REP. PTS/S	5700	1600	262	240	1098	33.3	15.0	880-	55.0-
	REPAIR PARTS - BUSES	5710								
4366	REPAIR PARTS - FIXED R	5710 01	50000	2,448	23864	23688	33.3	47.7	21,592	43.1
	REPAIR PARTS - PARATRA	5710 02	10000		2222	7778	33.3	22.2	3,334-	33.3-
	COMMUNICATION REPAIR P	5750	1000			1000	33.3		1,000-	100.0-
	AGRICLTRL REPAIR PTS/S	5755								
643	OTHER REPAIR/MAINT. SP	5990	2000	153	1335	512	33.3	66.7	2,005	100.2
5609	REPAIR & MAINTENANCE		66100	2,863	28021	35215	33.3	42.3	17,963	27.1
12684	SUPPLIES AND EXPENSES		215500	2,938	53675	158887	33.3	24.9	54,474-	25.2-
	PROFESSIONAL SERVICES									
	AUDITING AND ACCOUNTIN	6010								
	CONSULTANT SERV/SURVEY	6020								
	BUILDING/BUS SECURITY	6021	30000		240	29760	33.3	.8	29,280-	97.6-
	MEDICAL	6027								
690	OTHER PROFESSIONAL SER	6049	20500		1725	18775	33.3	8.4	15,324-	74.7-
690	PROFESSIONAL SERVICE		50500		1965	48535	33.3	3.8	44,604-	88.3-
	COMMUNICATIONS									
3907	TELEPHONE AND TELEGRAP	6060	6500	75	4572	1853	33.3	70.3	7,216	111.0
	POSTAGE	6070	200			200	33.3		200-	100.0-
3907	COMMUNICATIONS		6700	75	4572	2053	33.3	68.2	7,016	104.7
	TRANSPORTATION									
1749	TRAVEL EXPENSE	6110	5000	672	3300	1028	33.3	66.0	4,900	98.0
	FREIGHT	6120	1300		204	1096	33.3	15.6	688-	52.9-
	MESSENGER/EXPRESS SERV	6130								
1749	TRANSPORTATION		6300	672	3504	2124	33.3	55.6	4,212	66.8
	ADVERTISING									
	ADVERTISING	6150	10000			10000	33.3		10,000-	100.0-
	ADVERTISING		10000			10000	33.3		10,000-	100.0-
	PRINTING AND BINDING									
395	PRINTING	6200	2500		395	2105	33.3	15.8	1,314-	52.5-
395	PRINTING AND BINDING		2500		395	2105	33.3	15.8	1,314-	52.5-
	INSURANCE									
	PUBLIC LIAB/PROPERTY D	6255	50000		47546	2454	33.3	95.0	92,638	185.2
	AUTOMOBILE INSURANCE	6265								
	SURETY AND FORGERY BON	6270								
	INSURANCE		50000		47546	2454	33.3	95.0	92,638	185.2
	UTILITIES									

1301	ELECTRICITY	6305	16000		3469	12531	33.3	21.6	5,592-	34.9-
1301	UTILITIES		16000		3469	12531	33.3	21.6	5,592-	34.9-
	REPR/MAINT-OUTSIDE LABO									
60	BUILDING R&M	6350	2500		60	2440	33.3	2.4	2,320-	92.8-
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357								
270	OFFICE EQUIPMENT R&M	6365	500		270	230	33.3	54.0	310	62.0
	FIXED EQUIPMENT R&M	6380								
	MINOR EQUIPMENT R&M	6382								
713	MOTOR VEHICLE EQ. R&M	6384	3000	70	1539	1391	33.3	51.3	1,617	53.9
1043	REPR/MAINT-OUTSIDE L		6000	70	1869	4061	33.3	31.1	392-	6.5-
	BUS EQUIPMENT R&M									
818	BUS EQUIP R&M-FIXED RO	6385 01	61189	14,031	14279	32880	33.3	23.3	18,351-	29.9-
1911	BUS EQUIP R&M-PARATRAN	6385 02	13065	3,065	3997	6003	33.3	30.5	1,073-	8.2-
	COMMUNICATION EQ. R&M	6390	5000			5000	33.3		5,000-	100.0-
48	DISINFECT./EXTERMINATI	6394	250		96	154	33.3	38.4	38	15.2
	SIGN PAINTING	6396	800			800	33.3		800-	100.0-
500	TOW IN CHARGES	6398	1250	500	500	250	33.3	40.0	250	20.0
	OTHER REPAIRS AND MAIN	6399								
3277	BUS EQUIPMENT R&M		81554	17,596	18872	45086	33.3	23.1	24,938-	30.5-
	RENTALS									
	CYLINDER RENT	6425								
213	UNIFORM RENT	6430	3000		897	2103	33.3	29.9	308-	10.2-
20	OTHER RENT	6449	500		87	413	33.3	17.4	238-	47.6-
233	RENTALS		3500		983	2517	33.3	28.0	550-	15.7-
	OTHER SERVICES & CHARGE									
73	PROP.TAX COLL. FEES .0	6830			278	278-			834	
240	PROP.TAX COLL. FEES.00	6831			269	269-			807	
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845								
	LAUNDRY	6850								
31682	JARC-OPERATIONS	6868	320000		31682	288318	33.3	9.9	224,954-	70.2-
	ARRA-OPERATIONS	6869								
	SERVICES NOT SPECIFIED	6999								
31994	OTHER SERVICES & CHA		320000		32229	287771	33.3	10.0	223,312-	69.7-
44589	OTHER SERVICES & CHAR		553054	18,413	115404	419238	33.3	20.8	206,842-	37.3-
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS		20000			20000	33.3		20,000-	100.0-
	BUILDING/BLD IMPROVE		20000			20000	33.3		20,000-	100.0-
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS									
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									

	OFFICE FURN/EQUIP.	7325	10000			10000	33.3		10,000-	100.0-
	DATA PROCESSING EQUIP.	7327								
	ARRA-DP EQUIP/SOFTWARE	7328								
	AGRICULTURAL EQUIPMENT	7335								
	COMMUNICATION EQUIPMEN	7355	25000			25000	33.3		25,000-	100.0-
	ARRA-COMMUNICATION EQU	7356								
	ARRA-GPS EQUIPMENT	7357								
	MAJOR EQUIP. IMPROVEME	7390								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM		35000			35000	33.3		35,000-	100.0-
	VEHICLES									
	AUTOMOBILES	7400								
	BUSES	7410	331318		321042	10276	33.3	96.8	631,808	190.6
	ARRA-TROLLEYS	7415								
	SPECIAL TRUCKS	7450								
	VEHICLES		331318		321042	10276	33.3	96.8	631,808	190.6
	CAPITAL OUTLAY		386318		321042	65276	33.3	83.1	576,808	149.3
113685	EXPENDITURES		1999939	21,351	720190	1258399	33.3	36.0	160,631	8.0

075695 - W&S CONSTR.-CAPITAL PROJECTS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
9143	ENGINEERING	6015	200000		181132	18868	33.3	90.5	343,396	171.6
	ENGINEERING-I&I STUDY	6015 01								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
9143	PROFESSIONAL SERVICE		200000		181132	18868	33.3	90.5	343,396	171.6
	REPR/MAINT-OUTSIDE LABO									
	STREETS & STRUCTURES R	6360								
	REPR/MAINT-OUTSIDE L									
	OTHER SERVICES & CHARGE									
	SETTLEMT OF DAMAGE CLA	6700								
	BANK SERV/TRF FEE	6832	100			100	33.3		100-	100.0-
	SERVICES NOT SPECIFIED	6999	200000		163500	36500	33.3	81.7	290,500	145.2
	OTHER SERVICES & CHA		200100		163500	36600	33.3	81.7	290,400	145.1
9143	OTHER SERVICES & CHAR		400100		344632	55468	33.3	86.1	633,796	158.4
	LAND									
	LAND	7000								
	EASEMENTS	7010								
	LAND									
	IMPROVEMENT OTHER THAN									
	FENCES/RAILINGS	7212								
191673	SEWERS		1000000		373519	626481	33.3	37.3	120,557	12.0
	STREETS & ROADWAYS						33.3	37.3		12.0
2109	WATER SYSTEMS		1000000		81518	918482	33.3	8.1	755,446-	75.5-
42903	OTHER IMPROVEMENTS		250000		85806	164194	33.3	34.3	7,418	2.9
236685	IMPROVEMENT OTHER TH		2250000		540844	1709156	33.3	24.0	627,468-	27.8-
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	PIPE	7370								
	OTHER EQUIPMENT	7399								

	MACHINERY AND EQUIPM								
236685	CAPITAL OUTLAY	2250000		540844	1709156	33.3	24.0	627,468-	27.8-
245828	EXPENDITURES	2650100		885477	1764623	33.3	33.4	6,331	.2

077650 - COMMUNITY CTR-ADMIN/GENERAL

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
25193	REGULAR WAGES	4000	348510		103516	244994	33.3	29.7	37,962-	10.8-
	DISASTER RECOVERY WAGE	4010								
268	OVERTIME	4300	13000		3006	9994	33.3	23.1	3,982-	30.6-
	DISASTER RECOVERY OVER	4310								
25460	SALARIES		361510		106521	254989	33.3	29.4	41,946-	11.6-
	EMPLOYEE BENEFITS									
4010	STATE RETIREMENT	4600	56938		16777	40161	33.3	29.4	6,606-	11.6-
1903	F.I.C.A. TAXES	4700	27656		7972	19684	33.3	28.8	3,740-	13.5-
6500	HOSPITALIZATION INS.	4800	92400		32600	59800	33.3	35.2	5,400	5.8
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	12675			12675	33.3		12,675-	100.0-
12413	EMPLOYEE BENEFITS		190169		57349	132820	33.3	30.1	18,121-	9.5-
37873	PERSONAL SERVICES		551679		163871	387808	33.3	29.7	60,065-	10.8-
	OFFICE SUPPLIES									
	PAPER	5003								
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	1000			1000	33.3		1,000-	100.0-
	MINOR OFFICE EQUIP/FUR	5020	1000			1000	33.3		1,000-	100.0-
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	OFFICE SUPPLIES		2000			2000	33.3		2,000-	100.0-
	OPERATING SUPPLIES									
366	CLEANING/JANITORIAL SP	5100	10000		2415	7585	33.3	24.1	2,754-	27.5-
	HOUSEHOLD SUPPLIES	5110								
	FOOD	5115								
	MEDICAL SUPPLIES	5120	250			250	33.3		250-	100.0-
	CHEMICALS	5130								
240	GAS AND OIL	5250	9000		1091	7909	33.3	12.1	5,726-	63.6-
	WEARING APPAREL	5355	500			500	33.3		500-	100.0-
	HORT./LANDSCAPING SPLY	5440	2800		1020	1780	33.3	36.4	260	9.2
	HAND TOOLS	5450								
	MINOR EQUIPMENT	5460	12500		4270	8230	33.3	34.1	310	2.4
	MDSE FOR RESALE	5520								
	OTHER OPERATING MATL/S	5590	13000			13000	33.3		13,000-	100.0-
606	OPERATING SUPPLIES		48050		8795	39255	33.3	18.3	21,664-	45.0-
	REPAIR & MAINTENANCE SP									

	BUILDING MATERIALS & S	5600	5000	457		4543	33.3		5,000-	100.0-
455	ELECTRICAL SUPPLIES	5605	5000		693	4307	33.3	13.8	2,920-	58.4-
435	PLUMBING SUPPLIES	5610	2000		535	1465	33.3	26.7	394-	19.7-
	PAINT AND PAINTING SPL	5650	2000			2000	33.3		2,000-	100.0-
224	MTR VEHICLE REP. PTS/S	5700	2000	639	516	845	33.3	25.8	452-	22.6-
	OTHER REPAIR/MAINT. SP	5990	1000		172	828	33.3	17.2	484-	48.4-
1114	REPAIR & MAINTENANCE		17000	1,096	1916	13988	33.3	11.2	11,252-	66.1-
1720	SUPPLIES AND EXPENSES		67050	1,096	10711	55243	33.3	15.9	34,916-	52.0-
	PROFESSIONAL SERVICES									
	ENTERTAINMENT	6033								
	OTHER PROFESSIONAL SER	6049	8000		2460	5540	33.3	30.7	620-	7.7-
	PROFESSIONAL SERVICE		8000		2460	5540	33.3	30.7	620-	7.7-
	COMMUNICATIONS									
108	TELEPHONE AND TELEGRAP	6060	1000		139	861	33.3	13.9	582-	58.2-
	POSTAGE	6070								
108	COMMUNICATIONS		1000		139	861	33.3	13.9	582-	58.2-
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	FREIGHT	6120								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	FILM PROCESSING	6240								
	PRINTING AND BINDING									
	INSURANCE									
	BOILER MACHINERY	6260								
	AUTOMOBILE INSURANCE	6265								
	INSURANCE									
	UTILITIES									
1995	GAS	6300	8000		3111	4889	33.3	38.8	1,333	16.6
5119	ELECTRICITY	6305	82000		23145	58855	33.3	28.2	12,564-	15.3-
7114	UTILITIES		90000		26255	63745	33.3	29.1	11,234-	12.4-
	REPR/MAINT-OUTSIDE LABO									
617	BUILDING R&M	6350	16510	4,290	627	11593	33.3	3.7	14,628-	88.6-
	ELECTRICAL R&M	6355								
	PLUMBING EQUIPMENT R&M	6357	1250			1250	33.3		1,250-	100.0-
	OFFICE EQUIPMENT R&M	6365								
720	HOUSEHOLD EQUIPMENT R&	6370	9000		1346	7654	33.3	14.9	4,962-	55.1-
	FIXED EQUIPMENT R&M	6380	13250		2482	10768	33.3	18.7	5,804-	43.8-

	MINOR EQUIPMENT R&M	6382	600			600	33.3		600-	100.0-
	MOTOR VEHICLE EQ. R&M	6384	1750	105	26	1619	33.3	1.4	1,672-	95.5-
	CLEANING AND PAINTING	6392	19000			19000	33.3		19,000-	100.0-
259	DISINFECT./EXTERMINATI	6394	2500		566	1934	33.3	22.6	802-	32.0-
	TOW IN CHARGES	6398	250			250	33.3		250-	100.0-
30	OTHER REPAIRS AND MAIN	6399	4900		765	4135	33.3	15.6	2,604-	53.1-
1626	REPR/MAINT-OUTSIDE L		69010	4,395	5812	58804	33.3	8.4	51,574-	74.7-
	RENTALS									
	OFFICE EQUIPMENT RENT	6410								
	CYLINDER RENT	6425								
177	UNIFORM RENT	6430	3000		699	2302	33.3	23.3	902-	30.0-
	MOP-MAT-RAG RENT	6435								
	OTHER RENT	6449								
177	RENTALS		3000		699	2302	33.3	23.3	902-	30.0-
	OTHER SERVICES & CHARGE									
	BANK SERV/TRF FEE	6832	50		28	22	33.3	56.0	34	68.0
	DUES AND MEMBERSHIPS	6840								
	REGISTRATION FEE/TUITI	6845	1000			1000	33.3		1,000-	100.0-
	PAYMENTS-TOURING EVENT	6997								
	SPECIAL EVENTS EXPENDI	6998								
	SERVICES NOT SPECIFIED	6999	2950			2950	33.3		2,950-	100.0-
	OTHER SERVICES & CHA		4000		28	3972	33.3	.7	3,916-	97.9-
9025	OTHER SERVICES & CHAR		175010	4,395	35392	135223	33.3	20.2	68,834-	39.3-
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS		5400		5400		33.3	100.0	10,800	200.0
	BUILDING/BLD IMPROVE		5400		5400		33.3	100.0	10,800	200.0
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	HOUSEHOLD FURN/EQUIP.	7320								
	OFFICE FURN/EQUIP.	7325								
	COMMUNICATION EQUIPMEN	7355								
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
	CAPITAL OUTLAY		5400		5400		33.3	100.0	10,800	200.0
48618	EXPENDITURES		799139	5,491	215373	578274	33.3	26.9	153,019-	19.1-

078500 - '09 WTR METER PROJ-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T WATER & SEWER B&I	9000 10								
---			---	---	---	---	---	---	---	---
	TRANSFERS TO OTHER F									
---			---	---	---	---	---	---	---	---
	TRANSFERS									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

078635 - '09 WATER METER PROJ-CIP

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
	CONCRETE, CEMENT, ETC.	5405								
	BRICK,STONE,MORTAR,ETC	5410								
	DRAINAGE PIPE & CULVER	5420								
	OTHER OPERATING MATL/S	5590								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	CONSULTANT SERV/SURVEY	6020								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	OTHER SERVICES & CHAR									
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
	BUILDING/BLD IMPROVE									
	MACHINERY AND EQUIPMENT									
	WATER UTILITY SOFTWARE	7329								
	HYDRANTS & METERS	7365								
	MACHINERY AND EQUIPM									
	CAPITAL OUTLAY									
	EXPENDITURES									

082285 - CDBG-ENTITLEMENTS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	SALARIES									
9447	REGULAR WAGES	4000	112225		37195	75030	33.3	33.1	639-	.5-
	OVERTIME	4300								
9447	SALARIES		112225		37195	75030	33.3	33.1	639-	.5-
	EMPLOYEE BENEFITS									
1488	STATE RETIREMENT	4600	17675		5858	11817	33.3	33.1	101-	.5-
701	F.I.C.A. TAXES	4700	8585		2757	5828	33.3	32.1	313-	3.6-
1607	HOSPITALIZATION INS.	4800	26400		9004	17396	33.3	34.1	612	2.3
	UNEMPLOYMENT BENEFITS	4900	500			500	33.3		500-	100.0-
	WORKMAN'S COMPENSATION	4910	3375			3375	33.3		3,375-	100.0-
3795	EMPLOYEE BENEFITS		56535		17620	38915	33.3	31.1	3,675-	6.5-
13242	PERSONAL SERVICES		168760		54814	113946	33.3	32.4	4,318-	2.5-
	OFFICE SUPPLIES									
	PAPER	5003	500			500	33.3		500-	100.0-
	PRINTED FORMS	5005								
	OTHER EXPENDABLE OFF.S	5010	2000		770	1230	33.3	38.5	310	15.5
	MINOR OFFICE EQUIP/FUR	5020	500		409	91	33.3	81.8	727	145.4
	PHOTO SUPPLIES	5040								
	SUBSCRIPTIONS,MAGS,MAP	5050								
	BOOKS	5070								
	COMPUTER SUPPLIES	5080								
	OFFICE SUPPLIES		3000		1179	1821	33.3	39.3	537	17.9
	OPERATING SUPPLIES									
	FOOD	5115								
	GAS AND OIL	5250	1100		225	875	33.3	20.4	424-	38.5-
	LUBRICANTS	5255								
	MINOR EQUIPMENT	5460	500			500	33.3		500-	100.0-
	OTHER OPERATING MATL/S	5590	300	40	43	217	33.3	14.3	170-	56.6-
	OTHER OPER.MATLS-FULL	5591	100		5	95	33.3	5.0	84-	84.0-
	OTHER OPER.MATLS-EMER	5592								
	OPERATING SUPPLIES		2000	40	273	1687	33.3	13.6	1,180-	59.0-
	REPAIR & MAINTENANCE SP									
	BUILDING MATERIALS & S	5600								
	PAINT AND PAINTING SPL	5650								
	MTR VEHICLE REP. PTS/S	5700	600	117	174	310	33.3	29.0	78-	13.0-
	MINOR COMPUTER EQUIP.	5800								
	REPAIR & MAINTENANCE		600	117	174	310	33.3	29.0	78-	13.0-

SUPPLIES AND EXPENSES		5600	157	1626	3817	33.3	29.0	722-	12.8-
PROFESSIONAL SERVICES									
AUDITING AND ACCOUNTIN	6010								
DEMO/RELATED SER 2008-		7000			7000	33.3		7,000-	100.0-
CONSULTANT SERV/SURVEY	6020								
OTHER PROFESSIONAL SER		87017		46574	40443	33.3	53.5	52,705	60.5
PROFESSIONAL SERVICE		94017		46574	47443	33.3	49.5	45,705	48.6
COMMUNICATIONS									
TELEPHONE AND TELEGRAP	6060	450		66	384	33.3	14.6	252-	56.0-
COMMUNICATIONS		450		66	384	33.3	14.6	252-	56.0-
TRANSPORTATION									
TRAVEL EXPENSE	6110	5000		355-	5355	33.3	7.1	3,934-	78.6-
MESSENGER/EXPRESS SERV	6130								
TRANSPORTATION		5000		355-	5355	33.3	7.1	3,934-	78.6-
ADVERTISING									
ADVERTISING	6150	350			350	33.3		350-	100.0-
ADVERTISING		350			350	33.3		350-	100.0-
PRINTING AND BINDING									
PRINTING-GRANT RELATED	6202								
FILM PROCESSING	6240								
PRINTING AND BINDING									
REPR/MAINT-OUTSIDE LABO									
OFFICE EQUIPMENT R&M	6365	700			700	33.3		700-	100.0-
MOTOR VEHICLE EQ. R&M	6384	300		114	186	33.3	38.0	42	14.0
REPR/MAINT-OUTSIDE L		1000		114	886	33.3	11.4	658-	65.8-
RENTALS									
OFFICE EQUIPMENT RENT	6410	3000		747	2253	33.3	24.9	758-	25.2-
OTHER RENT	6449								
RENTALS		3000		747	2253	33.3	24.9	758-	25.2-
OTHER SERVICES & CHARGE									
EXHIBITIONS & PROMOTIO									
BANK SERV/TRF FEE	6832								
DUES AND MEMBERSHIPS	6840	1000		205	795	33.3	20.5	384-	38.4-
REGISTRATION FEE/TUITI	6845	1200			1200	33.3		1,200-	100.0-
SERVICES NOT SPECIFIED	6999								
OTHER SERVICES & CHA		2200		205	1995	33.3	9.3	1,584-	72.0-
OTHER SERVICES & CHAR		106017		47351	58666	33.3	44.6	36,036	33.9
IMPROVEMENT OTHER THAN									
DRAINS									
SEWERS	7220								

	ARRA SIDEWALKS (WOODLE	7225								
	STREETS & ROADWAYS									
	CDBG/HOME HOUSING		342826		128380	214446	33.3	37.4	42,314	12.3
	CDBG-ENTITLEMT ASSISTA	7285								
	HOME ENTITLEMT ASSISTA		3302		1810	1492	33.3	54.8	2,128	64.4
	MDA AM DREAM D/P (ADDI	7287								
67681	OTHER IMPROVEMENTS	7295	120066		120066		33.3	100.0	240,132	200.0
67681	IMPROVEMENT OTHER TH		466194		250256	215938	33.3	53.6	284,574	61.0
	MACHINERY AND EQUIPMENT									
	OFFICE FURN/EQUIP.	7325								
	DATA PROCESSING EQUIP.	7327								
	MACHINERY AND EQUIPM									
	VEHICLES									
	AUTOMOBILES	7400								
	PICK UP TRUCKS	7420								
	VEHICLES									
67681	CAPITAL OUTLAY		466194		250256	215938	33.3	53.6	284,574	61.0
80923	EXPENDITURES		746571	157	354047	392367	33.3	47.4	315,570	42.2

082500 - CDBG-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T GENERAL FUND	9000 O1								
	T/T W & S CONSTRUCTION	9000 75								
---	TRANSFERS TO OTHER F		---	---	---	---	---	---	---	---
---	TRANSFERS		---	---	---	---	---	---	---	---
---	EXPENDITURES		---	---	---	---	---	---	---	---

087500 - INDUSTRIAL PK-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND								
	T/T GENERAL FUND	9000 01							
	T/T CITY B & I	9000 13							
	T/T CITY B&I (KOHLER)	9000 13K			274211	274211-		822,633	
	T/T CITY B&I (SUNBEAM)	9000 13S							
	T/T MUN.ROAD & BRIDGE	9000 72							
	T/T W & S CONSTRUCTION	9000 75							
	TRANSFERS TO OTHER F				274211	274211-		822,633	
	TRANSFERS				274211	274211-		822,633	
	EXPENDITURES				274211	274211-		822,633	

087601 - INDUSTRIAL PK-G.O.ACQUISITIONS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OFFICE SUPPLIES									
	MISCELLANEOUS	5001			353	353-			1,059	
	OTHER EXPENDABLE OFF.S	5010								
	OFFICE SUPPLIES				353	353-			1,059	
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
	MINOR EQUIPMENT	5460								
	OTHER OPERATING MATL/S	5590								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES				353	353-			1,059	
	PROFESSIONAL SERVICES									
	ADMINISTRATIVE FEE	6005			875	875-			2,625	
	AUDITING AND ACCOUNTIN	6010								
	ARCHITECTURAL	6012								
	ENGINEERING/ENVIRONMEN	6015								
	SITE PREPARATION	6016								
	APPRAISAL	6017								
	CONSULTANT SERV/SURVEY				97500	97500-			292,500	
2500	LEGAL	6025			2575	2575-			7,725	
	OTHER PROFESSIONAL SER	6049								
2500	PROFESSIONAL SERVICE				100950	100950-			302,850	
	COMMUNICATIONS									
	TELEPHONE AND TELEGRAP	6060								
	POSTAGE	6070								
	COMMUNICATIONS									
	TRANSPORTATION									
	TRAVEL EXPENSE	6110								
	MESSENGER/EXPRESS SERV	6130								
	TRANSPORTATION									
	ADVERTISING									
	ADVERTISING	6150								
	ADVERTISING									
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									

	INSURANCE									
	FIRE & EXTENDED COVERA	6250								
	PUBLIC LIAB/PROPERTY D	6255								
	OTHER INSURANCE	6299								
	INSURANCE									
	UTILITIES									
	GAS	6300								
	ELECTRICITY	6305								
	WATER	6315								
	UTILITIES									
	REPR/MAINT-OUTSIDE LABO									
	BUILDING R&M	6350								
	SIGN PAINTING	6396								
	OTHER REPAIRS AND MAIN	6399								
	LANDSCAPE MAINTENANCE	6399	01		360	360-			1,080	
	RAIL SPURS MAINTENANCE	6399	02		6955	6955-			20,865	
	REPR/MAINT-OUTSIDE L				7315	7315-			21,945	
	RENTALS									
	LAND RENT	6400								
	RENTALS									
	OTHER SERVICES & CHARGE									
	CONTRIBUTIONS									
	PROPERTY TAXES	6995								
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
2500	OTHER SERVICES & CHAR				108265	108265-			324,795	
	LAND									
	LAND	7000								
	LEASEHOLDS	7020								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	STREETS & ROADWAYS	7230								
	OTHER IMPROVEMENTS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	BONDS REDEEMED									
	IND/ECON DEV ISSUES	8020								

	BONDS REDEEMED									
	NOTE PRINCIPAL									
	IND. PARK NOTE	8210								
	NOTE PRINCIPAL									
	INTEREST ON NOTES									
	OTHER NOTES	8335								
	INTEREST ON NOTES									
	DEBT SERVICE									
2500	EXPENDITURES				108618	108618-			325,854	

087630 - INDUSTRIAL PK-KOHLER PROJECT

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	OTHER SERVICES & CHAR									
	LAND									
	LAND	7000								
	SITE PREPARATION	7040								
	SITE IMPROVEMENT	7045								
	LAND									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	STREETS & ROADWAYS	7230								
	OTHER IMPROVEMENTS	7295								
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

088602 - PUBLIC SAFETY/REC CONSTRUCTION

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	DEMOLITION	6013								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049	2800000			2800000	33.3		2,800,000-	100.0-
	PROFESSIONAL SERVICE		2800000			2800000	33.3		2,800,000-	100.0-
	PRINTING AND BINDING									
	PRINTING	6200								
	PRINTING AND BINDING									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR		2800000			2800000	33.3		2,800,000-	100.0-
	EXPENDITURES		2800000			2800000	33.3		2,800,000-	100.0-

090500 - 2008 D/T LIGHTING-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T SPECIAL STREET	9000 08								
	T/T B&I CITY	9000 13								
	T/T 2003 TIF B&I-CHAUV	9000 22								
	T/T 2008 TIF B&I-LINCO	9000 24								
---	TRANSFERS TO OTHER F		---	---	---	---	---	---	---	---
---	TRANSFERS		---	---	---	---	---	---	---	---
---	EXPENDITURES		---	---	---	---	---	---	---	---

090602 - 2008 D/T LIGHTING-ISSUE EXP

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
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	PROFESSIONAL SERVICE									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

090603 - 2008 D/T LIGHTING-PROJECT

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN OTHER IMPROVEMENTS		---	---	---	---	---	---	---	---
	IMPROVEMENT OTHER TH		---	---	---	---	---	---	---	---
	CAPITAL OUTLAY		---	---	---	---	---	---	---	---
	EXPENDITURES		---	---	---	---	---	---	---	---

091500 - TIF CONST-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND								
	T/T GENERAL FUND	9000 01							
	T/T SO. POINTE TIF B &	9000 20							
	T/T 2007 TIF B&I-T/C	9000 23							
	T/T KOHLS TIF B&I	9000 25							
	T/T WHISPERING PINES T	9000 26			140071	140071-		420,213	
	T/T RIDGE AT TURTLE CR	9000 50			61020	61020-		183,060	
	T/T MIDTOWN MARKET	9000 51			10500	10500-		31,500	
	TRANSFERS TO OTHER F				211591	211591-		634,773	
	TRANSFERS				211591	211591-		634,773	
	EXPENDITURES				211591	211591-		634,773	

091602 - TIF CONST-ISSUE EXP

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
	PROF SERVICES-RIDGE AT	6049 01								
	PROF SERVICES-MIDTOWN	6049 02								
	PROF SERVICES-WHISPERI	6049 03								
	PROF SERVICES-HBURG CL	6049 04								
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	PROFESSIONAL SERVICE									
	PRINTING AND BINDING									
	PRINTING	6200								
---			---	---	---	---	---	---	---	---
	PRINTING AND BINDING									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

091603 - TIF CONST-STREETS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL		....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN OTHER IMPROVEMENTS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

093500 - '16 W&S SYSTEMS PROJ-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T WATER & SEWER B&I	9000 10								
	T/T 2013 W&S BOND CONS	9000 105								
---			---	---	---	---	---	---	---	---
	TRANSFERS TO OTHER F									
---			---	---	---	---	---	---	---	---
	TRANSFERS									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

093602 - 2016 W&S SYSTEMS PROJ-ISSUE EX

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES								
	LEGAL	6025			194500	194500-		583,500	
	OTHER PROFESSIONAL SER	6049			111000	111000-		333,000	
	PROFESSIONAL SERVICE				305500	305500-		916,500	
	OTHER SERVICES & CHARGE								
	SERVICES NOT SPECIFIED	6999			8500	8500-		25,500	
	OTHER SERVICES & CHA				8500	8500-		25,500	
	OTHER SERVICES & CHAR				314000	314000-		942,000	
	EXPENDITURES				314000	314000-		942,000	

093695 - 2016 W&S SYSTEMS PROJ-CONSTRUC

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
---			---	---	---	---	---	---	---	---
	OPERATING SUPPLIES									
---			---	---	---	---	---	---	---	---
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
	REPR/MAINT-OUTSIDE LABO									
	STREETS & STRUCTURES R	6360								
---			---	---	---	---	---	---	---	---
	REPR/MAINT-OUTSIDE L									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
	IMPROVEMENT OTHER THAN									
	SEWERS									
	WATER SYSTEMS									
	OTHER IMPROVEMENTS									
---			---	---	---	---	---	---	---	---
	IMPROVEMENT OTHER TH									
---			---	---	---	---	---	---	---	---
	CAPITAL OUTLAY									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

094500 - '12 W&S BOND CONST-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T WATER & SEWER B&I	9000 10								
	T/T 2013 W&S BOND CONS	9000 105	21188			21188	33.3		21,188-	100.0-
	TRANSFERS TO OTHER F		21188			21188	33.3		21,188-	100.0-
	TRANSFERS		21188			21188	33.3		21,188-	100.0-
	EXPENDITURES		21188			21188	33.3		21,188-	100.0-

094602 - 2012 W&S CONST-ISSUE EXP

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

094695 - 2012 W&S CONSTR.-CAPITAL PROJ

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
	ENGINEERING	6015								
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
	PROFESSIONAL SERVICE									
	REPR/MAINT-OUTSIDE LABO									
	STREETS & STRUCTURES R	6360								
	REPR/MAINT-OUTSIDE L									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	IMPROVEMENT OTHER THAN									
	SEWERS									
	WATER SYSTEMS									
	OTHER IMPROVEMENTS		21244			21244	33.3		21,244-	100.0-
	IMPROVEMENT OTHER TH		21244			21244	33.3		21,244-	100.0-
	CAPITAL OUTLAY		21244			21244	33.3		21,244-	100.0-
	EXPENDITURES		21244			21244	33.3		21,244-	100.0-

095641 - 2001 BOND CONSTR-ZOO IMPR

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
---			---	---	---	---	---	---	---	---
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS									
---			---	---	---	---	---	---	---	---
	IMPROVEMENT OTHER TH									
---			---	---	---	---	---	---	---	---
	CAPITAL OUTLAY									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

096201 - MDB CAPITAL PROJ-STREETS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN STREETS & ROADWAYS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

096402 - MDB CAPITAL PROJ-ECONOMIC DEV.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	BUILDING/BLD IMPROVEMEN									
	BUILDING IMPROVEMENTS									
----------			---------	---------	---------	---------	-----	-----	--------	-----
	BUILDING/BLD IMPROVE									
----------			---------	---------	---------	---------	-----	-----	--------	-----
	CAPITAL OUTLAY									
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	EXPENDITURES									

096500 - MDB CAPITAL PROJ-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T B&I CITY	9000 13								
	TRANSFERS TO OTHER F									
	TRANSFERS									
	EXPENDITURES									

096602 - MDB CAPITAL PROJ-ISSUE EXP.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	LEGAL	6025								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
	PRINTING AND BINDING									
	PRINTING	6200								
---			---	---	---	---	---	---	---	---
	PRINTING AND BINDING									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

096695 - MDB CAPITAL PROJ-CAPITAL PROJ

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	CONSULTANT SERV/SURVEY	6020								
	OTHER PROFESSIONAL SER	6049								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
	BUILDING/BLD IMPROVEMEN									
	BUILDINGS									
---			---	---	---	---	---	---	---	---
	BUILDING/BLD IMPROVE									
	IMPROVEMENT OTHER THAN									
	DRAINS									
	SEWERS									
	WATER SYSTEMS									
---			---	---	---	---	---	---	---	---
	IMPROVEMENT OTHER TH									
	MACHINERY AND EQUIPMENT									
	DATA PROCESSING EQUIP.	7327								
---			---	---	---	---	---	---	---	---
	MACHINERY AND EQUIPM									
---			---	---	---	---	---	---	---	---
	CAPITAL OUTLAY									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

098300 - K.P.ZOO CAPITAL-REC.MAINT.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN KAB/LANDSCAPING RECREATION IMPROVEMENT	7226								
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

098341 - K.P.ZOO CAPITAL-KPZ

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	OTHER OPERATING MATL/S	5590								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
	OTHER SERVICES & CHAR									
	IMPROVEMENT OTHER THAN									
	OTHER IMPROVEMENTS		2238			2238	33.3		2,238-	100.0-
	IMPROVEMENT OTHER TH		2238			2238	33.3		2,238-	100.0-
	MACHINERY AND EQUIPMENT									
	OTHER EQUIPMENT	7399								
	MACHINERY AND EQUIPM									
	OTHER									
	ZOOLOGICAL ANIMALS	7505								
	OTHER									
	CAPITAL OUTLAY		2238			2238	33.3		2,238-	100.0-
	EXPENDITURES		2238			2238	33.3		2,238-	100.0-

098553 - K.P.ZOO CAPITAL-CEMETERY

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN LANDSCAPING OTHER IMPROVEMENTS	7250								
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

099500 - '10 W&S GO BOND-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T W&S OPERATION & MA	9000 10								
---			---	---	---	---	---	---	---	---
	TRANSFERS TO OTHER F									
---			---	---	---	---	---	---	---	---
	TRANSFERS									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

099602 - 2010 W & S GO BOND-ISSUE EXP.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL		....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES									
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
---			---	---	---	---	---	---	---	---
	PROFESSIONAL SERVICE									
	PRINTING AND BINDING									
	PRINTING	6200								
---			---	---	---	---	---	---	---	---
	PRINTING AND BINDING									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHA									
---			---	---	---	---	---	---	---	---
	OTHER SERVICES & CHAR									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

099603 - 2010 W & S GO BOND-STREETS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN STREETS & ROADWAYS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

099606 - 2010 W & S GO BOND-DRAINAGE

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN DRAINS								
	IMPROVEMENT OTHER TH								
	CAPITAL OUTLAY								
	EXPENDITURES								

099627 - 2010 W & S GO BOND-WATER

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	LAND									
	LAND	7000								
	LAND									
	IMPROVEMENT OTHER THAN WATER SYSTEMS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

099630 - 2010 W & S GO BOND-SEWERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	IMPROVEMENT OTHER THAN SEWERS									
	IMPROVEMENT OTHER TH									
	CAPITAL OUTLAY									
	EXPENDITURES									

105500 - '13 W&S BOND CONST-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T WATER & SEWER B&I	9000 10								
---	TRANSFERS TO OTHER F		---	---	---	---	---	---	---	---
---	TRANSFERS		---	---	---	---	---	---	---	---
---	EXPENDITURES		---	---	---	---	---	---	---	---

105602 - 2013 W&S CONST-ISSUE EXP

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES								
	LEGAL	6025							
	OTHER PROFESSIONAL SER	6049							
---			---	---	---	---	--- ---	---	---
	PROFESSIONAL SERVICE								
	OTHER SERVICES & CHARGE								
	BOND DISCOUNT	6600							
	BOND INSURANCE	6605							
	SERVICES NOT SPECIFIED	6999							
---			---	---	---	---	--- ---	---	---
	OTHER SERVICES & CHA								
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	OTHER SERVICES & CHAR								
---			---	---	---	---	--- ---	---	---
	EXPENDITURES								

105695 - 2013 W&S CONSTR.-CAPITAL PRO

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	PERCENT ACTUAL	....PROJECTED.... OVER/UNDER	%
	OPERATING SUPPLIES									
	ASPHALT & ASPHALT PROD	5400								
	OPERATING SUPPLIES									
	SUPPLIES AND EXPENSES									
	PROFESSIONAL SERVICES									
99173	ENGINEERING	6015	863532	646,310	216427	795	33.3	25.0	214,250-	24.8-
	LEGAL	6025								
	OTHER PROFESSIONAL SER	6049								
99173	PROFESSIONAL SERVICE		863532	646,310	216427	795	33.3	25.0	214,250-	24.8-
	REPR/MAINT-OUTSIDE LABO									
	STREETS & STRUCTURES R	6360								
	REPR/MAINT-OUTSIDE L									
	OTHER SERVICES & CHARGE									
	SERVICES NOT SPECIFIED	6999								
	OTHER SERVICES & CHA									
99173	OTHER SERVICES & CHAR		863532	646,310	216427	795	33.3	25.0	214,250-	24.8-
	IMPROVEMENT OTHER THAN									
2330	SEWERS		766137	1,343,178	400734	154462	33.3	52.3	436,065	56.9
103364	WATER SYSTEMS		457113	12,067,556	277927	630	33.3	60.8	376,668	82.4
	OTHER IMPROVEMENTS			24,135,112			33.3	60.8		82.4
105694	IMPROVEMENT OTHER TH		1223250	37,545,846	678661	155092	33.3	55.4	812,733	66.4
105694	CAPITAL OUTLAY		1223250	37,545,846	678661	155092	33.3	55.4	812,733	66.4
204867	EXPENDITURES		2086782	38,192,156	895088	155887	33.3	42.8	598,482	28.6

107500 - SPEC.SALES TAX-TRANSFERS

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	TRANSFERS TO OTHER FUND									
	T/T GENERAL FUND	9000 01								
	T/T CITY B & I	9000 13								
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	TRANSFERS TO OTHER F									
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	TRANSFERS									
---			---	---	---	---	---	---	---	---
	EXPENDITURES									

107706 - SPEC.SALES TAX-T&A EXPEND.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN ACTUAL	....PROJECTED.... OVER/UNDER	%
	PROFESSIONAL SERVICES								
425120	OTHER PROFESSIONAL SER				1743978	1743978-		5,231,934	
425120	PROFESSIONAL SERVICE				1743978	1743978-		5,231,934	
425120	OTHER SERVICES & CHAR				1743978	1743978-		5,231,934	
425120	EXPENDITURES				1743978	1743978-		5,231,934	

109704 - GROUP INS.TRUST-T&A EXPEND.

CITY OF HATTIESBURG
EXPENDITURE REPORT
ALL FUNDS
4 Months Ending 01/31/17

THIS MONTH ACTUAL		OBJ/SUB	ANNUAL BUDGET	OPEN PO & CONTRACTS	YTD ACTUAL	REMAINING BALANCE	PERCENT PLAN	ACTUAL	....PROJECTED.... OVER/UNDER	%
	OTHER SERVICES & CHARGE									
	BANK SERV/TRF FEE	6832								
160947	ADMIN PAID	6833			245700	245700-			737,100	
444945	CLAIMS PAID	6834			1626050	1626050-			4,878,150	
	SERVICES NOT SPECIFIED									
605892	OTHER SERVICES & CHA				1871750	1871750-			5,615,250	
605892	OTHER SERVICES & CHAR				1871750	1871750-			5,615,250	
605892	EXPENDITURES				1871750	1871750-			5,615,250	

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
TAXES-OTHER	206A								
PAYMENT IN LIEU OF TAXE	2060								
HOUSING AUTHORITY	2065	2,916			11,667			35000	35000
MERCHANTS COMPANY	2066								
COLLECTIONS-P/Y EXCESS	2070								
PAYMENT IN LIEU OF T		2,916			11,667			35000	35000
TAXES-OTHER		2,916			11,667			35000	35000
LICENSES, PERMITS & FEES	220A								
PRIVILEGE LICENSES	2200	12,500	12927	103	50,000	47483	94	150000	102517
FRANCHISES	2210								
ELECTRICAL FRANCHISE	2211	250,000	538704	215	1,000,000	1453233	145	3000000	1546767
SOLID WASTE OPER/FRANC	2212	14,583	18807	128	58,333	61047	104	175000	113953
AT&T UVERSE VIDEO/FRAN	2213								
GAS FRANCHISE	2215	12,083	31148	257	48,333	48352	100	145000	96648
CSPIRE FIBER-TELEPAK F	2218								
CABLE T.V. FRANCHISE	2219	38,750			155,000	106811	68	465000	358189
FRANCHISES		315,416	588659	186	1,261,667	1669442	132	3785000	2115558
BLDG/INSP PERMITS & FEE	2220								
BUILDING PERMIT/INSPEC	2221	31,250	126248	403	125,000	230586	184	375000	144414
FIRE INSPECTION	2222								
SIGN PERMIT	2223	1,666	2094	125	6,667	6524	97	20000	13476
LAND CODE ENFORCEMENT	2224	2,916	1975	67	11,667	17553	150	35000	17447
GAS & PLUMBING	2225	625	1150	184	2,500	4400	176	7500	3100
ELECTRICAL INSPECTION	2226	916	565	61	3,667	3325	90	11000	7675
DEMOLITION PERMIT	2227	250			1,000	400	40	3000	2600
HOUSE MOVING	2228	41			167	150	89	500	350
BLDG/INSP PERMITS &		37,666	132032	350	150,667	262938	174	452000	189062
OTHER PERMITS & FEES	2230								
PUBLIC RECORDS ACCESS	2233								
PROPERTY CLEAN-UP COST	2234	100			400			1200	1200
TAXI BADGE PERMIT	2235	16			67			200	200
WRECKER REGISTRATION F	2236	41	75	182	167	75	44	500	425
BURN OR MISC FIRE PERM	2237	166	150	90	667	485	72	2000	1515
AMBULANCE PERMIT	2238	75	900	1200	300	900	300	900	
ZONING PETITION FEE	2240								
ZONING CERTIFICATE FEE	2245	625	375	60	2,500	1575	63	7500	5925
TITLE PLEDGE LICENSE F	2248								
EXAMINATION FEE	2250								
CONTRACTOR LICENSE FEE	2255								
ORDINANCE SALES	2260								
ORDINANCE VIOLATION FE	2265								

DATA PROCESSING FEES	2280								
NSF CHECK FEE	2290	41			167	80	47	500	420
MISC. PERMITS & FEES	2299	4,083			16,333	3652	22	49000	45348
OTHER PERMITS & FEES		5,150	1500	29	20,600	6767	32	61800	55033
LICENSES, PERMITS & F		370,733	735118	198	1,482,933	1986630	133	4448800	2462170
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
JUST./USM-PROJECT SAFE	2304								
JUST./USM-POLICE CORPS	2305								
JUST.-OTHER	2307	6,222			24,888			74664	74664
JUST.-COPS SECURE SCHOO	2309								
JUST.-JAIL DIVERSION	2310	13,333			53,333			160000	160000
JUST.-BYRNE GRANTS	2311	1,000			4,000			12000	12000
JUST.-OHS DOMESTIC PREP	2312								
JUST.-COPS IN SCHOOLS	2313								
JUST.-DOMESTIC PREPARED	2314								
JUST.-COPS METHAMPHETAM	2315								
JUST.-COPS HIRING RECOV	2316								
JUST.-UNIVERSAL COPS	2317								
JUST.-COPS TECHNOLOGY	2318								
JUST.-LLEBG '04	2319								
SAFE COMMUNITY PROJECT	2320								
HHS-HIDTA NARCOTICS GRA	2321	1,666			6,667			20000	20000
NRCS-USDA STORM RELATED	2322								
FHWA-STORM RELATED	2323								
FEMA-EMER. WARNING SIRE	2324								
FEMA-'04 REGIONAL RESPO	2325								
FIREFIGHTERS GRANT	2326	750			3,000			9000	9000
FEMA-'05 REGIONAL RESPO	2327								
FEMA-CITIZENS CORPS	2328								
LAW ENF.GRANTS-OTHER	2329								
FEMA/HAZARD MITIG/GENER	2336								
FEMA RELIEF	2337	40,588	73921	182	162,356	206295	127	487067	280772
CDBG-FIRE STATION	2338								
MISC FEDERAL GRANTS	2339								
ARRA-STOP VIOLENCE GRAN	2348								
FEMA RELIEF ADMIN.	2349								
DEPT.OF DEFENSE-CAMP SH	2350								
EPA-BROWNSFIELD PROJ	2356	375			1,500			4500	4500
HUD-MIDTOWN STUDY	2360								
HUD/MDA HUB CITY LOFT P	2361								
FEDERAL GRANTS		63,935	73921	115	255,744	206295	80	767231	560936
STATE GRANTS	250B								
MISCELLANEOUS STATE GRA	2503								
MOSQUITO CONTROL GRANT	2504								
ARCHIVES & HISTORY	2505								
JUVENILE PREVENTION PRO	2510								
JUVENILE ACCT.INCENTIVE	2511								

EMER.SHELTER-MDA GRANT	2513									
I.P.-HYBERPLASTIC-MDA G	2514									
POLICE ACADEMY REIMB.	2515		2,500			10,000			30000	30000
SOLID WASTE GRANT	2518		12,500			50,000			150000	150000
URBAN YOUTH CORPS MDOT	2519		2,083			8,333			25000	25000
DEQ GRANTS(SO.LAGOON ST	2520									
ARTS COMMISSION GRANT	2521									
BEAUTIFICATION-VARIOUS	2522									
MS CITY CORPS COUNCIL	2523									
STOP VIOLENCE GRANT	2526		2,083	1636	78	8,333	6191	74	25000	18809
ALCOHOL INCENTIVE	2527		5,688			22,752	38873	170	68257	29384
JUSTICE ASSISTANCE	2528									
DISASTER RELIEF	2545									
MEMA-DOMESTIC PREPAREDN	2550									
MEMA-SAFE ROOMS	2551									
MDOT GRANT-DEPOT PROJEC	2556									
MDOT GRANT-VISITOR'S CT	2557									
MDOT GRANT-TRAFFIC STUD	2558									
STATE GRANTS			24,854	1636	6	99,419	45064	45	298257	253193
STATE-SHARED REVENUE	260B									
GENERAL SALES TAX	2600		1,791,666	1828675	102	7,166,667	7107644	99	21500000	14392356
CITY UTILITY TAX	2601		750	704	93	3,000	2727	90	9000	6273
SALES TAX-SRF REIMB.	2602			22134			88534			88534-
ALCOHOLIC BEV. LICENSE	2610		11,666	13125	112	46,667	49401	105	140000	90599
MOTOR VEH.PRIVILEGE TAX	2635		8,333			33,333			100000	100000
PAT HARRISON WATERWAY D	2665									
MPO-METROPOLITAN PLANNI	2670		33,333			133,333	44516	33	400000	355484
MISC DORMANT ACCOUNT RF	2699									
STATE-SHARED REVENUE			1,845,750	1864638	101	7,383,000	7292822	98	22149000	14856178
CITY/COUNTY-SHARED REVEN	270B									
FORREST CTY	2705									
FORREST CTY CAMP SHELBY	2705	01								
FORREST CTY GORDON CRK	2705	02								
FORREST GENERAL CTY HOS	2706									
FORREST-INFRAST.IMPR.	2707									
LAMAR-INFRAST.IMPR.	2708									
LAMAR/FORREST-HAZ.WASTE	2709		3,192			12,769			38308	38308
PETAL/F-CO FLOOD INUNDA	2718		1,720			6,880			20640	20640
FORREST CTY-TWIN FORKS	2719									
HPSD-COPS IN SCHOOLS	2720									
CONV.COMM/TOURISM BUREA	2725									
METRO WAGES/MILEAGE-FOR	2735									
METRO NARC.O/T-FORREST	2736									
MEMA/HAZARD MITIG/GENER	2739									
CITY/COUNTY-SHARED RE			4,912			19,649			58948	58948
CHARGES FOR SERVICES	280A									
PUBLIC SAFETY	2850									
CRIME SCENE UNIT CONT	2855		1,666			6,667	40000	599	20000	20000-
FIRE DPT.SERV FOR OTHE	2860									

800 MHZ RADIO ACCESS F	2865								
POLICE/FIRE-SPECIAL DU	2870	9,583	18662	194	38,333	46628	121	115000	68372
P&F LATERAL TRNG REIMB	2880								
DRUG ENF.AGENCY O/T RE	2881								
HOMELAND SECURITY O/T	2882								
US MARSHALL O/T REIMB.	2883	1,000			4,000	12936	323	12000	936-
FED BUREAU INVEST O/T	2884	833	1454	174	3,333	5546	166	10000	4454
PUBLIC SAFETY		13,083	20116	153	52,333	105110	200	157000	51890
TROLLEY SERVICE	2890								
CONV.CENTER TROLLEY FE	2895								
TROLLEY RECEIPTS	2896								
TROLLEY SERVICE									
STREETS	2900								
STREET WORK	2901								
PARKING METERS	2910								
PARKING FINES	2915	83	85	102	333	110	33	1000	890
CROSSING LIGHT FEES	2920								
LOT CLEAN-UP/HEAVY TRA	2930	41			167			500	500
CDBG LOT CLEAN-UP/DEMO	2931								
STREETS		125	85	68	500	110	22	1500	1390
SANITATION	2950								
RECYCLING PICK UP	2951	5,833	4671	80	23,333	19949	85	70000	50051
TRASH HAULING	2960	8,750	8377	95	35,000	36759	105	105000	68241
RESIDENTL WASTE COLLEC	2965	169,250	158132	93	677,000	655127	96	2031000	1375873
SANITA-REFUND & RECOVE	2970								
SANITATION		183,833	171180	93	735,333	711835	96	2206000	1494165
CHARGES FOR SERVICES		197,041	191380	97	788,167	817056	103	2364500	1547444
FINES AND FORFEITS	330A								
POLICE FINES	3320	100,000	74674	74	400,000	286962	71	1200000	913038
CITY COURT COSTS	3321	12,500	9618	76	50,000	24911	49	150000	125089
CCC-JAIL REIMB.	3322	83	20	24	333	8596	2581	1000	7596-
ENVIR CT-CODE VIOLATION	3323	83	30	36	333	3405	1022	1000	2405-
ANIMAL CONTROL	3327	100	115	115	400	2290	572	1200	1090-
COURT TECHNOLOGY FEE	3328								
FINES AND FORFEITS		112,766	84457	74	451,067	326164	72	1353200	1027036
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
OTHER INTEREST-CD'S	3403								
SAVINGS ACCOUNT/MMA	3405	250	318	127	1,000	1526	152	3000	1474
INTEREST-GRANT MONIES	3406								
OTHER INTEREST-MMA	3407								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								

INTEREST EARNINGS			250	318	127	1,000	1526	152	3000	1474
RENTS AND ROYALTIES	3410									
LAND	3411									
LAMAR OUTDOOR ADVERTI	3411	05								
ALWEST ADVERTISING	3411	10								
MS.POWER-HWY.42	3411	11								
TRITELL COMMUNICATION	3411	12								
LAND										
BUILDING	3412									
DEPOT FACILITY	3412	01	1,583	1500	94	6,333	6434	101	19000	12566
P&F ACADEMY RENTALS	3412	02								
SEXUAL ASSAULT CRISIS	3412	05								
MERCHANTS	3412	07	200			800	600	75	2400	1800
DEPOT - AMTRAK	3412	08								
USM CELLULAR ONE RENT	3412	41								
MISC CELL TOWER REVEN	3412	45	83			333			1000	1000
HUBSOUTH/WATER TOWER	3412	62								
OTHER BLDG. RENT	3412	99								
BUILDING			1,866	1500	80	7,467	7034	94	22400	15366
PARKING GARAGE-CIVIC C	3415		2,083	2670	128	8,333	11797	141	25000	13203
PARKING GARAGE-PINE ST	3416		2,500	2745	109	10,000	12570	125	30000	17430
PARKING SPACES	3417									
MAIN STREET PARKING L	3417	01	416	260	62	1,667	1740	104	5000	3260
CHURCH PARKING LOT	3417	02	416	375	90	1,667	1875	112	5000	3125
RAILROAD PARKING LOT	3417	03	1,250	1200	96	5,000	6000	120	15000	9000
MOBILE ST. PKG.LOT #1	3417	04	250			1,000	480	48	3000	2520
MOBILE ST. PKG.LOT #2	3417	05								
BATSON STREET PKG. LO	3417	06								
HEMPHILL PKG. LOT	3417	07	208	150	72	833	750	90	2500	1750
EAST PINE PKG.LOT	3417	08								
PARKING-MISC	3417	09								
PARKING SPACES			2,541	1985	78	10,167	10845	106	30500	19655
EQUIPMENT	3419									
RENTS AND ROYALTIES			8,991	8900	98	35,967	42246	117	107900	65654
CEMETERY FEES	3420		2,500	5620	224	10,000	10865	108	30000	19135
CONTRIBUTIONS-PUBLIC	3450									
CONTRIB-GORDONS CRK ST	3450	01								
CONTRIB-REV 911 MINUTE	3450	02								
CONTRIB-TRAIN DAY (MP	3450	03	250			1,000			3000	3000
CONTRIB-FRST CTY ARTS	3450	04					25000			25000-
CONTRIB-MDTWN STDY MAT	3458									
CONTRIBUTIONS-OTHER	3459									
CONTRIBUTIONS-PUBLIC			250			1,000	25000	2500	3000	22000-
CONTRIBUTIONS-PRIVATE	3460									
CONTRIB-TREE GRANT ECO	3460	01								
CONTRIB-EUREKA SCHOOL	3461									

CONTRIB-NCBM-BROWNFIEL	3462									
CONTRIB-SENIOR FARE	3463									
CONTRIB-MAYOR'S YOUTH	3464									
CONTRIB-BC HEALTHY HOM	3465									
CONTRIB-NIGHT OUT AGAI	3466									
CONTRIB-NLC HEALTH OUT	3467									
CONTRIB-MDTWN STDY MAT	3468									
CONTRIB-OTHER	3469									
CONTRIB-NLC HEALTH INI	3471									
CONTRIB-NLC FISCL	3472									
CONTRIBUTIONS-PRIVAT										
POLICE DEPT-MISC CHARGE	3590		4,583	4610	100	18,333	17081	93	55000	37919
OTHER MISC. REVENUE	3599									
MS POWER ENRGY EFFIC P	3599	01					45928			45928-
OTHER MISC. REVENUE							45928			45928-
MISCELLANEOUS			16,575	19448	117	66,300	142645	215	198900	56255
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F H'BURG REDEV.AUTH.	3800	101								
T/F GOVERNMENT COMPLEX	3800	104								
T/F 2002 USA YEAST/LAG	3800	106								
T/F SPEC.SALES TAX	3800	107								
T/F WATER & SEWER	3800	11	20,833			83,333			250000	250000
T/F POL.FORFEITURES	3800	19								
T/F POL.FORF O/T(HURR	3800	19HR								
T/F '03 TIF B&I CHAUVE	3800	22								
T/F TAX COLLECTORS-GPT	3800	27	1,208,333	2747594	227	4,833,333	3208119	66	14500000	11291881
T/F TAX COLL-C.C.FEE	3800	27CC								
T/F TAX COLL-EXCESS BI	3800	27EB								
T/F TAX COLL-CHKG INT	3800	27ICHK	250			1,000			3000	3000
T/F TAX COLL-INT/PEN	3800	27IP	24,166	7001	28	96,667	53443	55	290000	236557
T/F W & S CONSTRUCTION	3800	75								
T/F COM.DEV.BLK.GRANT	3800	82								
T/F INDUSTRIAL PARK DE	3800	87								
T/F 2007 TIF CONST-TUR	3800	91								
T/F 2001 STREETS,SWRS,	3800	95								
TRANSFERS FROM OTHR			1,253,583	2754595	219	5,014,333	3261562	65	15043000	11781438
TRANSFERS			1,253,583	2754595	219	5,014,333	3261562	65	15043000	11781438
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
BOND PROCEEDS	3912									
ACCRUED INT-BONDS	3915									
SALE OF BONDS										
SALE OF REAL ESTATE	3920									
SALE OF TIMBER	3923									
SALE OF EASEMENTS	3925									

SALE OF CEMETERY LOTS	3930		5,416	4065	75	21,667	12640	58	65000	52360
SALE OF EQUIPMENT	3940		5,833			23,333			70000	70000
SALE OF SCRAP MATERIAL	3943		208			833	871	104	2500	1629
SALE OF MISC. ITEMS	3945									
SALE OF MAPS/PUBLICATIO	3947			20			20			20-
SALE OF RECYCLABLE ITEM	3948									
MDB LOAN PYMT-HUB CITY	3950		10,117	10118	100	40,471	40471	100	121412	80941
KERR MAGEE PROJECT	3960									
MS TANK PROJECT	3961									
INSURANCE REIMB-STORM	3962									
VENDING COMM./REFUNDS	3964									
REFUND & RECOVERY	3965		833	1283	154	3,333	3855	115	10000	6145
RECOVERY OF DAMAGE CLAI	3967		833			3,333			10000	10000
REFUND/RECOVERY-INFO SY	3968									
RECOVERY-PERS SERV/EQUI	3969									
CAPITAL LEASE PROCEEDS	3970									
TIF DEPOSIT/PROCEEDS	3971									
NOTE PROCEEDS	3975									
FIRE STATION (MDB)	3975	03								
CHURCH PROJ (MDB)	3975	07								
POLICE COMPLEX ARCHITE	3975	08								
NOTE PROCEEDS										
NON-REVENUE RECEIPTS			23,242	15486	66	92,971	57856	62	278912	221056
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999		678,996			2,715,986			8147959	8147959
BEGINNING CASH BALANC			678,996			2,715,986			8147959	8147959
REVENUES			4,595,308	5740679	124	18,381,236	14136093	76	55143707	41007614

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
LICENSES, PERMITS & FEES	220A								
OTHER PERMITS & FEES	2230								
NSF CHECK FEE	2290								
OTHER PERMITS & FEES									
LICENSES, PERMITS & F									
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
FEMA RELIEF	2337	1,882			7,528			22585	22585
MISC FEDERAL GRANTS	2339								
NATL PARK SER/LAND WTR	2351								
FEDERAL GRANTS		1,882			7,528			22585	22585
STATE GRANTS	250B								
MDOT-INTERCHANGE ENHANC	2508								
DISASTER RELIEF	2545								
STATE GRANTS									
CITY/COUNTY SHARED REVEN	270B								
MISCELLANEOUS GRANTS	2740								
PEOPLES PARK	2740 01								
THAMES SCHOOL	2740 02								
SUMMER DAY CAMP	2740 03								
OTHER	2740 99								
MISCELLANEOUS GRANTS									
CITY/COUNTY SHARED RE									
CHARGES FOR SERVICES	280A								
WORKSHOP TRNG FEES	2892								
CULTURE AND RECREATION	3100								
SWIM FEES-C.E. ROY/5TH	3110	10			42			125	125
SWIM FEES-DAHMER PARK	3112	16			67			200	200
SWIM FEES-REC. CTR. PO	3115								
ADULT GOLF FEES	3117								
TENNIS FEES	3118								
FENCING FEES	3119								
PLAYGROUND FEES	3120								
CHEER PROGRAM	3121								
SUMMER DAY CAMP	3122	356			1,425			4275	4275
KAMPER PARK CONCESSION	3130								
BALLPARK CONCESSIONS	3131								
CERAMIC CONCESSIONS	3134								
KPZ GIFT SHOP CONCESSI	3135								

ZOO ADMISSIONS	3137									
TATUM PK PAVILION USE	3138		6			27			80	80
EASTSIDE PK PAVILION U	3139		32			128	40	31	385	345
MCNAIR REC CTR USE FEE	3140									
KPZ PAVILION USE FEE	3145									
DAHMER PAVILION USE FE	3147		56			227	40	17	680	640
KP ED CENTER USE FEE	3149									
BALLFIELD USE FEES	3150		281			1,125			3375	3375
PARKS-MISC USE FEES	3151		344	40	11	1,378	525	38	4135	3610
YOUTH TEAM FEES	3160									
FLAG FOOTBALL	3160	01								
LITTLE TIGERS BASKETB	3160	02								
JUNIOR GOLF FEES	3160	03								
YOUTH TRACK & FIELD	3160	04								
T-BALL	3160	05								
GIRLS' SOFTBALL	3160	06								
BOYS' SOFTBALL	3160	07								
GIRLS FASTPITCH	3160	10								
BOYS FASTPITCH	3160	11								
TACKLE FOOTBALL	3160	15								
CHEER LEADING	3160	20								
YOUTH TEAM FEES										
ADULT TEAM FEES	3162									
CHURCH LEAGUE BASKETB	3162	01								
ADULT BASKETBALL	3162	02	272			1,088			3265	3265
ADULT CO-ED SOFTBALL	3162	03	412			1,650	1800	109	4950	3150
ADULT MEN'S SOFTBALL	3162	04	739			2,957	1500	50	8870	7370
ADULT WOMEN'S SOFTBAL	3162	05								
ADULT FOOTBALL	3162	06								
ADULT SOFTBALL-CHURCH	3162	07								
ADULT SOCCER	3162	08								
ADULT FLAG FOOTBALL	3162	09								
ADULT TEAM FEES			1,423			5,695	3300	57	17085	13785
CERAMICS CLASS FEES	3170									
DRAMA,ART,DANCE LESSON	3178									
"MOKEY" TRAIN RIDES	3181									
CAROUSEL RIDES	3185									
OTHER	3190									
CULTURE AND RECREATI			2,528	40	1	10,113	3905	38	30340	26435
CHARGES FOR SERVICES			2,528	40	1	10,113	3905	38	30340	26435
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405		35	38	108	143	221	154	430	209
INTEREST EARNINGS			35	38	108	143	221	154	430	209
CONTRIBUTIONS-PUBLIC	3450									

CONTRIBUTIONS-FORREST	3455		2,083	5000	240	8,333	5000	60	25000	20000
CONTRIBUTIONS-PUBLIC			2,083	5000	240	8,333	5000	60	25000	20000
CONTRIBUTIONS-PRIVATE	3460									
CONTRIB-POLICEMAN'S BE	3461									
CONTRIB-MS TENNIS ASSO	3462			7000			7000			7000-
CONTRIB-SENIOR FARE	3463									
CONTRIB-SENIOR PROM	3464									
CONTRIB-HWY 49/7th ST	3468		2,083			8,333			25000	25000
CONTRIB-OTHER	3469		83			333	71	21	1000	929
CONTRIBUTIONS-PRIVAT			2,166	7000	323	8,667	7071	81	26000	18929
MISCELLANEOUS			4,285	12038	280	17,143	12293	71	51430	39137
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F GENERAL FUND	3800	01	189,166			756,667	600000	79	2270000	1670000
T/F TAX COLLECTORS-GPT	3800	27	70,732	159434	225	282,930	192495	68	848791	656296
TRANSFERS FROM OTHR			259,899	159434	61	1,039,597	792495	76	3118791	2326296
TRANSFERS			259,899	159434	61	1,039,597	792495	76	3118791	2326296
NON-REVENUE RECEIPTS	390A									
SALE OF EQUIPMENT	3940						2217			2217-
SALE OF MISC. ITEMS	3945									
COMM.-HOT DIGGITY CONCE	3963									
VENDING COMM./REFUNDS	3964									
REFUND & RECOVERY	3965						125-			125
RECOVERY OF DAMAGE CLAI	3967									
NON-REVENUE RECEIPTS							2092			2092-
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999		51,788			207,153			621460	621460
BEGINNING CASH BALANC			51,788			207,153			621460	621460
REVENUES			320,383	171512	53	1,281,535	810784	63	3844606	3033822

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27		155488			187729			187729-
TRANSFERS FROM OTHR			155488			187729			187729-
TRANSFERS			155488			187729			187729-
REVENUES			155488			187729			187729-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
STATE-SHARED REVENUE	260B								
PRO-RATA FIRE INS. PREM	2620	19,583			78,333			235000	235000
FIRE INS REBATE/CODE EN	2625								
STATE-SHARED REVENUE		19,583			78,333			235000	235000
CHARGES FOR SERVICES	280A								
PUBLIC SAFETY	2850								
FIRE PROT.SHARE-USM	2862	7,971			31,884			95652	95652
HAZ.MAT.TRAINING FEES	2885								
PUBLIC SAFETY		7,971			31,884			95652	95652
CHARGES FOR SERVICES		7,971			31,884			95652	95652
FINES AND FORFEITS	330A								
FIRE CODE VIOLATIONS	3325	125			500			1500	1500
FINES AND FORFEITS		125			500			1500	1500
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	250	591	236	1,000	2399	239	3000	601
INTEREST EARNINGS		250	591	236	1,000	2399	239	3000	601
CONTRIBUTIONS-PRIVATE	3460								
CONTRIB-OTHER	3469	166			667			2000	2000
CONTRIBUTIONS-PRIVAT		166			667			2000	2000
MISCELLANEOUS		416	591	142	1,667	2399	143	5000	2601
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF REAL ESTATE	3920								
SALE OF EQUIPMENT	3940								
INSURANCE REIMB-STORM	3962								
REFUND & RECOVERY	3965								
CAPITAL LEASE PROCEEDS	3970								
NOTE PROCEEDS	3975								
FIRE STATION	3975 03								

NOTE PROCEEDS									
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	75,837			303,349			910048	910048
BEGINNING CASH BALANC		75,837			303,349			910048	910048
REVENUES		103,933	591		415,733	2399		1247200	1244801

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
FAUS GRANT(LINC#1)	2331								
FAUS GRANT(LINC#2)	2332								
FAUS GRANT(CLASSIC DR)	2334								
FAUS GRANT(S.28TH)	2335								
FAUS GRANT(LINC#4)	2336								
FEDERAL GRANTS									
STATE-SHARED REVENUE	260B								
MUNICIPAL AID	2650	3,750	22026	587	15,000	44960	299	45000	40
STATE-SHARED REVENUE		3,750	22026	587	15,000	44960	299	45000	40
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	41	27	65	167	271	162	500	229
INTEREST EARNINGS		41	27	65	167	271	162	500	229
CONTRIBUTIONS-PUBLIC	3450								
CONTRIB-USM-CLASSIC DR	3452								
CONTRIBUTIONS-FORREST	3455								
CONTRIBUTIONS-PUBLIC									
MISCELLANEOUS		41	27	65	167	271	162	500	229
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
T/F '99 TAX INCR CONST	3800 103								
T/F '93 STREETS,DRAINS	3800 110								
T/F MUN.ROAD & BRIDGE	3800 72								
T/F '92 PARKS,REC,STS.	3800 97								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
TIF DEPOSIT/PROCEEDS	3971								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	11,149			44,597			133790	133790

BEGINNING CASH BALANC		11,149			44,597			133790	133790
REVENUES		14,940	22053	147	59,763	45231	75	179290	134059

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
CHARGES FOR SERVICES	280A								
SANITATION	2950								
LAGOON DUMPING	2955	2,083	1585	76	8,333	5880	70	25000	19120
SANITATION		2,083	1585	76	8,333	5880	70	25000	19120
CHARGES FOR SERVICES		2,083	1585	76	8,333	5880	70	25000	19120
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	208	471	226	833	2158	259	2500	342
OTHER INTEREST-MMA	3407								
INTEREST EARNINGS		208	471	226	833	2158	259	2500	342
RENTS AND ROYALTIES	3410								
EQUIPMENT	3419								
RENTS AND ROYALTIES									
MISCELLANEOUS		208	471	226	833	2158	259	2500	342
ENTERPRISE ACCOUNTS	360A								
TAPS	3610								
SEWERAGE TREATMENT	3720								
METER RELOCATION	3730								
MISCELLANEOUS	3790								
ENTERPRISE ACCOUNTS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F WATER & SEWER B&I	3800 10								
T/F WATER & SEWER	3800 11	741,666	779167	105	2,966,667	3116667	105	8900000	5783333
T/F CUSTOMER METER	3800 24								
TRANSFERS FROM OTHR		741,666	779167	105	2,966,667	3116667	105	8900000	5783333
TRANSFERS		741,666	779167	105	2,966,667	3116667	105	8900000	5783333
NON-REVENUE RECEIPTS	390A								
SALE OF EQUIPMENT	3940								
SALE OF SCRAP MATERIAL	3943					1514			1514-
SALE OF MISC. ITEMS	3945								
REFUND & RECOVERY	3965					100			100-
RECOVERY OF DAMAGE CLAI	3967								
CAPITAL LEASE PROCEEDS	3970								

NON-REVENUE RECEIPTS						1614			1614-
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	139,070			556,283			1668849	1668849
BEGINNING CASH BALANC		139,070			556,283			1668849	1668849
REVENUES		883,029	781223	88	3,532,116	3126319	88	10596349	7470030

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405			250			950			950-
OTHER INTEREST-MMA	3407			58			311			311-
TREASURY NOTES	3409									
INTEREST EARNINGS				308			1261			1261-
MISCELLANEOUS				308			1261			1261-
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F '13 W&S BOND CONST	3800	105								
T/F WATER & SEWER '06	3800	11A	20,833			83,333	250000	300	250000	
T/F WATER & SEWER '12	3800	11B	72,083	72083	100	288,333	288333	100	865000	576667
T/F WATER & SEWER '13	3800	11C	104,583	104583	100	418,333	418333	100	1255000	836667
T/F WATER & SEWER '16	3800	11D		244250			977000			977000-
T/F '10 W&S GO BONDS	3800	11GO	20,000	20000	100	80,000	80000	100	240000	160000
T/F WTR/SWR(METER GO)	3800	11M	53,333	53333	100	213,333	213333	100	640000	426667
T/F W&S '16 REF BOND	3800	11REF	104,166	125000	120	416,667	250000	59	1250000	1000000
T/F W&S B&I USA YEAST	3800	15								
T/F W & S CONTINGENCY	3800	17	244,250			977,000			2931000	2931000
T/F WATER METER PROJEC	3800	78								
T/F '12 W&S REV BOND C	3800	94								
T/F '10 W&S GO BONDS	3800	99								
TRANSFERS FROM OTHR			619,250	619250	100	2,477,000	2477000	100	7431000	4954000
TRANSFERS			619,250	619250	100	2,477,000	2477000	100	7431000	4954000
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
BOND PROCEEDS	3912									
BOND PREMIUM	3913									
ACCRUED INTEREST	3915									
SALE OF BONDS										
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999		584,310			2,337,241			7011723	7011723
BEGINNING CASH BALANC			584,310			2,337,241			7011723	7011723
REVENUES			1,203,560	619558	51	4,814,241	2478261	51	14442723	11964462

CITY OF HATTIESBURG
011011 - WATER & SEWER REVENUES REVENUE REPORT 2/01/17
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
LICENSES, PERMITS & FEES	220A									
OTHER PERMITS & FEES	2230									
NSF CHECK FEE	2290		333	40	12	1,333	960	72	4000	3040
OTHER PERMITS & FEES			333	40	12	1,333	960	72	4000	3040
LICENSES, PERMITS & F			333	40	12	1,333	960	72	4000	3040
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405		291	434	149	1,167	1631	139	3500	1869
INTEREST EARNINGS			291	434	149	1,167	1631	139	3500	1869
MISCELLANEOUS			291	434	149	1,167	1631	139	3500	1869
ENTERPRISE ACCOUNTS	360A									
METERED WATER SALES	3600									
RESIDENTIAL WATER-NO T	3600	01	450,000	433952	96	1,800,000	1917908	106	5400000	3482092
NON-RESIDENTIAL WATER	3600	011	83,333	122661	147	333,333	693693	208	1000000	306307
TAXABLE WATER SALES	3600	02	250,000	227720	91	1,000,000	994894	99	3000000	2005106
TAXABLE WATER-USA YEAS	3600	03	14,166			56,667	47038	83	170000	122962
METERED WATER SALES			797,500	784333	98	3,190,000	3653533	114	9570000	5916467
WATER TAPS	3610		14,166	16163	114	56,667	26349	46	170000	143651
WATER TURN-ON FEE	3620		4,166	1830	43	16,667	13530	81	50000	36470
SEWER TAPS	3625		3,333	3000	90	13,333	9210	69	40000	30790
SEWER CHARGES	3630									
NON-RESIDENTIAL SEWER	3630	01	255,916	310529	121	1,023,667	1191475	116	3071000	1879525
RESIDENTIAL SEWER	3630	02	450,000	426331	94	1,800,000	1868829	103	5400000	3531171
LAMAR PARK SEWER	3630	03	16,666	19351	116	66,667	64377	96	200000	135623
MARSHALL DURBIN SEWER	3630	04	37,500	38599	102	150,000	146762	97	450000	303238
PETAL SEWER	3630	05	37,500	29681	79	150,000	121593	81	450000	328407
HERCULES	3630	06	166			667	49	7	2000	1951
PBRSWMA-LEACHATE	3630	07	291	392	134	1,167	1327	113	3500	2173
ZEON CHEMICALS	3630	08	2,083	1788	85	8,333	3512	42	25000	21488
USA YEAST SEWER	3630	09	29,166			116,667	86247	73	350000	263753
DAIRY FRESH SEWER	3630	10	6,250	7400	118	25,000	32536	130	75000	42464
OTHER SPEC SWR CONTRAC	3630	11	7,500			30,000			90000	90000
SEWER CHARGES			843,041	834072	98	3,372,167	3516706	104	10116500	6599794
SEWERAGE TREATMENT	3720									
ENTERPRISE ACCOUNTS			1,662,208	1639399	98	6,648,833	7219327	108	19946500	12727173
NON-REVENUE RECEIPTS	390A									
REFUND & RECOVERY	3965						152			152-

NON-REVENUE RECEIPTS						152			152-
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES		1,662,833	1639873	98	6,651,333	7222070	108	19954000	12731930

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
FORREST CTY	2705								
CITY/COUNTY-SHARED RE									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		1			3			3-
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS			1			3			3-
MISCELLANEOUS			1			3			3-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F '99 TAX INCRE CONS	3800 103								
T/F TAX COLLECTORS-GPT	3800 27								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES			1			3			3-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
CITY/COUNTY-SHARED REVEN	270B									
PROPERTY TAX DISTR-SUNB	2728									
KOHLER DEBT.SER-FORREST	2730		434			1,737			5210	5210
CITY/COUNTY-SHARED RE			434			1,737			5210	5210
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405		125	94	75	500	447	89	1500	1053
OTHER INTEREST-MMA	3407									
TREASURY NOTES	3409									
INTEREST EARNINGS			125	94	75	500	447	89	1500	1053
RENTS AND ROYALTIES	3410									
BUILDING	3412									
KOHLER	3412	17								
ABILITYWORKS INC(ALLI	3412	19								
OTHER BLDG. RENT	3412	99								
BUILDING										
RENTS AND ROYALTIES										
MISCELLANEOUS			125	94	75	500	447	89	1500	1053
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F GENERAL FUND	3800	01								
T/F SPEC.SALES TAX	3800	107	10,426			41,707			125120	125120
T/F TAX COLLECTORS-GPT	3800	27	224,250	558019	248	897,000	673729	75	2691000	2017271
T/F INDUSTRIAL PARK DE	3800	87								
T/F IND.PARK (KOHLER)	3800	87K	22,850			91,403	274211	300	274210	1-
T/F IND.PARK (SUNBEAM)	3800	87S								
T/F D/T LIGHTING	3800	90								
T/F MDB CAPITAL PROJEC	3800	96								
TRANSFERS FROM OTHR			257,527	558019	216	1,030,110	947940	92	3090330	2142390
TRANSFERS			257,527	558019	216	1,030,110	947940	92	3090330	2142390
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
SALE OF BONDS	3912									
BOND PREMIUM	3913									
ACCRUED INT-RFDG BONDS	3915									

SALE OF BONDS									
SALE OF REAL ESTATE-SAC	3920	17,969	57550	320	71,877	57550	80	215630	158080
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS		17,969	57550	320	71,877	57550	80	215630	158080
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	298,762			1,195,049			3585148	3585148
BEGINNING CASH BALANC		298,762			1,195,049			3585148	3585148
REVENUES		574,818	615663	107	2,299,273	1005937	43	6897818	5891881

CITY OF HATTIESBURG

014014 - SCHOOL FUND REVENUES

REVENUE REPORT

ALL FUNDS

4 MONTHS ENDING 01/31/17

2/01/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27		2883454			3493405			3493405-
T/F TAX COLL-GPT-'88 B	3800 27SB		375119			454960			454960-
TRANSFERS FROM OTHR			3258573			3948365			3948365-
TRANSFERS			3258573			3948365			3948365-
REVENUES			3258573			3948365			3948365-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
OTHER INTEREST-MMA	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS									
MISCELLANEOUS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F 2002 USA YEAST PRO	3800 106								
T/F WATER & SEWER	3800 11								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PREMIUM	3913								
ACCRUED INT-'02 W&S BO	3915								
SALE OF BONDS									
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES									

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
SAVINGS ACCOUNT/MMA	3405								
INTEREST EARNINGS									
P&FD&R EMPLOYEE CONTRIB	3470		416			1815			1815-
MISCELLANEOUS			416			1815			1815-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27		236389			285754			285754-
TRANSFERS FROM OTHR			236389			285754			285754-
TRANSFERS			236389			285754			285754-
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES			236804			287570			287570-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
JUST.-TREAS(ATF)	2306								
JUST.-HURRICANE RELIEF(	2308								
FEDERAL GRANTS									
STATE GRANTS	250B								
CRIME PREVENTION PROGRA	2516								
PR VOTECH TRAINING	2517								
ATT'Y GEN./TOBACCO REVE	2525								
STATE GRANTS									
CHARGES FOR SERVICES	280A								
PUBLIC SAFETY	2850								
K-9 TRAINING	2872								
BAD CHECK PROC. FEES	2875		40			40			40-
DISPATCHER TRNG. FEES	2890								
SWORN TRNG FEES	2891								
NON-SWORN TRNG FEES	2892								
METRO CRIME SCENE FEES	2895								
METRO CRIME SCENE-LAM	2895 01								
METRO CRIME SCENE-PET	2895 02								
METRO CRIME SCENE-FOR	2895 03								
METRO CRIME SCENE-PER	2895 04								
METRO CRIME SCENE F									
PUBLIC SAFETY			40			40			40-
CHARGES FOR SERVICES			40			40			40-
FINES AND FORFEITS	330A								
DARE CITY COURT COSTS	3321		985			3834			3834-
NARC.FORFEITURES-POLICE	3323					6349			6349-
FORF-FED(TREAS/IRS/ATF)	3324								
FORF-FED(JUSTICE/DEA)	3326		1361			2399			2399-
FINES AND FORFEITS			2347			12582			12582-
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
SAVINGS ACCOUNT/MMA	3405		16			64			64-
INTEREST EARNINGS			16			64			64-
CONTRIBUTIONS-PUBLIC	3450								
CONTRIB-LAMAR CNTY	3451								
CONTRIB-USM	3452								

CONTRIB-PETAL	3453								
CONTRIB-METRO CRIME ST	3454								
CONTRIBUTIONS-FORREST	3455								
CONTRIBUTIONS-OTHER	3459								
CONTRIBUTIONS-PUBLIC									
CONTRIBUTIONS-PRIVATE	3460								
CONTRIB-D.A.R.E.	3461								
CONTRIB-OTHER	3469								
CONTRIBUTIONS-PRIVAT									
MISCELLANEOUS			16			64			64-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF EQUIPMENT	3940								
SALE OF CANINES	3946								
INSURANCE REIMB-STORM	3962								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	29,188			116,754			350262	350262
BEGINNING CASH BALANC		29,188			116,754			350262	350262
REVENUES		29,188	2403	8	116,754	12686	10	350262	337576

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
FORREST CTY	2705	11,894			47,576			142728	142728
CITY/COUNTY-SHARED RE		11,894			47,576			142728	142728
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		8			33			33-
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS			8			33			33-
MISCELLANEOUS			8			33			33-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27	11,894			47,576			142728	142728
T/F '02 TIF CONSTR-SO.	3800 88								
T/F '14 TIF CONSTR-SO.	3800 91								
TRANSFERS FROM OTHR		11,894			47,576			142728	142728
TRANSFERS		11,894			47,576			142728	142728
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	16,250			65,000			195000	195000
BEGINNING CASH BALANC		16,250			65,000			195000	195000
REVENUES		40,038	8		160,152	33		480456	480423

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
LAMAR CTY	2708								
CITY/COUNTY-SHARED RE									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		3			11			11-
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS			3			11			11-
MISCELLANEOUS			3			11			11-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27								
T/F '04 TIF CONSTR-HOM	3800 89								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES			3			11			11-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	6	5	83	25	13	52	75	62
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS		6	5	83	25	13	52	75	62
MISCELLANEOUS		6	5	83	25	13	52	75	62
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
T/F TAX COLLECTORS-GPT	3800 27	18,630			74,520			223560	223560
T/F 2003 TIF CONST-CHA	3800 90								
TRANSFERS FROM OTHR		18,630			74,520			223560	223560
TRANSFERS		18,630			74,520			223560	223560
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	8,333			33,333			100000	100000
BEGINNING CASH BALANC		8,333			33,333			100000	100000
REVENUES		26,969	5		107,878	13		323635	323622

023023 - 2007 TIF B&I-T/C REVENUES

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

2/01/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
LAMAR CTY	2708	9,416			37,667			113000	113000
CITY/COUNTY-SHARED RE		9,416			37,667			113000	113000
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	9			38	2	5	115	113
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS		9			38	2	5	115	113
MISCELLANEOUS		9			38	2	5	115	113
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27	27,513			110,055			330166	330166
T/F 2007 TIF CONST-TUR	3800 91								
TRANSFERS FROM OTHR		27,513			110,055			330166	330166
TRANSFERS		27,513			110,055			330166	330166
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	833			3,333			10000	10000
BEGINNING CASH BALANC		833			3,333			10000	10000
REVENUES		37,773			151,094	2		453281	453279

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
LAMAR CTY	2708								
CITY/COUNTY-SHARED RE									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		4			16			16-
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS			4			16			16-
MISCELLANEOUS			4			16			16-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27	5,947			23,792			71375	71375
T/F 2008 TIF CONST-L/C	3800 90								
TRANSFERS FROM OTHR		5,947			23,792			71375	71375
TRANSFERS		5,947			23,792			71375	71375
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	11,666			46,667			140000	140000
BEGINNING CASH BALANC		11,666			46,667			140000	140000
REVENUES		17,614	4		70,458	16		211375	211359

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

025025 - 2011 TIF B&I-KOHLS REVENUES 2/01/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
LAMAR CTY	2708	2,512			10,048			30144	30144
CITY/COUNTY-SHARED RE		2,512			10,048			30144	30144
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405					2			2-
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS						2			2-
MISCELLANEOUS						2			2-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27	5,541	50000	902	22,167	50000	225	66500	16500
T/F 2011 TIF CONST-KOH	3800 91								
TRANSFERS FROM OTHR		5,541	50000	902	22,167	50000	225	66500	16500
TRANSFERS		5,541	50000	902	22,167	50000	225	66500	16500
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
APPROPRIABLE FUND BALAN	3999	916			3,667			11000	11000
NON-REVENUE RECEIPTS		916			3,667			11000	11000
REVENUES		8,970	50000	557	35,881	50002	139	107644	57642

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
CITY/COUNTY-SHARED REVEN	270B								
LAMAR CTY	2708								
CITY/COUNTY-SHARED RE									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
OTHER INTEREST	3407								
TREASURY NOTES	3409								
INTEREST EARNINGS									
MISCELLANEOUS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27								
T/F 2016 TIF CONST-WHI	3800 91					140071			140071-
TRANSFERS FROM OTHR						140071			140071-
TRANSFERS						140071			140071-
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965		1			1			1-
NON-REVENUE RECEIPTS			1			1			1-
REVENUES			1			140072			140072-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
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	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
GENERAL PROPERTY TAXES	200A									
CURRENT YEAR TAXES	2000									
REALTY	2001									
REALTY-CITY	2001	CITY		3404805			3706362			3706362-
REALTY-O/S SCHOOL DIS	2001	OSD								
REALTY-SCHOOL	2001	SCHL		2959207			3270713			3270713-
REALTY-W/I SCHOOL DIS	2001	WSD								
REALTY				6364013			6977075			6977075-
HOMESTEAD LOSS	2005			15435-			19509-			19509
EXEMPT-TAX LOSS REIMB.	2006									
PERSONALTY-AUTO/RAILRO	2010									
PRSNLTY AUTO-CITY	2010	CITY		137951			485356			485356-
PRSNLTY AUTO-O/S SCHO	2010	OSD								
PRSNLTY RR-O/S SCHOOL	2010	OSDRR								
PRSNLTY AUTO-SCHOOL	2010	SCHL		131229			441599			441599-
PRSNLTY AUTO-W/I SCHO	2010	WSD								
PERSONALTY-AUTO/RAI				269180			926955			926955-
PERSONALTY	2020									
PERSONALTY-CITY	2020	CITY		398726			479844			479844-
PERSONALTY-O/S SCHOOL	2020	OSD								
PERSONALTY-SCHOOL	2020	SCHL		181520			187445			187445-
PERSONALTY-W/I SCHOOL	2020	WSD								
PERSONALTY				580245			667289			667289-
RENTAL VEHICLES	2026									
RENTAL VEHICLES-GENER	2026	GEN								
RENTAL VEHICLES										
CURRENT YEAR TAXES				7198003			8551810			8551810-
PRIOR YEAR TAXES	2030									
NON-EXEMPT REALTY P/Y	2031			4076-			14323			14323-
EXEMPT REALTY P/Y	2035			3991-			1845-			1845
PERSONALTY-AUTO P/Y	2040			14764			136387			136387-
PERSONALTY-RAIL CAR P/	2045									
PERSONALTY P/Y	2050			259			11595			11595-
PRIOR YEAR TAXES				6956			160459			160459-
GENERAL PROPERTY TAXE				7204960			8712269			8712269-
TAXES-OTHER	206A									
INT/PENALTY ON DEL. TAX	2100			7001			48936			48936-
EXCESS BID-PROP. TAXES	2110									

TAXES-OTHER			7001			48936			48936-
LICENSES, PERMITS & FEES	220A								
OTHER PERMITS & FEES	2230								
CITY CLERK FEES	2232								
OTHER PERMITS & FEES									
LICENSES, PERMITS & F									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		69			320			320-
TREASURY NOTES	3409								
INTEREST EARNINGS			69			320			320-
MISCELLANEOUS			69			320			320-
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
REVENUES			7212030			8761525			8761525-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

028028 - 2016 TIF B&I-HBRG CLINIC MIDTN 2/01/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
CITY/COUNTY-SHARED REVEN	270B									
LAMAR CTY	2708									
CITY/COUNTY-SHARED RE										
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405									
OTHER INTEREST	3407									
TREASURY NOTES	3409									
INTEREST EARNINGS										
MISCELLANEOUS										
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F TAX COLLECTORS-GPT	3800	27					75000			75000-
T/F 2016 TIF CONST-HBR	3800	91								
TRANSFERS FROM OTHR							75000			75000-
TRANSFERS							75000			75000-
NON-REVENUE RECEIPTS	390A									
REVENUES							75000			75000-

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
OTHER PERMITS & FEES	2230								
FLOWAGE FEE	2295								
OTHER PERMITS & FEES									
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
FEDERAL AVIATION ADM.	2330	115,000			460,000	101371	22	1380000	1278629
FEDERAL GRANTS		115,000			460,000	101371	22	1380000	1278629
STATE GRANTS	250B								
MDOT-MULTIMODAL GRANT	2509								
AIRPORT GRANT	2540								
STATE GRANTS									
STATE-SHARED REVENUE	260B								
AIRPLANE REGISTRATION T	2655								
STATE-SHARED REVENUE									
CITY/COUNTY-SHARED REVEN	270B								
AIRPORT ASSIST-FORREST	2725								
CITY/COUNTY-SHARED RE									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		38			81			81-
INTEREST EARNINGS			38			81			81-
RENTS AND ROYALTIES	3410								
BUILDING	3412								
YORK INT/JOHNSON CONT	3412 12								
LORESCO INC	3412 13					200			200-
COCA COLA (1906 COMPA	3412 14								
H'BURG HANGER ASSN.	3412 18								
SOUTHEAST AVIATION SE	3412 21		5607			9619			9619-
SE AVIATION BLDG LAND	3412 22								
OTHER BLDG. RENT	3412 99								
BUILDING			5607			9819			9819-
MINERAL LEASE-AIRPORT	3418								
RENTS AND ROYALTIES			5607			9819			9819-
MISCELLANEOUS			5645			9900			9900-
TRANSFERS	380A								

TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF REAL ESTATE	3920								
SALE OF TIMBER	3923								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES		115,000	5645	4	460,000	111271	24	1380000	1268729

CITY OF HATTIESBURG
050050 - 2015A TIF B&I-RIDGE/TURTLE CRK REVENUE REPORT 2/01/17
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
CITY/COUNTY-SHARED REVEN	230B									
LAMAR COUNTY	2708						7065			7065-
CITY/COUNTY-SHARED RE							7065			7065-
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F TAX COLLECTORS-GPT	3800	27					94000			94000-
T/F TIF CONSTRUCTION	3800	91					61020			61020-
TRANSFERS FROM OTHR							155020			155020-
TRANSFERS							155020			155020-
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
BOND PROCEEDS	3912									
BOND PREMIUM	3913									
ACCRUED INTEREST	3915									
SALE OF BONDS										
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999									
BEGINNING CASH BALANC										
REVENUES							162085			162085-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
CITY/COUNTY SHARED REVEN	230B									
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F TAX COLLECTORS-GPT	3800	27					20000			20000-
T/F TIF CONSTRUCTION	3800	91					10500			10500-
TRANSFERS FROM OTHR							30500			30500-
TRANSFERS							30500			30500-
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
BOND PROCEEDS	3912									
BOND PREMIUM	3913									
ACCRUED INTEREST	3915									
SALE OF BONDS										
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999									
BEGINNING CASH BALANC										
REVENUES							30500			30500-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
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	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
FHWA-STORM RELATED	2323								
FEMA RELIEF	2337								
FEDERAL GRANTS									
STATE GRANTS	250B								
STATE BOND FDS	2501								
STATE BOND FDS/GORDON	2501 01								
STATE BOND FDS/GORDON	2501 02								
STATE BOND FDS/LLT EDW	2501 03								
STATE BOND FDS									
GORDON CRK PATH/PAT HAR	2502								
GORDON CRK SDWLKS/HBURG	2503								
MDIP-HBRG CLINIC ACCESS	2530	34,499			137,998			413993	413993
WEATHERSBY ROAD	2533								
MDOT-MPO GRANT	2555								
MDOT-BONHOMIE/TATUM SI	2555 01								
MDOT-TRAFFIC SIGNALS	2555 02								
MDOT-NEW TARGET	2555 03								
MDOT-#1 HARDY ST WIDEN	2555 04		45648			45648			45648-
MDOT-LLT-US 49 TO MAIN	2555 05	27,766			111,068	2186	1	333203	331017
MDOT-#2 HARDY ST WIDEN	2555 06								
MDOT-TRAF SIGNAL-SO.PO	2555 07								
MDOT-ARRA-PINE B'WAY T	2555 08								
MDOT-SIDEWALKS-SCHOOLS	2555 09								
MDOT-WESTERN BELTWAY	2555 10	4,500			18,000			54000	54000
MDOT-RAILROAD CROSSING	2555 11								
MDOT-FUTURE PROJECT	2555 12								
MDOT-B'WAY,MOBILE TE	2555 13	15,966			63,867	5224	8	191600	186376
MDOT-34TH AVE TE	2555 14	1,291			5,167			15500	15500
MDOT-4TH ST PHASE I	2555 15								
MDOT-4TH ST PHASE II	2555 16	72,938			291,755			875264	875264
MDOT-MARTIN LUTHER KIN	2555 17								
MDOT-SIDEWALKS-HAWKINS	2555 18	16,541			66,167			198500	198500
MDOT-SIDEWALKS-TUSCAN	2555 19	25,390			101,561			304684	304684
MDOT-LLT DEPOT TO CHAI	2555 20	43,197			172,791			518373	518373
MDOT-J ED TURNER BIKE	2555 21								
MDOT-MPO GRANT		207,593	45648	21	830,375	53057	6	2491124	2438067
STATE GRANTS		242,093	45648	18	968,372	53057	5	2905117	2852060
CITY/COUNTY-SHARED REVEN	270B								
FORREST - INFRAST. IMPR	2707								

PRO-RATA CTY RD TAX-FOR	2710	50,000	110591	221	200,000	129095	64	600000	470905
PRO-RATA CTY RD TAX-LAM	2715	100,000	127070	127	400,000	169763	42	1200000	1030237
MISCELLANEOUS GRANTS	2740								
CITY/COUNTY-SHARED RE		150,000	237661	158	600,000	298858	49	1800000	1501142
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
INTEREST EARNINGS									
CONTRIBUTIONS-PUBLIC	3450								
CONTRIBUTIONS-FORREST	3455								
CONTRIB-RAILS TO TRAIL	3457		36264			36264			36264-
CONTRIBUTIONS-PUBLIC			36264			36264			36264-
CONTRIBUTIONS-PRIVATE	3460								
CONTRIB-RAILROAD PROJE	3461								
CONTRIB-CHAUVET SQ.PRO	3469								
CONTRIBUTIONS-PRIVAT									
MISCELLANEOUS			36264			36264			36264-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F W & S CONSTRUCTION	3800 75								
T/F INDUSTRIAL PARK DE	3800 87								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF TIMBER	3923								
REFUND & RECOVERY	3965								
REFUND-COST SHARING	3969								
CAPITAL LEASE PROCEEDS	3970								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	200,948			803,794			2411381	2411381
BEGINNING CASH BALANC		200,948			803,794			2411381	2411381
REVENUES		593,041	319573	53	2,372,166	388179	16	7116498	6728319

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
UMTA-MASS TRANS-OPER.C/	2340	39,571	27441	69	158,287	147108	92	474861	327753
UMTA-MASS TRANS-CAPTL.	2341	43,750	256834	587	175,000	311554	178	525000	213446
UMTA-MASS TRANS-PLANNIN	2342								
UMTA-MASS TRANS-P/Y	2343								
UMTA-MASS TRANS-PREV.C/	2344	13,791	14035	101	55,167	61237	111	165500	104263
ARRA-MASS TRANS	2345								
JARC-MASS TRANS	2346	12,840			51,363			154090	154090
FEDERAL GRANTS		109,954	298310	271	439,817	519899	118	1319451	799552
STATE GRANTS	250B								
MDOT GRANT(PLANNING/CAP	2555								
STATE GRANTS									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	8	1	12	33	27	81	100	73
INTEREST EARNINGS		8	1	12	33	27	81	100	73
MASS TRANSIT CHARGES	3520								
BUS FARES-FIXED ROUTES	3525	3,750	1954	52	15,000	12392	82	45000	32608
BUS FARES-DEMAND RES-D	3527								
ADVERTISING	3535	250	247	98	1,000	474	47	3000	2526
MISC. CHARGES & FEES	3540								
MASS TRANSIT CHARGES		4,000	2201	55	16,000	12867	80	48000	35133
MISCELLANEOUS		4,008	2202	54	16,033	12893	80	48100	35207
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01	19,166			76,667			230000	230000
T/F TAX COLLECTORS-GPT	3800 27	17,833	39464	221	71,333	47648	66	214000	166352
TRANSFERS FROM OTHR		37,000	39464	106	148,000	47648	32	444000	396352
TRANSFERS		37,000	39464	106	148,000	47648	32	444000	396352
NON-REVENUE RECEIPTS	390A								
SALE OF EQUIPMENT	3940								
SALE OF SCRAP MATERIAL	3943								
VENDING COMM./REFUNDS	3964								
REFUND & RECOVERY	3965								
RECOVERY OF DAMAGE CLAI	3967								

NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999	27,543			110,173			330519	330519
BEGINNING CASH BALANC		27,543			110,173			330519	330519
REVENUES		178,505	339976	190	714,023	580440	81	2142070	1561630

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
FEDERAL GRANTS	230B									
CDBG-USA YEAST	2336									
FEMA RELIEF	2337									
CDBG-WIS PAK	2338									
CDBG-WATER PLANT 2 RENO	2339									
MDA DIP DEWS WTR LINES	2352									
US CORPS OF ENGR PROJEC	2354									
LAGOON AERATORS-DOE ARR	2357									
COUNTRY CLUB WATER-EPA	2358									
NRCS EROSION CONTROL GR	2512									
I.P.-HYBERPLASTIC-MDA G	2514									
FEDERAL GRANTS										
CITY/COUNTY-SHARED REVEN	270B									
FORREST CTY	2705									
PETAL	2737									
LAMAR PARK	2738									
CITY/COUNTY-SHARED RE										
MISCELLANEOUS	340A									
INTEREST EARNINGS	3400									
CERTIFICATES OF DEPOSI	3402									
SAVINGS ACCOUNT/MMA	3405		250	775	310	1,000	2449	244	3000	551
INTEREST EARNINGS			250	775	310	1,000	2449	244	3000	551
RENTS AND ROYALTIES	3410									
LAND	3411									
TRITELL COMMUNICATION	3411	12								
AT&T/CINGULAR(WTR WOR	3411	13								
SBA STRUCTURES (WM CA	3411	14	1,250			5,000	5537	110	15000	9463
CCATT HOLDINGS-WATER	3411	15	416	652	156	1,667	2610	156	5000	2390
AP WIRELESS INVESTMEN	3411	16	19,999			79,999	119999	150	239998	119999
LAND			21,666	652	3	86,666	128146	147	259998	131852
BUILDING	3412									
USM CELLULAR ONE RENT	3412	41								
TH INC MANAGEMENT(USM	3412	42								
VERIZON-USM WATER TAN	3412	43								
CELLULAR SOUTH(MULTI	3412	44								
BUILDING										
RENTS AND ROYALTIES			21,666	652	3	86,666	128146	147	259998	131852
CONTRIBUTIONS-PRIVATE	3460									

CONTRIB-USA YEAST SWR	3461									
CONTRIBUTIONS-PRIVAT										
MISCELLANEOUS			21,916	1428	6	87,666	130594	148	262998	132404
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F GENERAL FUND	3800	01								
T/F WATER & SEWER O &	3800	09								
T/F WATER & SEWER B&I	3800	10								
T/F WATER & SEWER	3800	11	166,666	452003	271	666,667	2408078	361	2000000	408078-
T/F W & S CONTINGENCY	3800	17								
T/F COM.DEV.BLK.GRANT	3800	82								
T/F INDUSTRIAL PARK DE	3800	87								
TRANSFERS FROM OTHR			166,666	452003	271	666,667	2408078	361	2000000	408078-
TRANSFERS			166,666	452003	271	666,667	2408078	361	2000000	408078-
NON-REVENUE RECEIPTS	390A									
REFUND & RECOVERY	3965									
CAPITAL LEASE PROCEEDS	3970									
NOTE PROCEEDS	3975									
SRF LOAN PROCEEDS-#1	3980									
SRF LOAN PROCEEDS-#2	3985									
SRF LOAN PROCEEDS-#3	3987									
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999		125,000			500,000			1500000	1500000
BEGINNING CASH BALANC			125,000			500,000			1500000	1500000
REVENUES			313,583	453430	144	1,254,333	2538672	202	3762998	1224326

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
CHARGES FOR SERVICES	280A								
CULTURE AND RECREATION	3100								
SAENGER RESTORA/MAINT	3125								
SAENGER CONCESSIONS	3132								
GIFT SHOP CONCESSIONS	3135								
TCKT MASTER/IN-HOUSE P	3136								
MCNAIR REC CTR USE FE	3140	89	150	168	358	750	209	1075	325
SIGLER CENTER USE FEE	3141	337	210	62	1,352	1085	80	4055	2970
C.E.ROY/5TH ST.C.C.USE	3142	630	469	74	2,520	2029	80	7561	5532
JDS C.C. USE FEE	3143	688	1269	184	2,756	5369	194	8267	2899
SAENGER THEATER USE FE	3144								
CULTURAL CTR USE FEE	3146	375	50-	13	1,500	1825	121	4500	2675
N R BURGER/6TH ST CC U	3148								
CULTURE AND RECREATI		2,121	2048	96	8,486	11058	130	25458	14401
CHARGES FOR SERVICES		2,121	2048	96	8,486	11058	130	25458	14401
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405	20	44	220	83	218	262	250	32
INTEREST EARNINGS		20	44	220	83	218	262	250	32
RENTS AND ROYALTIES	3410								
EQUIPMENT	3419								
RENTS AND ROYALTIES									
CONTRIBUTIONS-PUBLIC	3450								
CONTRIBUTIONS-FORREST	3455								
CONTRIBUTIONS-PUBLIC									
CONTRIBUTIONS-PRIVATE	3460								
MISCELLANEOUS		20	44	220	83	218	262	250	32
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01	82,500			330,000			990000	990000
TRANSFERS FROM OTHR		82,500			330,000			990000	990000
TRANSFERS		82,500			330,000			990000	990000
NON-REVENUE RECEIPTS	390A								
COMMISSIONS-TCKTS/CONCE	3963								
REFUND & RECOVERY	3965	50			200	150-	75	600	750
RECOVERY OF DAMAGE CLAI	3967								

NON-REVENUE RECEIPTS		50			200	150-	75	600	750
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	36,603			146,413			439239	439239
BEGINNING CASH BALANC		36,603			146,413			439239	439239
REVENUES		121,295	2092	1	485,182	11126	2	1455547	1444421

CITY OF HATTIESBURG

078078 - '09 WATER METER PROJ REVENUES — REVENUE REPORT — 2/01/17

ALL FUNDS

4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
SAVINGS ACCOUNT/MMA	3405								
INTEREST EARNINGS									
MISCELLANEOUS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
NOTE PROCEEDS	3975								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES									

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB		CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200									
INTER-GOVERNMNTL REVENUE	230A									
FEDERAL GRANTS	230B									
CDBG-R ARRA (WOODLEY SD	2338									
CDBG-ENT.-DRAINAGE	2365	DRG								
CDBG-ENT.-EMER.REHAB.	2365	ER								
CDBG-ENT.-FULL REHAB.	2365	FR								
CDBG-R ARRA (WOODLEY										
HOME ENTITLEMENT-1995	2367									
HOME ENTIT-DOWNPAYMENT	2367	DA								
HOME ENTIT-FULL REHAB.	2367	FR								
HOME ENTITLEMENT-199										
CDBG-ENTITLEMENT-2016	2385									
CDBG-ENT.-ADMINISTRATI	2385	ADM								
CDBG-ENT.-DEMOLITION	2385	DEM								
CDBG-ENT.-ECONOMIC DEV	2385	EC								
CDBG-ENT.-EMER.REHAB.	2385	ER								
CDBG-ENT.-FACADE PROG	2385	FAC								
CDBG-ENT.-FULL REHAB.	2385	FR								
CDBG-ENT.-HOMELESS/SP	2385	HL/SP								
CDBG-ENT.-HOUSING PROG	2385	HP								
CDBG-ENT.-MICRO ENTERP	2385	ME								
CDBG-ENT.-PROJECT DELI	2385	PD								
CDBG-ENTITLEMENT-201										
HOME ENTITLEMENT-2016	2387									
HOME ENTIT-ADMINISTRAT	2387	ADM								
HOME ENTIT-CHDO	2387	CHDOSA								
HOME ENTIT-DWNPYMNT AS	2387	DA								
HOME ENTIT-FULL REHAB.	2387	FR								
HOME ENTIT-HOUSING PRO	2387	HP								
HOME ENTITLEMENT-201										
HOME ENTITLEMENT-1997	2389									
HOME ENTIT-AFFORD.HOUS	2389	AH								
HOME ENTIT-CHDO	2389	CHDO								
HOME ENTIT-DOWNPAYMENT	2389	DA								
HOME ENTIT-FULL REHAB.	2389	FR								
HOME ENTITLEMENT-199										
CDBG-ENTITLEMENT-1997	2391									
CDBG-ENT.-DEMOLITION	2391	DEM								
CDBG-ENT.-EMER.REHAB.	2391	ER								
CDBG-ENT.-FULL REHAB.	2391	FR								

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 CDBG-ENT.-NEIGHBORHD G 2391  NG
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   CDBG-ENTITLEMENT-199
HOME ENTITLEMENT-1998   2393
 HOME ENTIT-AFFORD.HOUS 2393  AH
 HOME ENTIT-CHDO        2393  CHDO
 HOME ENTIT-DOWNPAYMENT 2393  DA
 HOME ENTIT-FULL REHAB. 2393  FR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-199
CDBG-ENTITLEMENT-1998   2395
 CDBG-ENT.-ADMINISTRATI 2395  ADM
 CDBG-ENT.-DEMOLITION   2395  DEM
 CDBG-ENT.-DRAINAGE     2395  DRG

 CDBG-ENT.-EATON SCHOOL 2395  EAT
 CDBG-ENT.-EMER.REHAB.  2395  ER
 CDBG-ENT.-FULL REHAB.  2395  FR
 CDBG-ENT.-NEIGHBORHD G 2395  NG
 CDBG-ENT.-PLANNING     2395  PL
 CDBG-ENT.-PUBLIC SERVI 2395  PS
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-199
HOME ENTITLEMENT-1999   2397
 HOME ENTIT-AFFORD.HOUS 2397  AH
 HOME ENTIT-CHDO ADMIN  2397  CHDOAD
 HOME ENTIT-CHDO SETASI 2397  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2397  DA
 HOME ENTIT-DA RECAPTUR 2397  DAR
 HOME ENTIT-FULL REHAB. 2397  FR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-199
CDBG-ENTITLEMENT-1999   2399
 CDBG-ENT.-ADMINISTRATI 2399  ADM
 CDBG-ENT.-BRADY ST SEW 2399  BSS
 CDBG-ENT.-DEMOLITION   2399  DEM
 CDBG-ENT.-DRAINAGE     2399  DRG
 CDBG-ENT.-EATON SCHOOL 2399  EAT
 CDBG-ENT.-EMER.REHAB.  2399  ER
 CDBG-ENT.-FULL REHAB.  2399  FR
 CDBG-ENT.-NEIGHBORHD G 2399  NG
 CDBG-ENT.-PLANNING     2399  PL
 CDBG-ENT.-PRVO         2399  PRVO
 CDBG-ENT.-PUBLIC SERVI 2399  PS
 CDBG-ENT.-SIDEWALKS    2399  SWLK
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-199
CDBG-ENTITLEMENT-2000   2401
 CDBG-ENT.-ADMINISTRATI 2401  ADM
 CDBG-ENT.-DEMOLITION   2401  DEM
 CDBG-ENT.-DRAINAGE     2401  DRG
 CDBG-ENT.-EMER.REHAB.  2401  ER
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 CDBG-ENT.-FACADE PROG  2401  FAC
 CDBG-ENT.-FULL REHAB.  2401  FR
 CDBG-ENT.-NEIGHBORHD G 2401  NG
 CDBG-ENT.-PUBLIC SERVI 2401  PS
 CDBG-ENT.-SIDEWALKS    2401  SWLK
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2000   2402
 HOME ENTIT-AFFORD.HOUS 2402  AH
 HOME ENTIT-CHDO ADMIN  2402  CHDOAD
 HOME ENTIT-CHDO SETASI 2402  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2402  DA
 HOME ENTIT-FULL REHAB. 2402  FR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2001   2403
 CDBG-ENT.-ADMINISTRATI 2403  ADM
 CDBG-ENT.-DEMOLITION   2403  DEM
 CDBG-ENT.-DRAINAGE     2403  DRG
 CDBG-ENT.-EATON SCHOOL 2403  EAT
 CDBG-ENT.-EMER.REHAB.  2403  ER
 CDBG-ENT.-FACADE PROG  2403  FAC
 CDBG-ENT.-FULL REHAB.  2403  FR
 CDBG-ENT.-D/T LIGHTING 2403  LIGHT
 CDBG-ENT.-PLANNING     2403  PL

 CDBG-ENT.-PUBLIC SERVI 2403  PS
 CDBG-ENT.-SIDEWALKS    2403  SWLK
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2001   2404
 HOME ENTIT-ADMINISTRAT 2404  ADM
 HOME ENTIT-AFFORD.HOUS 2404  AH
 HOME ENTIT-CHDO ADMIN  2404  CHDOAD
 HOME ENTIT-CHDO SETASI 2404  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2404  DA
 HOME ENTIT-FULL REHAB. 2404  FR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
HOME ENTITLEMENT-2002   2406
 HOME ENTIT-ADMINISTRAT 2406  ADM
 HOME ENTIT-AFFORD.HOUS 2406  AH
 HOME ENTIT-CHDO OPERAT 2406  CHDO
 HOME ENTIT-DOWNPAYMENT 2406  DA
 HOME ENTIT-FULL REHAB. 2406  FR
 HOME ENTIT-HOME BUYER  2406  HBE
 HOME ENTIT             2406  HE
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2002   2407
 CDBG-ENT.-ADMINISTRATI 2407  ADM
 CDBG-ENT.-ADMIN/EMER R 2407  ADMER
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 CDBG-ENT.-ADMIN/FULL R 2407  ADMFR
 CDBG ENT.-CHDO OPERATI 2407  CHDO
 CDBG-ENT.-DEMOLITION   2407  DEM
 CDBG-ENT.-DRAINAGE     2407  DRG
 CDBG-ENT.-EATON SCHOOL 2407  EAT
 CDBG-ENT.-EMER.REHAB.  2407  ER
 CDBG-ENT.-FACADE PROG  2407  FAC
 CDBG-ENT.-FULL REHAB.  2407  FR
 CDBG-ENT.-PLANNING     2407  PL
 CDBG-ENT.-PUBLIC SERVI 2407  PS
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2003   2408
 HOME ENTIT-ADMINISTRAT 2408  ADM
 HOME ENTIT-AFFORD.HOUS 2408  AH
 HOME ENTIT-CHDO OPERAT 2408  CHDO
 HOME ENTIT-DOWNPAYMENT 2408  DA
 HOME ENTIT-FULL REHAB. 2408  FR
 HOME ENTIT-REHAB.SUBRE 2408  RSC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2003   2409
 CDBG-ENT.-ADMINISTRATI 2409  ADM
 CDBG-ENT.-ADMIN/EMER R 2409  ADMER
 CDBG-ENT.-ADMIN/FULL R 2409  ADMFR
 CDBG-ENT.-ADMIN/PUBLIC 2409  ADMPS
 CDBG-ENT.-DEMOLITION   2409  DEM
 CDBG-ENT.-EMER ALERT P 2409  EAP
 CDBG-ENT.-EMER.REHAB.  2409  ER
 CDBG-ENT.-FACADE PROG  2409  FAC
 CDBG-ENT.-FULL REHAB.  2409  FR
 CDBG-ENT.-MICRO LOAN P 2409  MLP
 CDBG-ENT.-PLANNING     2409  PL
 CDBG-ENT.-PUBLIC SERVI 2409  PS
 CDBG-ENT.-REHAB.SUBREC 2409  RSC
 CDBG-ENT.-WORLD CHANGE 2409  WC

   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2004   2410
 HOME ENTIT-ADMINISTRAT 2410  ADM
 HOME ENTIT-AFFORD.HOUS 2410  AH
 HOME ENTIT-CHDO SETASI 2410  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2410  DA
 HOME ENTIT-FULL REHAB. 2410  FR
 HOME ENTIT-REHAB.SUBRE 2410  RSC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2004   2411
 CDBG-ENT.-ADMINISTRATI 2411  ADM
 CDBG-ENT.-ADMIN/FULL R 2411  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2411  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2411  ADMPS
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 CDBG-ENT.-DEMOLITION   2411  DEM
 CDBG-ENT.-EMER ALERT P 2411  EAP
 CDBG-ENT.-ENGINEERING  2411  EP
 CDBG-ENT.-FACADE PROG  2411  FAC
 CDBG-ENT.-FULL REHAB.  2411  FR
 CDBG-ENT.-HOUSING REPR 2411  HR
 CDBG-ENT.-PLANNING     2411  PL
 CDBG-ENT.-WORLD CHANGE 2411  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2005   2412
 HOME ENTIT-ADMINISTRAT 2412  ADM
 HOME ENTIT-AFFORD.HOUS 2412  AH
 HOME ENTIT-CHDO OPERAT 2412  CHDO
 HOME ENTIT-DOWNPAYMENT 2412  DA
 HOME ENTIT-FULL REHAB. 2412  FR
 HOME ENTIT-HOUSING REH 2412  HR
 HOME ENTIT-REHAB.SUBRE 2412  RSC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2005   2413
 CDBG-ENT.-ADMINISTRATI 2413  ADM
 CDBG-ENT.-ADMIN/FULL R 2413  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2413  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2413  ADMPS
 CDBG-ENT.-DEMOLITION   2413  DEM
 CDBG-ENT.-ENGINEERING  2413  EP
 CDBG-ENT.-FACADE PROG  2413  FAC
 CDBG-ENT.-FULL REHAB.  2413  FR
 CDBG-ENT.-HOUSING REPR 2413  HR
 CDBG-ENT.-PLANNING     2413  PL
 CDBG-ENT.-PUBLIC SERVI 2413  PS
 CDBG-ENT.-WORLD CHANGE 2413  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2006   2414
 HOME ENTIT-ADMINISTRAT 2414  ADM
 HOME ENTIT-AFFORD.HOUS 2414  AH
 HOME ENTIT-CHDO ADMIN  2414  CHDO
 HOME ENTIT-CHDO SETASI 2414  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2414  DA
 HOME ENTIT-HOUSING REH 2414  HR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2006   2415

 CDBG-ENT.-ADMINISTRATI 2415  ADM
 CDBG-ENT.-ADMIN/FULL R 2415  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2415  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2415  ADMPS
 CDBG-ENT.-DEMOLITION   2415  DEM
 CDBG-ENT.-DRAINAGE     2415  DRG
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 CDBG-ENT.-ENGINEERING  2415  EP
 CDBG-ENT.-FACADE PROG  2415  FAC
 CDBG-ENT.-FULL REHAB.  2415  FR
 CDBG-ENT.-HOUSING REPR 2415  HR
 CDBG-ENT.-PLANNING     2415  PL
 CDBG-ENT.-PUBLIC SERVI 2415  PS
 CDBG-ENT.-WORLD CHANGE 2415  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2007   2416
 HOME ENTIT-ADMINISTRAT 2416  ADM
 HOME ENTIT-AFFORD.HOUS 2416  AH
 HOME ENTIT-CHDO ADMIN  2416  CHDOAD
 HOME ENTIT-CHDO SETASI 2416  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2416  DA
 HOME ENTIT-FULL REHAB. 2416  FR
 HOME ENTIT-HOUSING REH 2416  HR
 HOME ENTIT-PLANNING    2416  PL
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2007   2417
 CDBG-ENT.-ADMINISTRATI 2417  ADM
 CDBG-ENT.-ADMIN/FULL R 2417  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2417  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2417  ADMPS
 CDBG-ENT.-DEMOLITION   2417  DEM
 CDBG-ENT.-ENGINEERING  2417  EP
 CDBG-ENT.-FACADE PROG  2417  FAC
 CDBG-ENT.-FULL REHAB.  2417  FR
 CDBG-ENT.-HOUSING REPR 2417  HR
 CDBG-ENT.-INFRASTRUC P 2417  IS
 CDBG-ENT.-PLANNING     2417  PL
 CDBG-ENT.-PUBLIC SERVI 2417  PS
 CDBG-ENT.-WORLD CHANGE 2417  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2008   2418
 HOME ENTIT-ADMINISTRAT 2418  ADM
 HOME ENTIT-AFFORD.HOUS 2418  AH
 HOME ENTIT-CHDO ADMIN  2418  CHDOAD
 HOME ENTIT-CHDO SETASI 2418  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2418  DA
 HOME ENTIT-HOUSING REH 2418  HR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2008   2419
 CDBG-ENT.-ADMINISTRATI 2419  ADM
 CDBG-ENT.-ADMIN/FULL R 2419  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2419  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2419  ADMPS
 CDBG-ENT.-BLUE ROOFS   2419  BR
 CDBG-ENT.-DEMOLITION   2419  DEM
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 CDBG-ENT.-DOWNTOWN LIG 2419  DL
 CDBG-ENT.-DRAINAGE     2419  DRG
 CDBG-ENT.-ENGINEERING  2419  EP
 CDBG-ENT.-FACADE PROG  2419  FAC
 CDBG-ENT.-FULL REHAB.  2419  FR


 CDBG-ENT.-HOUSING REPR 2419  HR
 CDBG-ENT.-INFRASTRUC P 2419  IS
 CDBG-ENT.-PLANNING     2419  PL
 CDBG-ENT.-PUBLIC SERVI 2419  PS
 CDBG-ENT.-WORLD CHANGE 2419  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2009   2420
 HOME ENTIT-ADMINISTRAT 2420  ADM
 HOME ENTIT-AFFORD.HOUS 2420  AH
 HOME ENTIT-CHDO ADMIN  2420  CHDO
 HOME ENTIT-CHDO SETASI 2420  CHDOSA
 HOME ENTIT-DOWNPAYMENT 2420  DA
 HOME ENTIT-HOUSING REH 2420  HR
 HOME ENTIT-RECONS-SA P 2420  RECSA
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-200
CDBG-ENTITLEMENT-2009   2421
 CDBG-ENT.-ADMINISTRATI 2421  ADM
 CDBG-ENT.-ADM DISABIL  2421  ADMDA
 CDBG-ENT.-ADMIN/FULL R 2421  ADMFR
 CDBG-ENT.-ADMIN/HSG RE 2421  ADMHR
 CDBG-ENT.-ADMIN/PUBLIC 2421  ADMPS
 CDBG-ENT.-DEMOLITION   2421  DEM
 CDBG-ENT.-DOWNTOWN LIG 2421  DL
 CDBG-ENT.-ENGINEERING  2421  EP
 CDBG-ENT.-FACADE PROG  2421  FAC
 CDBG-ENT.-FACILITIES   2421  FC
 CDBG-ENT.-FULL REHAB.  2421  FR
 CDBG-ENT.-HOUSING REPR 2421  HR
 CDBG-ENT.-INFRASTRUC P 2421  IS
 CDBG-ENT.-PLANNING     2421  PL
 CDBG-ENT.-PUBLIC SERVI 2421  PS
 CDBG-ENT.-WORLD CHANGE 2421  WC
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-200
HOME ENTITLEMENT-2010   2422
 HOME ENTIT-ADMINISTRAT 2422  ADM
 HOME ENTIT-CHDO ADMIN  2422  CHDO
 HOME ENTIT-CHDO SETASI 2422  CHDOSA
 HOME ENTIT-DWNPYMNT AS 2422  DA
 HOME ENTIT-FULL REHAB  2422  FR
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-201
CDBG-ENTITLEMENT-2010   2423
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 CDBG-ENT.-ADMINISTRATI 2423  ADM
 CDBG-ENT.-ADM DISABIL  2423  ADMDISAD
 CDBG-ENT.-DEMOLITION   2423  DEM
 CDBG-ENT.-FACADE PROG  2423  FAC
 CDBG-ENT.-HOUSING REPR 2423  HR
 CDBG-ENT.-INFRASTRUC P 2423  IS
 CDBG-ENT.-PROJECT DELI 2423  PD
 CDBG-ENT.-PUBLIC SERVI 2423  PS
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-201
HOME ENTITLEMENT-2011   2424
 HOME ENTIT-ADMINISTRAT 2424  ADM
 HOME ENTIT-CHDO SETASI 2424  CHDOSA
 HOME ENTIT-HOUSING PRO 2424  HP
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-201

CDBG-ENTITLEMENT-2011   2425
 CDBG-ENT.-ADMINISTRATI 2425  ADM
 CDBG-ENT.-ADM DISABIL  2425  ADMDISAD
 CDBG-ENT.-DEMOLITION   2425  DEM
 CDBG-ENT.-HOUSING REPR 2425  HR
 CDBG-ENT.-INFRASTRUC P 2425  IS
 CDBG-ENT.-MICROENT PRO 2425  MA
 CDBG-ENT.-PROJ DELIVER 2425  PD
 CDBG-ENT.-PUBLIC SERVI 2425  PS
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-201
HOME ENTITLEMENT-2012   2426
 HOME ENTIT-ADMINISTRAT 2426  ADM
 HOME ENTIT-CHDO SETASI 2426  CHDOSA
 HOME ENTIT-HOUSING PRO 2426  HP
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-201
CDBG-ENTITLEMENT-2012   2427
 CDBG-ENT.-ADMINISTRATI 2427  ADM
 CDBG-ENT.-DEMOLITION   2427  DEM
 CDBG-ENT.-HOUSING PROG 2427  HP
 CDBG-ENT.-MICROENT PRO 2427  MA
 CDBG-ENT.-PROJECT DELI 2427  PD
 CDBG-ENT.-PUBLIC SERVI 2427  PS
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   CDBG-ENTITLEMENT-201
HOME ENTITLEMENT-2013   2428
 HOME ENTIT-ADMINISTRAT 2428  ADM
 HOME ENTIT-CHDO SETASI 2428  CHDOSA
 HOME ENTIT-DWNPYMNT AS 2428  DA
 HOME ENTIT-HOUSING PRO 2428  HP
                        --------------   ----------- ---------   ----   ----------- ---------   ----   ----------   ----------
   HOME ENTITLEMENT-201
CDBG-ENTITLEMENT-2013   2429
 CDBG-ENT.-ADMINISTRATI 2429  ADM
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CDBG-ENT.-DEMOLITION	2429	DEM								
CDBG-ENT.-HOMELESS/SP	2429	HL/SP								
CDBG-ENT.-HOUSING PROG	2429	HP								
CDBG-ENT.-MICROENT PRO	2429	MA								
CDBG-ENT.-PROJECT DELI	2429	PD								
CDBG-ENT.-PUBLIC SERVI	2429	PS								
CDBG-ENTITLEMENT-201										
HOME ENTITLEMENT-2014	2430									
HOME ENTIT-ADMINISTRAT	2430	ADM								
HOME ENTIT-CHDO SETASI	2430	CHDOSA					45413			45413-
HOME ENTIT-DOWNPAYMENT	2430	DA								
HOME ENTIT-HOUSING PRO	2430	HP								
HOME ENTITLEMENT-201							45413			45413-
CDBG-ENTITLEMENT-2014	2431									
CDBG-ENT.-ADMINISTRATI	2431	ADM								
CDBG-ENT.-DEMOLITION	2431	DEM								
CDBG-ENT.-HOUSING PROG	2431	HP								
CDBG-ENT.-PROJECT DELI	2431	PD								
CDBG-ENT.-PUBLIC FACIL	2431	PFI								
CDBG-ENT.-PUBLIC SERVI	2431	PS								
CDBG-ENTITLEMENT-201										
HOME ENTITLEMENT-2015	2432									
HOME ENTIT-ADMINISTRAT	2432	ADM	11,417			45,671			137013	137013
HOME ENTIT-CHDO SETASI	2432	CHDOSA								
HOME ENTIT-DWNPYMNT AS	2432	DA					20646			20646-
HOME ENTIT-HOUSING PRO	2432	HP	18,150			72,602	2971	4	217807	214836
HOME ENTITLEMENT-201			29,568			118,273	23617	19	354820	331203
CDBG-ENTITLEMENT-2015	2433									
CDBG-ENT.-ADMINISTRATI	2433	ADM	33,446			133,785	71938	53	401354	329416
CDBG-ENT.-DEMOLITION	2433	DEM								
CDBG-ENT.-FACADE PROG	2433	FAC								
CDBG-ENT.-HOMELESS/SP	2433	HL/SP		67681			120066			120066-
CDBG-ENT.-HOUSING PROG	2433	HP	41,437			165,751	105415	63	497253	391838
CDBG-ENT.-MICRO ENTERP	2433	ME					2319			2319-
CDBG-ENT.-PROJECT DELI	2433	PD					76896			76896-
CDBG-ENT.-PUBLIC FACIL	2433	PFI					11764			11764-
CDBG-ENT.-PUBLIC SERVI	2433	PS								
CDBG-ENTITLEMENT-201			74,883	67681	90	299,536	388397	129	898607	510210
HOME REVOLVING LOANS	2495									
MDA AM DREAM D/P (ADDI)	2497									
MISCELLANEOUS GRANTS	2740									
SALVATION ARMY	2740	04								
SAVINGS ACCOUNT/MMA	3405		2	2	100	8	8	100	25	17
MISCELLANEOUS GRANTS			2	2	100	8	8	100	25	17

FEDERAL GRANTS			104,454	67683	64	417,817	457435	109	1253452	796017
TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
T/F GENERAL FUND	3800	01								
T/F WATER & SEWER O &	3800	09								
T/F MUN.ROAD & BRIDGE	3800	72								
TRANSFERS FROM OTHR										
TRANSFERS										
NON-REVENUE RECEIPTS	390A									
REFUND & RECOVERY	3965									
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999		17,125			68,501			205504-	205504-
BEGINNING CASH BALANC			17,125			68,501			205504-	205504-
REVENUES			87,329	67683	77	349,316	457435	130	1047948	590513

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
OTHER PERMITS & FEES	2230								
MISC. PERMITS & FEES	2299								
OTHER PERMITS & FEES									
FEDERAL GRANTS	230B								
EDA GRANT-MASTER PLAN	2333								
EDA GRANT-OWENS/ILL PRO	2338								
FEDERAL GRANTS									
STATE GRANTS	250B								
OWENS/ILL PROJ-RR SPUR	2541								
USA YEAST PROJ-RR SPUR	2542								
STATE GRANTS									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		73			291			291-
TREASURY NOTES	3409								
INTEREST EARNINGS			73			291			291-
RENTS AND ROYALTIES	3410								
LAND	3411								
LAMAR OUTDOOR ADVERTI	3411 05								
LAND									
BUILDING	3412								
BROWN BOTTLING (PEPSI	3412 10								
L&S REALTORS	3412 11								
KOHLER	3412 17					274211			274211-
JPM OF MS., INC.	3412 20								
SUNBEAM/OSTER	3412 23								
BUILDING						274211			274211-
RENTS AND ROYALTIES						274211			274211-
CONTRIBUTIONS-PUBLIC	3450								
CONTRIBUTIONS-FORREST	3455		50000			100000			100000-
CONTRIBUTIONS-CITY	3456					50000			50000-
CONTRIBUTIONS-ADP	3457								
CONTRIBUTIONS-PRVEPA	3458								
CONTRIBUTIONS-PUBLIC			50000			150000			150000-
MISCELLANEOUS			50073			424502			424502-

TRANSFERS	380A									
TRANSFERS FROM OTHR FND	3800									
TRANSFERS										
NON-REVENUE RECEIPTS	390A									
SALE OF BONDS	3910									
BOND PROCEEDS	3912									
ACCRUED INTEREST	3915									
OTHER BOND INCOME	3919									
CAP STATE LOAN'96-CIT	3919	CSL96C								
CAP STATE LOAN'96-FOR	3919	CSL96F								
CAP STATE LOAN'97-CIT	3919	CSL97C								
CAP STATE LOAN'97-FOR	3919	CSL97F								
MBIA BONDS	3919	MBIA								
OTHER BOND INCOME										
SALE OF BONDS										
SALE OF REAL ESTATE	3920									
SALE OF TIMBER	3923									
SALE OF EASEMENTS	3925									
SALE OF MISC. ITEMS	3945									
REFUND & RECOVERY	3965									
NON-REVENUE RECEIPTS										
BEGINNING CASH BALANCE	399A									
APPROPRIABLE FUND BALAN	3999									
BEGINNING CASH BALANC										
REVENUES				50073			424502			424502-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS									
MISCELLANEOUS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F TAX COLLECTORS-GPT	3800 27								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
REFUND & RECOVERY	3965								
NOTE PROCEEDS	3975								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES									

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405					20			20-
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS						20			20-
MISCELLANEOUS						20			20-
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
BOND PROCEEDS-RIDGE/T	3912 01								
BOND PROCEEDS-MIDTOWN	3912 02								
BOND PROCEEDS-WHISPER	3912 03								
BOND PROCEEDS-HBURG C	3912 04								
BOND PROCEEDS									
ACCRUED INTEREST	3915								
SALE OF BONDS									
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES						20			20-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405					507			507-
OTHER INTEREST	3407								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS						507			507-
MISCELLANEOUS						507			507-
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912					25000000			25000000-
ACCRUED INTEREST	3915								
SALE OF BONDS						25000000			25000000-
NON-REVENUE RECEIPTS						25000000			25000000-
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES						25000507			25000507-

CITY OF HATTIESBURG
094094 - 2012 W&S REVENUE BOND CONSTR REVENUE REPORT 2/01/17
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS									
MISCELLANEOUS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999		1,770			7,081		21244	21244
BEGINNING CASH BALANC			1,770			7,081		21244	21244
REVENUES			1,770			7,081		21244	21244

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
STATE GRANTS	250B								
STATE BOND FDS/EUREKA S	2501								
ARTS COMMISSION GRANT	2521								
STATE GRANTS									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS									
CONTRIBUTIONS-PUBLIC	3450								
CONTRIBUTIONS-FORREST	3455								
CONTRIBUTIONS-PUBLIC									
CONTRIBUTIONS-PRIVATE	3460								
CONTRIB-H'BURG. CONV.	3465								
CONTRIB-OTHER	3469								
CONTRIBUTIONS-PRIVAT									
MISCELLANEOUS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999		6			24		73	73
BEGINNING CASH BALANC			6			24		73	73

REVENUES	6	24	73	73

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
FEDERAL GRANTS	230B								
HUD GRANT-CHAIN PARK PH	2353								
US CORPS OF ENGR PROJEC	2354								
FEDERAL TRANSIT ADM.	2355								
FEDERAL GRANTS									
STATE GRANTS	250B								
ARCHIVES & HISTORY	2505								
MDOT GRANT-4TH ST WIDEN	2506								
MDOT GRANT-CHAIN PARK	2507								
MDOT ARRA-CHAIN PARK	2543								
STATE GRANTS									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
SAVINGS ACCOUNT/MMA	3405								
INTEREST EARNINGS									
MISCELLANEOUS									
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
NOTE PROCEEDS	3975								
DEPOT PROJECT	3975 01								
WATER & SEWER IMPR	3975 02								
FIRE/POLICE STATION	3975 03								
DRAINAGE PROJECTS	3975 04								
LEGAL COSTS	3975 05								
MDOT GRANT PROJECTS	3975 06								
NOTE PROCEEDS									
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									

REVENUES

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
STATE GRANTS	250B								
ZOO IMPROVEMENTS	2560								
STATE GRANTS									
CHARGES FOR SERVICES	280A								
CULTURE AND RECREATION	3100								
KPZ SPECIAL EVENTS	3127								
LION/TIGER FUND RAISE	3127 01								
TODDLER CLASS	3127 02								
ZOO CAMP	3127 03								
KPZ SPECIAL EVENTS									
CULTURE AND RECREATI									
CHARGES FOR SERVICES									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
DIVIDENDS	3404								
SAVINGS ACCOUNT/MMA	3405					1			1-
INTEREST EARNINGS						1			1-
CONTRIBUTIONS-PUBLIC	3450								
CONTRIBUTIONS-FORREST	3455								
CONTRIBUTIONS-PUBLIC									
CONTRIBUTIONS-PRIVATE	3460								
CONTRIB-H'BURG. CONV.	3465								
CONTRIB-CEMETERY PROJ	3467								
CONTRIB-PKS/REC. PROJ	3468								
CONTRIB-OTHER	3469								
CONTRIBUTIONS-PRIVAT									
GAIN ON SALE OF INVESTM	3550								
MISCELLANEOUS						1			1-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									

NON-REVENUE RECEIPTS	390A								
SALE OF TIMBER	3923								
SALE OF SCRAP MATERIAL	3943								
SALE OF ZOOLOGICAL ANIM	3949								
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES						1			1-

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
FEDERAL GRANTS	230B								
US CORPS OF ENGR PROJEC	2354								
EPA-VETERANS DRIVE PROJ	2356								
FEDERAL GRANTS									
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405								
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
INTEREST EARNINGS									
TRANSFERS FROM OTHR FND	3800								
T/F WATER & SEWER	3800 11								
TRANSFERS FROM OTHR									
MISCELLANEOUS									
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
REFUND & RECOVERY	3965								
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999								
BEGINNING CASH BALANC									
REVENUES									

CITY OF HATTIESBURG
105105 - 2013 W&S BOND CONSTR REVENUES REVENUE REPORT 2/01/17
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNINGS	3400								
CERTIFICATES OF DEPOSI	3402								
SAVINGS ACCOUNT/MMA	3405		338			1816			1816-
REPURCHASE AGREEMENTS	3408								
TREASURY NOTES	3409								
T/F 2012 W&S BOND CONS	3800 94								
INTEREST EARNINGS			338			1816			1816-
MISCELLANEOUS			338			1816			1816-
NON-REVENUE RECEIPTS	390A								
SALE OF BONDS	3910								
BOND PROCEEDS	3912								
ACCRUED INTEREST	3915								
SALE OF BONDS									
NON-REVENUE RECEIPTS									
BEGINNING CASH BALANCE	399A								
APPROPRIABLE FUND BALAN	3999	192,980			771,921			2315762	2315762
BEGINNING CASH BALANC		192,980			771,921			2315762	2315762
REVENUES		192,980	338		771,921	1816		2315762	2313946

CITY OF HATTIESBURG
REVENUE REPORT
ALL FUNDS
4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
INTER-GOVERNMNTL REVENUE	230A								
STATE-SHARED REVENUE	260B								
SALES TAX-MOTEL	2605		43794			198694			198694-
SALES TAX-FOOD & BEVERA	2607		381326			1545285			1545285-
STATE-SHARED REVENUE			425120			1743978			1743978-
NON-REVENUE RECEIPTS	390A								
REVENUES			425120			1743978			1743978-

CITY OF HATTIESBURG

109109 - GROUP INS.TRUST REVENUES — REVENUE REPORT — 2/01/17

ALL FUNDS

4 MONTHS ENDING 01/31/17

	OBJ/SUB	CURRENT ESTIMATED	CURRENT ACTUAL	CURRENT %REV	YEAR-TO-DATE ESTIMATED	YEAR-TO-DATE ACTUAL	YEAR-TO-DATE %REV	ANNUAL ESTIMATE	UNREALIZED BALANCE
REVENUES	200								
MISCELLANEOUS	340A								
INTEREST EARNING	3400								
SAVINGS ACCOUNT/MMA	3405		45			161			161-
INTEREST EARNING			45			161			161-
MISCELLANEOUS			45			161			161-
TRANSFERS	380A								
TRANSFERS FROM OTHR FND	3800								
T/F GENERAL FUND	3800 01								
TRANSFERS FROM OTHR									
TRANSFERS									
NON-REVENUE RECEIPTS	390A								
REFUND & RECOVERY	3965								
HOSP.INS.-P/R DISTRIB	3966		363916			1800884			1800884-
HOSP.INS.-COBRA	3966 01		1600			6476			6476-
NON-REVENUE RECEIPTS			365516			1807360			1807360-
REVENUES			365561			1807522			1807522-

Mayor
Johnny L. DuPree, Ph.D.

Council - Ward 1	Council - Ward 2	Council - Ward 3	Council - Ward 4	Council - Ward 5
Kim Bradley	*Deborah Denard Delgado*	*Carter Carroll*	*Dave J. Ware, II*	*Henry Naylor*

MEMORANDUM

TO: Mayor and Council

FROM: Janet Beech, Purchasing Manager

DATE: February 14, 2017

SUBJECT: Unadvertised Bid Docket Acknowledgement

Attached is the unadvertised bid docket for January 9, 2017 through February 13, 2017. A minimum of two (2) bids have been obtained for each purchase as required by Section 31-7-13 (B) of the Mississippi Code.

This UAB docket is submitted for your review, approval, and acknowledgement on the minutes of the City of Hattiesburg Council Meeting Agenda.

If there are any questions regarding this UAB docket, please feel free to contact me.

Janet Beech, CMPA
Purchasing Manager
601-545-4510

CITY OF HATTIESBURG UNADVERTISED BID PURCHASES
JANUARY 9, 2017 - FEBRUARY 13, 2017

SUCCESSFUL BID/ OTHER BID	BID RECEIVED	BID AWARDED	BID AMOUNT	PURCHASE ORDER	ITEM DESCRIPTION
MS TURF	01/09/16	01/10/17	3,000.00	167064	LANDSCAPING FOR 300 KLONDYKE TEMP POLICE DE
WATER FLOW PRODUCTIONS INC	01/04/16	01/10/17	3,800.00		
GREEN FOREST NURSERY INC	01/03/17	01/12/17	3,280.50	167160	LANDSCAPING MATERIAL FOR 300 KLONDYKE TEMP
ADAMS NURSERY	01/06/17	01/12/17	3,790.00		
FASCO SECURITY PRODUCTS	01/04/17	01/12/17	14,493.00	167161	NON PASS THROUGH EVIDENCE LOCKER
ASSOCIATED OFFICE SYSTEMS	01/09/16	01/12/17	24,100.00		
D P C ENTERPRISES LP	01/10/17	01/17/17	38,300.00	167251	LIME & FLUORIDE FOR WATER PLANTS
INDUSTRIAL CHEMICALS INC	01/11/17	01/17/17	45,900.00		
CERTIFIED LABORATORIES	01/20/17	01/25/17	44,426.25	167451	TRAILBLAZER FOR CITY WIDE USE
CHEMSEARCH	01/23/17	01/25/17	46,901.25		

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/09/17
PO No. - 167064
Req No. - 2497

VENDOR MAILING:
MS TURF
ROD COURTNEY
3227 GATES ROAD
BASSFIELD MS 39421

MCGINTY, DESTINY (601) 5454506

VENDOR # 00096415

SHIP TO :
CITY OF HATTIESBURG
HATTIESBURG POLICE DEPARTMENT
300 KLONDYKE STREET
HATTIESBURG MS 39401

PROCESSING CODE:

PROJECT LINE: LANDSCAPING FOR 300 KLONDYKE TEMP POLICE DEPT.

SEND METHOD 0 ( )

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001100.5590	SOD INSTALLED PRICE WILL INCLUDE DELIVERY AND INSTALLATION PLEASE INCLUDE SOONEST DELIVERY DATE POSSIBLE	20.00	EA	150.0000	3,000.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 3,000.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 12/22/16
Order Number . . 2497 OQ

MS TURF
ROD COURTNEY
3227 GATES ROAD
BASSFIELD MS 39421

Mail To: . . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME: Mississippi Turf

Phone Number . . 601 5454512

SIGNATURE: Rod Courtney DATE: 1-9-17

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LANDSCAPING FOR 300 KLONDYKE TEMP POLICE DEPT.

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
SOD INSTALLED PRICE WILL INCLUDE DELIVERY AND INSTALLATION PLEASE INCLUDE SOONEST DELIVERY DATE POSSIBLE	12/21/16	20.00	EA	150.00		1-18-17	2-18-17

TOTAL BID PRICE $3000.00

Approved [illegible] 1-9-17

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 12/22/16
Order Number . . 2497 OQ

WATER FLOW PRODUCTIONS IN
MIKE KEITH IRRIGATION
781 HIGHWAY 589
PURVIS MS 39475-4104

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Mike Keith

Phone Number . . 601 5454512

SIGNATURE [signature] DATE 1-4-17

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LANDSCAPING FOR 300 KLONDYKE TEMP POLICE DEPT.

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
SOD INSTALLED PRICE WILL INCLUDE DELIVERY AND INSTALLATION PLEASE INCLUDE SOONEST DELIVERY DATE POSSIBLE	12/21/16	20.00	EA	190.00	3800.00	1-11-17	2-11-17

TOTAL BID PRICE 3800.00

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/12/17

PO No. - 167160

Req No. - 2496

VENDOR MAILING:
GREEN FOREST NURSERY INC
1451 OLD HIGHWAY 26
PERKINSTON MS 39573-5850

MCGINTY, DESTINY (601) 5454506

VENDOR # 00065381

SHIP TO :
CITY OF HATTIESBURG
MERCHANDISE ORDERED WILL BE PICKED UP

PROCESSING CODE:

PROJECT LINE: LANDSCAPING MATERIAL FOR 300 KLONDYKE TEMP POLICE DEPT.

SEND METHOD 1 (601)9285008

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001100.5590	15 GAL OAK LEAF HOLLY	10.00	EA	56.6500	566.50
001100.5590	15 GAL LIL GEM MAGNOLIA	7.00	EA	57.0000	399.00
001100.5590	15 GAL PURPLE PLUM	18.00	EA	55.0000	990.00
001100.5590	30GAL NELLY HOLLY TREE FORM	9.00	EA	105.0000	945.00
001100.5590	30GAL LIVE OAK PRICE WILL INCLUDE MATERIALS ONLY	4.00	EA	95.0000	380.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 3,280.50

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 12/21/16
Order Number . . 2496 OQ

GREEN FOREST NURSERY INC
1451 OLD HIGHWAY 26
PERKINSTON MS 39573-5850

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Joseph Davenport

Phone Number . . 601 5454512

SIGNATURE [signature] DATE 1-3-17

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LANDSCAPING MATERIAL FOR 300 KLONDYKE TEMP POLICE DEPT.

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
15 GAL OAK LEAF HOLLY	12/21/16	10.00	EA	56.65	566.50		
15 GAL LIL GEM MAGNOLIA	12/21/16	7.00	EA	57.00	399.00		
15 GAL PURPLE PLUM	12/21/16	18.00	EA	55.00	990.00		
30GAL NELLY HOLLY TREE FORM	12/21/16	9.00	EA	105.00	945.00		
30GAL LIVE OAK	12/21/16	4.00	EA	95.00	380.00		

TOTAL BID PRICE $3,280.50

approved [signature] 1-11-2017

01/03/2017 14:57 6019285008 GREENFOREST NURSERY PAGE 01/01

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 12/21/16
Order Number . . 2496 OQ

ADAMS NURSERY
224 CARTERVILLE RD
PETAL MS 39465-2504

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME John P. Adams

Phone Number . . 601 5454512

SIGNATURE John P. Adams DATE 1-6-17

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LANDSCAPING MATERIAL FOR 300 KLONDYKE TEMP POLICE DEPT.

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
15 GAL OAK LEAF HOLLY	12/21/16	10.00	EA	$ 65.00	$ 650.00	1-10-17	NA
15 GAL LIL GEM MAGNOLIA	12/21/16	7.00	EA	$ 65.00	$ 455.00	1-10-17	NA
15 GAL PURPLE PLUM	12/21/16	18.00	EA	$ 65.00	$ 1170.00	1-10-17	NA
30GAL NELLY HOLLY TREE FORM	12/21/16	9.00	EA	$ 115.00	$ 1035.00	1-10-17	NA
30GAL LIVE OAK	12/21/16	4.00	EA	$ 120.00	$ 480.00	1-10-17	NA

TOTAL BID PRICE $3790.00

Jan 06 17 09:32a
01/03/2017 TUE 10:32 FAX 6015456661 Hattiesburg Purchasing
p.1
002/003

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/12/17

PO No. - 167161

Req No. - 2498

VENDOR MAILING:
FASCO SECURITY PRODUCTS
14522 NAPLES ST
HAM LAKE MN 55304

MCGINTY, DESTINY (601) 5454506

VENDOR # 00105523

SHIP TO :
CITY OF HATTIESBURG
HATTIESBURG POLICE DEPARTMENT
300 KLONDYKE STREET
HATTIESBURG MS 39401

PROCESSING CODE:

SEND METHOD 1 (763)2080979

PROJECT LINE: NON PASS THROUGH EVIDENCE LOCKER

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001100.7325	NON PASS THRU EVIDENCE LOCKER WILL NEED TO BE DELIVERED TO 300 KLONDYKE.	1.00	EA	14,493.0000	14,493.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 14,493.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date 1/03/17
Order Number . . 2498 OQ

FASCO SECURITY PRODUCTS
14522 NAPLES ST
HAM LAKE MN 55304

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Doug O'Brien

SIGNATURE [signature] DATE 1-4-2017

Phone Number . . 601 5454512

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: NON PASS THROUGH EVIDENCE LOCKER

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
NON PASS THRU EVIDENCE LOCKER WILL NEED TO BE DELIVERED TO 300 KLONDYKE.	12/21/16	1.00	EA	14,493.00	$ 14,493.00	45 DAYS	60 DAYS

TOTAL BID PRICE $ 14,493.00

NO TAX

approved / dp AI 1-9-16

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 1/03/17
Order Number . . 2498 OQ

ASSOCIATED OFFICE SYSTEMS
301 MAIN STREET, SUITE 16
BATON ROUGE LA 70825

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME James F. Harell

Phone Number . . 601 5454512

SIGNATURE James F. Harell DATE 1/9/2017

Shipping terms are F.O.B. destination, freight prepaid

PROJECT ~~LINE~~: NON PASS THROUGH EVIDENCE LOCKER

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
NON PASS THRU EVIDENCE LOCKER WILL NEED TO BE DELIVERED TO 300 KLONDYKE.	12/21/16	1.00	EA	$24,100.00	$24,100.00	6-7 weeks ARO	4-6-2017

Bidding Spacesaver Non-Pass thru Evidence Lockers

TOTAL BID PRICE $24,100.00

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/17/17

PO No. - 167251

Req No. - 2504

VENDOR MAILING:
D P C ENTERPRISES LP
PO BOX 301123
DALLAS TX 75303-1123

BEECH, JANET (601) 5454511
MINUTE BOOK # pending
VENDOR # 90001669

SHIP TO :
CITY OF HATTIESBURG
WATER PLANT #2
900 JAMES STREET
HATTIESBURG MS 39401

PROCESSING CODE:

SEND METHOD 0 ( )

PROJECT LINE: LIME & FLUORIDE FOR WATER PLANTS

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
009673.5130	HYDRATED LIME LIME ON PALLETS 20 PALLETS OF 45-50 LB BAGS	1000.00	EA	7.9000	7,900.00
009673.5130	FLUORIDE SODIUM FLUOROSILICATE 20 PALLETS OF 40-50 LB BAGS	800.00	EA	38.0000	30,400.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED 38,300.00

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 1/09/17
Order Number . . ~~2502~~ 2504 OQ

D P C ENTERPRISES LP
PO BOX 301123
DALLAS TX 75303-1123

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

Phone Number . . 601 5454512

PRINTED NAME John Skipper

SIGNATURE [signature] DATE 1-10-17

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LIME & FLUORIDE FOR WATERPLANTS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
HYDRATED LIME -50LB LIME ON PALLETS 20 PALLETS WITH ~~50~~-50LB BAGS 45-50 lb. bags	01/05/17	1000.00	EA	$7.90 bag	$7908.00	6 to 7 working DAYS	3-1-17
FLUORIDE -50LB (SODIUM FLUOROSILICATE) FLUORIDE ON PALLETS 20 PALLETS WITH 40-50LB BAGS	01/05/17	800.00	EA	$38.00 bag	$30,400.00		3-1-17

TOTAL BID PRICE $38,300.00

Please send to Purchasing

[signature]
1-13-2017

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 1/09/17
Order Number . . ~~2502~~ OQ 2504

INDUSTRIAL CHEMICALS INC
PO BOX 143
MEMPHIS TN 38101-0143

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

Phone Number . . 601 5454512

PRINTED NAME Daniel Barnacastle

SIGNATURE [signature] DATE 1/11/2016

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: LIME & FLUORIDE FOR WATERPLANTS

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
HYDRATED LIME -50LB LIME ON PALLETS 20 PALLETS WITH 50-50LB BAGS	01/05/17	1000.00	EA	25.50 1000 bag minimum	25,500.00	3 business days ARO	3/31/2017
FLUORIDE -50LB (SODIUM FLUOROSILICATE) FLUORIDE ON PALLETS 20 PALLETS WITH 40-50LB BAGS	01/05/17	800.00	EA	25.50 ~~800 bag minimum~~ (LTL order @ 30.50/bag)	20,400.00	3 business days ARO	3/31/2017

TOTAL BID PRICE 45,900.00

800

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

CITY OF HATTIESBURG
P U R C H A S E O R D E R
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

POINT OF CONTACT:

Page - 1
Date - 01/25/17
PO No. - 167451
Req No. - 2505

VENDOR MAILING:
CERTIFIED LABORATORIES
ATTN ED ASSAF
1004 RICHBURG RD
HATTIESBURG MS 39402-9054

EVANS, TERESA WILLIAMS (601) 5454626
MINUTE BOOK # PENDING
VENDOR # 90001197

SHIP TO :
CITY OF HATTIESBURG
PUBLIC WORKS DEPT
1202 JAMES STREET
HATTIESBURG MS 39401

PROCESSING CODE:
SEND METHOD 0 ( )

PROJECT LINE: TRAILBLAZER FOR CITY WIDE USE

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001250.5130	TRAILBLAZER 55 GALLON CONTAINERS ***DELIVERY WILL BE WITHIN 7 BUSINESS DAYS OF PURCHASE*** ***ORDER BEING RECEIVED***	495.00	EA	89.7500	44,426.25

TOTAL CONTRACT AMOUNT NOT TO EXCEED 44,426.25

SUBMIT SEPARATE INVOICES FOR EACH ORDER. PREPAY SHIPPING CHARGES IF ANY AND ADD TO INVOICE.

THIS PO NUMBER MUST APPEAR ON ALL PACKAGES & INVOICES.

FOR CORRECTIONS TO VENDOR ADDRESS ABOVE, CONTACT ACCOUNTING (601) 545-4686.

KERMAS EATON
CITY CLERK

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 1/19/17
Order Number . . 2505 OQ

CERTIFIED LABORATORIES
ATTN ED ASSAF
1004 RICHBURG RD
HATTIESBURG MS 39402-9054

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME: ED ASSAF

Phone Number . . 601 5454512

SIGNATURE: Ed Assaf DATE

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: TRAILBLAZER FOR CITY WIDE USE

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
TRAILBLAZER 55 GALLON CONTAINERS ***DELIVERY WILL BE WITHIN 7 BUSINESS DAYS OF PURCHASE*** ***ORDER BEING RECEIVED***	01/18/17	495.00	EA	$ 89.76 gal	$ 44,426.25	1-31-17	12-31-17

TOTAL BID PRICE $ 44,426.25

1-25-17

p.1

6012680991

Jan 20 17 11:17a Front Porch

43530

CITY OF HATTIESBURG
QUOTE REQUEST RESPONSE FORM

Page No. 1
Date - 1/19/17
Order Number . . 2505 OQ

CHEMSEARCH
ATTN JIM KNOX
PO BOX 152170
IRVING TX 75015-2170

Mail To. . . . . CITY OF HATTIESBURG
PURCHASING DIVISION
220 W FRONT ST.2ND FLOOR
PO BOX 1898
HATTIESBURG MS 39401

PRINTED NAME Toni L. Boyd

SIGNATURE Toni L Boyd DATE 1/23/17

Phone Number . . 601 5454512

Shipping terms are F.O.B. destination, freight prepaid

PROJECT LINE: TRAILBLAZER FOR CITY WIDE USE

ITEM DESCRIPTION	Request Date	QTY	UM	Unit Price	Extended Cost	Delivery Date	Expired Date
TRAILBLAZER 55 GALLON CONTAINERS ***DELIVERY WILL BE WITHIN 7 BUSINESS DAYS OF PURCHASE*** ***ORDER BEING RECEIVED***	01/18/17	495.00	EA	94.75/ gallon	46,901.25	5-7 days A.R.O.	n/a

TOTAL BID PRICE 46,901.25

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-241 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve publication setting a Public Hearing.

Title: Approve publication setting a Public Hearing for the 2016 Consolidated Annual Performance Evaluation Report (CAPER) for March 9, 2017 at 5:30 p.m. at the C.E. Roy Community Center and establishing a Public Comment period to conclude on March 13,2017. {Entitlement}

Type: Action Item

Drafter: Clarence Williams

In Control: City Council

Reference: LaKeylah White

Attachments: Notice of Availability, Public Hearing and Public Comment Period

File Created: 02/13/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

NOTICE OF AVAILABILITY, PUBLIC HEARING, AND
PUBLIC COMMENT PERIOD REGARDING:
2016 CONSOLIDATED ANNUAL PERFORMANCE AND EVALUATION REPORT FOR HOUSING AND COMMUNITY DEVELOPMENT PROGRAMS

ATTENTION: ALL HATTIESBURG, MISSISSIPPI RESIDENTS

The City of Hattiesburg, Mississippi, as required by the U.S. Department of Housing and Urban Development, has prepared a DRAFT 2016 Consolidated Annual Performance and Evaluation Report (CAPER). The report provides details on the activities proposed and completed during the 2016 program year using Community Development Block Grant (CDBG) and HOME Investment Partnerships Program (HOME) entitlement funds.

The draft report will be available for review beginning February 27, 2017, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, until 5 p.m. March 10, 2017, at the following locations:

City Hall 200 Forrest Street City Clerk's Office Hattiesburg, MS 39401	Hattiesburg Public Library 329 Hardy Street Hattiesburg, MS 39401	C.E. Roy Community Center 300 East 5th Street Hattiesburg, MS 39401

NOTICE is hereby given that the City of Hattiesburg Department of Federal & State Programs has scheduled a public hearing for Thursday, March 9, 2017 at 5:30 p.m. in the C.E. Roy Community Center, 300 East 5th Street for the purpose of affording citizens of Hattiesburg an opportunity to comment on the Draft CAPER.

Comments related to the performance report may be mailed to the attention of Clarence P. Williams at the Department of Federal and State Programs, City of Hattiesburg, P.O. Box 1898, Hattiesburg, Mississippi 39403-1898, or delivered to City Hall, First Floor, Department of Federal and State Programs, 200 Forrest Street. Comments will be considered through March 13, 2017.

PUBLISHED by Order of the Council on this, the 21st day of February, 2017

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____
CITY CLERK

(SEAL)

Johnny L. DuPree, Mayor
PUBLISH Once in the Non-Legal Section: Friday, February 24, 2017.

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-242 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Acknowledge Bids-Gordon's Creek-Depot District Project

Title: Acknowledge bids received February 2, 2017, for the Gordon's Creek-Depot District Buschman Street to River Avenue Project, and review the bids to confirm whether the bidders meet the Prequalification requirements as set forth in Item Number 4 of the Instructions to Bidders before considering the bids and awarding the contract.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Letter, Precision Bid, Twin L Bid, Floore Bid, Bid Tab, Instructions to Bidders

File Created: 02/13/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

NEEL-SCHAFFER
Solutions you can build upon

engineers
planners
surveyors
environmental scientists
landscape architects

February 8, 2017
N-S Project No. 8667-016-06

Honorable Johnny L. DuPree, Ph.D.
City of Hattiesburg
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

REFERENCE: GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, FORREST COUNTY

Dear Mayor DuPree:

Enclosed for your records is one (1) copy of the Certified Bid Tabulation for the bids received for the referenced project. As you are aware there were three (3) bids submitted, opened and read at the bid opening on February 2, 2017. We understand that at least one of the bidders may have been in litigation with the City in the past five years regarding work under another Owner contract. Therefore, we recommend that the Owner review the bids to confirm whether the bidders meet the Prequalification requirements as set forth in Item Number 4 of the Instructions to Bidders before considering the bids and making an award of the Contract.

Sincerely,

NEEL-SCHAFFER, INC.

Geoffrey Crosby

Geoffrey Crosby, P.E.
Senior Project Manager

Enclosures

Post Office Box 1487 •Hattiesburg, MS 39403-1487 •601.545.1565 • Fax 601.545.2267

Copy

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)
Precision Construction, LLC
15 Chanticleer Dr.
Hattiesburg, MS 39402

SURETY:
(Name, legal status and principal place of business)
Westfield Insurance Company
P.O. Box 5001
Westfield Center, OH 44251-5001

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39401

BOND AMOUNT: **Five Percent (5%) of the Amount Bid----------**

PROJECT:
(Name, location or address, and Project number, if any)
Gordon's Creek - Depot District - Buschman Street to River Avenue
Hattiesburg, MS

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

Init.

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If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this **2nd** day of **February**, **2017**

Precision Construction, LLC
(Contractor as Principal) *(Seal)*

(Witness)

(Title)

Westfield Insurance Company
(Surety) *(Seal)*

Lauren J Ellis
(Witness)

(Title) **Kimberly B. Barhum, Attorney-In-Fact**
MS Resident Agent

Init.

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THIS POWER OF ATTORNEY SUPERCEDES ANY PREVIOUS POWER BEARING THIS SAME POWER # AND ISSUED PRIOR TO 03/29/16, FOR ANY PERSON OR PERSONS NAMED BELOW.

General
Power
of Attorney

CERTIFIED COPY

POWER NO. **2320202 13**

Westfield Insurance Co.
Westfield National Insurance Co.
Ohio Farmers Insurance Co.

Westfield Center, Ohio

Know All Men by These Presents, That WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, corporations, hereinafter referred to individually as a "Company" and collectively as "Companies," duly organized and existing under the laws of the State of Ohio, and having its principal office in Westfield Center, Medina County, Ohio, do by these presents make, constitute and appoint
DAVID R. FORTENBERRY, RICHARD T. JONES, MARY J. NORVAL, KIMBERLY B. BARHUM, JOINTLY OR SEVERALLY

of **HATTIESBURG** and State of **MS** its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver **any and all bonds, recognizances, undertakings, or other instruments or contracts of suretyship**- - - -

COPY

BIDDER'S PROPOSAL

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

DATE: February 2, 20 17

PROPOSAL OF Precision Construction LLC
(Name of Bidder)

15 Chanticleer Dr Hattiesburg, MS 39402
(Address of Bidder)

for construction of the Gordon's Creek – Depot District – Buschman Street to River Avenue Project.

The documents on which this Proposal is based include the Instructions to Bidders, Bid Forms, General Conditions, Supplementary Conditions, Supplemental General Conditions, Technical Specifications, Contract Drawings, and all supplements, amendments and addenda for this Project and are made a part hereof by reference.

TO: CITY OF HATTIESBURG
200 FORREST STREET
HATTIESBURG, MISSISSIPPI 39401

Gentlemen:

The following Proposal is submitted on behalf of the undersigned Bidder(s) and no others. Evidence of my (our) authority to submit the Proposal is hereby furnished. The Proposal is submitted without collusion on the part of any person, firm or corporation.

I (We), the undersigned Bidder(s), certify that I (we) have carefully examined the Instructions to Bidders, Bid Forms, General Conditions, Supplemental Conditions, Technical Specifications, Contract Drawings and any and all Addenda thereof.

I (We) further certify that I, (we) have visited and carefully examined the site of the proposed Work and have inspected the location and condition of all public utilities and existing structures or other facilities on the site or adjacent thereto which may be affected by the proposed construction and fully understand all conditions relative to construction difficulties, hazards, labor, transportation and all other factors affecting the prosecution of the work covered by this Proposal.

I (We) understand that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid. No increase in quantities of work shall be performed until a written change order is duly executed in advance and approved in the public minutes of the Owner.

In accordance with the requirements of the Instructions to Bidders, Bid Forms, Federal Supplement to Bidder's Proposal, Technical Specifications, General Conditions, Supplementary Conditions, Contract Drawings, and any Addenda, I (we) propose to furnish all necessary materials, equipment, labor, tools and other means of construction and will do all Work called for by the Contract Documents within the specified Contract Time. The following is my (our) itemized proposal for the project:

Prices Bid and Approximate Quantities – Base Bid

Pay Item	Description	Qty	Unit	Unit Price	Price Extension
201-B	CLEARING AND GRUBBING	1	LS	XXXX	2500
202-A	REMOVAL OF OBSTRUCTIONS	1	LS	XXXX	2800
202-B	REMOVAL OF TREES, UNDER 10"	10	EACH	350	3500
202-B	REMOVAL OF TREES, 10"-20"	4	EACH	650	2600
202-B	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS	14	SY	30	420
202-B	REMOVE AND RESET RIPRAP	110	SY	50	5500
203-I	SITE GRADING	240	SY	4	960
203-A	UNCLASSIFIED EXCAVATION, FM, AH	50	CY	16	800
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	80	CY	14	1120
203-EX	BORROW EXCAVATION, FM, CLASS B7-6, AH	120	CY	12	1440
203-G	EXCESS EXCAVATION, FM, AH	250	CY	10	2500
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	70	CY	25	1750
211-D	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED	2	CY	50	100
907-216-B	SOLID SODDING, CENTIPEDE	600	SY	5	3000
219-A	WATERING	155	KGAL	$20	$3,100
220-A	INSECT PEST CONTROL	1	ACRE	200	200
907-230-B	TREE PLANTING, LITTLE GEM MAGNOLIA	8	EACH	300	2400
907-230-B	TREE PLANTING, WINGED ELM	4	EACH	300	1200
232-A	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	36	EACH	2	72
233-A	TREE BARK MULCH, TYPE III	2	CY	400	800
233-A	TREE BARK MULCH, TYPE V	3	CY	400	1200
907-282-M	SLOW RELEASE IRRIGATION BAG	12	EACH	40	480
234-A	TEMPORARY SILT FENCE	680	LF	3	2040
907-237-A	WATTLES	100	LF	10	1000
907-246-A	SANDBAGS	100	LF	10	1000
907-258-PP	HANDRAIL, PER PLANS	130	LF	25	3250

608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	478	SY	42	20,076
618-A	MAINTENANCE OF TRAFFIC	1	LS	XXXX	5,500
618-B	ADDITIONAL CONSTRUCTION SIGNS	1	SF	$10	$10
620-A	MOBILIZATION	1	LS	XXXX	23000
699-A	ROADWAY CONSTRUCTION STAKES	1	LS	XXXX	3500
815-B	GROUTED RIPRAP, SIZE 100	290	SY	80	23,200
815-E	GEOTEXTILE UNDER GROUTED RIPRAP, TYPE V, NON-WOVEN	350	SY	3	1050
907-258-PP	PEDESTRIAN BOARDWALK, PER PLANS	500	SF	40	20,000
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	365	LF	8.80	3212
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 6, 3 CONDUCTORS	220	LF	10.25	2255
682-C	STRUCTURE MOUNTED BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	140	LF	16	2240
682-D	STRUCTURE MOUNTED PULLBOX	2	EACH	375	750
682-F	SECONDARY POWER CONTROLLER	1	EACH	12500	12500
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	9	EACH	6000	54000
907-683-PP002	LIGHTING ASSEMBLY, HANDRAIL, TYPE HR	4	EACH	500	2000
684-A	POLE FOUNDATIONS, 24" DIAMETER	9	CY	900	8100
			TOTAL BASE BID $	227,125	

Prices Bid and Approximate Quantities – Additive Alternate No. 1					
Pay Item	**Description**	**Qty**	**Unit**	**Unit Price**	**Price Extension**
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	50	CY	14	700
203-G	EXCESS EXCAVATION, FM, AH	100	CY	10	1000
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	30	CY	25	750
907-216-B	SOLID SODDING, CENTIPEDE	300	SY	5	1500
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	267	SY	42	11,214
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	230	LF	8.80	2024
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	3	EA	6000	18,000
684-A	POLE FOUNDATIONS, 24" DIAMETER	3	CY	1200	3600
	TOTAL ADDITIVE ALTERNATE NO. 1 $			38,788	

THE BIDDER'S TOTAL ABOVE IS HIS TOTAL BID BASED ON HIS UNIT PRICES AND LUMP SUM PRICES AND THE ESTIMATED QUANTITIES. THIS FIGURE IS FOR INFORMATION ONLY AT THE TIME OF OPENING BIDS. THE OWNER WILL MAKE THE BID TABULATION FROM THE UNIT PRICES AND LUMP SUM PRICES BID. IF THERE IS AN ERROR IN THE TOTAL BY THE BIDDER, IT SHALL BE CHANGED AS ONLY THE UNIT PRICES AND LUMP SUM PRICES SHALL GOVERN.

NOTE: FAILURE OF BIDDER TO INCLUDE PRICES FOR THE ALTERNATE BID ITEMS MAY RENDER HIS PROPOSAL NON-RESPONSIVE.
NOTE: Bids shall include sales tax and all other applicable taxes and fees.

I (We) further propose to execute the Contract Agreement as bound herein within ten working days after receipt of Contract Forms from the Owner and to complete the work within the contract time. I (We) agree to pay as liquidated damages the actual costs, expenses and other losses reasonably incurred by Owner for each consecutive calendar day beyond the specified Contract Time.

I (We) also propose to execute a Performance Bond and a Payment Bond, as shown in the Specifications, each in an amount of not less than one hundred percent (100%) of the total of my (our) Bid. These Bonds shall not only serve to guarantee the completion of the Work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the Work is finally accepted.

I (We) enclose a Bid Bond or Certified Check for 5 percent of two hundred twenty-seven thousand one hundred twenty five, DOLLARS ($ 217,125)
(Base Bid Amount)

and hereby agree that in case of my (our) failure to execute the Contract and furnish the Bonds within ten calendar days after delivery of the Notice of Award, the amount of this check (Bid Bond) will be forfeited to the Owner as liquidated damages arising out of my (our) failure to execute the Contract as proposed.

It is understood that in case I (we) am (are) not awarded the Work, the Certified Check or Bid Bond submitted as Bid security will be returned as stipulated in the Contract Documents.

Bidder acknowledges receipt of the following Addenda:

No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____

Respectfully Submitted,

N [illegible]
Contractor(s)

By: President
Title

15 Chanticleer Dr
Hattiesburg, MS 39402
Address

BIDDER'S CORPORATE DECLARATION

(TO BE FILLED IN IF BIDDER IS A CORPORATION)

Date: February 2, 2017.

Our corporation is chartered under the Laws of the state of Mississippi and the names, titles and business addresses of the executives are as follows:

Nathan Smitzer
President

15 Chanticleer Dr
Hattiesburg, MS 39402

Secretary

Treasurer

DECLARATION OF PARTNERSHIP

(To be filled in if a Bidder is a Partnership)

Our Partnership is composed of the following individuals:

Address

Address

NON-COLLUSION AFFIDAVIT

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

(THIS AFFIDAVIT MUST BE EXECUTED FOR THE BID TO BE CONSIDERED)

STATE OF Mississippi)
COUNTY OF Lamar) ss.)

Nathan Smutzer (Person) being first duly sworn, deposes and says that he is President

(Sole owner, a partner, president, secretary, etc.)

of Precision Construction LLC (Name of Firm) the party making the foregoing Proposal or Bid;

that such Bid is genuine and not collusive; that said Bidder is not financially interested in, or otherwise affiliated in a business way with any other bidder on the same contract; that said Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Owner or any person or persons interested in the proposed contract; and that all statements contained in said Proposal or Bid are true; and further, that such Bidder has not, directly or indirectly submitted his Bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

N Smutzer
Affiant

Sworn to and subscribed before me this 2nd day of February, 2017.

Sharon Smutzer
Notary Public in and for

Forrest County,

(SEAL)

STATE OF MISSISSIPPI NOTARY PUBLIC ID # 76747 SHARON SMUTZER Commission Expires Feb. 21, 2017 FORREST COUNTY

My Commission Expires

_____, 20_____.

PROPOSED SUBCONTRACTORS

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

The names and addresses of all persons and parties who will be utilized for subcontract Work in the foregoing Bidder's Proposal are listed below. (The Contractor must list all Subcontractors to be utilized on the Work. Failure to list Subcontractors may cause the Bidder's Proposal to be rejected by the Owner as non-responsive.) If the Bidder does not propose Subcontractors, so state.

NAME	ADDRESS
Chain Electric Company	1308 W Pine Hatt, MS 39401
Doleac Electric Company Inc	1120 Finlo Dr Hattiesburg, MS 39401
Baur Corporation	223 Lynn Ray Rd Petal, MS 39465
Wilborn Tree Service	18 Delk Rd Hatt MS 39401

BID BOND

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned Twin L Construction, Inc. as Principal, and Endurance Assurance Corporation as Surety, are hereby held and firmly bound unto the Owner, in the penal sum of $ Five Percent (5%) of Amount Bid for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. Signed this 2nd day of February, 20 17.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner, a certain bid, attached hereto and hereby made a part hereof to enter into a contract in writing for the above referenced project.

NOW THEREFORE,

(a) If said Bid shall be rejected, or in the alternate,

(b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to signed by their proper officers, the day and year first set forth above.

Endurance Assurance Corporation

Contractor

SEAL

By: _____

Twin L Construction, Inc.

Surety

SEAL

By: _____

Garrett Turner, Attorney-in-Fact

ENDURANCE ASSURANCE CORPORATION

POAA000006510 114

POWER OF ATTORNEY

Know all Men by these Present, that ENDURANCE ASSURANCE CORPORATION, a Delaware corporation (the "Corporation"), with offices at 4 Manhattanville Road, 3rd Floor, Purchase, NY 10577, has made, constituted and appointed and by these presents, does make, constitute and appoint MARY CATHERINE TURNER, GARRETT TURNER, MEGHANN CATHERINE TURNER its true and lawful Attorney(s)-in-fact, at BATON ROUGE in the State of LA and each of them to have full power to act without the other or others, to make, execute and deliver on its behalf, as surety or co-surety; bonds and undertakings given for any and all purposes, also to execute and deliver on its behalf as aforesaid renewals, extensions, agreements, waivers, consents or stipulations relating to such bonds or undertakings provided, however, that no single bond or undertaking so made, executed and delivered shall obligate the Corporation for any portion of the penal sum thereof in excess of the sum of TEN MILLION Dollars ($10,000,000).

Such bonds and undertakings for said purposes, when duly executed by said attorney(s)-in-fact, shall be binding upon the Corporation as fully and to the same extent as if signed by the President of the Corporation under its corporate seal attested by its Corporate Secretary.

This appointment is made under and by authority of certain resolutions adopted by the Board of Directors of the Corporation by unanimous written consent on the 9th of January, 2014, a copy of which appears below under the heading entitled "Certificate".

This Power of Attorney is signed and sealed by facsimile under and by authority of the following resolution adopted by the Board of Directors of the Corporation by unanimous written consent on January 9, 2014 and said resolution has not since been revoked, amended or repealed:

RESOLVED, that in granting powers of attorney pursuant to certain resolutions adopted by the Board of Directors of the Corporation by unanimous written consent on January 9, 2014, the signature of such directors and officers and the seal of the Corporation may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signature or seal shall be valid and binding upon the Corporation in the future with respect to any bond or undertaking to which it is attached.

This Power of Attorney shall expire and all authority hereunder shall terminate without notice at midnight (Standard Time where said attorney(s)-in-fact is authorized to act.) December 7, 2019

IN WITNESS WHEREOF, the Corporation has caused these presents to be duly signed and its corporate seal to be hereunto affixed and attested this 2nd day of December, 2016 at Purchase, New York.

(Corporate Seal)
ATTEST

Marianne L Wilbert

MARIANNE L. WILBERT, SENIOR VICE PRESIDENT

ENDURANCE ASSURANCE CORPORATION

By Sharon L. Sims

SHARON L. SIMS, SENIOR VICE PRESIDENT

STATE OF NEW YORK ss: Purchase
COUNTY OF WESTCHESTER

On the 2nd day of December, 2016 before me personally came SHARON L. SIMS, SENIOR VICE PRESIDENT to me known, who being by me duly sworn, did depose and say that (s)he resides in SCOTCH PLAINS, NEW JERSEY that (s)he is a SENIOR VICE PRESIDENT of ENDURANCE ASSURANCE CORPORATION, the Corporation described in and which executed the above instrument; that (s)he knows the seal of said Corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Corporation; and that (s)he signed his (her) name thereto by like order.
(Notarial Seal)

QUALIFIED IN NEW YORK COUNTY COMM. EXP. 12/07/2019 NOTARY PUBLIC STATE OF NEW YORK

Nicholas James Benenati, Notary Public - My Commission Expires 12/07/2019

CERTIFICATE

STATE OF NEW YORK ss: Purchase
COUNTY OF WESTCHESTER

I, CHRISTOPHER DONELAN the PRESIDENT of ENDURANCE ASSURANCE CORPORATION, a Delaware Corporation (the "Corporation"), hereby certify:

1. That the original power of attorney of which the foregoing is a copy was duly executed on behalf of the Corporation and has not since been revoked, amended or modified; that the undersigned has compared the foregoing copy thereof with the original power of attorney, and that the same is a true and correct copy of the original power of attorney and of the whole thereof;

2. The following are resolutions which were adopted by the Board of Directors of the Corporation by unanimous written consent on January 9, 2014 and said resolutions have not since been revoked, amended or modified:

"RESOLVED, that each of the individuals named below is authorized to make, execute, seal and deliver for and on behalf of the Corporation any and all bonds, undertakings or obligations in surety or co-surety with others:

CHRISTOPHER DONELAN, SHARON L. SIMS, MARIANNE L. WILBERT

And be it further

RESOLVED, that each of the individuals named above is authorized to appoint attorneys-in-fact for the purpose of making, executing, sealing and delivering bonds, undertakings or obligations in surety or co-surety for and on behalf of the Corporation."

3. The undersigned further certifies that the above resolutions are true and correct copies of the resolutions as so recorded and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal this 2nd day of February, 2017

(Corporate Seal)

Christopher Donelan

CHRISTOPHER DONELAN, PRESIDENT

Any reproductions are void.
Primary Surety Claims Submission: suretybondclaims@enduranceservices.com
Surety Claims Hotline: 877-676-7575
Mailing Address: Endurance Surety Claims Department, 750 Third Avenue – 10th Floor, New York, NY 10017

COPY

BIDDER'S PROPOSAL

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

DATE: 2-1, 2017

PROPOSAL OF Twin L Const Inc.
(Name of Bidder)

8292 Firetower Rd Pass Christian, MS 39571
(Address of Bidder)

for construction of the Gordon's Creek – Depot District – Buschman Street to River Avenue Project.

The documents on which this Proposal is based include the Instructions to Bidders, Bid Forms, General Conditions, Supplementary Conditions, Supplemental General Conditions, Technical Specifications, Contract Drawings, and all supplements, amendments and addenda for this Project and are made a part hereof by reference.

TO: CITY OF HATTIESBURG
200 FORREST STREET
HATTIESBURG, MISSISSIPPI 39401

Gentlemen:

The following Proposal is submitted on behalf of the undersigned Bidder(s) and no others. Evidence of my (our) authority to submit the Proposal is hereby furnished. The Proposal is submitted without collusion on the part of any person, firm or corporation.

I (We), the undersigned Bidder(s), certify that I (we) have carefully examined the Instructions to Bidders, Bid Forms, General Conditions, Supplemental Conditions, Technical Specifications, Contract Drawings and any and all Addenda thereof.

I (We) further certify that I, (we) have visited and carefully examined the site of the proposed Work and have inspected the location and condition of all public utilities and existing structures or other facilities on the site or adjacent thereto which may be affected by the proposed construction and fully understand all conditions relative to construction difficulties, hazards, labor, transportation and all other factors affecting the prosecution of the work covered by this Proposal.

I (We) understand that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid. No increase in quantities of work shall be performed until a written change order is duly executed in advance and approved in the public minutes of the Owner.

In accordance with the requirements of the Instructions to Bidders, Bid Forms, Federal Supplement to Bidder's Proposal, Technical Specifications, General Conditions, Supplementary Conditions, Contract Drawings, and any Addenda, I (we) propose to furnish all necessary materials, equipment, labor, tools and other means of construction and will do all Work called for by the Contract Documents within the specified Contract Time. The following is my (our) itemized proposal for the project:

Prices Bid and Approximate Quantities – Base Bid

Pay Item	Description	Qty	Unit	Unit Price	Price Extension
201-B	CLEARING AND GRUBBING	1	LS	XXXX	$12,000.00
202-A	REMOVAL OF OBSTRUCTIONS	1	LS	XXXX	$ 2,500.00
202-B	REMOVAL OF TREES, UNDER 10"	10	EACH	$500.00	$ 5,000.00
202-B	REMOVAL OF TREES, 10"-20"	4	EACH	$ 750.00	$ 3,000.00
202-B	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS	14	SY	$ 12.00	$ 168.00
202-B	REMOVE AND RESET RIPRAP	110	SY	$ 28.00	$ 3,080.00
203-I	SITE GRADING	240	SY	$ 5.00	$ 1,200.00
203-A	UNCLASSIFIED EXCAVATION, FM, AH	50	CY	$ 12.00	$ 600.00
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	80	CY	$ 21.00	$ 1,680.00
203-EX	BORROW EXCAVATION, FM, CLASS B7-6, AH	120	CY	$ 21.00	$ 2,520.00
203-G	EXCESS EXCAVATION, FM, AH	250	CY	$ 9.00	$ 2,250.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	70	CY	$ 23.00	$ 1,610.00
211-D	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED	2	CY	$ 23.00	$ 46.00
907-216-B	SOLID SODDING, CENTIPEDE	600	SY	$ 8.00	$ 4,800.00
219-A	WATERING	155	KGAL	$20	$3,100
220-A	INSECT PEST CONTROL	1	ACRE	$ 7500.00	$ 7,500.00
907-230-B	TREE PLANTING, LITTLE GEM MAGNOLIA	8	EACH	$ 325.00	$ 325.00
907-230-B	TREE PLANTING, WINGED ELM	4	EACH	$ 325.00	$ 1,300.00
232-A	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	36	EACH	$ 65.00	$ 2,340.00
233-A	TREE BARK MULCH, TYPE III	2	CY	$ 225.00	$ 450.00
233-A	TREE BARK MULCH, TYPE V	3	CY	$ 200.00	$ 600.00
907-282-M	SLOW RELEASE IRRIGATION BAG	12	EACH	$ 65.00	$ 780.00
234-A	TEMPORARY SILT FENCE	680	LF	$ 4.25	$ 2,890.00
907-237-A	WATTLES	100	LF	$ 12.00	$ 1,200.00
907-246-A	SANDBAGS	100	LF	$ 18.00	$ 1,800.00
907-258-PP	HANDRAIL, PER PLANS	130	LF	$ 125.00	$16,250.00

608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	478	SY	$ 56.00	$ 26,768.00
618-A	MAINTENANCE OF TRAFFIC	1	LS	XXXX	$ 12,500.00
618-B	ADDITIONAL CONSTRUCTION SIGNS	1	SF	$10	$10
620-A	MOBILIZATION	1	LS	XXXX	$ 30,000.00
699-A	ROADWAY CONSTRUCTION STAKES	1	LS	XXXX	$ 15,000.00
815-B	GROUTED RIPRAP, SIZE 100	290	SY	$ 42.00	$ 12,180.00
815-E	GEOTEXTILE UNDER GROUTED RIPRAP, TYPE V, NON-WOVEN	350	SY	$ 4.25	$ 1,487.50
907-258-PP	PEDESTRIAN BOARDWALK, PER PLANS	500	SF	$ 70.00	$ 35,000.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	365	LF	$ 8.50	$ 3,102.50
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 6, 3 CONDUCTORS	220	LF	$ 10.50	$ 2,310.00
682-C	STRUCTURE MOUNTED BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	140	LF	$ 20.60	$ 2,884.00
682-D	STRUCTURE MOUNTED PULLBOX	2	EACH	$ 325.00	$ 650.00
682-F	SECONDARY POWER CONTROLLER	1	EACH	$ 11,525.00	$ 11,525.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	9	EACH	$ 5,625.00	$ 50,625.00
907-683-PP002	LIGHTING ASSEMBLY, HANDRAIL, TYPE HR	4	EACH	$ 487.50	$ 1,950.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	9	CY	$ 1,360.00	$ 12,240.00
			TOTAL BASE BID $	297,221.00	

Prices Bid and Approximate Quantities – Additive Alternate No. 1					
Pay Item	**Description**	**Qty**	**Unit**	**Unit Price**	**Price Extension**
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	50	CY	$ 18.00	$ 900.00
203-G	EXCESS EXCAVATION, FM, AH	100	CY	$ 9.00	$ 900.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	30	CY	$ 23.00	$ 690.00
907-216-B	SOLID SODDING, CENTIPEDE	300	SY	$ 8.00	$ 2400.00
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	267	SY	$ 56.00	$ 14,952.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	230	LF	$ 8.50	$ 1,955.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	3	EA	$ 5,625.00	$ 16,875.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	3	CY	$ 1,360.00	$ 4,080.00
			TOTAL ADDITIVE ALTERNATE NO. 1 $	$42,752.00	

THE BIDDER'S TOTAL ABOVE IS HIS TOTAL BID BASED ON HIS UNIT PRICES AND LUMP SUM PRICES AND THE ESTIMATED QUANTITIES. THIS FIGURE IS FOR INFORMATION ONLY AT THE TIME OF OPENING BIDS. THE OWNER WILL MAKE THE BID TABULATION FROM THE UNIT PRICES AND LUMP SUM PRICES BID. IF THERE IS AN ERROR IN THE TOTAL BY THE BIDDER, IT SHALL BE CHANGED AS ONLY THE UNIT PRICES AND LUMP SUM PRICES SHALL GOVERN.

NOTE: FAILURE OF BIDDER TO INCLUDE PRICES FOR THE ALTERNATE BID ITEMS MAY RENDER HIS PROPOSAL NON-RESPONSIVE.
NOTE: Bids shall include sales tax and all other applicable taxes and fees.

I (We) further propose to execute the Contract Agreement as bound herein within ten working days after receipt of Contract Forms from the Owner and to complete the work within the contract time. I (We) agree to pay as liquidated damages the actual costs, expenses and other losses reasonably incurred by Owner for each consecutive calendar day beyond the specified Contract Time.

I (We) also propose to execute a Performance Bond and a Payment Bond, as shown in the Specifications, each in an amount of not less than one hundred percent (100%) of the total of my (our) Bid. These Bonds shall not only serve to guarantee the completion of the Work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the Work is finally accepted.

I (We) enclose a Bid Bond or Certified Check for 5 percent of two hundred ninety-seven thousand two hundred twenty-one and 00/100 DOLLARS ($ 297,221.00)
(Base Bid Amount)

and hereby agree that in case of my (our) failure to execute the Contract and furnish the Bonds within ten calendar days after delivery of the Notice of Award, the amount of this check (Bid Bond) will be forfeited to the Owner as liquidated damages arising out of my (our) failure to execute the Contract as proposed.

It is understood that in case I (we) am (are) not awarded the Work, the Certified Check or Bid Bond submitted as Bid security will be returned as stipulated in the Contract Documents.

Bidder acknowledges receipt of the following Addenda:

No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____

Respectfully Submitted,

Michael Lolin
Contractor(s)

By: President
Title

8292 Firetower Rd
Pass Christian, MS 39571
Address

BIDDER'S CORPORATE DECLARATION

(TO BE FILLED IN IF BIDDER IS A CORPORATION)

Date: 2-1, 2017.

Our corporation is chartered under the Laws of the state of MS and the names, titles and business addresses of the executives are as follows:

Richard Ladner
President

Kathy Ladner
Secretary

8292 Firetower Rd
Pass Christian, MS 39571

Same

Kathy Ladner
Treasurer

Same

DECLARATION OF PARTNERSHIP

(To be filled in if a Bidder is a Partnership)

Our Partnership is composed of the following individuals:

Address

Address

NON-COLLUSION AFFIDAVIT

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

(THIS AFFIDAVIT MUST BE EXECUTED FOR THE BID TO BE CONSIDERED)

STATE OF MS)
COUNTY OF Harrison) ss.

Richard Ladner (Person) being first duly sworn,
deposes and says that he is President

(Sole owner, a partner, president, secretary, etc.)

of Twin L Const Inc, (Name of Firm) the party making the foregoing Proposal or Bid;

that such Bid is genuine and not collusive; that said Bidder is not financially interested in, or otherwise affiliated in a business way with any other bidder on the same contract; that said Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Owner or any person or persons interested in the proposed contract; and that all statements contained in said Proposal or Bid are true; and further, that such Bidder has not, directly or indirectly submitted his Bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

Richard Ladner
Affiant

Sworn to and subscribed before me this 1 day of Feb, 2017.

Janet Ladner
Notary Public in and for
Harrison County,

(SEAL)

HARRISON COUNTY NOTARY PUBLIC ID # 24789 My Commission Expires 3-31-17 JANET LADNER MISSISSIPPI

My Commission Expires
3-31, 2017.

PROPOSED SUBCONTRACTORS

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

The names and addresses of all persons and parties who will be utilized for subcontract Work in the foregoing Bidder's Proposal are listed below. (The Contractor must list all Subcontractors to be utilized on the Work. Failure to list Subcontractors may cause the Bidder's Proposal to be rejected by the Owner as non-responsive.) If the Bidder does not propose Subcontractors, so state.

NAME	ADDRESS

BID BOND

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned Floore Industrial Contractors, Inc. as Principal, and Merchants Bonding Company(Mutual) as Surety, are hereby held and firmly bound unto the Owner, in the penal sum of $Five Percent of Bid Amount 5% for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. Signed this 2nd day of February, 20 17.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner, a certain bid, attached hereto and hereby made a part hereof to enter into a contract in writing for the above referenced project.

NOW THEREFORE,

(a) If said Bid shall be rejected, or in the alternate,

(b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to signed by their proper officers, the day and year first set forth above.

Floore Industrial Contractors, Inc.

Contractor

SEAL

X By: Bruce Howell

Merchants Bonding Company (Mutual)

Surety

SEAL

By: Angie M. Strickland

Angie M. Strickland, Attorney in Fact

MERCHANTS
BONDING COMPANY™

POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Angie M Strickland; John A Chalk Jr; William L Painter

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

TEN MILLION ($10,000,000.00) DOLLARS

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 4th day of February, 2016.

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By Larry Taylor
President

STATE OF IOWA
COUNTY OF Dallas ss.

On this 4th day of February, 2016, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

NOTARIAL SEAL IOWA
WENDY WOODY
Commission Number 784654
My Commission Expires
June 20, 2017

Wendy Woody
Notary Public, Polk County, Iowa

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 2nd day of February, 2017.

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

William Warner Jr.
Secretary

POA 0014 (6/15)

BIDDER'S PROPOSAL

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

DATE: Feb. 1, 20 17

PROPOSAL OF Floore Industrial Contractors, Inc.
(Name of Bidder)

4401-4 Wilson Springs rd. Moss Point Ms 39562
(Address of Bidder)

for construction of the Gordon's Creek – Depot District – Buschman Street to River Avenue Project.

The documents on which this Proposal is based include the Instructions to Bidders, Bid Forms, General Conditions, Supplementary Conditions, Supplemental General Conditions, Technical Specifications, Contract Drawings, and all supplements, amendments and addenda for this Project and are made a part hereof by reference.

TO: CITY OF HATTIESBURG
200 FORREST STREET
HATTIESBURG, MISSISSIPPI 39401

Gentlemen:

The following Proposal is submitted on behalf of the undersigned Bidder(s) and no others. Evidence of my (our) authority to submit the Proposal is hereby furnished. The Proposal is submitted without collusion on the part of any person, firm or corporation.

I (We), the undersigned Bidder(s), certify that I (we) have carefully examined the Instructions to Bidders, Bid Forms, General Conditions, Supplemental Conditions, Technical Specifications, Contract Drawings and any and all Addenda thereof.

I (We) further certify that I, (we) have visited and carefully examined the site of the proposed Work and have inspected the location and condition of all public utilities and existing structures or other facilities on the site or adjacent thereto which may be affected by the proposed construction and fully understand all conditions relative to construction difficulties, hazards, labor, transportation and all other factors affecting the prosecution of the work covered by this Proposal.

I (We) understand that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid. No increase in quantities of work shall be performed until a written change order is duly executed in advance and approved in the public minutes of the Owner.

In accordance with the requirements of the Instructions to Bidders, Bid Forms, Federal Supplement to Bidder's Proposal, Technical Specifications, General Conditions, Supplementary Conditions, Contract Drawings, and any Addenda, I (we) propose to furnish all necessary materials, equipment, labor, tools and other means of construction and will do all Work called for by the Contract Documents within the specified Contract Time. The following is my (our) itemized proposal for the project:

Prices Bid and Approximate Quantities – Base Bid

Pay Item	Description	Qty	Unit	Unit Price	Price Extension
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202-A	REMOVAL OF OBSTRUCTIONS	1	LS	XXXX	6000.00
202-B	REMOVAL OF TREES, UNDER 10"	10	EACH	300.00	3,000.00
202-B	REMOVAL OF TREES, 10"-20"	4	EACH	500.00	2000.00
202-B	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS	14	SY	38.00	532.00
202-B	REMOVE AND RESET RIPRAP	110	SY	15.00	1650.00
203-I	SITE GRADING	240	SY	20.00	4800.00
203-A	UNCLASSIFIED EXCAVATION, FM, AH	50	CY	11.00	550.00
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	80	CY	16.00	1280.00
203-EX	BORROW EXCAVATION, FM, CLASS B7-6, AH	120	CY	18.00	2160.00
203-G	EXCESS EXCAVATION, FM, AH	250	CY	14.00	3500.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	70	CY	28.00	1960.00
211-D	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED	2	CY	28.00	56.00
907-216-B	SOLID SODDING, CENTIPEDE	600	SY	5.00	3000.00
219-A	WATERING	155	KGAL	$20	$3,100
220-A	INSECT PEST CONTROL	1	ACRE	500.00	500.00
907-230-B	TREE PLANTING, LITTLE GEM MAGNOLIA	8	EACH	400.00	3200.00
907-230-B	TREE PLANTING, WINGED ELM	4	EACH	800.00	3200.00
232-A	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	36	EACH	40.00	1440.00
233-A	TREE BARK MULCH, TYPE III	2	CY	80.00	160.00
233-A	TREE BARK MULCH, TYPE V	3	CY	90.00	270.00
907-282-M	SLOW RELEASE IRRIGATION BAG	12	EACH	100.00	1200.00
234-A	TEMPORARY SILT FENCE	680	LF	5.00	3400.00
907-237-A	WATTLES	100	LF	8.00	800.00
907-246-A	SANDBAGS	100	LF	20.00	2000.00
907-258-PP	HANDRAIL, PER PLANS	130	LF	20.00	2600.00

608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	478	SY	52.00	24,856.00
618-A	MAINTENANCE OF TRAFFIC	1	LS	XXXX	15,000.00
618-B	ADDITIONAL CONSTRUCTION SIGNS	1	SF	$10	$10
620-A	MOBILIZATION	1	LS	XXXX	20,000.00
699-A	ROADWAY CONSTRUCTION STAKES	1	LS	XXXX	4000.00
815-B	GROUTED RIPRAP, SIZE 100	290	SY	40.00	11,600.00
815-E	GEOTEXTILE UNDER GROUTED RIPRAP, TYPE V, NON-WOVEN	350	SY	4.00	1400.00
907-258-PP	PEDESTRIAN BOARDWALK, PER PLANS	500	SF	62.00	31,000.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	365	LF	8.50	3102.50
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 6, 3 CONDUCTORS	220	LF	10.50	2310.00
682-C	STRUCTURE MOUNTED BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	140	LF	20.00	2800.00
682-D	STRUCTURE MOUNTED PULLBOX	2	EACH	315.00	630.00
682-F	SECONDARY POWER CONTROLLER	1	EACH	11,100.00	11100.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	9	EACH	5400.00	48600.00
907-683-PP002	LIGHTING ASSEMBLY, HANDRAIL, TYPE HR	4	EACH	475.00	1900.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	9	CY	1350.00	12,150.00
				TOTAL BASE BID $	246,816.50

Prices Bid and Approximate Quantities – Additive Alternate No. 1					
Pay Item	**Description**	**Qty**	**Unit**	**Unit Price**	**Price Extension**
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	50	CY	16.00	800.00
203-G	EXCESS EXCAVATION, FM, AH	100	CY	14.00	1400.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	30	CY	28.00	840.00
907-216-B	SOLID SODDING, CENTIPEDE	300	SY	5.00	1500.00
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	267	SY	52.00	13884.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	230	LF	10.50	2415.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	3	EA	5400.00	16200.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	3	CY	1350.00	4050.00
				TOTAL ADDITIVE ALTERNATE NO. 1 $	41,089.00

THE BIDDER'S TOTAL ABOVE IS HIS TOTAL BID BASED ON HIS UNIT PRICES AND LUMP SUM PRICES AND THE ESTIMATED QUANTITIES. THIS FIGURE IS FOR INFORMATION ONLY AT THE TIME OF OPENING BIDS. THE OWNER WILL MAKE THE BID TABULATION FROM THE UNIT PRICES AND LUMP SUM PRICES BID. IF THERE IS AN ERROR IN THE TOTAL BY THE BIDDER, IT SHALL BE CHANGED AS ONLY THE UNIT PRICES AND LUMP SUM PRICES SHALL GOVERN.

NOTE: FAILURE OF BIDDER TO INCLUDE PRICES FOR THE ALTERNATE BID ITEMS MAY RENDER HIS PROPOSAL NON-RESPONSIVE.
NOTE: Bids shall include sales tax and all other applicable taxes and fees.

I (We) further propose to execute the Contract Agreement as bound herein within ten working days after receipt of Contract Forms from the Owner and to complete the work within the contract time. I (We) agree to pay as liquidated damages the actual costs, expenses and other losses reasonably incurred by Owner for each consecutive calendar day beyond the specified Contract Time.

I (We) also propose to execute a Performance Bond and a Payment Bond, as shown in the Specifications, each in an amount of not less than one hundred percent (100%) of the total of my (our) Bid. These Bonds shall not only serve to guarantee the completion of the Work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the Work is finally accepted.

I (We) enclose a Bid Bond or Certified Check for 5 percent of _____
_____, DOLLARS ($_____)
(Base Bid Amount)

and hereby agree that in case of my (our) failure to execute the Contract and furnish the Bonds within ten calendar days after delivery of the Notice of Award, the amount of this check (Bid Bond) will be forfeited to the Owner as liquidated damages arising out of my (our) failure to execute the Contract as proposed.

It is understood that in case I (we) am (are) not awarded the Work, the Certified Check or Bid Bond submitted as Bid security will be returned as stipulated in the Contract Documents.

Bidder acknowledges receipt of the following Addenda:

No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____
No. _____ Dated _____ No. _____ Dated _____

Respectfully Submitted,

Floore Industrial Contractors, Inc.
Contractor(s)

By: Bruce Howell Sec/Treasurer
Title

4401-4 Wilson Springs rd.
Moss Point, Ms. 39562
Address

BIDDER'S CORPORATE DECLARATION

(TO BE FILLED IN IF BIDDER IS A CORPORATION)

Date: Feb. 1, 20 17.

Our corporation is chartered under the Laws of the state of Mississippi and the names, titles and business addresses of the executives are as follows:

Prentis Floore President	Bruce Howell Secretary
Bruce Howell Treasurer	

DECLARATION OF PARTNERSHIP

(To be filled in if a Bidder is a Partnership)

Our Partnership is composed of the following individuals:

Address	Address

NON-COLLUSION AFFIDAVIT

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

(THIS AFFIDAVIT MUST BE EXECUTED FOR THE BID TO BE CONSIDERED)

STATE OF Mississippi)
COUNTY OF Jackson) ss.)

Bruce Howell being first duly sworn,
(Person)
deposes and says that he is Secretary / Treasurer

(Sole owner, a partner, president, secretary, etc.)

of Floore Industrial Contractors the party making the foregoing Proposal or Bid;
(Name of Firm)

that such Bid is genuine and not collusive; that said Bidder is not financially interested in, or otherwise affiliated in a business way with any other bidder on the same contract; that said Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Owner or any person or persons interested in the proposed contract; and that all statements contained in said Proposal or Bid are true; and further, that such Bidder has not, directly or indirectly submitted his Bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

Bruce Howell
Affiant

Sworn to and subscribed before me this 1 day of February, 2017.

Angela Hunt
Notary Public in and for
Jackson County,

STATE OF MISSISSIPPI NOTARY PUBLIC ID # 58386 ANGELA HUNT Commission Expires Jan. 25, 2020 JACKSON COUNTY

(SEAL)

My Commission Expires
1-25, 2020.

PROPOSED SUBCONTRACTORS

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

The names and addresses of all persons and parties who will be utilized for subcontract Work in the foregoing Bidder's Proposal are listed below. (The Contractor must list all Subcontractors to be utilized on the Work. Failure to list Subcontractors may cause the Bidder's Proposal to be rejected by the Owner as non-responsive.) If the Bidder does not propose Subcontractors, so state.

NAME	ADDRESS
Traffic Control Products	PO Box 820 Brandon MS
Chain electric	1308 West Pines Road Hattiesburg MS

CITY OF HATTIESBURG
GORDON'S CREEK – DEPOT DISTRICT / BUSCHMAN ST. TO RIVER AVE.

Prices Bid and Approximate Quantities – Base Bid

				Precision Construction 15 Chanticleer Drive Hattiesburg, MS 39402		Floore Industrial 4401-4 Wilson Springs Road Moss Point, MS 39562		Twin L Construction 8292 Firetower Road Pass Christian, MS 39571	
Pay Item	**Description**	**Qty**	**Unit**	**Unit Price**	**Price Extension**	**Unit Price**	**Price Extension**	**Unit Price**	**Price Extension**
201-B	CLEARING AND GRUBBING	1	LS	2,500.00	$2,500.00	4,000.00	$4,000.00	12,000.00	$12,000.00
202-A	REMOVAL OF OBSTRUCTIONS	1	LS	2,800.00	$2,800.00	6,000.00	$6,000.00	2,500.00	$2,500.00
202-B	REMOVAL OF TREES, UNDER 10"	10	EACH	350.00	$3,500.00	300.00	$3,000.00	500.00	$5,000.00
202-B	REMOVAL OF TREES, 10"-20"	4	EACH	650.00	$2,600.00	500.00	$2,000.00	750.00	$3,000.00
202-B	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS	14	SY	30.00	$420.00	38.00	$532.00	12.00	$168.00
202-B	REMOVE AND RESET RIPRAP	110	SY	50.00	$5,500.00	15.00	$1,650.00	28.00	$3,080.00
203-I	SITE GRADING	240	SY	4.00	$960.00	20.00	$4,800.00	5.00	$1,200.00
203-A	UNCLASSIFIED EXCAVATION, FM, AH	50	CY	16.00	$800.00	11.00	$550.00	12.00	$600.00
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	80	CY	14.00	$1,120.00	16.00	$1,280.00	21.00	$1,680.00
203-EX	BORROW EXCAVATION, FM, CLASS B7-6, AH	120	CY	12.00	$1,440.00	18.00	$2,160.00	21.00	$2,520.00
203-G	EXCESS EXCAVATION, FM, AH	250	CY	10.00	$2,500.00	14.00	$3,500.00	9.00	$2,250.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	70	CY	25.00	$1,750.00	28.00	$1,960.00	23.00	$1,610.00
211-D	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED	2	CY	50.00	$100.00	28.00	$56.00	23.00	$46.00
907-216-B	SOLID SODDING, CENTIPEDE	600	SY	5.00	$3,000.00	5.00	$3,000.00	8.00	$4,800.00
219-A	WATERING	155	KGAL	20.00	$3,100.00	20.00	$3,100.00	20.00	$3,100.00
220-A	INSECT PEST CONTROL	1	ACRE	200.00	$200.00	500.00	$500.00	7,500.00	$7,500.00
907-230-B	TREE PLANTING, LITTLE GEM MAGNOLIA	8	EACH	300.00	$2,400.00	400.00	$3,200.00	325.00	$2,600.00 *#1*
907-230-B	TREE PLANTING, WINGED ELM	4	EACH	300.00	$1,200.00	800.00	$3,200.00	325.00	$1,300.00
232-A	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 21 GRAM	36	EACH	2.00	$72.00	40.00	$1,440.00	65.00	$2,340.00
233-A	TREE BARK MULCH, TYPE III	2	CY	400.00	$800.00	80.00	$160.00	225.00	$450.00
233-A	TREE BARK MULCH, TYPE V	3	CY	400.00	$1,200.00	90.00	$270.00	200.00	$600.00
907-282-M	SLOW RELEASE IRRIGATION BAG	12	EACH	40.00	$480.00	100.00	$1,200.00	65.00	$780.00
234-A	TEMPORARY SILT FENCE	680	LF	3.00	$2,040.00	5.00	$3,400.00	4.25	$2,890.00
907-237-A	WATTLES	100	LF	10.00	$1,000.00	8.00	$800.00	12.00	$1,200.00
907-246-A	SANDBAGS	100	LF	10.00	$1,000.00	20.00	$2,000.00	18.00	$1,800.00
907-258-PP	HANDRAIL, PER PLANS	130	LF	25.00	$3,250.00	20.00	$2,600.00	125.00	$16,250.00
608-A	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5" THICKNESS	478	SY	42.00	$20,076.00	52.00	$24,856.00	56.00	$26,768.00
618-A	MAINTENANCE OF TRAFFIC	1	LS	5,500.00	$5,500.00	15,000.00	$15,000.00	12,500.00	$12,500.00
618-B	ADDITIONAL CONSTRUCTION SIGNS	1	SF	10.00	$10.00	10.00	$10.00	10.00	$10.00
620-A	MOBILIZATION	1	LS	23,000.00	$23,000.00	20,000.00	$20,000.00	30,000.00	$30,000.00
699-A	ROADWAY CONSTRUCTION STAKES	1	LS	3,500.00	$3,500.00	4,000.00	$4,000.00	15,000.00	$15,000.00
815-B	GROUTED RIPRAP, SIZE 100	290	SY	80.00	$23,200.00	40.00	$11,600.00	42.00	$12,180.00

Prices Bid and Approximate Quantities – Base Bid

				Precision Construction 15 Chanticleer Drive Hattiesburg, MS 39402		Floore Industrial 4401-4 Wilson Springs Road Moss Point, MS 39562		Twin L Construction 8292 Firetower Road Pass Christian, MS 39571	
815-E	GEOTEXTILE UNDER GROUTED RIPRAP, TYPE V, NON-WOVEN	350	SY	3.00	$1,050.00	4.00	$1,400.00	4.25	$1,487.50
907-258-PP	PEDESTRIAN BOARDWALK, PER PLANS	500	SF	40.00	$20,000.00	62.00	$31,000.00	70.00	$35,000.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	365	LF	8.80	$3,212.00	8.50	$3,102.50	8.50	$3,102.50
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 6, 3 CONDUCTORS	220	LF	10.25	$2,255.00	10.50	$2,310.00	10.50	$2,310.00
682-C	STRUCTURE MOUNTED BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	140	LF	16.00	$2,240.00	20.00	$2,800.00	20.60	$2,884.00
682-D	STRUCTURE MOUNTED PULLBOX	2	EACH	375.00	$750.00	315.00	$630.00	325.00	$650.00
682-F	SECONDARY POWER CONTROLLER	1	EACH	12,500.00	$12,500.00	11,100.00	$11,100.00	11,525.00	$11,525.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	9	EACH	6,000.00	$54,000.00	5,400.00	$48,600.00	5,625.00	$50,625.00
907-683-PP002	LIGHTING ASSEMBLY, HANDRAIL, TYPE HR	4	EACH	500.00	$2,000.00	475.00	$1,900.00	487.50	$1,950.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	9	CY	900.00	$8,100.00	1,350.00	$12,150.00	1,360.00	$12,240.00
	TOTAL BASE BID $				**$227,125.00**		**$246,816.50**		**$299,496.00** *#2*

Prices Bid and Approximate Quantities – Additive Alternate No. 1

Pay Item	Description	Qty	Unit	Unit Price	Price Extension	Unit Price	Price Extension	Unit Price	Price Extension
203-EX	BORROW EXCAVATION, FM, CLASS B9, AH	50	CY	14.00	$700.00	16.00	$800.00	18.00	$900.00
203-G	EXCESS EXCAVATION, FM, AH	100	CY	10.00	$1,000.00	14.00	$1,400.00	9.00	$900.00
211-B	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED	30	CY	25.00	$750.00	28.00	$840.00	23.00	$690.00
907-216-B	SOLID SODDING, CENTIPEDE	300	SY	5.00	$1,500.00	5.00	$1,500.00	8.00	$2,400.00
608-a	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT, 5 INCH THICKNESS	267	SY	42.00	$11,214.00	52.00	$13,884.00	56.00	$14,952.00
682-A	UNDERGROUND BRANCH CIRCUIT, AWG 10, 3 CONDUCTORS	230	LF	8.80	$2,024.00	10.50	$2,415.00	8.50	$1,955.00
907-683-PP001	LIGHTING ASSEMBLY, LOW MAST, TYPE 15-0-1-95LED	3	EA	6,000.00	$18,000.00	5,400.00	$16,200.00	5,625.00	$16,875.00
684-A	POLE FOUNDATIONS, 24" DIAMETER	3	CY	1,200.00	$3,600.00	1,350.00	$4,050.00	1,360.00	$4,080.00
	TOTAL ADDITIVE ALTERNATE NO. 1 $				**$38,788.00**		**$41,089.00**		**$42,752.00**

#1 Incorrect Unit Price Extension - Bid Proposal reflected $325.00 #2 Incorrect Total Base Bid - Bid Proposal reflected $297,221.00

I certifiy this to be a true & accurate Bid Tabulation of the bids received @ 10:00a.m., local time, Thursday, February 2nd, 2017 for the Gordon's Creek - Depot District / Buschman Street to River Avenue Project for the City of Hattiesburg, Mississippi.

GEOFFREY PAUL CROSBY
LICENSED PROFESSIONAL ENGINEER
19984
STATE OF MISSISSIPPI

Geoffrey Crosby, P.E.
Mississippi Registration #19984

INSTRUCTIONS TO BIDDERS

GORDON'S CREEK – DEPOT DISTRICT
BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

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1. COORDINATION OF SPECIFICATIONS

Work under this Contract shall be performed in accordance with the Contract Documents, which includes General Conditions, Supplementary Conditions and Technical Specifications contained therein. Division 200 through 800 of the *Mississippi Standard Specifications for Road and Bridge Construction*, 2004 Edition (can be downloaded at www.gomdot.com) is made a part hereof as if it were attached hereto, except where superseded by special provisions contained herein.

2. DATE AND PLACE OF OPENING OF PROPOSALS

The date, time, and place for opening Proposals will be as set out in the published "Advertisement for Bids."

The Owner reserves the right to postpone the date for presentation and opening of Proposals and will give notice of any such postponement to each known prospective Bidder.

3. FORM FOR PROPOSALS

Proposals must be submitted in duplicate on the forms furnished by the Owner and the envelope containing the Proposals must be sealed and addressed to:

City Clerk
City of Hattiesburg
200 Forrest Street
Hattiesburg, Mississippi 39401

The outside of the envelope containing the Proposal shall bear the inscription:

SEALED BID FOR: GORDON'S CREEK-DEPOT DISTRICT-BUSCHMAN STREET TO RIVER AVENUE
CITY OF HATTIESBURG, MISSISSIPPI

BY _____

Certificate of Responsibility No. _____

State License No. _____

The duplicate Proposals shall be in the form of one original Proposal, marked "ORIGINAL" and one photocopy (Xerox or similarly reproduced copy) marked 'PHOTOCOPY" of the original Proposal.

If Proposals are forwarded by the U.S. Postal Service, delivery shall be by Registered or Certified Mail.

4. PREQUALIFICATION

All Bidders must be in good standing with the Owner. Bidders who are not in good standing with the Owner will not be considered for award of the contract. Good standing includes, among other things: (a) whether Bidder has failed to successfully complete the work or punchlist items under another Owner contract; (b) whether Bidder is currently, or has been in the past five years, involved in litigation with the Owner regarding work under another Owner contract, either as a general contractor or subcontractor; (c) whether Bidder has been or is currently in default under another Owner contract the past five years. with the Owner; <u>or</u> (d) whether Bidder has failed to fulfill provisions of another Owner contract within

5. CERTIFICATE OF RESPONSIBILITY

Prior to filing Bids on Owner projects (in excess of $50,000), the prospective Bidder must obtain a Certificate of Responsibility from the Mississippi State Board of Public Contractors, establishing his classification as to the value and the type of construction on which he is authorized to bid. Application must be submitted to the Board at least 30 days prior to a regular Board meeting scheduled every Quarter on the first Tuesday of January, April, July and October.

6. ANNUAL LICENSE TO BID (Not Used)

7. CHARGES FOR PROPOSALS, PLANS AND SPECIFICATIONS

Prospective Bidders may obtain Proposal forms including one copy of Contract Documents upon payment of the amount of money stipulated in the "Advertisement for Bids."

No refunds will be made for return of Plans or Specifications.

In the event all Bids are rejected and the Project is re-advertised, the original Bidders shall **NOT** be entitled to free Bidders Proposal forms for the subsequent letting.

8. OMISSIONS AND DISCREPANCIES

Should a Bidder find discrepancies, errors or omissions in the Drawings or Specifications, or should he be in doubt as to the correctness of the Plan details, dimensions and layout, he should immediately notify the Engineer in order to permit checking and any necessary revisions or modifications.

9. ADDENDA

Prior to the date set for opening of Bids, the right is reserved, in the interests of the Owner, as it may require, to revise or amend the Contract Documents. Such revisions, if any, will be announced by an Addendum or Addenda, and copies of such Addenda will be furnished to all prospective Bidders who have purchased Plans and Specifications for acknowledgment by return fax. If the revisions and Addenda are of a nature which require material changes in quantities or prices Bid, or both, the date set for opening Bids may be postponed to enable Bidders to revise their Bids. In such case, the Addendum or Addenda will include an announcement of the new date for opening Bids.

10. INTERPRETATIONS

No oral interpretation made to any Bidder as to the meaning of the Contract Documents shall be

considered an effective modification of any of the provisions of the Contract Documents. In order to ensure appropriate and concise responses, and avoid any misinterpretations, no verbal questions will be received. Written requests for interpretation of the Plans and Specifications shall be submitted to the Engineer at least 10 days prior to opening of Proposals so that a formal decision can be given in writing to all known prospective Bidders in the form of an Addendum. The Contract Document contains the provisions required for the construction of the Project. Information obtained from an officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

11. BID SECURITY

All Bids shall be accompanied by a Bid Security in the form of a Certified Check upon a national or state bank or a Bid Bond made by a bonding company registered in the State of Mississippi, drawn and made payable to the Owner in an amount equal to five percent of the Bid. The Certified Check or Bid Bond must be enclosed in the same envelope with the Bid. Except as noted below, the Bid Security of all known unsuccessful Bidders will be returned promptly after a Notice of Award has been sent to the successful Bidder or in the event that all Bids are rejected.

The Bid Security of the next two lowest qualified Bidders will be retained until the Contract has been executed with the lowest qualified Bidder. The Bid Security of the successful Bidder will be returned when satisfactory Performance and Payment Bonds have been furnished and approved and the Contract executed.

12. GENERAL INFORMATION

Bidders shall inform themselves and comply with all pertinent Owner regulations and ordinances, State and Federal laws, licenses and tax liabilities which may in any manner affect their Bids and the prosecution of the work. The successful bidder will be responsible for obtaining all building, plumbing, and electrical permits required by the local city government. Special attention is directed to the rules and regulations published by the Mississippi State Tax Commission outlining certain taxes imposed on Contractors by the state of Mississippi.

13. REJECTION OF PROPOSAL

Proposals may be rejected in the case of any omission, alterations of forms, additions or conditions not called for, unauthorized alternate Bids, incomplete Bids, erasures or irregularities of any kind. Bids received conditioning their consideration or rejection upon Bids for the other work submitted by the same Bidder may be classed as irregular, unless the Contract Documents specifically invite or permit conditional or combination Bids. Bids in which the prices obviously are unbalanced may be rejected.

14. CONDITIONS OF WORK

Each Bidder must inform himself fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder of his obligation to furnish all materials and labor necessary to carry out the provisions of his Contract. Insofar as possible, the Contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other Contractor.

15. SECURITY FOR FAITHFUL PERFORMANCE

Simultaneously with his delivery of the Executed Contract, the Contractor shall furnish a Performance Bond and a Payment Bond each in the sum of 100% of the Contract amount as security for faithful performance of his Contract and for the payment of all persons performing labor on the Project under his Contract and furnishing materials in connection with his Contract, as specified in the Contract Documents. The surety of such Bonds shall be issued by a duly authorized surety company listed on the Treasury Department's most current list Circular 570 (as amended) and satisfactory to the Owner.

Attorneys in fact who sign Bid Bonds or Payment Bonds and Performance Bonds must file with each bond a certified and effective dated copy of their Power of Attorney. Failure of the successful Bidder to execute the Contract and to supply the required bonds within 10 calendar days from the date that the Notice of Award is delivered, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Owner, shall constitute a default, and the Owner, at his discretion, may either award the Contract to the next lowest qualified Bidder or readvertise for Bids, and may charge against the Bidder the difference between the amount for which a Contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the Bid Bond. If a more favorable bid is received by readvertising, the defaulting Bidder shall have no claim against the Owner for a refund. The Contractor's bond will not be released until all provisions of the Contract have been fulfilled.

16. INSURANCE

The Contractor will be required to carry the types and amounts of insurance named in the Contract Documents for the full life of the Contract.

17. SUBCONTRACTORS

Bidders are specifically advised that any person, firm or other party to whom it is proposed to award a Subcontract must be acceptable to the Owner. Nothing contained in the Contract Documents shall create any contractual relation between subcontractor and the Owner.

18. METHOD OF AWARD – LOWEST RESPONSIVE BIDDER

The Owner will award the Contract to the lowest and best Bid unless all Bids are rejected. The award will be based on the evaluation of the low bid for the total base bid or the total alternate bid as decided upon by the Owner.

The responsiveness of the low Bidder shall be determined by (1) the completeness and regularity of the Bidders Proposal; (2) the Bidders Proposal being without exclusions or special conditions; (3) the Bid Form having no alternative Bids for any item unless requested in the Technical Specifications; and (4) such other factors as may be considered under State law, Federal law or regulation.

The evaluation of the low bidder will be based on whether the Bidder (1) maintains a permanent place of business; (2) has adequate plant equipment to do the work properly and within the time limit that is established; (3) has adequate financial status to meet his obligations contingent to the work; (4) has adequate manpower and present workload is such that he can perform according to a reasonable schedule; and (5) such other factors as may be considered under State law, Federal law or regulation.

19. OBLIGATION OF BIDDER

At the time of the opening of Bids, each Bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Plans and Contract Documents (including all Addenda).

The failure or omission of any Bidder to examine any form, instrument or document shall in no way relieve any Bidder from any obligation in respect to his Bid. Submission of Bid shall be accepted as prima facie evidence that Bidder has inspected the site and is familiar with the Plans and Contract Documents.

20. SUBSURFACE DATA

Not Used.

21. EXECUTION OF CONTRACT

If the successful Bidder is a corporation, the officer who signs the Contract shall furnish copies of the resolution of the Directors of the corporation authorizing him to sign the contract. Such resolution should bear the seal of the corporation.

Subject to the applicable provisions of law, the Contract shall be in full force and effect only from and after the date when a fully executed and approved counterpart thereof has been rendered or delivered, or both, to the Contractor or his duly authorized agent or representative. Deposit of said counterpart in the United States mail in an envelope or wrapper properly addressed shall constitute compliance with these provisions by the Owner.

22. INTERCHANGEABLE TERMS

The terms "Bid" and "Proposal" wherever they are used in the Contract Documents are interchangeable and have the same meaning. The terms "Contract" and "Agreement", are interchangeable and have the same meaning. The terms “Contract Drawings” and “Plans”, are interchangeable and have the same meaning.

23. QUALIFICATIONS OF BIDDER, OWNER'S RIGHTS

The Owner may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by or investigation of such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

24. MATERIALS AND EQUIPMENT

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a manufacturer, fabricator, supplier, or distributor, the naming of the item in this manner is intended to establish the type, function and quality required. Materials or equipment of other manufacturers, fabricators, suppliers, or distributors may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent to that named in the Contract Documents. Bidders are referred to Section 6.3 of the General Conditions regarding procedures for approval of substitute materials and

equipment.

25. NON-RESIDENT BIDDERS

Awarding public contracts to non-resident Bidders will be on the same basis as the non-resident Bidder's state awards contractors to Mississippi Contractors bidding under similar circumstances. In order to ensure that Mississippi's so called "Golden Rule" is followed, state law requires a non-resident Bidder to attach to his bid a copy of his resident state's current laws pertaining to such state's treatment of non-resident contractors.

26. DESIGNATING OWNER AND ENGINEER

Any reference in the Contract Documents to the State of Mississippi, Mississippi Department of Transportation, Mississippi Transportation Commission, or any official thereof shall be interpreted to mean the City of Hattiesburg, Mississippi, the “Owner”.

Any reference in the Standard Specifications to the Project Engineer, District Engineer, Office Engineer, or Engineer shall be interpreted to mean the Engineer for the City of Hattiesburg, Mississippi, Neel-Schaffer, Inc.

27. MATERIALS TESTING

The Contractor shall be responsible for all testing of materials associated with the project. Materials shall be tested in accordance to the requirements and frequencies outlined in the *Mississippi Standard Specifications for Road and Bridge Construction* (2004 Edition), and shall be considered an absorbed item.

28. CONTRACT TIME

The Contractor shall commence the work required by the Contract Documents within 10 calendar days after the date of the Notice to Proceed and will retain substantial completion within 75 consecutive calendar days of the Notice to Proceed date and Final Completion of the project within 150 consecutive calendar days of the Notice to Proceed date unless the period for completion is extended otherwise by the Contract Documents.

Substantial completion shall include completion of all work except for final installation of the new light fixtures and poles.

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-240 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve plans and specifications for COMSWIP-Sewer Phase V Project

Title: Approve plans and specifications for the Comprehensive Sewer Improvements Phase V Project; Authorize advertisement for bids for same.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Plans, Specifications, Bid Advertisement

File Created: 02/13/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information: Hattiesburg American & Clarion Ledger
2 Consecutive Weeks

History of Legislative File

CONSTRUCTION PLANS

FOR

COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V

DOGWOOD AVENUE, RICHBURG ROAD, CORRINE STREET, EMERALD LANE, DUKE AVENUE, PECAN GROVE DRIVE, MEADOW BROOK DRIVE, SPRINGHILL DRIVE, OAK FORREST DRIVE, RHODES DRIVE AND J ED TURNER DRIVE

FOR THE

CITY OF HATTIESBURG

FORREST & LAMAR COUNTIES MISSISSIPPI

JANUARY 2017

PUBLIC UTILITIES

CABLE
COMCAST
2100 LINCOLN RD
HATTIESBURG, MS 39402
(601) 264-1188

POWER
MISSISSIPPI POWER, CO.
6356 U.S. HIGHWAY 49
HATTIESBURG, MS 39401
(601) 544-6511

PEARL RIVER VALLEY EPA
6803 US HWY 98
HATTIESBURG, MS 39402
(601) 264-2458

SOUTHERN PINE ELECTRIC EPA
P O BOX 60
TAYLORSVILLE, MS 39168
(601) 785-6511

TELEPHONE
AT&T
P.O. BOX 1191
HATTIESBURG, MS 39401
(601) 545-6424

TELEPAK DBA CSPIRE FIBER
1018 HIGHLAND COLONY PKWY
SUITE 420
RIDGELAND, MS 39157

GAS
WILMUT GAS
P.O. BOX 1649
HATTIESBURG, MS 39403
(601) 544-6001

DIXIE PIPELINE ENTERPRISE PRODUCTS
1275 HWY 11
PETAL, MS 39465
(888) 806-8152
(NON-EMERGENCY)
(888) 883-6308 (EMERGENCY)

SEWER
CITY OF HATTIESBURG
WATER & SEWER DEPT.
900 JAMES ST
HATTIESBURG, MS 39403
(601) 545-4530

WESTOVER WEST SEWAGE
P O BOX 16531
HATTIESBURG, MS 39404
(601) 296-0935

ACADIA OAKS UTILITIES
P O BOX 15033
HATTIESBURG, MS 39404
(601) 264-3682

WATER
CITY OF HATTIESBURG
WATER & SEWER DEPT.
900 JAMES ST
HATTIESBURG, MS 39403
(601) 545-4530

ARNOLD LINE WATER ASSOC
4901 W 4TH ST
HATTIESBURG, MS 39402
(601) 264-7111

NORTH LAMAR WATER ASSOC
4906 OLD HWY 11
SUITE 8
HATTIESBURG, MS 39402
(601) 2641157

RAWLS SPRINGS UTILITY DISTRICT
39 ARCHIE SMITH RD
HATTIESBURG, MS 39402
(601) 268-2248

TRAFFIC
CITY OF HATTIESBURG
TRAFFIC DEPT.
125 WALNUT ST
HATTIESBURG, MS 39401
(601) 545-4626

811
Know what's **below.**
Call before you dig.

SPECIAL UTILITY NOTES:

1. UTILITY LOCATION REQUESTS WERE SUBMITTED TO MISSISSIPPI 811 (FORMERLY MISSISSIPPI ONE CALL) DURING THE FIELD DATA COLLECTION PHASE FOR THE DESIGN OF THIS PROJECT. ALL UTILITIES THAT LOCATED DURING THE FIELD DATA COLLECTION ARE SHOWN ON THESE PLANS. ALL CONFLICTS WITH EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE COORDINATED WITH THE UTILITY OWNER, THE ENGINEER AND THE PROJECT OWNER PRIOR TO INSTALLATION OF THE PROPOSED SEWER STRUCTURES AND PIPE. (NO SEPARATE PAY FOR COORDINATION)

2. THE CONTRACTOR SHALL DOCUMENT THE EXISTENCE OF ANY MISSING AND/OR OVERLAPPING UNDERGROUND UTILITIES AND STORM DRAINAGE NOT SHOWN ON THESE CONSTRUCTION DRAWINGS.

3. RICHBURG ROAD (TICKET NO. 16110210160482) HAS BEEN DEEMED TO CONTAIN A HIGH PRIORITY FACILITY. THIS LOCATE REQUST IS NEAR AN AT&T HIGH PROFILE FACILITY; BEFORE DIGGING IN THIS AREA WAIT ON THE LOCATE TO BE PERFORMED; TAKE CARE TO OBSERVE SITE MARKINGS SUCH AS PAINT AND FLAGS; HAND DIGGING IS MANDATORY WITHIN THE STATUATORY TOLERANCE ZONE, DAMAGE PREVENTION IS EVERYONE'S REPONSIBILTY. DAMAGING THESE FACILITIES COULD INTERRUPT THOUSANDS OF SERVICES.

4. SUPPLIMENTAL CONTACT INFORMATION
   AT&T DISTRIBUTION DAMAGE PREVENTION: IF ASSISTANCE IS NEEDED DURING AN EXCAVATION INVOLVING AT&T FACILITIES OR LOCATE ISSUES CALL MIKE MORGAN, 1–205–213–8377
   ONE CALL CENTER: ANY QUESTIONS PERTAINING TO A DIG TICKET SHOULD BE DIRECTED TO THE STATE ONE CALL (FOR EXAMPLE: LOCATION REQUESTED, UTILITIES IN THE AREA OR NOTIFICATION PROCESSES). MISSISSIPPI 811, 1–800–227–6477
   AT&T DISTRIBUTION LOCATE VENDOR: IF ASSISTANCE IS NEEDED WITH INTERPRETATION OF MARKINGS OR LOCATE ISSUES CONTACT THE LOCATE COMPANY FOR AREA: S&N COMMUNICATIONS, 1–800–757–6842
   DAMAGE REPORTING TO AT&T DISTRIBUTION: 888–611–4466 PROMPT #8

MISSISSIPPI 811 TICKETS

TICKET NUMBER	SHEET
—	DOGWOOD AVENUE
—	CORRINE STREET
—	EMERALD LANE
—	DUKE AVENUE
15012910210408 15021708060077	PECAN GROVE DRIVE
15012910230410 15021708060075	MEADOWBROOK DRIVE
15012910190401 15021708060080	SPRINGHILL DRIVE
15012910210407 15021708060078	OAK FORREST DRIVE
15012910200405	RHODES DRIVE
15022515260518	J ED TURNER DRIVE (NORTH SIDE)
15022515260519	J ED TURNER DRIVE (SOUTH SIDE)
16110210160482	RICHBURG ROAD

GEODETIC REFERENCE (NAD83) FOR THE APPROXIMATE MIDDLE OF THE PROJECT:

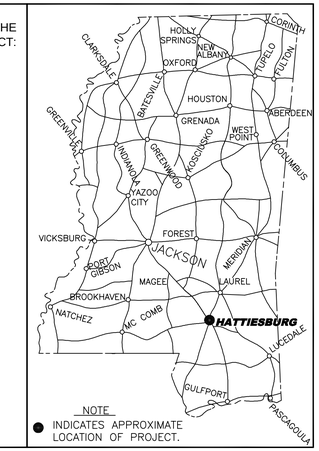
SITE 1 - DOGWOOD DRIVE & RICHBURG ROAD
LATITUDE: N 31°17'16.8"
LONGITUDE: W 89°20'04.6"

SITE 2 - CORRINE STREET & EMERALD LANE
LATITUDE: N 31°18'47.6"
LONGITUDE: W 89°18'28.3"

SITE 3 - DUKE AVENUE
LATITUDE: N 31°18'43.1"
LONGITUDE: W 89°17'19.4"

SITE 4 - MADISON PLACE EASEMENT, PECAN GROVE DRIVE, MEADOWBROOK DRIVE, SPRINGHILL DRIVE, OAK FORREST DRIVE & RHODES DRIVE
LATITUDE: N 31°20'04.9"
LONGITUDE: W 89°21'32.6"

SITE 5 - J ED TURNER DRIVE
LATITUDE: N 31°20'48.1"
LONGITUDE: W 89°23'08.6"



NOTE
● INDICATES APPROXIMATE LOCATION OF PROJECT.

DETAILED SHEET INDEX

SHEET No.	DESCRIPTION
1	COVER SHEET
2	VICINITY MAP, (SITE 1, 2 & 3)
3	VICINITY MAP (SITES 4 & 5)
4	GENERAL NOTES & LEGEND
5	SITE 1 - DOGWOOD DR: STA. 10+00 (BOP) - 20+62.75 (EOP)
6	SITE 1 - DOGWOOD DR EASEMENT: STA. 10+00 (BOP) - 14+36.96 (EOP)
	SITE 1 - DOGWOOD DR LIFT STATION: STA. 10+00 (BOP) - 12+15.83 (EOP)
7	SITE 1 - RICHBURG RD: STA. 10+00 (BOP) - 13+36.21 (EOP)
8	SITE 1 - DOGWOOD DR LIFT STATION SITE PLAN
9	SITE 2 - CORRINE ST: STA. 10+00 (BOP) - 15+50
10	SITE 2 - CORRINE ST: STA. 15+50 - 21+37.23 (EOP)
11	SITE 2 - EMERALD LN: STA. 10+00 (BOP) - 14+49.06 (EOP)
12	SITE 3 - DUKE AVE: STA. 10+00 (BOP) - 114+15.75
13	SITE 3 - DUKE AVE: STA. 15+00 - 18+00
14	SITE 3 - DUKE AVE: STA. 18+00 - 22+89.58 (EOP)
15	SITE 4 - MADISON PLACE EASEMENT: STA. 10+00 (BOP) - 14+01.04
16	SITE 4 - MADISON PLACE EASEMENT: STA. 14+01.04 - 15+97.69 (EOP)
17	SITE 4 - PECAN GROVE DR: STA. 10+00 (BOP) - 16+23.60 (EOP)
18	SITE 4 - MEADOW BROOK DR: STA. 10+00 (BOP) - 14+00
19	SITE 4 - MEADOW BROOK DR: STA. 14+00 - 17+03.63 (EOP)
20	SITE 4 - RHODES DR: STA. 10+00 (BOP) - 14+31.10 (EOP)
21	SITE 4 - SPRINGHILL DR: STA. 10+00 (BOP) - 14+50
22	SITE 4 - SPRINGHILL DR: STA. 14+50 - 18+27.77 (EOP)
23	SITE 4 - OAK FORREST DR: STA. 10+00 (BOP) - 15+50
24	SITE 4 - OAK FORREST DR: STA. 15+50 - 21+50
25	SITE 4 - OAK FORREST DR: STA. 21+50 - 27+97.74 (EOP)
26	SITE 5 - J ED TURNER DR: STA. 10+00 (BOP) - 15+00
27	SITE 5 - J ED TURNER DR: STA. 15+00 - 21+60
28	SITE 5 - J ED TURNER DR: STA. 21+60 - 22+38.93
29	SITE 5 - J ED TURNER DR: STA. 29+48.09 - 33+46.67 & LIFT STATION
30	SEWER INSTALLATION DETAILS
31	DOGHOUSE MANHOLE DETAILS
32	LIFT STATION DETAILS
33	FLEXIBLE PIPE STANDARD
34	VEGETATION SCHEDULE & TYPICAL WATER SERVICE REPAIR DETAIL
35	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
36	DETAILS OF SEDIMENT BARRIER APPLICATIONS
37	DETAILS OF SILT FENCE INSTALLATION
38	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
39	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
40	INLET PROTECTION TYPICAL APPLICATION AND DETAILS
6145	DETAILS OF TYPICAL DITCH TREATMENTS
6163	FENCE: CHAIN LINK CLASS II
6168	FENCE: CHAIN LINK GATE
6250	TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)
6291	DETAILS OF PAVED FLUME
6300	PIPE CULVERT INSTALLATION
6301	CONCRETE PIPE COLLAR

MAYOR

Johnny DuPree, Ph. D.

COUNCIL PERSONS

Carter Carroll, President
Mary Dryden, Vice President
Kim Bradley
Deborah Denard Delgado
Henry E. Naylor

DIRECTOR OF ENGINEERING

Lamar Rutland, PE

PREPARED BY:

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Sheet No. 1
Drawing No.: 1273–S005

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VICINITY MAP (SITE 1, 2 & 3)

GRAPHIC SCALE

600 0 300 600 1200 2400

(IN FEET)

NO.	DATE	DESCRIPTION	BY

VICINITY MAP, GENERAL NOTES & LEGEND

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
FORREST & LAMAR COUNTIES, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: BT	Checked by: KDW
Date: 01/03/2017	Scale: AS NOTED
Drawing No.: 1273S005	Sheet No. 2

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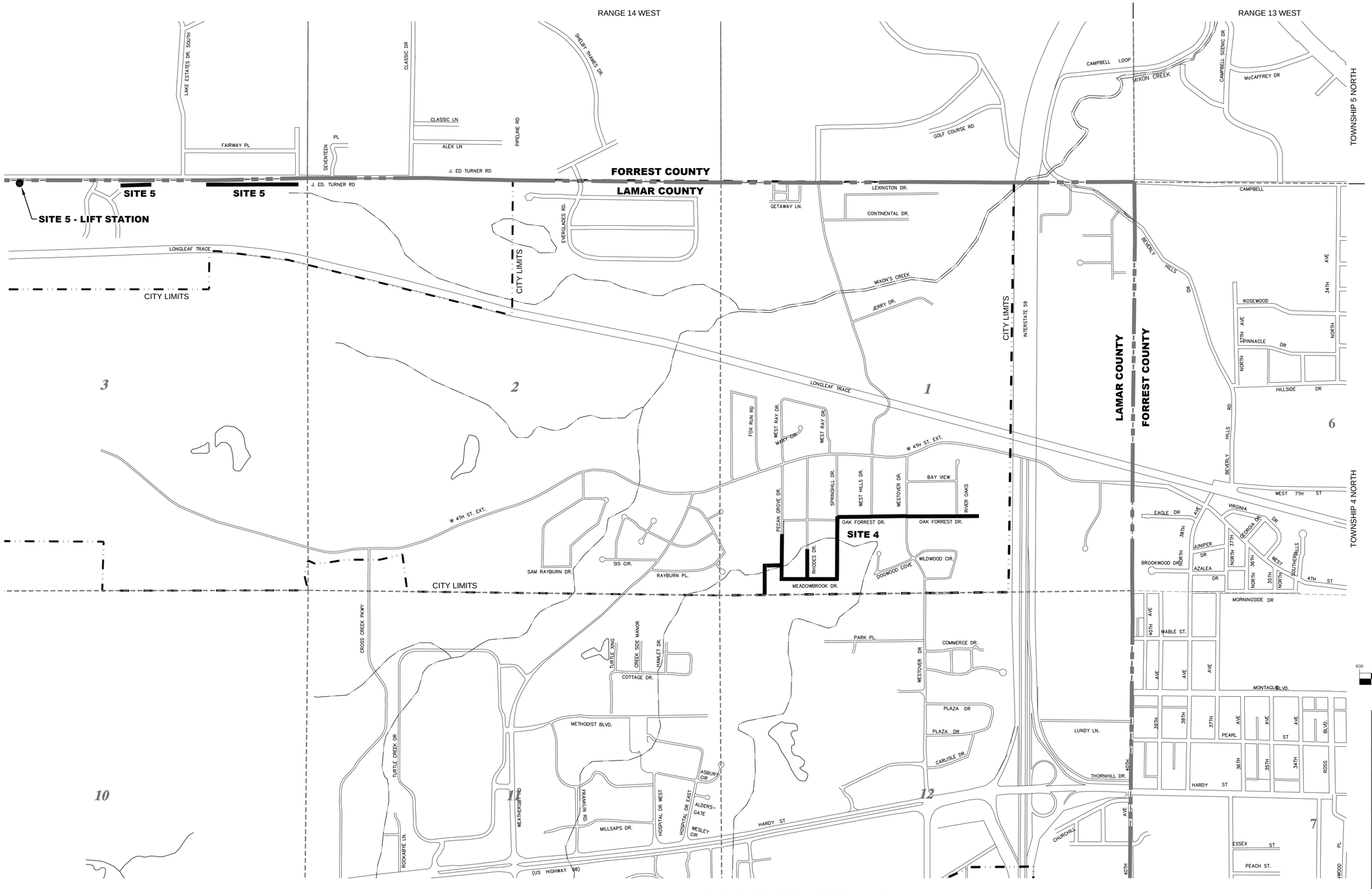

VICINITY MAP (SITE 4 & 5)

GRAPHIC SCALE

600 0 300 600 1200 2400

(IN FEET)

NO.	DATE	DESCRIPTION	BY

VICINITY MAP, GENERAL NOTES & LEGEND

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
FORREST & LAMAR COUNTIES, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: BT	Checked by: KDW
Date: 01/03/2017	Scale: AS NOTED
Drawing No.: 1273S005	Sheet No. 3

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GENERAL NOTES:

1. THE CONTRACTOR SHALL KEEP A FULL SET OF CONSTRUCTION DRAWINGS OF THE PROJECT ON THE JOB SITE SHOWING THE ACCURATE MEASUREMENTS AND ELEVATIONS OF THE "AS-BUILT" SYSTEM. THIS DATA WILL BE COLLECTED AND PUT ON THE DRAWINGS DAILY.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND THE LOCATION OF THE PROJECT. CONTROL COORDINATE SYSTEM AND ELEVATION CONTROL ARE SHOWN ON THE PLAN SHEETS.
4. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR FINISHING THE CONSTRUCTION PLAN. THE CONTRACTOR SHALL FURNISH SEWER CUT SHEETS TO THE ENGINEER ONE WEEK PRIOR TO ANY CONSTRUCTION. PAYMENT FOR SEWER WILL BE BASED ENTIRELY ON THE ENGINEER APPROVED CUT SHEETS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN SUB-SURFACE SOIL INVESTIGATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES WITHIN THE WORK AREA.
7. ALL UNDERGROUND UTILITIES, FOR THE ENTIRE PROJECT, SHALL BE LOCATED BY THE CONTRACTOR AND UTILITY OWNERS PRIOR TO THE CONSTRUCTION OF THE PROJECT. ANY CONFLICTS SHALL BE COORDINATED BETWEEN CONTRACTOR, UTILITY OWNER AND ENGINEER.
8. PROPER MAINTENANCE OF STREETS, INCLUDING DUST CONTROL, SHALL BE STRICTLY ADHERED TO.
9. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
10. THE CONTRACTOR SHALL PROVIDE PROPER TRAFFIC CONTROL SIGNS AND FLAGGERS TO MAINTAIN ONE LN TRAFFIC DURING CONSTRUCTION, WHERE LN CLOSURES ARE NEEDED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY RD CLOSURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION. SUBMITTAL SHALL INCLUDE A DETAILED DETOUR PLAN.
11. ALL WORK ITEMS FOR WHICH NO PAY ITEMS ARE ESTABLISHED SHALL BE ABSORBED IN THE COST OF THE PIPE LAYING OPERATION.
12. ALL DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED ACCORDING TO THE VEGETATION SCHEDULE IN THE PLANS.
13. ALL EXISTING MAILBOXES, STREET SIGNS, FENCES, AND OTHER STRUCTURES LOCATED WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET AS DICTATED BY CONSTRUCTION ACTIVITIES. (NO SEPARATE PAY, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER). EXISTING FLOWER BEDS, GARDENS, SHRUBS, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET AS DICTATED BY CONSTRUCTION ACTIVITIES. (NO SEPARATE PAY, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER). ALL ITEMS (INCLUDING REMOVAL OF OBSTRUCTIONS, REMOVED AND RESET AND/OR REPLACEMENT OF STORM DRAIN STRUCTURES, ETC.) FOR WHICH NO PAY ITEM IS LISTED, SHALL BE INCLUDED IN THE COST OF THE PIPING LAYING OPERATION. (NO SEPARATE PAY).
14. NO PIPE SHALL BE LAID IN THE PRESENCE OF WATER. NO MANHOLE OR WET WELL SHALL BE SET IN THE PRESENCE OF WATER.
15. WELL POINTS, IF REQUIRED, SHALL BE INCLUDED IN THE COST OF THE PIPING LAYING OPERATION.
16. WHERE THE WATER MAIN IS WITHIN 10 FEET OF A SEWER MAIN HORIZONTALLY, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS OTHERWISE NOTED.
17. THE FINISHED ELEVATION OF ALL MANHOLE TOPS FOR MANHOLES TO BE CONSTRUCTED IN PAVED AREAS SHALL BE AT EXISTING PAVEMENT ELEVATION OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHALL BE TAKEN FROM CUT SHEETS FURNISHED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO CONSTRUCTION.
18. THE COST OF CLEARING AND GRUBBING/REMOVAL AND DISPOSAL OF CLEARING AND GRUBBING MATERIAL SHALL BE PAID LUMP SUM, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXTENT OF CLEARING REQUIRED PRIOR TO BIDDING. OFFSITE DISPOSAL AREAS ARE TO BE FURNISHED BY THE CONTRACTOR.
19. ANY DAMAGE TO PAVED ROADS, WHICH IS OUTSIDE OF THE PROJECT LIMITS, SHALL BE REPAIRED IN KIND, AT THE CONTRACTOR'S EXPENSE. WHERE THE PROPOSED SEWER LINE IS LOCATED ALONG AND/OR IN THE PAVED ROADWAY, THE CONTRACTOR SHALL OPEN CUT THE ROADWAY AND REPAIR AS DETAILED. PAY SHALL BE DETERMINED AS NOTED ON THE PLANS AND THE BID PROPOSAL.
20. ALL PAVED DRIVEWAYS SHALL BE OPEN CUT WITH NO CASING, UNLESS OTHERWISE NOTED, AND REPAIRED IN KIND. THE CONTRACTOR SHALL COORDINATE ALL DRIVEWAY CUTS AND EXCAVATION WITH THE OWNERS OF SAID DRIVEWAYS. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES DURING CONSTRUCTION.
21. MANHOLES SHALL HAVE 20 MIL. COAL TAR EPOXY COATING ON THE INSIDE, UNLESS OTHERWISE NOTED. DUCTILE IRON PIPE SHALL BE LINED AS NOTED IN THE SPECIFICATIONS.
22. ALL SEWER MAINS, SERVICE LINES AND FITTINGS SHALL BE SDR 26 PVC AND OF THE SIZE AS NOTED IN THESE PLANS, UNLESS OTHERWISE NOTED. ALL FITTINGS REQUIRED FOR DUCTILE IRON OR PVC PIPE SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM FOR THE PIPE AND AT NO ADDITIONAL COST TO THE PROJECT EXCEPT SERVICE TEE'S AND CLEANOUTS. CLEANOUTS SHALL INCLUDE TEE, SERVICE CAP, TRAFFIC COVER IF NEEDED, AND ANY PIPE LENGTH TO BRING CLEANOUT TO SURFACE GRADE. ALL CLEANOUTS LOCATED IN PAVED AREAS SHALL BE INSTALLED WITH A TRAFFIC LOAD RATED FRAME AND COVER SET FLUSH WITH PAVEMENT. (NO SEPARATE PAY)
23. ALL DUCTILE IRON PIPE SHALL BE LOCKING JOINT TYPE AND OF THE SIZE AS NOTED ON THESE PLANS.
24. INFILTRATION/EXFILTRATION AND MANDREL TEST WILL BE REQUIRED ON ALL SEWER MAIN INSTALLED. CONTRACTOR SHALL BE REQUIRED TO PULL A MANDREL FOR TESTING PURPOSES IN ALL SEWER LINES INSTALLED ON THE PROJECT PRIOR TO FINAL ACCEPTANCE. MANDREL TEST SHALL BE PERFORMED IN LIVE OR BYPASS PUMPED SEWER AS NECESSARY AT THE DISCRETION OF THE ENGINEER
25. ALL MANHOLES SHALL BE 48" IN DIAMETER, WITH ECCENTRIC TOP CONE SECTIONS, UNLESS OTHERWISE NOTED. (SEE PLAN AND PROFILE SHEETS FOR PROPER SIZING)
26. ALL SINGLE DROPS FOR SEWER PIPE 8" AND UNDER IN DIAMETER SHALL BE PLACED INSIDE THE MANHOLE AS DETAILED. ALL MULTIPLE DROPS OR DROPS FOR SEWER PIPE OVER 8" IN DIAMETER SHALL BE PLACED OUTSIDE OF THE MANHOLE AS DETAILED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
27. ALL SELECT FILL MATERIAL SHALL MEET THE SPECIFICATIONS FOR CLASS 9, GROUP C AND MODIFIED FOR TO CONSIST OF A PLASTICITY INDEX (PI) BETWEEN 5 AND 15. THE SELECT FILL MATERIAL SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER OR HIS REPRESENTATIVE.
28. ALL TRENCHES IN PAVED AREAS SHALL BE REPAIR AS DETAILED. CRUSHED AGGREGATE SHALL ALSO BE INSTALLED AND USED FOR A TEMPORARY SURFACE UNTIL SUCH TIME THAT THE OWNER DECIDES TO ALLOW INSTALLATION OF PAVEMENT (SEE DETAIL). ALL CRUSHED AGGREGATE MAY BE LIMESTONE OR CONCRETE AND SHALL BE SIZE 825. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING PAVEMENT PRIOR TO PLACEMENT OF PAVEMENT IN PATCHED AREAS TO MAKE A SMOOTH JOINT WITH THE EXISTING PAVEMENT. SAW CUT TO FULL DEPTH OF EXISTING PAVEMENT SHALL BE REQUIRED ON ALL PAVEMENT REPAIR, UNLESS OTHERWISE DIRECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SURFACE IN AN ACCEPTABLE CONDITION UNTIL SUCH TIME AS FINAL PAVEMENT IS INSTALLED.
29. PRIOR TO THE BEGINNING OF ANY EXCAVATION, ALL EXISTING PAVEMENT SHALL BE SAW CUT TO FULL DEPTH SUCH THAT A STRAIGHT AND UNIFORM VERTICAL EDGE CAN BE ESTABLISHED PRIOR TO REMOVAL OF SAID PAVEMENT FROM THE PROJECT. IF VERTICAL EDGE IS DISTURBED, THEN A SECOND CUT SHALL BE REQUIRED PRIOR TO ASPHALT OR CONCRETE PATCHING. ALL ASPHALT OR CONCRETE SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO EXCAVATION PROCEDURES.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BRACING, SHORING OR ANY GROUND SUPPORT SYSTEM REQUIRED TO PREVENT A FAILURE FROM OCCURRING DURING EXCAVATION. ALL COST FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING AND CONSTRUCTING THE SUPPORT SYSTEM, SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
31. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
32. THE TYPICAL TEMPORARY EROSION CONTROL MEASURES AND TYPICAL DITCH TREATMENTS REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE CONSTRUCTION SITE OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE PLAN DAILY DURING CONSTRUCTION. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN LOCATIONS AS DIRECTED BY THE ENGINEER. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT GRASS IS ESTABLISHED OR THE DISTURBED SURFACED IS PAVED.
33. THE CONTRACTOR SHALL ADHERE TO ALL MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS FOR SANITARY SEWER EROSION CONTROL AND ANY OTHER PERTINENT GUIDELINES.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING MANHOLES AND SEWER LINES, AS NOTED ON THE PLAN SHEETS. THE CONTRACTOR SHALL DISPOSE OF SAID MATERIAL AT AN APPROVED DISPOSAL SITE. REMOVAL AND DISPOSAL OF EXISTING MANHOLES SHALL BE PAID UNDER THE "REMOVAL OF MANHOLE" ITEM. REMOVAL AND DISPOSAL OF EXISTING SEWER PIPE SHALL BE ABSORBED UNDER THE PIPE LAYING OPERATION. (NO SEPARATE PAY)
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BY-PASS PUMPING AS REQUIRED BY THE ENGINEER. (NO SEPARATE PAY)
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ANY SEWER SERVICE LINES WHICH ARE CUT AND/OR REMOVED DURING THIS PROJECT. SERVICE CONNECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, SERVICE LINE, FITTINGS AND CLEAN-OUT. FLEXIBLE COUPLINGS SHALL BE USED ONLY WITH ENGINEER'S APPROVAL. CLEAN-OUTS SHALL BE PLACED AT THE RIGHT OF WAY LINE AS DETAILED, UNLESS OTHERWISE DIRECTED. SERVICE LINE CONNECTIONS SHALL BE LOCATED ADJACENT TO EXISTING SERVICE LINES. THE CONTRACTOR SHALL INCLUDE THE NECESSARY CONNECTIONS BETWEEN THE EXISTING SERVICE CONNECTION AND THE NEW SERVICE LINE INCLUDING REDUCERS, WHERE REQUIRED, AT NO ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING SEWER SERVICE LINES. NEW SERVICE CONNECTIONS SHALL BE PAID AS NOTED ON THE BID PROPOSAL.
37. ALL SERVICE CONNECTIONS (FOR ALL UTILITY TYPES) WHICH ARE TEMPORARILY DISCONNECTED DUE TO CONSTRUCTION REQUIREMENTS, DAMAGED OR OTHERWISE DISCONNECT, SHALL BE REPAIRED IN KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED. (NO SEPARATE PAY). SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE UTILITY OWNER AND THE AFFECTED STRUCTURE OWNER. EXCEPTION 1: WATER SERVICE CONNECTIONS WHICH ARE DEGRADED BEYOND REPAIR, LEAKING, BROKEN, ETC. PRIOR TO CONSTRUCTION, SHALL BE DOCUMENTED, REPORTED TO THE ENGINEER, REPAIRED AND PAID AS OUTLINED IN THE BID PROPOSAL (SIZE TO MATCH EXISTING). EXCEPTION 2: ANY OTHER SERVICE CONNECTIONS, EXCEPT WATER & SEWER, WHICH ARE DEGRADED BEYOND REPAIR, LEAKING, BROKEN, ETC. PRIOR TO CONSTRUCTION, SHALL BE DOCUMENTED, REPORTED TO THE ENGINEER AND REPORTED TO THE UTILITY OWNER.
38. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL TESTING BY AN INDEPENDENT LABORATORY APPROVED BY THE ENGINEER AND/OR OWNER.
39. MATERIAL SUBMITTALS SHALL BE MADE TO OWNER THROUGH THE ENGINEER PRIOR TO USE FOR APPROVAL.
40. THE CONTRACTOR SHALL NOTE SEVERE MINIMUM GRADES FOR VARIOUS LOCATIONS OF PROPOSED SEWER LINES WITHIN THE PROJECT. THE CONTRACTOR SHALL HAVE THE EXPERTISE TO INSTALL PIPING ON THESE GRADES. ANY INSTALLED PIPE FOUND TO HAVE MORE THAN ¼" OF STANDING WATER SHALL BE REMOVED AND RE-LAID AT THE CONTRACTOR'S EXPENSE.
41. ALL BEDDING MATERIAL FOR ALL PIPE SHALL BE ABSORBED IN THE PRICE OF THE PIPE LAYING OPERATION.
42. THE CONTRACTOR SHALL HAVE A COMPETENT AND EXPERIENCED SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES. THE SUPERINTENDENT SHALL <u>NOT</u> OPERATE EQUIPMENT WHILE ON THE PROJECT SITE. WORK ON THE PROJECT SHALL <u>STOP</u> IF THE ASSIGNED PROJECT SUPERINTENDENT IS NOT ON SITE.

ABANDONEMENT / REMOVAL NOTES:

1. EXISTING SANITARY SEWER STORAGE TANKS SHALL BE REMOVED COMPLETELY AND BECOME THE PROPERTY OF THE OWNER. FILL MATERIAL SHALL BE ABSORBED.
2. ALL EXISTING SEPTIC TANKS SHALL BE ABANDONED IN PLACE. ABANDONMENT OF SEPTIC TANKS SHALL BE PAID PER EACH AND INCLUDE THE FOLLOWING:
   - 2.1. DISCONNECT EXISTING SERVICE FROM SEPTIC TANK.
   - 2.2. REMOVE SEPTIC TANK TOP.
   - 2.3. REMOVE AND DISPOSE OF EXISTING WASTE. ALL SEPTIC TANK WASTE SHALL BE REMOVED BY AN APPROVED STATE LICENSED HAULER. ALL SEPTIC TANK WASTE SHALL BE DISPOSED OF IN OR AT A FACILITY APPROVED BY THE STATE AND MDEQ TO RECIEVE SUCH WASTE (NO SEPARATE PAY)
   - 2.4. FILL TANK COMPLETELY, WITH GRANULAR MATERIAL (SAND).
   - 2.5. COVER FILLED TANK WITH INSITU AND/OR FILL MATERIAL, IF NEEDED. FILL MATERIAL SHALL BE CLASS B9, FURNISHED BY CONTRACTOR (ABSORBED IN SEPTIC TANK ITEM).
3. ALL EXISTING MANHOLES NOTED TO BE REMOVED SHALL BE REMOVED ENTIRELY. REMOVED ITEMS SHALL BE DISPOSED OF APPROPRIATELY.
4. ALL EXISTING MANHOLES NOTED TO BE ABANDONED SHALL BE MODIFIED AS FOLLOWS:
   - 4.1. REMOVE AND DISPOSE OF SANITARY WASTE.
   - 4.2. REMOVE COVER, FRAME AND THE TOP 36" OF MANHOLE STRUCTURE. DISPOSE OF REMOVED OBJECTS.
   - 4.3. FILL THE MANHOLE WITH SAND.
   - 4.4. CAP THE MANHOLE WITH 2500 PSI, NON-REINFORCED CONCRETE (6" DEPTH).
   - 4.5. BACKFILL WITH NATIVE SOIL MATERIAL AND/OR FILL MATERIAL (CL B9) AND COMPACT, GRADE TO DRAIN AS REQUIRED. GRASS DISTURBED AREA OR REPAIR PAVEMENT AREAS.
5. ALL EXISTING SEWER PIPES NOTED TO BE REMOVED, SHALL BE REMOVED ENTIRELY. (NO SEPERATE PAY)
6. ALL EXISTING SEWER PIPES NOTED TO BE ABANDONED, SHALL BE MODIFIED AS FOLLOWS:
   - 6.1. REMOVE AND DISPOSE OF SANITARY WASTE.
   - 6.2. FILL THE PIPE WITH FLOWABLE FILL.
   - 6.3. PLUG ENDS.
5. WHERE ABANDONED SEWER PIPES AND/OR MANHOLES CONFLICT WITH THE NEW CONSTRUCTION, THE EXISTING PIPE OR MANHOLE SHALL BE REMOVED, UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER.

CROSS DRAIN REPAIR NOTE:

1. ANY EXISTING CROSS DRAIN SHOWN TO BE REMOVED AND REPLACED BE REPLACED WITH NEW PIPE AND BE INSTALLED AT THE SAME GRADE AS THE EXISTING CROSS DRAIN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE GRADES OF THE REPLACED PIPE ARE CORRECT AND TO INSURE PROPER FLOW.
2. IF THE EXISTING CROSS DRAINS ARE CONNECTED TO INLETS, HEADWALLS OR ANY OTHER DRAINAGE STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTION TO THOSE STRUCTURES, UNLESS OTHERWISE NOTED. CONCRETE PIPE COLLARS SHALL BE USED AS WARRANTED.
3. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING STORM DRAINAGE STRUCTURES DURING THE CONSTRUCTION PROCESS. ANY DAMAGE, OTHER THAN THAT NOTED ABOVE, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

SPECIAL SEWER SERVICE CONNECTION NOTES:

1. ALL SERVICE CONNECTIONS SHOWN ON THE PLAN SHEETS SHALL BE CONNECTED TO THE PROPOSED SEWER LINE, UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND FLOWLINE ELEVATION OF THE SERVICE CONNECTION POINTS AT EACH STRUCTURE PRIOR TO CONSTRUCTION. LENGTH OF SERVICE CONNECTIONS MAY VARY FROM WHAT IS SHOWN DUE TO LOCATION OF SERVICE CONNECTION POINT.
3. THE MINIMUM GRADE FOR SEWER SERVICE CONNECTIONS SHALL BE 0.50% SERVICE CONNECTION TO MAIN, TEE'S SERVICE LINES AND CONNECYTIONS TO EXISTING SERVICE SHALL BE PAID PER EACH CONNECTION. CLEANOUTS SHALL BE PAID PER EACH. CLEANOUTS SHALL BE PROVIDED SANITARY SEWER EASEMENT AREA, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.

SPECIAL SEWER SERVICE CONNECTION NOTES:

1. ALL SERVICE CONNECTIONS SHOWN ON THE PLAN SHEETS SHALL BE CONNECTED TO THE PROPOSED SEWER LINE, UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND FLOWLINE ELEVATION OF THE SERVICE CONNECTION POINTS AT EACH STRUCTURE PRIOR TO CONSTRUCTION. LENGTH OF SERVICE CONNECTIONS MAY VARY FROM WHAT IS SHOWN DUE TO LOCATION OF SERVICE CONNECTION POINT.
3. THE MINIMUM GRADE FOR SEWER SERVICE CONNECTIONS SHALL BE 0.50% SERVICE CONNECTION TO MAIN, TEE'S SERVICE LINES AND CONNECYTIONS TO EXISTING SERVICE SHALL BE PAID PER EACH CONNECTION. CLEANOUTS SHALL BE PAID PER EACH. CLEANOUTS SHALL BE PROVIDED SANITARY SEWER EASEMENT AREA, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
4. CLEANOUTS FOR SANITARY SEWER SERVICES SHALL BE PLACED AT EVERY TURN AND PLACED NO MORE THAN 75' APART, FOR LONG TANGENTS.

SIDE DRAIN NOTE:

1. ANY EXISTING SIDE DRAINS THAT CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW CORRUGATED HDPE PIPE AND BE INSTALLED AT THE SAME GRADE AS THE EXISTING SIDE DRAIN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE GRADES OF THE REPLACED PIPE ARE CORRECT AND TO INSURE PROPER FLOW.
2. IF THE EXISTING SIDE DRAINS ARE CONNECTED TO INLETS, HEADWALLS OR ANY OTHER DRAINAGE STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTION TO THOSE STRUCTURES, UNLESS OTHERWISE NOTED. PIPE COUPLERS SHALL BE USED AS WARRANTED.
3. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING STORM DRAINAGE STRUCTURES DURING THE CONSTRUCTION PROCESS. ANY DAMAGE, OTHER THAN THAT NOTED ABOVE, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

LEGEND:

A/C	– AIR CONDITIONER (EXIST)	P P	– POWER LINE (OVERHEAD) (EXIST)
BH-#	– BORE HOLE KEY	℄	– PROPERTY LINE
BGS	– BELOW GROUND SURFACE	PB	– PULL BOX (EXIST)
CONC	– CONCRETE	RCAP	– REINFORCED CONCRETE ARCH PIPE
CMP	– CORRUGATED METAL PIPE	RCP	– REINFORCED CONCRETE PIPE
CPP	– CORRUGATED PLASTIC PIPE	REQ'D	– REQUIRED
DI	– DUCTILE IRON	RT	– RIGHT
DBL	– DOUBLE	ROW	– RIGHT OF WAY
DS	– DOWN STREAM	SSCO	– SANITARY SEWER CLEAN-OUT (EXIST)
EXIST	– EXISTING	SP	– SIGNAL POLE (EXIST)
FT	– FEET	SY	– SQUARE YARD(S)
	– FENCE LINE (EXIST) (ALL TYPES)	SDR	– STANDARD DIMENSION RATIO
FFE	– FINISHED FLOOR ELEVATION	STA	– STATION
	– FIRE HYDRANT (EXIST)	LP	– ST LIGHT ON POLE (EXIST)
FL	– FLOW LINE	T T	– TELEPHONE LINE (UNDERGROUND)(EXIST)
GALV	– GALVANIZED	T	– TELEPHONE MANHOLE (EXIST)
G G	– GAS LINE (EXIST)	TP	– TELEPHONE PEDESTAL (EXIST)
	– GAS VALVE (EXIST)	T T	– TRAFFIC SIGNAL
GND	– GROUND	TYP	– TYPICAL
	– GROUND LIGHT (EXIST.)	US	– UP STREAM
GP	– GUARD POST (EXIST)	PP	– UTILITY POLE (EXIST)
	– GUY WIRE (EXIST)	W W	– WATER LINE (EXIST)
HDPE	– HIGH DENSITY POLYETHYLENE PIPE	WM	– WATER METER (EXIST)
INV	– INVERT		– WATER VALVE (EXIST)
LT	– LEFT	W/	– WITH
LF	– LINEAR FEET		
MH	– MANHOLE		
PVC	– POLYVINYL CHLORIDE PIPE		

NO.	DATE	DESCRIPTION	BY

VICINITY MAP, GENERAL NOTES & LEGEND

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
FORREST & LAMAR COUNTIES, MISSISSIPPI

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Date: 01/03/2017	Scale: NONE
Drawing No.: 1273S005	Sheet No. 4

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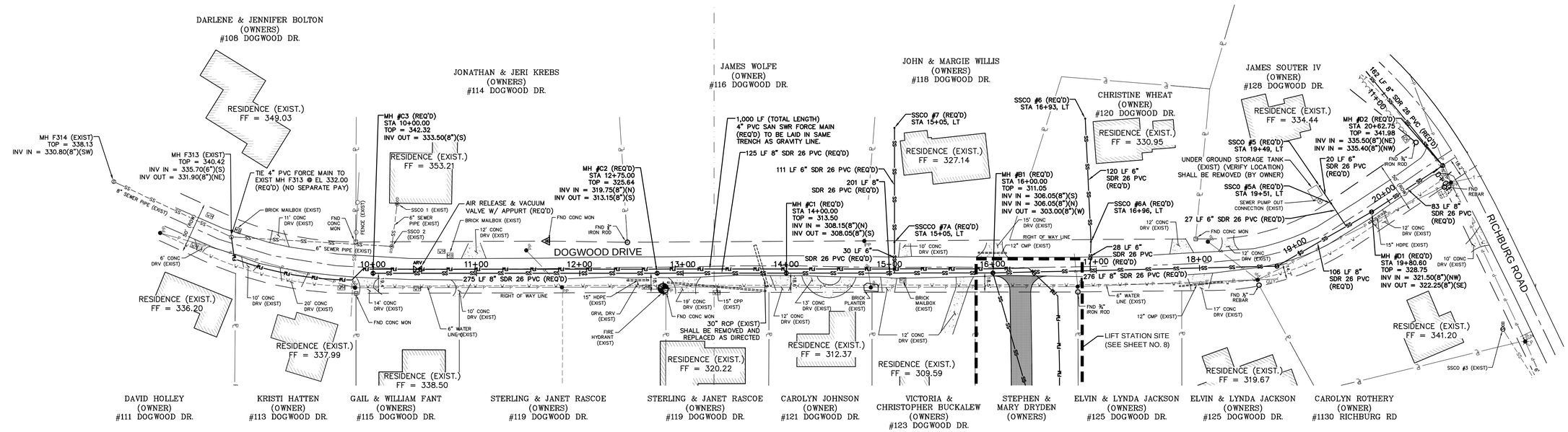
CONTROL MONUMENT 1
CONC MON FND ON EAST R/W OF DOGWOOD DR
N 650906.33
E 827695.73
–31.1FT LT STA. 11+68.47

BENCH MARK ELEVATION 327.73
TOP OF FIRE HYDRANT OPERATING NUT
14.9 FT RT STA. 12+80.90



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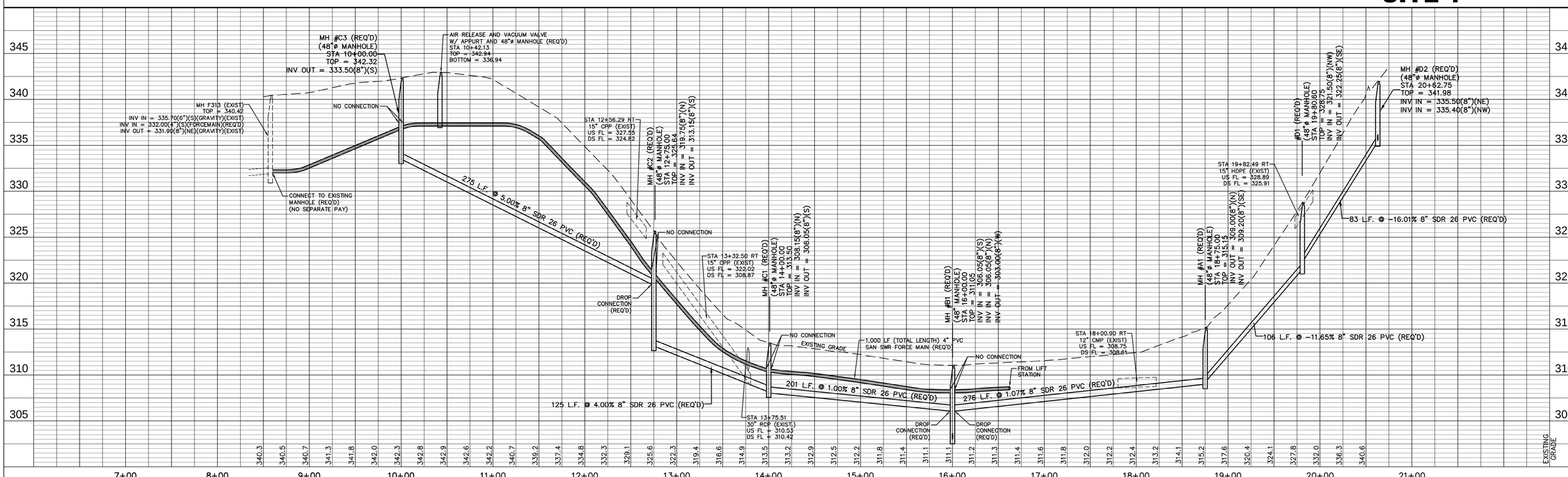

SITE 1 – DOGWOOD DRIVE: STA. 10+00 (BOP) – 20+62.75 (EOP)
COMPEHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

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DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=50' H, 1" = 5' V

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DRAWING NO. 1273–S005
SHEET 5

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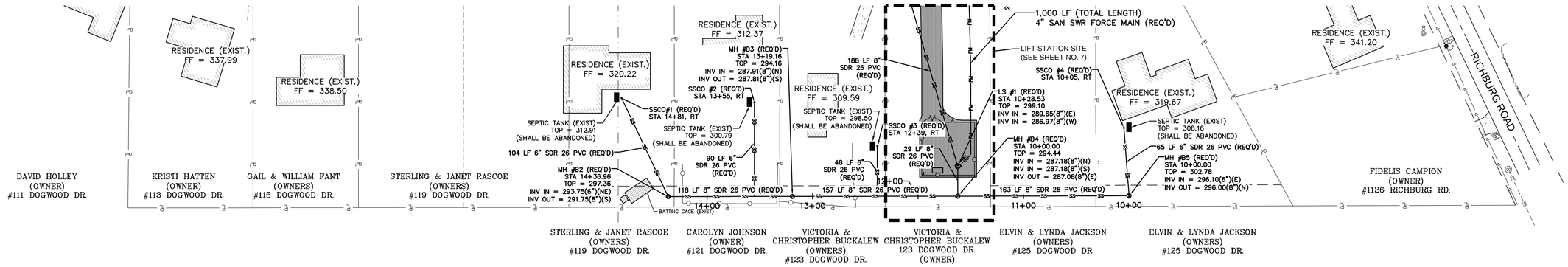

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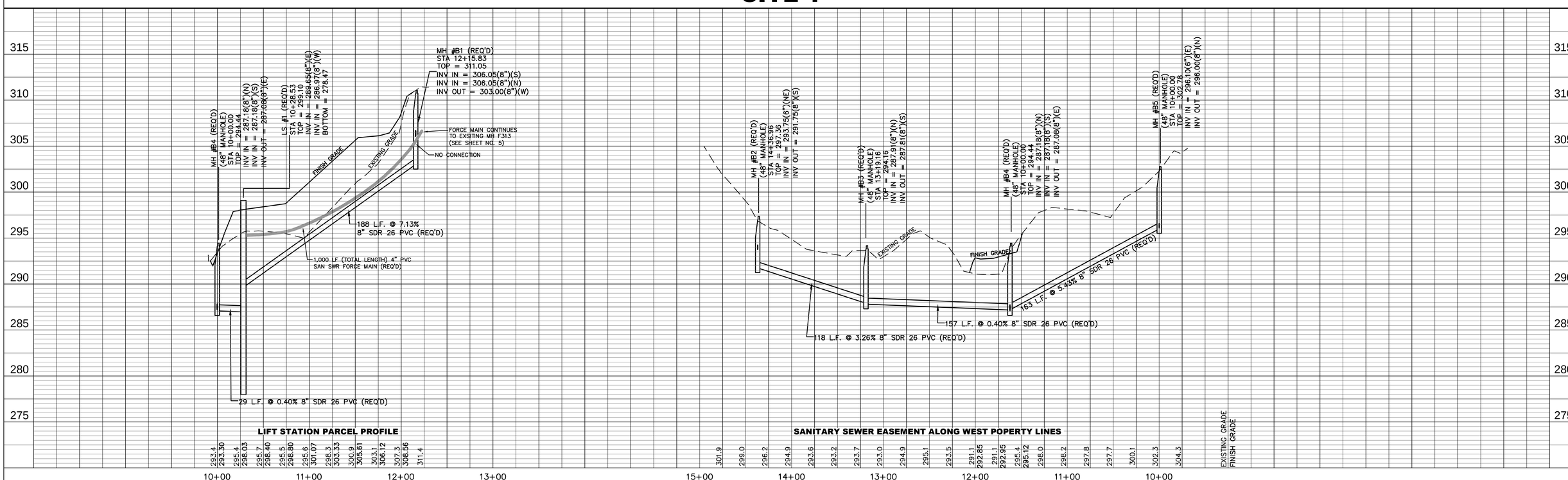

SITE 1 – DOGWOOD DRIVE EASEMENT: STA 10+00 (BOP) – 14+36.96 (EOP)
COMPEHENSIVE SEWER IMPROVEMENTS – PHASE V

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SCALE: 1"=50' H, 1" = 5' V

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DRAWING NO. 1273–S005
SHEET 6

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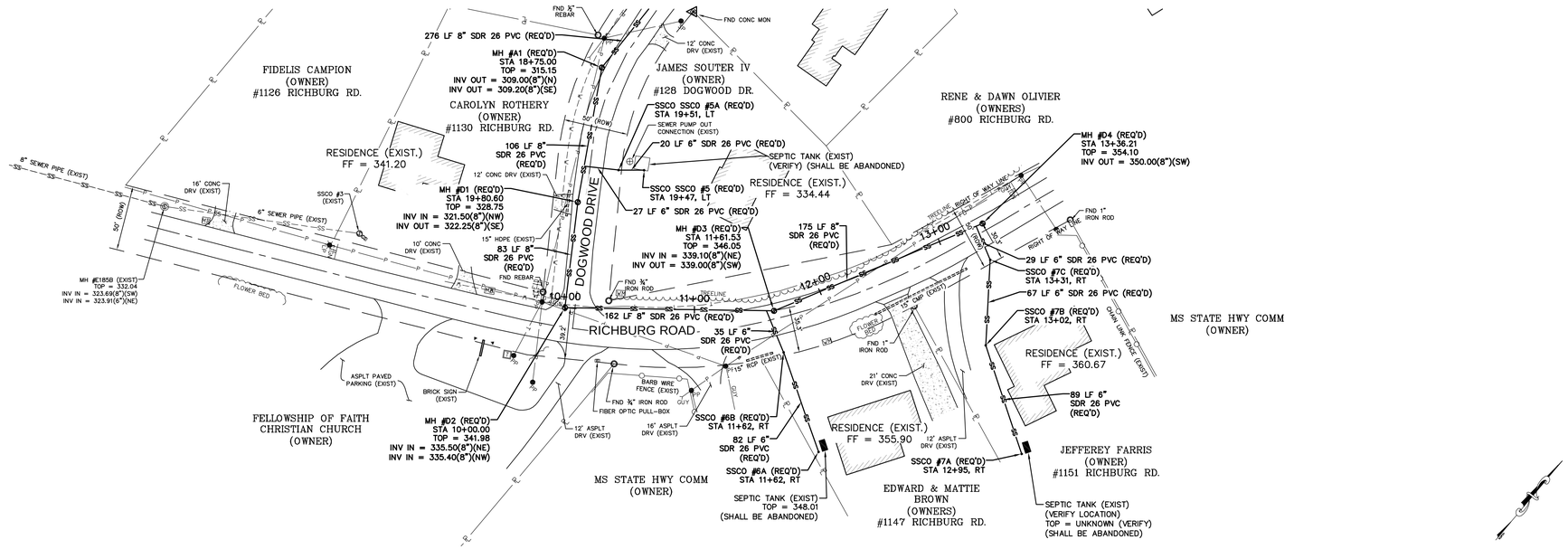
CONTROL MONUMENT 2
CONC MON FND ON EAST R/W OF DOGWOOD DR
N 650278.59
E 827697.90
-28.3 FT LT STA. 17+96.94

BENCH MARK ELEVATION 315.73
CENTER OF FND CONC MONUMENT
28.3 FT LT STA. 17+96.94



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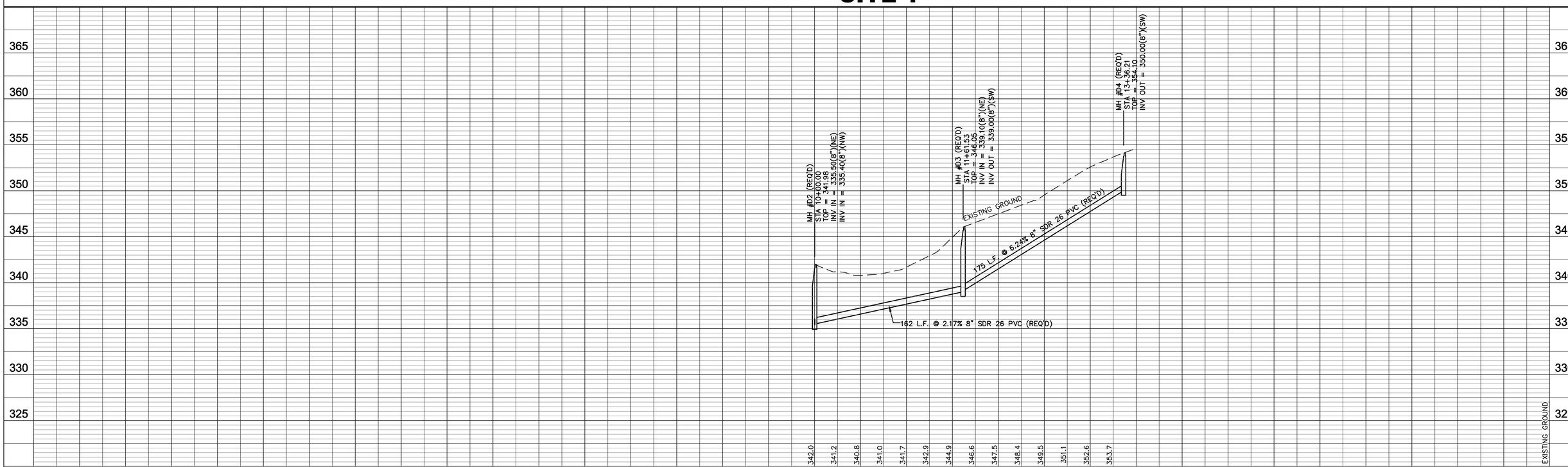

SITE 1 – RICHBURG ROAD: STATION 10+00 (BOP) – 13+36.21 (EOP)
COMPEHENSIVE SEWER IMPROVEMENTS – PHASE V

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DATE: 01/03/2017
CHECKED BY: KDW
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DRAWING NO. 1273-S005
SHEET 7

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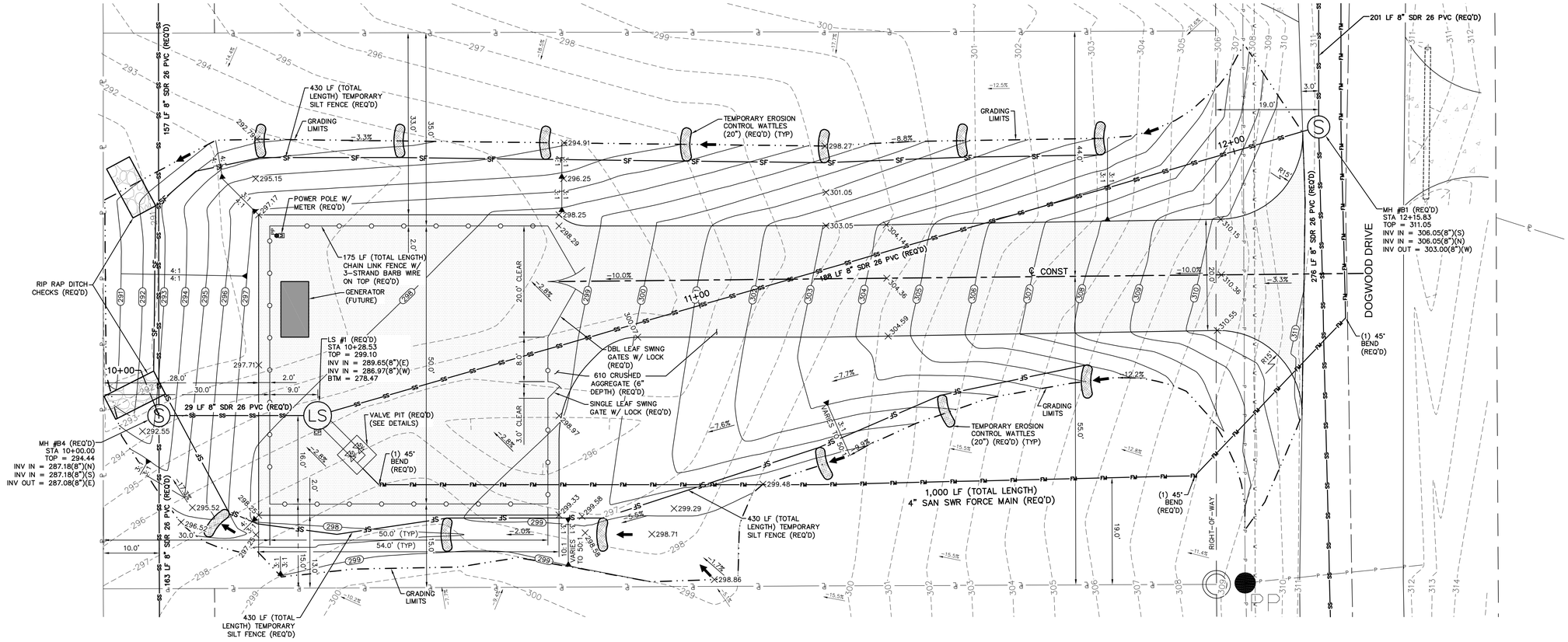

SITE 1 - LIFT STATION

LIFT STATION NOTES:

1. DOUBLE LEAF SWING GATE AND MAN GATE SHALL BE REQUIRED AS PART OF FENCE FOR THIS LIFT STATION. THE LOCATION OF EACH GATE SHALL BE VERIFIED BY THE ENGINEER PRIOR TO CONSTRUCTION.

2. ALL FENCE MATERIAL SHALL BE GALVANIZED AND INSTALLED AS DETAILED HEREIN. TO INCLUDE 3 STRANDS OF BARBED WIRE ON TOP ALL THE WAY AROUND THE FENCE AREA. BARBED WIRE ARMS SHALL BE INSTALLED TO THE OUTSIDE OF THE SECURE AREA. CORNER POSTS AND GATE POSTS SHALL HAVE VERTICAL ARMS.

3. CONTRACTOR SHALL SUPPLY AND INSTALL CRUSHED AGGREGATE (SIZE 610) (6" DEPTH) AND ENGINEERED FILL MATERIAL NECESSARY TO CONSTRUCT A DRIVEWAY TO THE LIFT STATION FROM THE EXISTING ASPHALT PAVEMENT AS SHOWN AND/OR AS DIRECTED BY THE ENGINEER. (PAID UNDER LIFT STATION ITEM)

4. CONTRACTOR SHALL SUPPLY AND INSTALL CRUSHED AGGREGATE (SIZE 610) (6" DEPTH) THROUGHOUT THE INTERIOR OF THE FENCED AREA. (PAID UNDER LIFT STATION ITEM)

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THE ELECTRICAL SERVICE FOR THE LIFT STATION (INCLUDING BUT NOT LIMITED TO SERVICE POLE W/ SECURITY LIGHT, UNDERGROUND ELECTRICAL SERVICE, TRANSFORMER(S), METER BASE AND METER, ALL NECESSARY CONNECTION, PERMIT(S), APPLICATION(S), FEE, ETC.). (PAID UNDER LIFT STATION ITEM)

NO.	DATE	DESCRIPTION	BY

LIFT STATION SITE PLAN

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
FORREST COUNTY, MISSISSIPPI

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Drawing No.: 1573S005	Sheet No. 8

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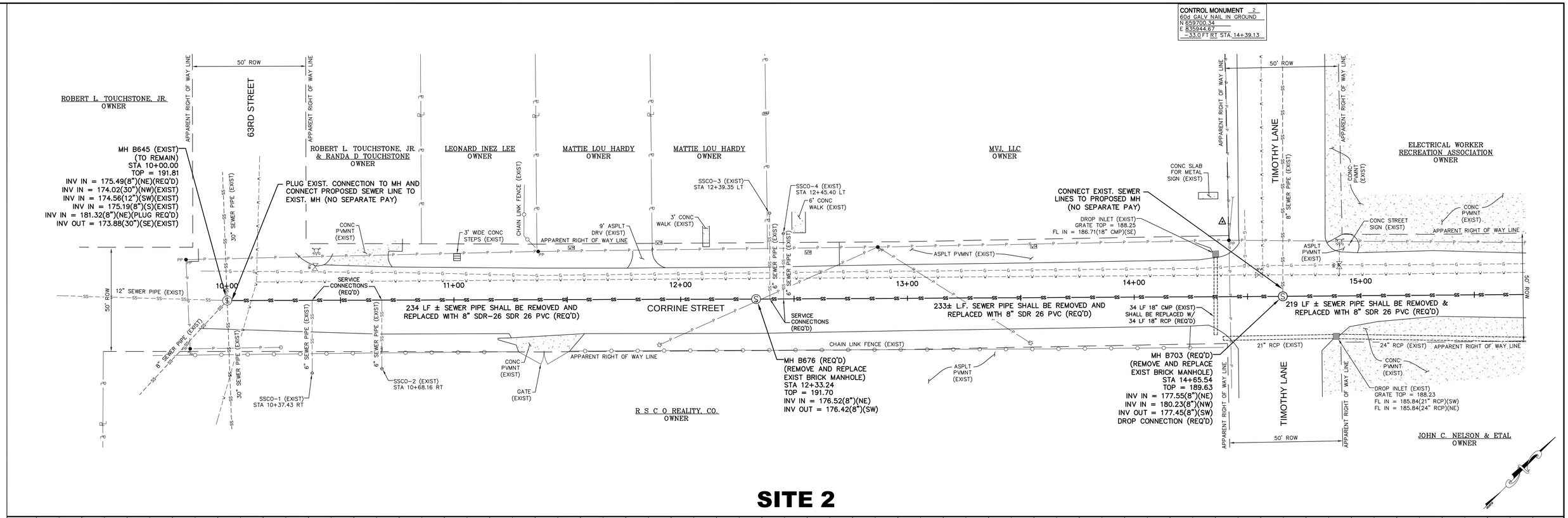

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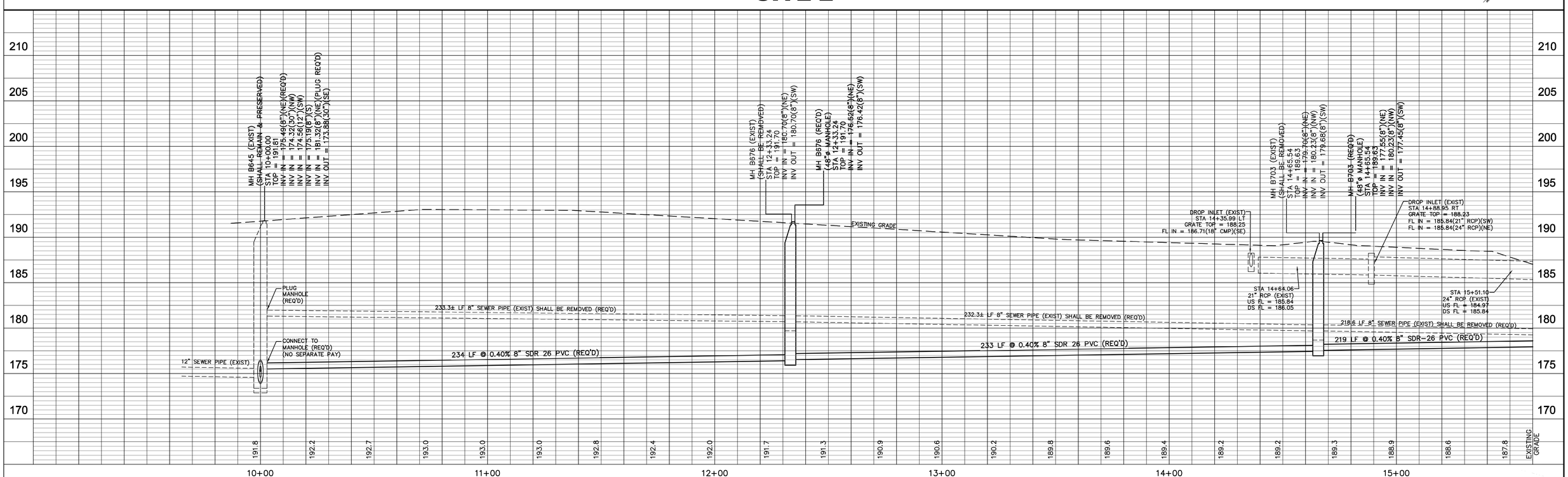

SITE 2 – CORRINE STREET: STA. 10+00 (BOP) – 15+50
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273-S005
SHEET 9

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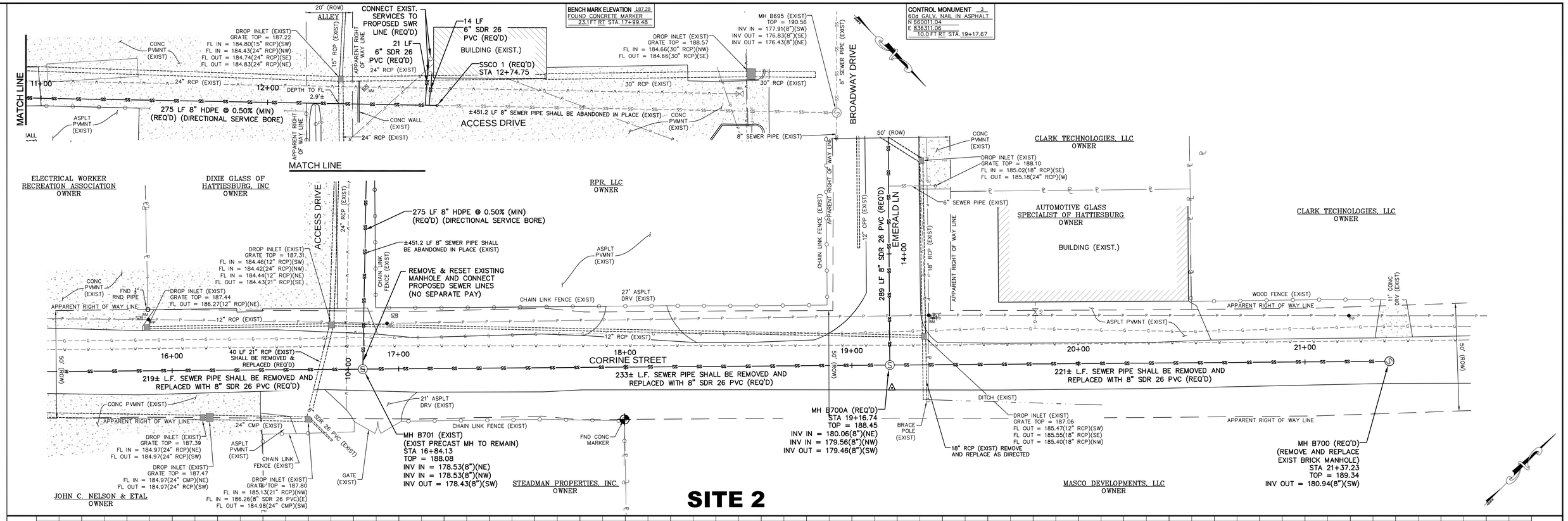

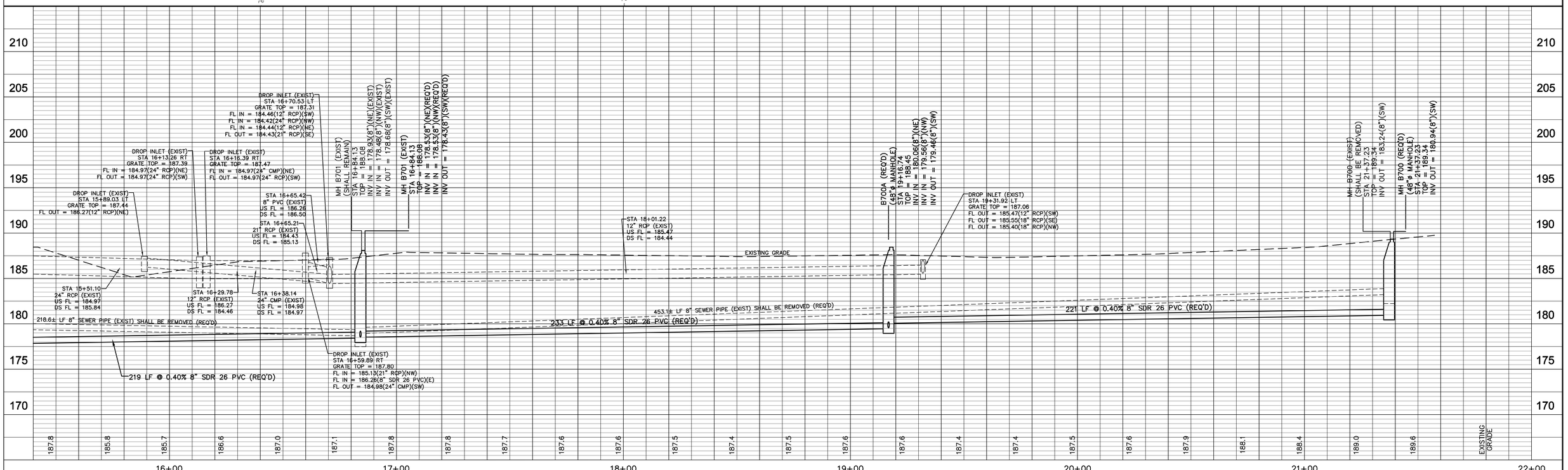

SITE 2 – CORRINE STREET: STA. 15+50 – 21+37.23 (EOP)
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
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DRAWING NO. 1273–S005
SHEET 10

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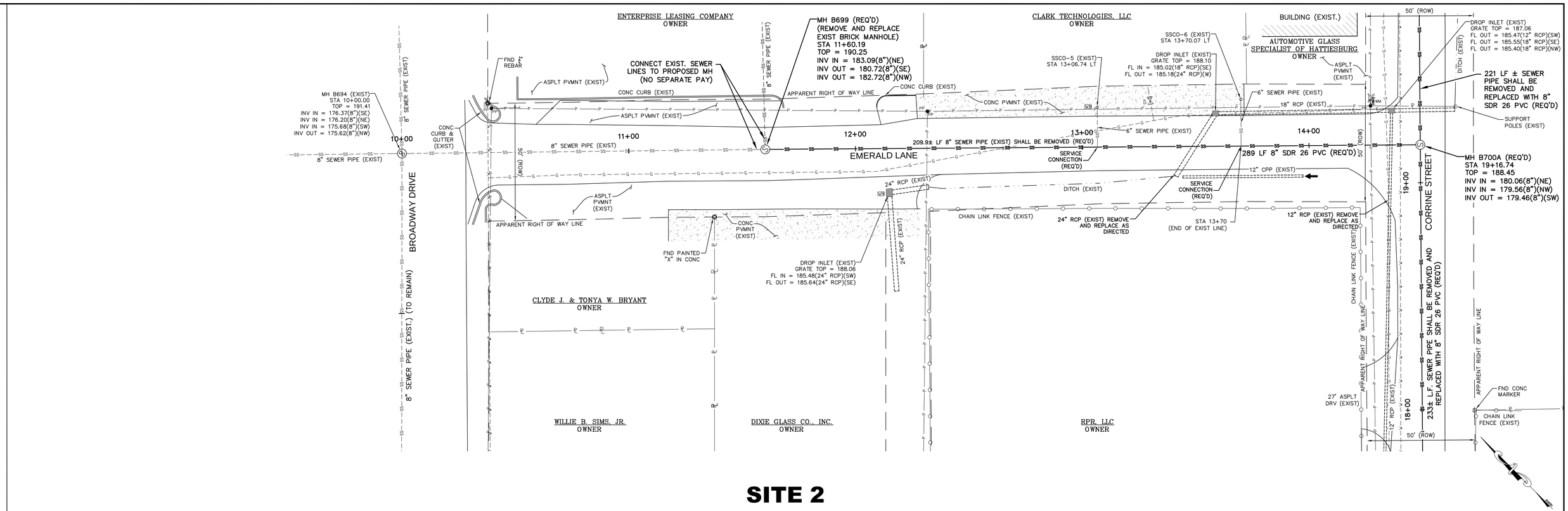

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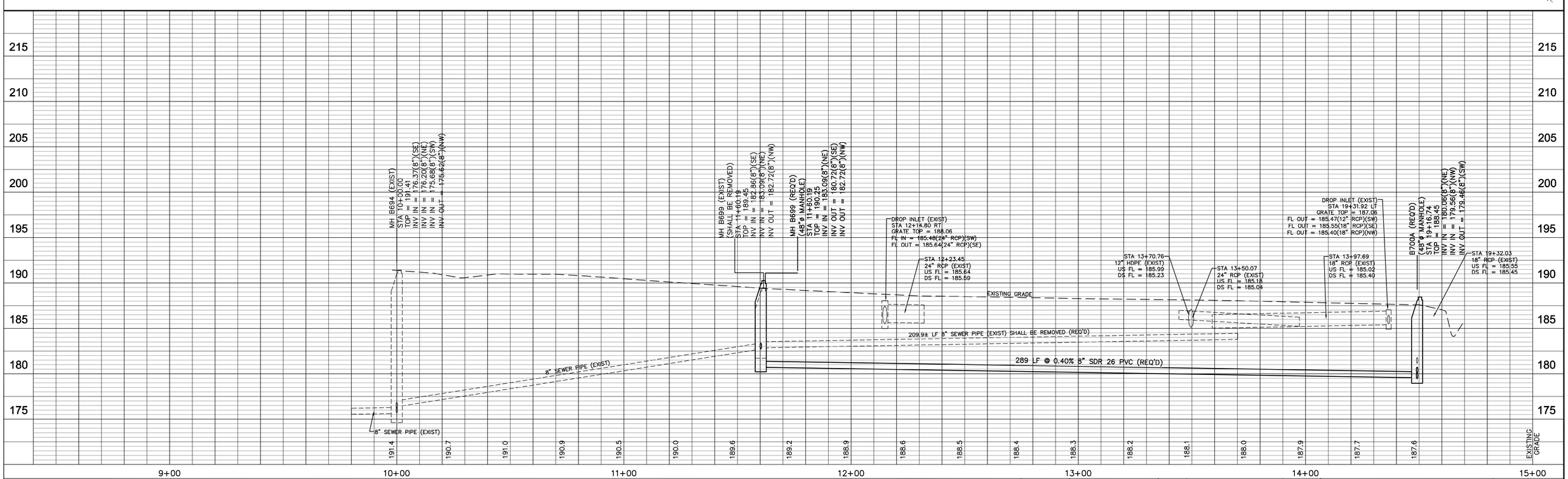

SITE 2 – EMERALD LANE: STA. 10+00 (BOP) – 14+49.06 (EOP)
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

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DRAWING NO. 1273-S005
SHEET 11

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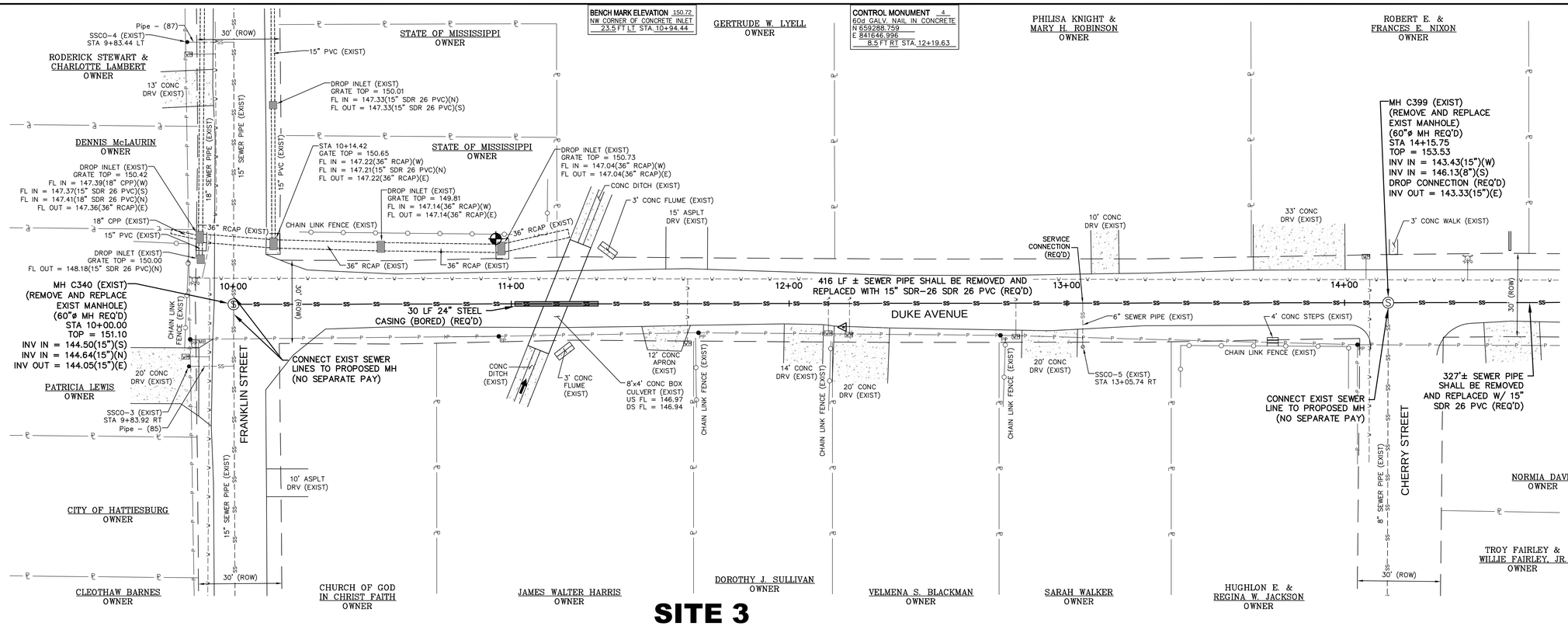

SITE 3 – DUKE AVENUE: STA. 10+00 (BOP) – 14+15.75
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

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DATE: 01/03/2017
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DRAWING NO. 1273-S005
SHEET 12

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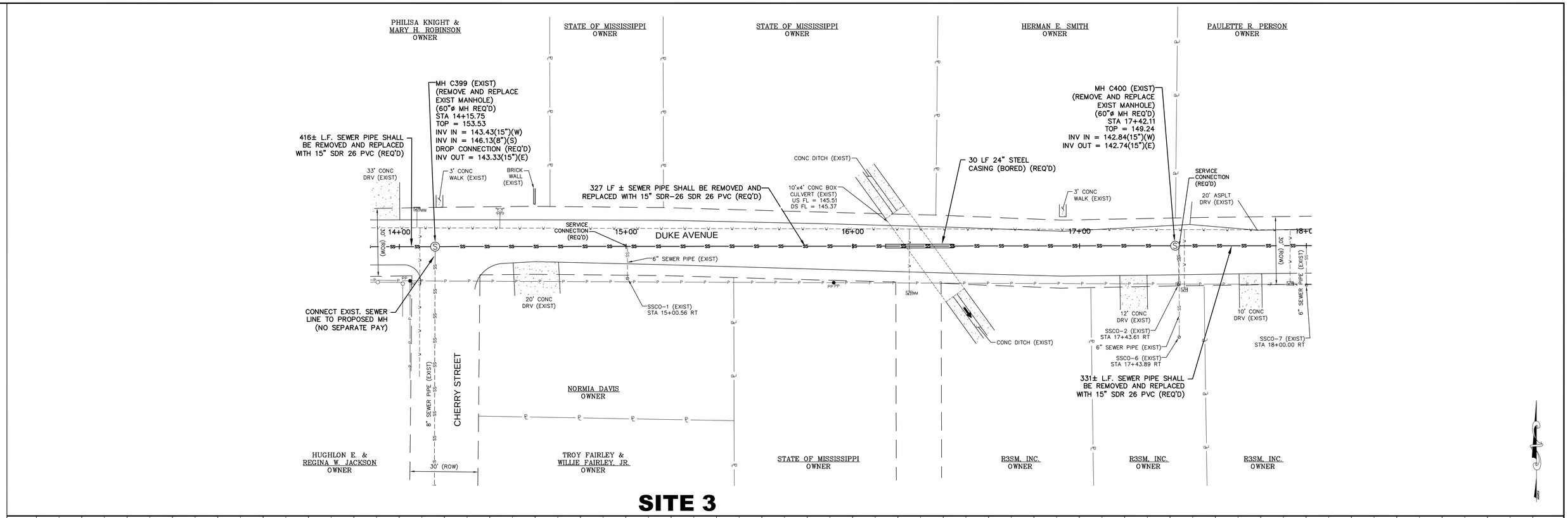

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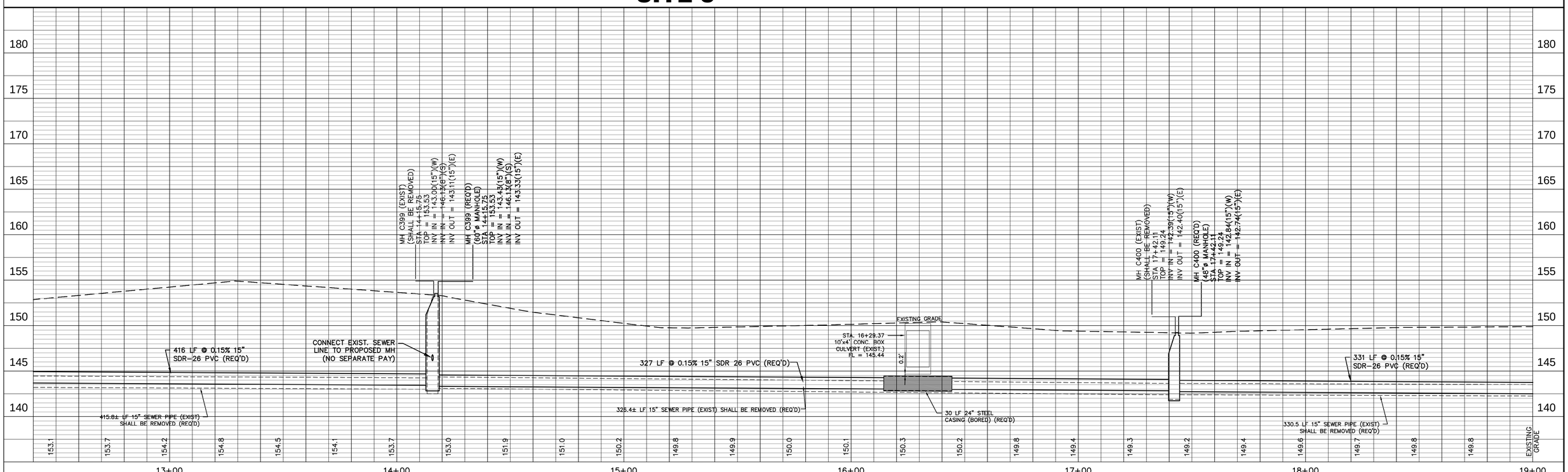

SITE 3 – DUKE AVENUE: STA. 15+00 – 18+00
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273–S005
SHEET 13

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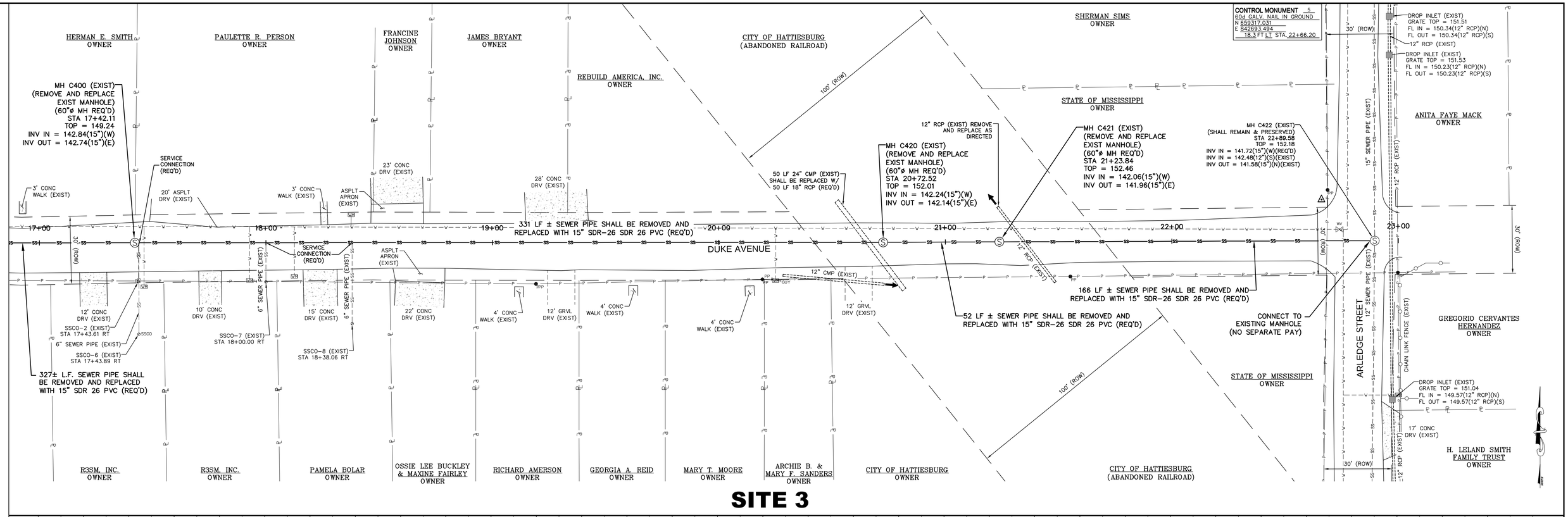

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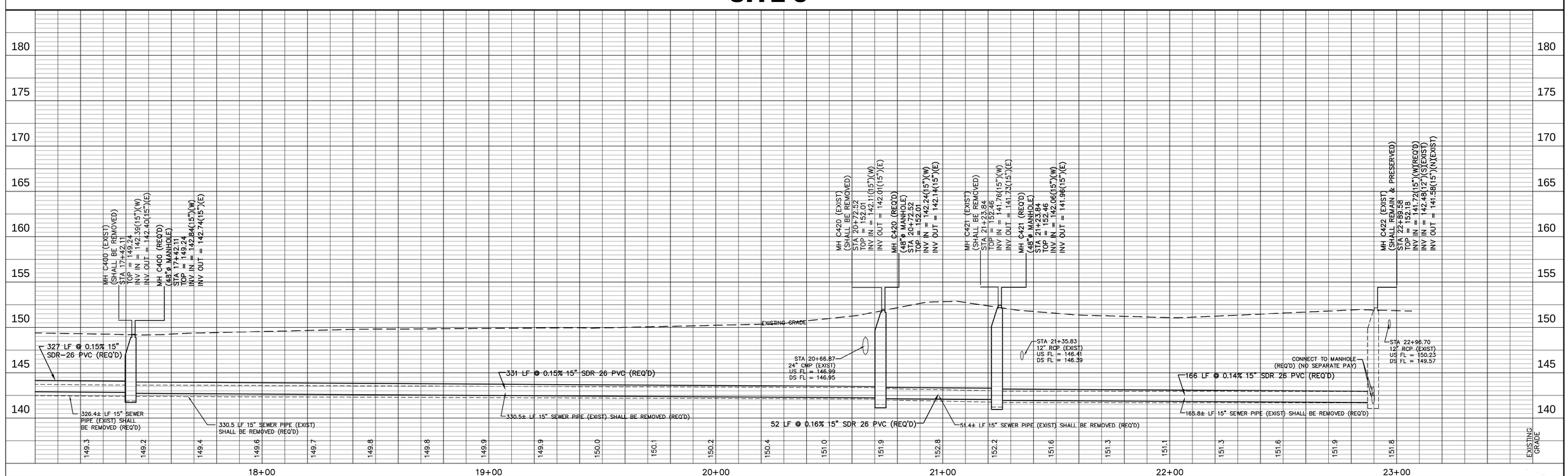

SITE 3 – DUKE AVENUE: STA. 18+00 – 22+89.58 (EOP)
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

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DATE: 01/03/2017
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DRAWING NO. 1273-S005
SHEET 14

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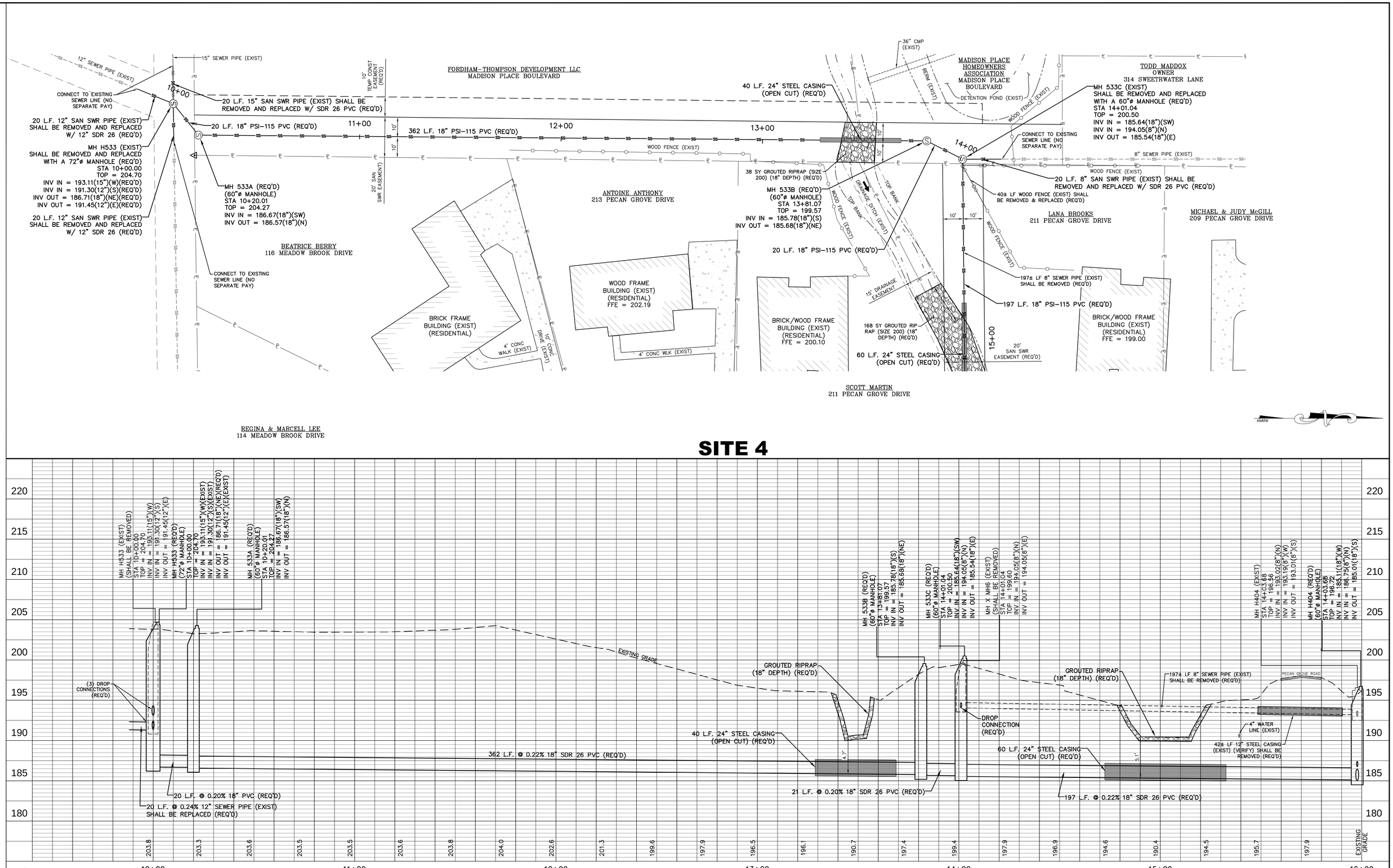

SITE 4 – MADISON PLACE EASEMENT: STA. 10+00 – 14+01.04
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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DRAWING NO. 1273-S005
SHEET 15

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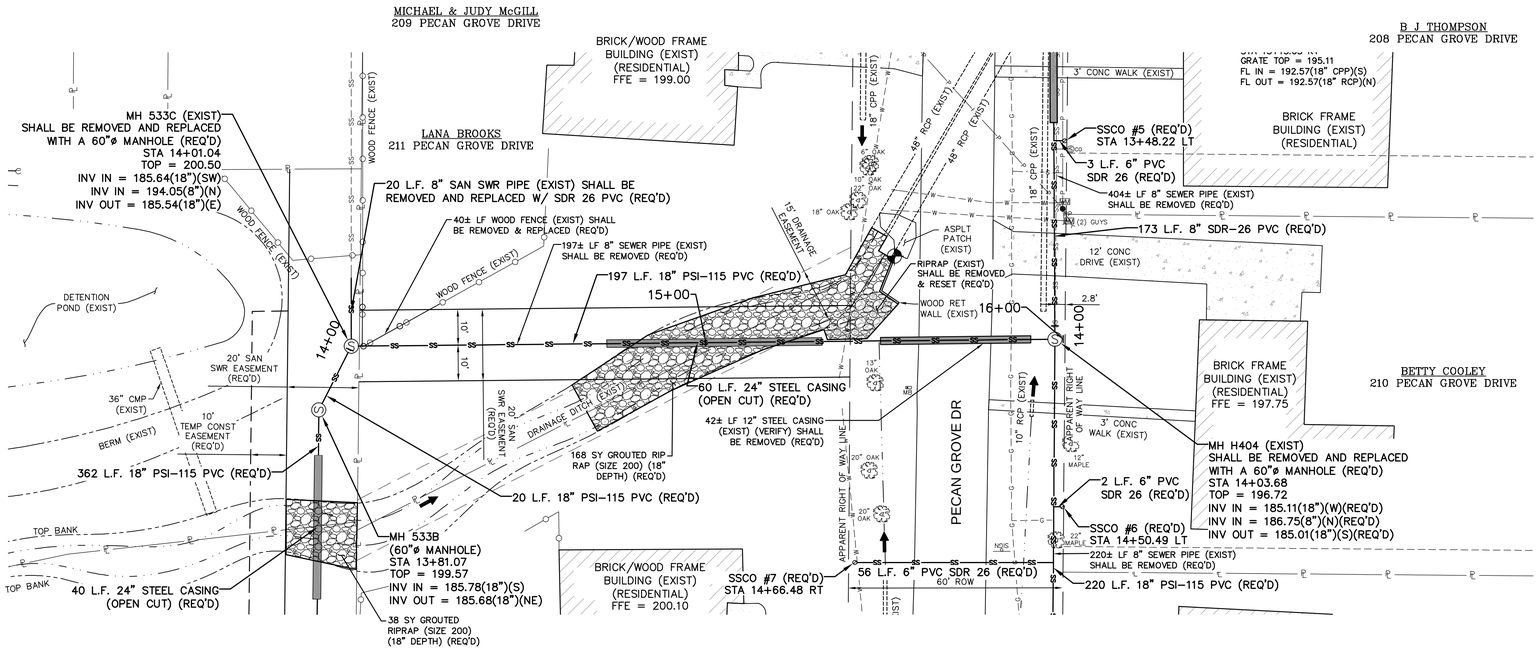
BENCH MARK ELEVATION 195.81
NORTH END OF WOOD RET WALL
23.7 FT LT STA. 15+71.21



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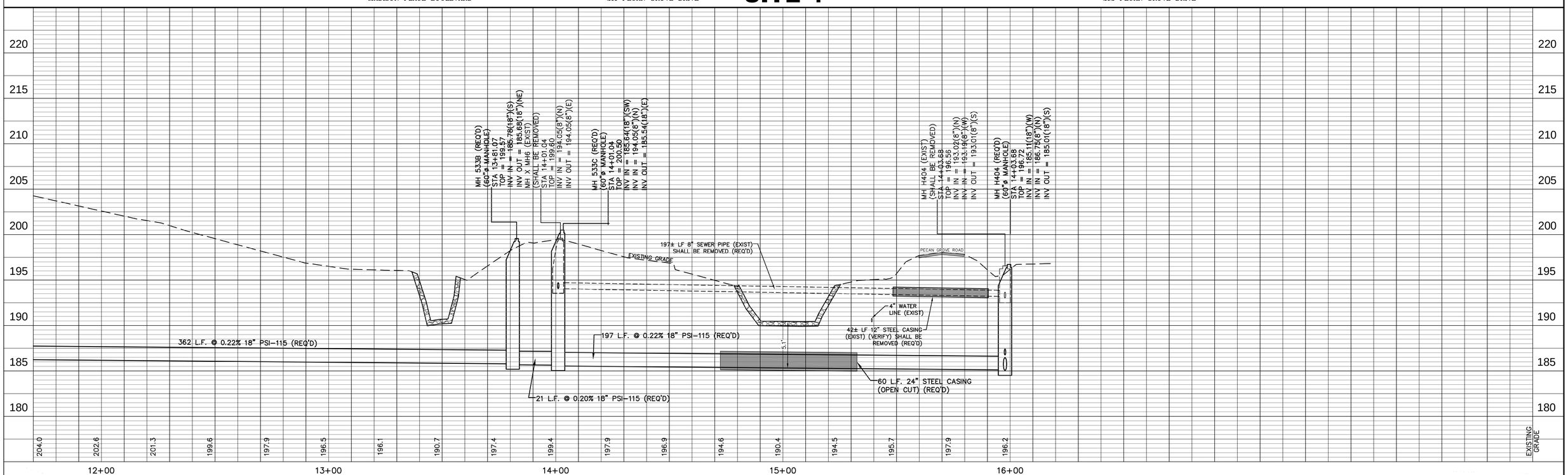

SITE 4 – MADISON PLACE EASEMENT: STA. 14+01.04 – 15+97.69
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

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DRAWING NO. 1273-S005
SHEET 16

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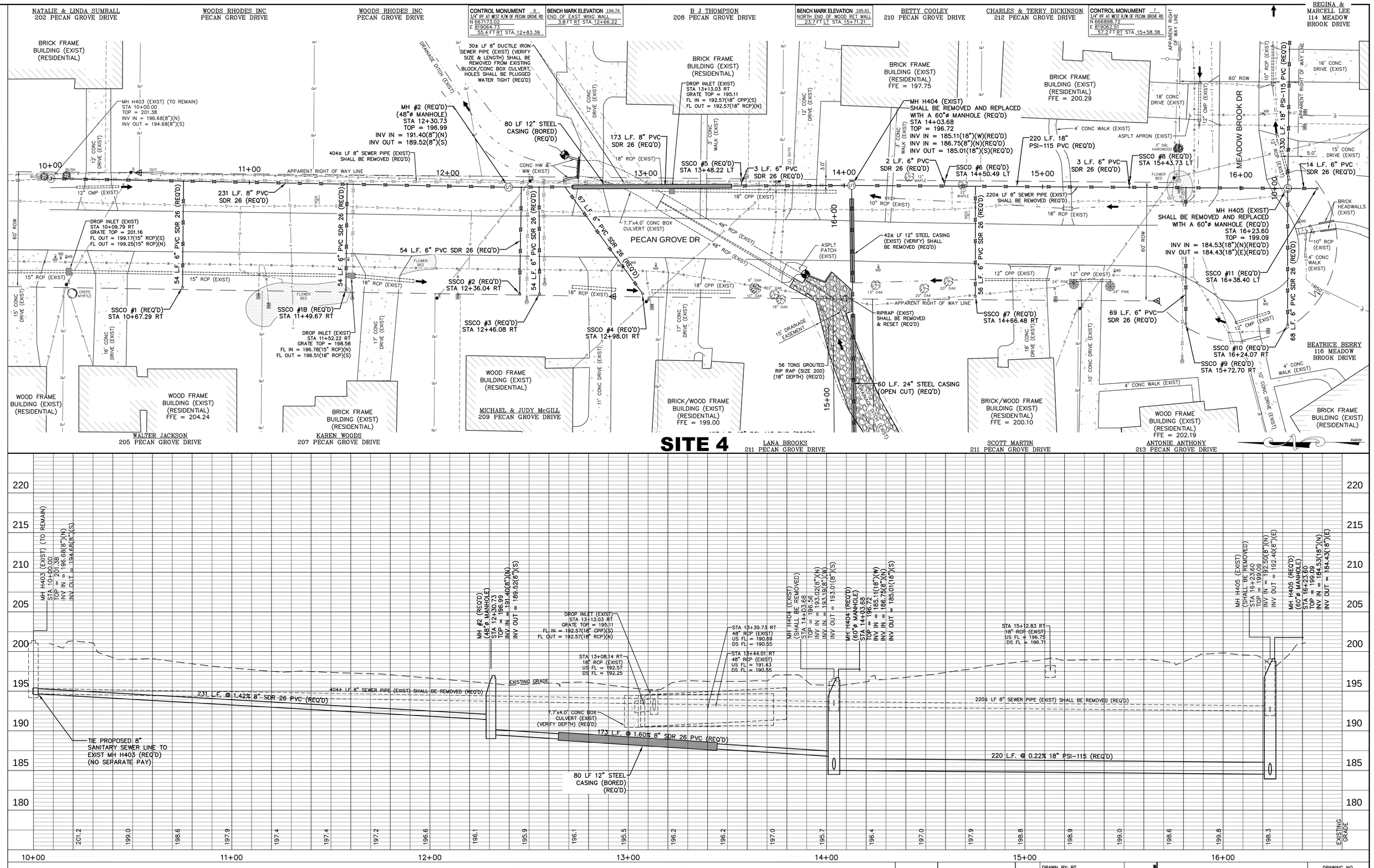

SITE 4 – PECAN GROVE DRIVE: STA. 10+00 – 16+23.60
COMPEHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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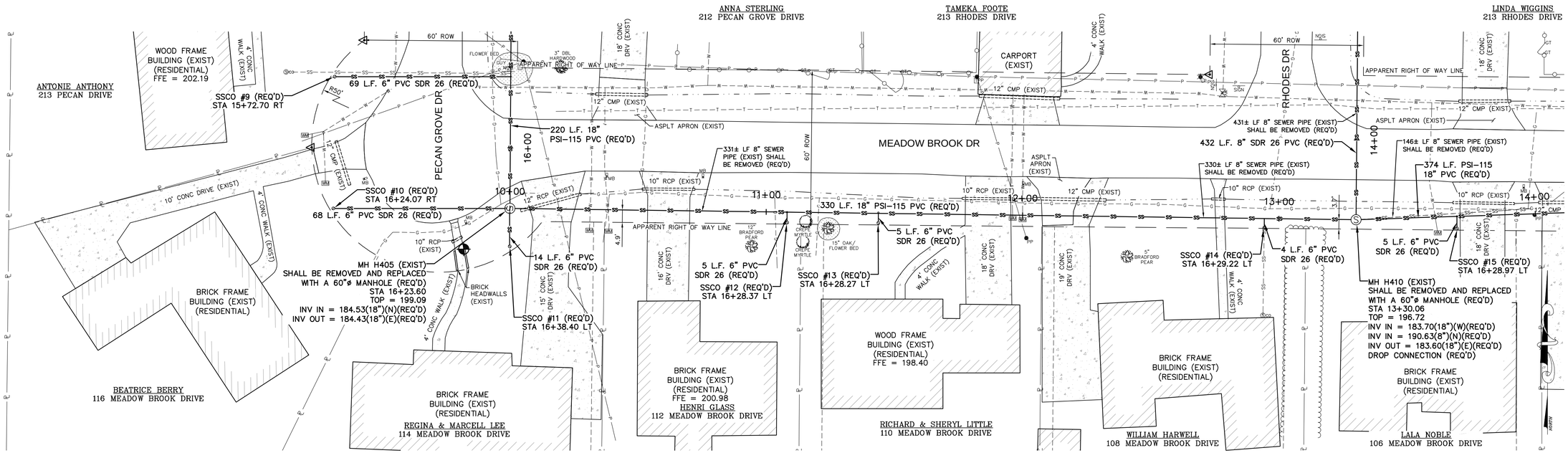
DRAWING NO. 1273-S005
SHEET 17

G:\PROJECTS\Hattiesburg, City of\1273-S005 - Comprehensive Sewer Improvements - Phase V\1273S005-Site 4.pdf\dwg, 17, 1/25/2017 2:26:52 PM

CONTROL MONUMENT 7	BENCH MARK ELEVATION 199.57
3/4" IPF AT WEST R/W OF PECAN GROVE RD	TOP INSIDE CRN OF EAST BRICK WALL
N 666898.72	16.1 FT RT STA. 9+82.23
E 819062.51	
57.2 FT RT STA. 15+58.38	

CONTROL MONUMENT 9
3/4" IPF @ NORTH R/W OF MEADOW BROOK DR
N 666885.31
E 819392.32
-55.9 FT LT STA. 12+72.30



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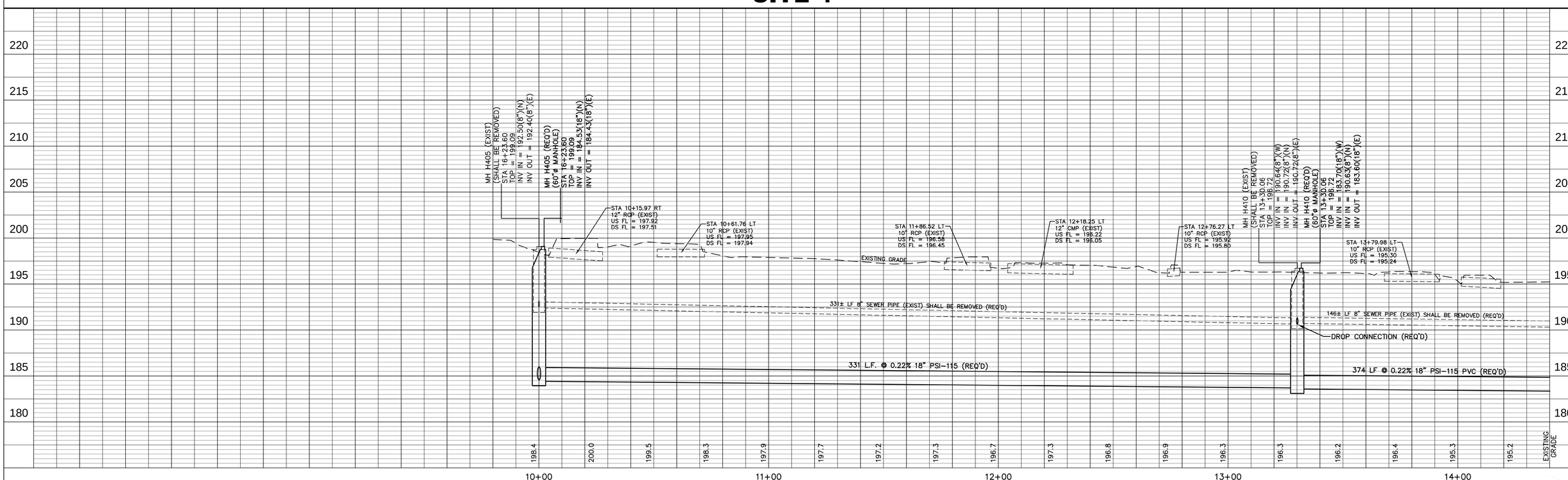

SITE 4 – MEADOW BROOK DRIVE: STA. 10+00 – 14+00
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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SCALE: 1"=20' H, 1'=5' V

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DRAWING NO. 1273-S005
SHEET 18

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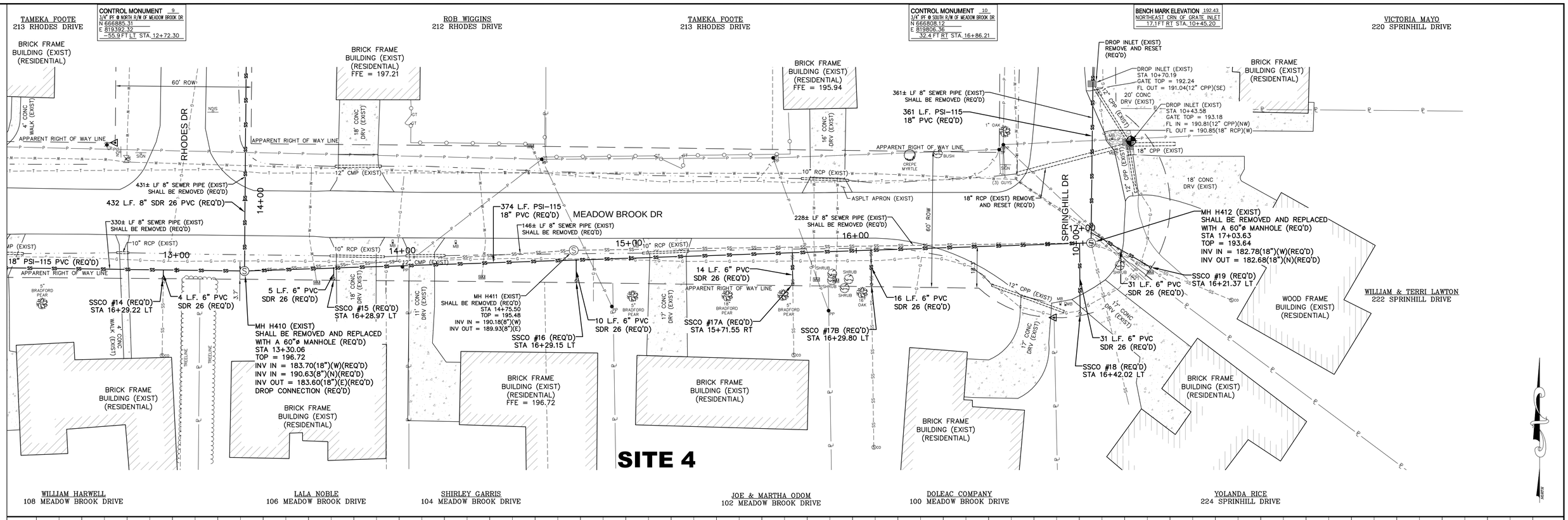

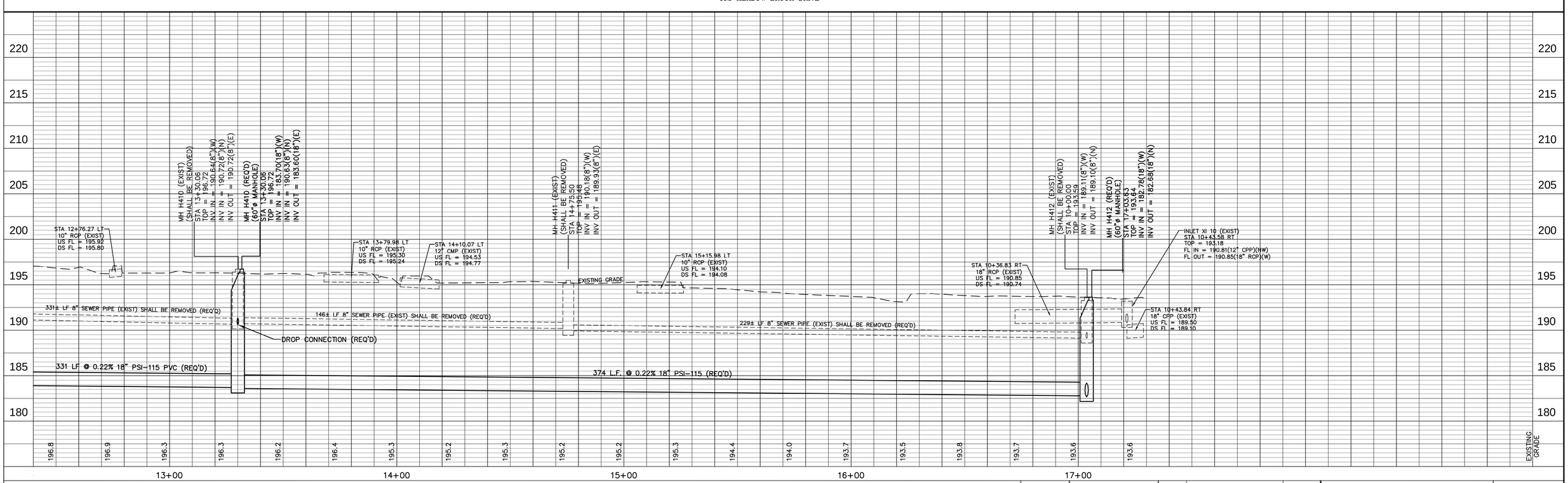

SITE 4 – MEADOW BROOK DRIVE: STA. 14+00 – 17+03.63
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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DRAWING NO. 1273-S005
SHEET 19

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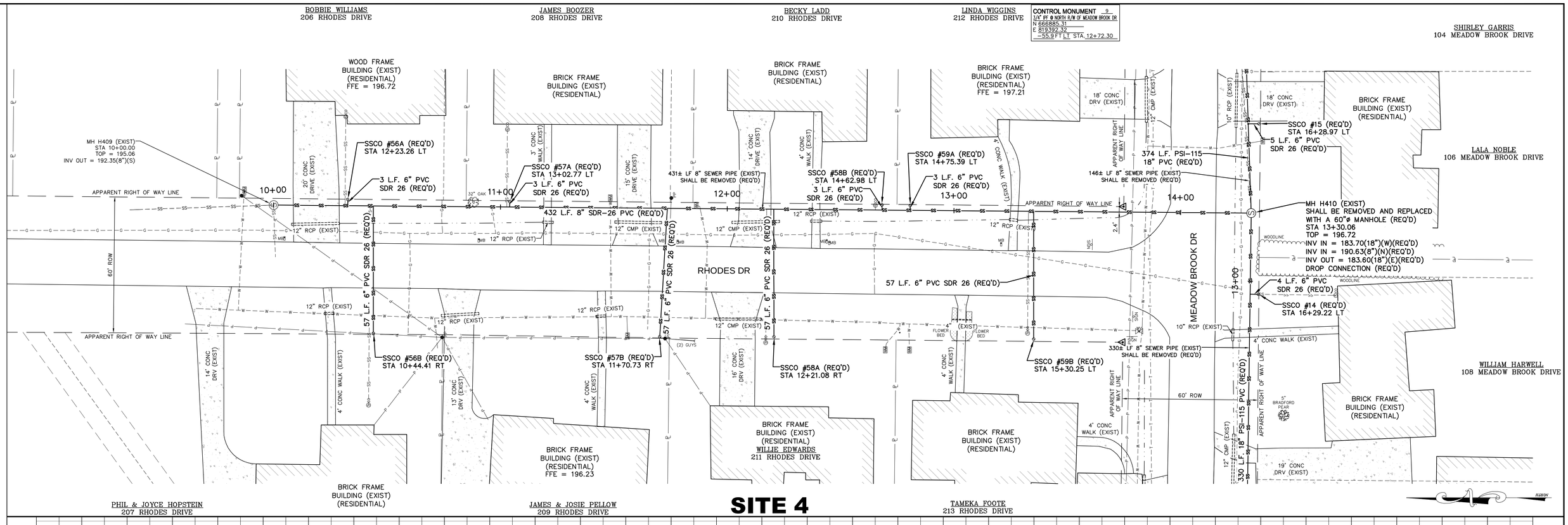

SITE 4 – RHODES DRIVE: STA. 10+00 – 14+31.10
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273-S005
SHEET 20

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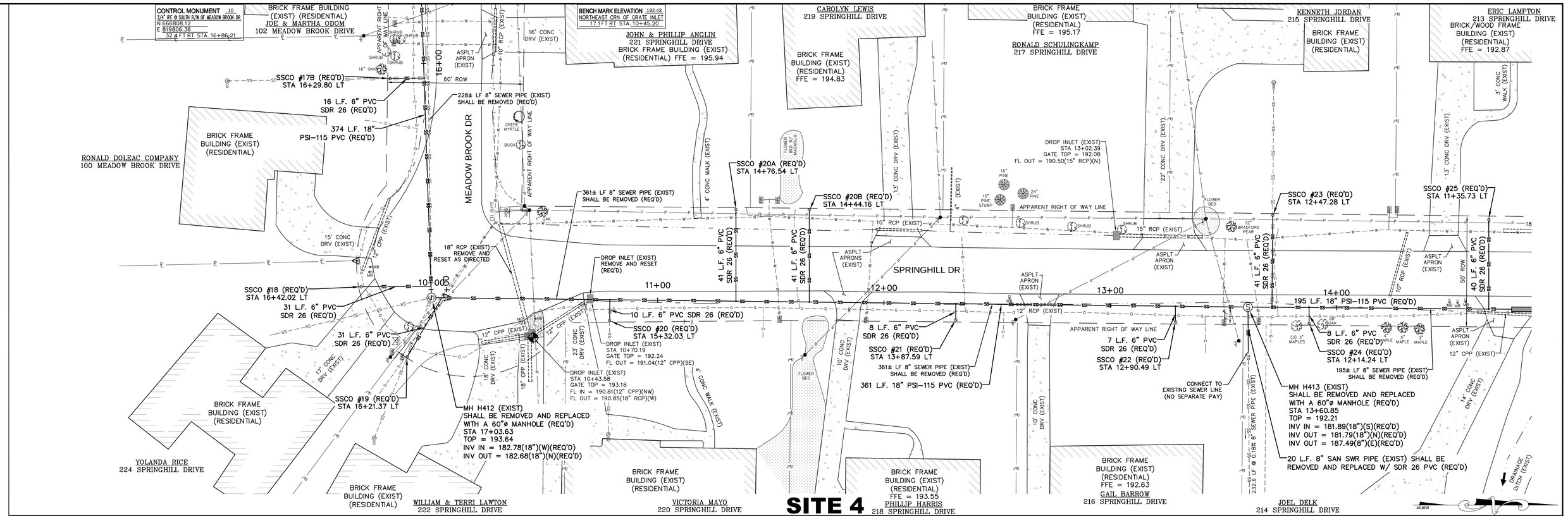

SITE 4 – SPRINGHILL DRIVE: STA. 10+00 – 14+50
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273-S005
SHEET 21

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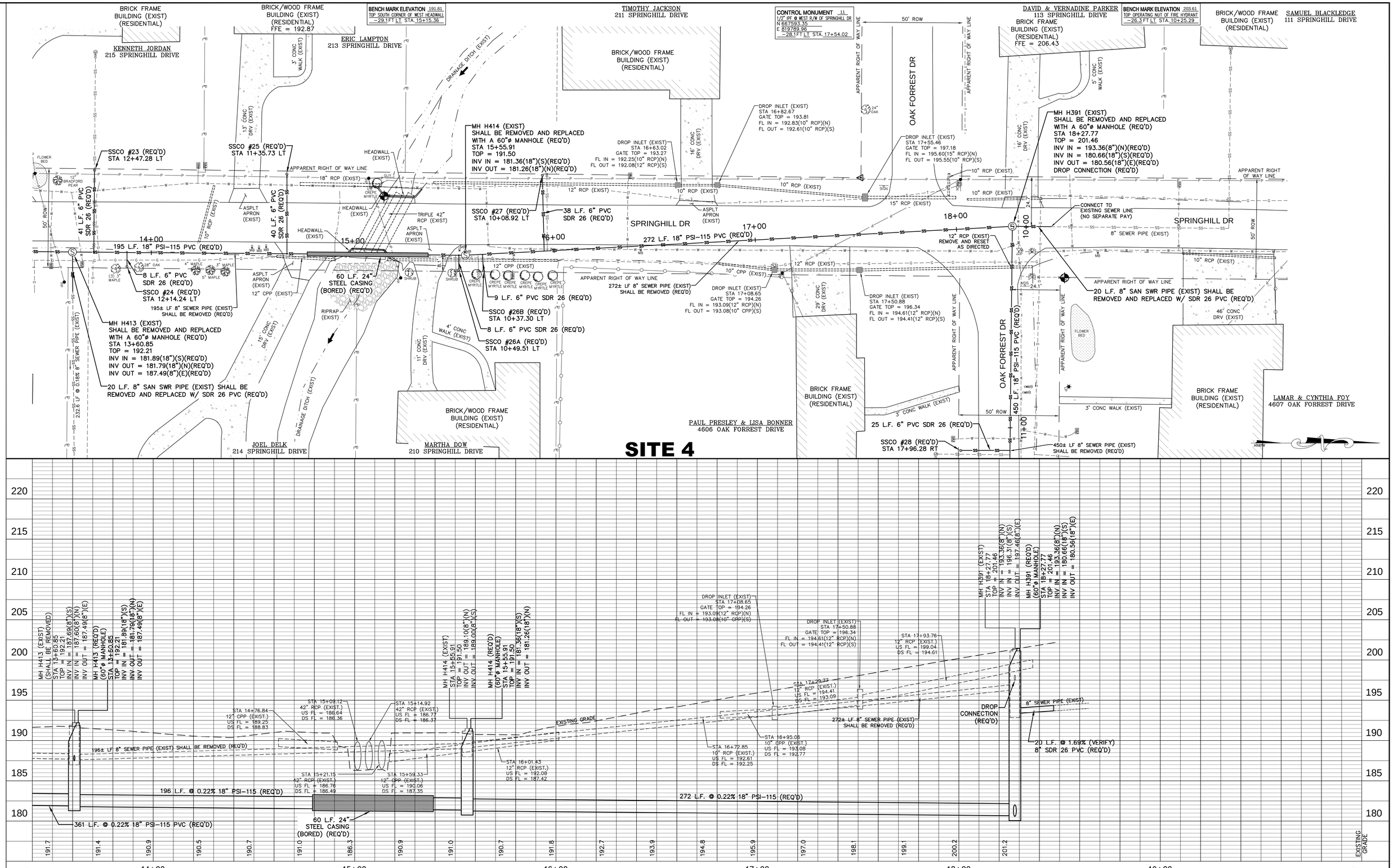

SITE 4 – SPRINGHILL DRIVE: STA. 14+50 – 18+27.77
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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SHEET 22

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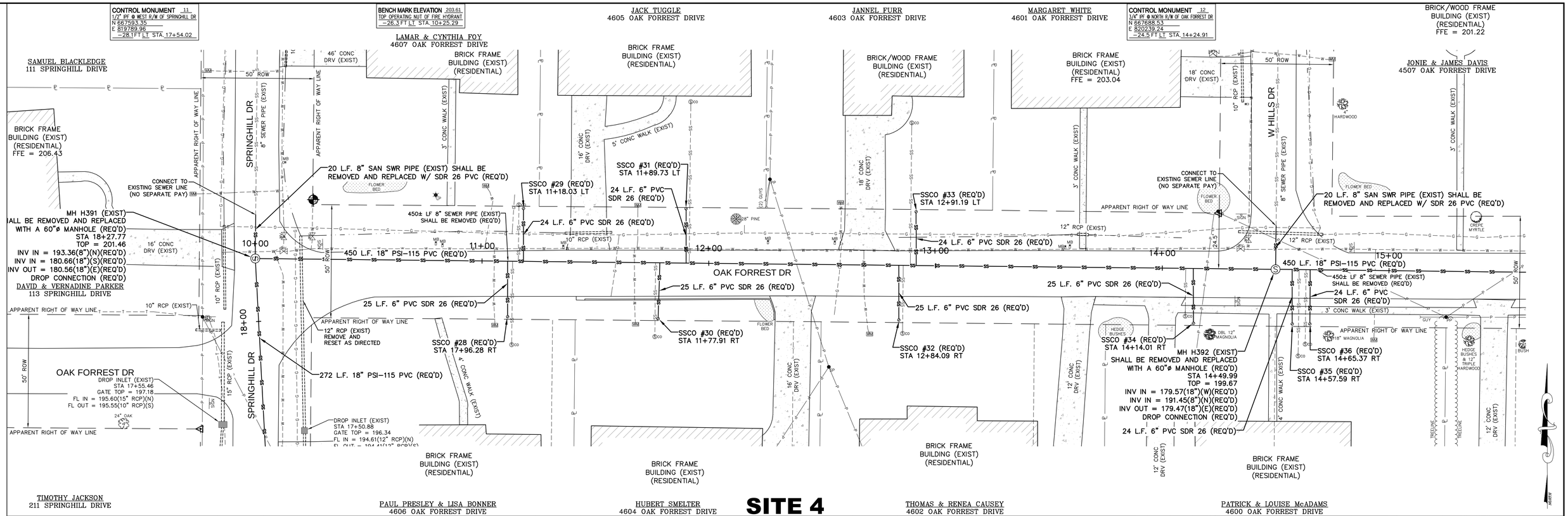

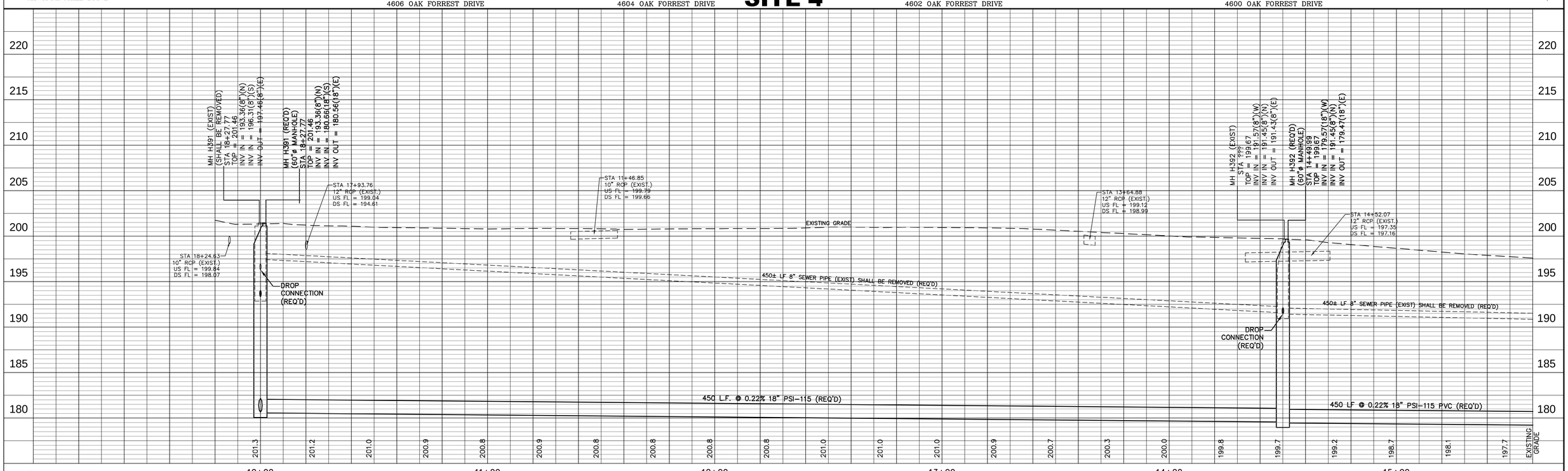

SITE 4 – OAK FORREST DRIVE: STA. 10+00 – 15+50
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273–S005
SHEET 23

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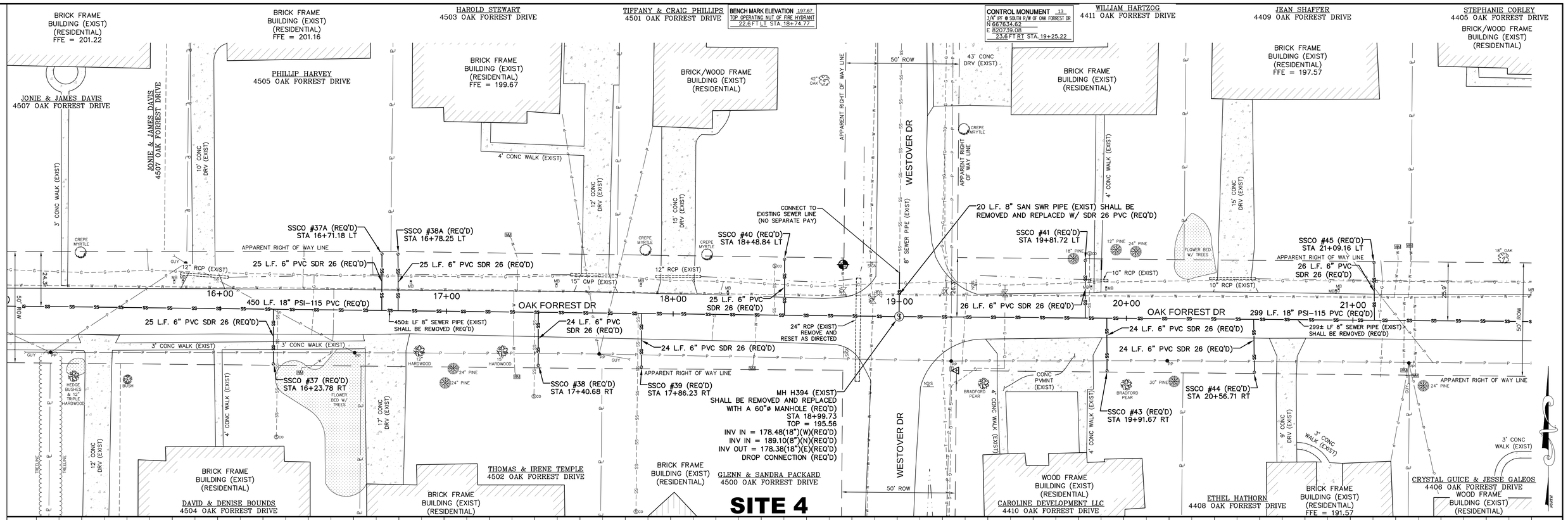

SITE 4 – OAK FORREST DRIVE: STA. 15+50 – 21+50
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273–S005
SHEET 24

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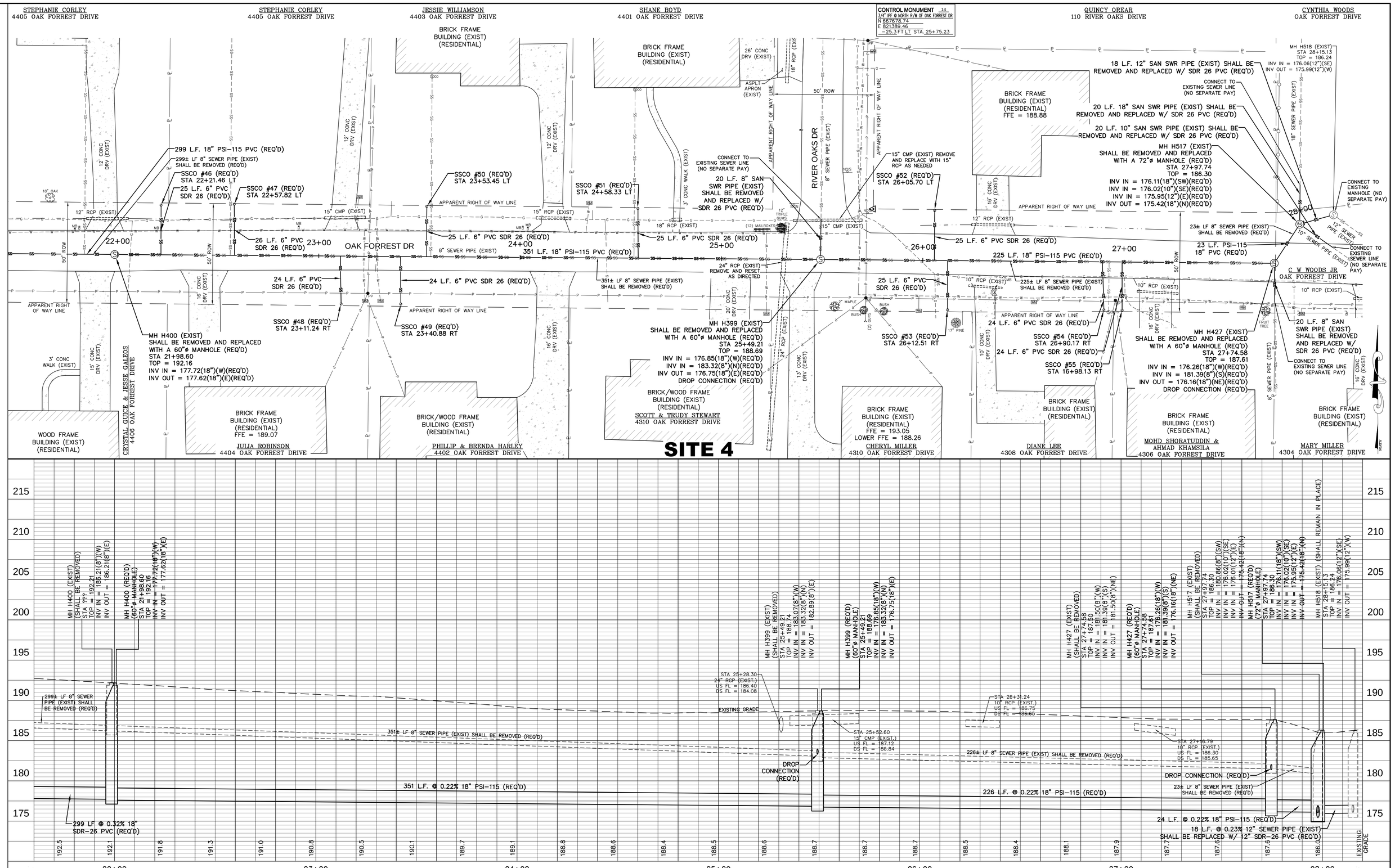

SITE 4 – OAK FORREST DRIVE: STA. 21+50 – 27+97.74
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
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SCALE: 09/15/2015

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DRAWING NO. 1273–S005
SHEET 25

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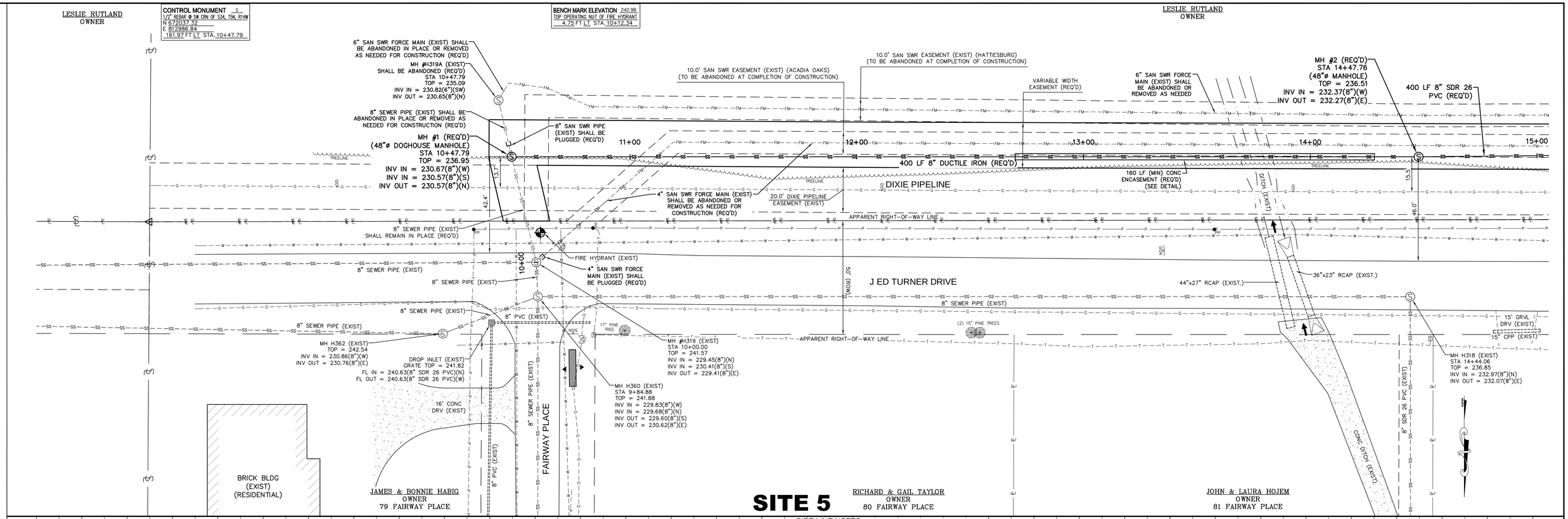

SITE 5 – J ED TURNER DRIVE: STA. 10+00 – 15+00
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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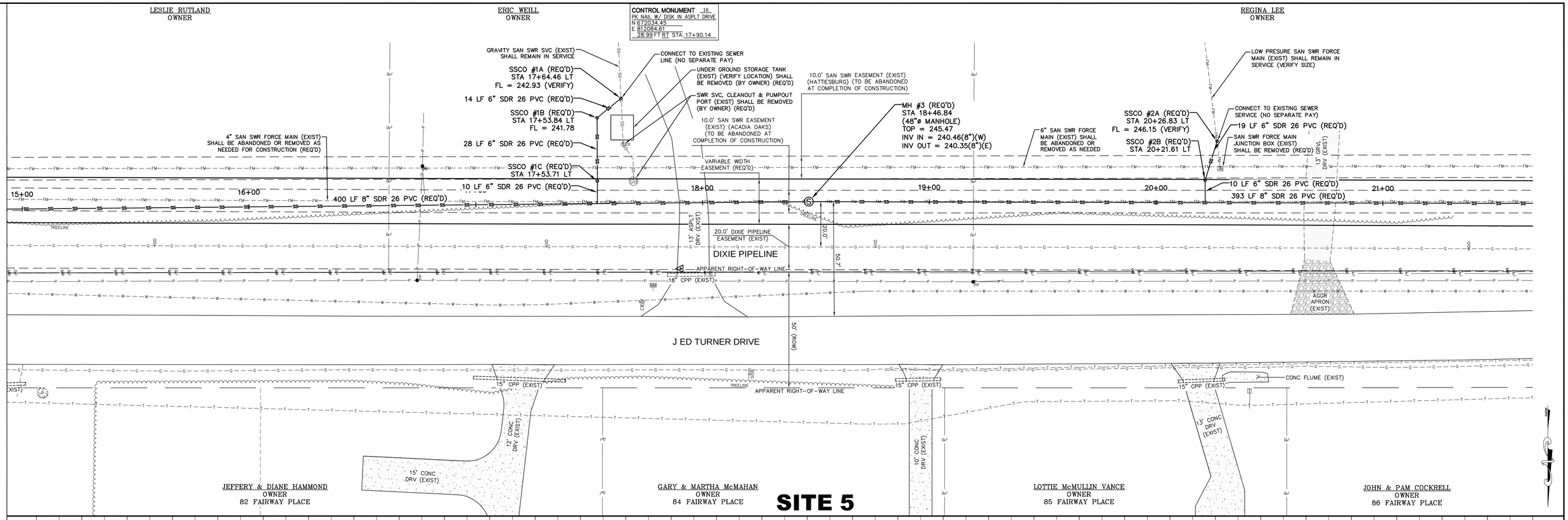
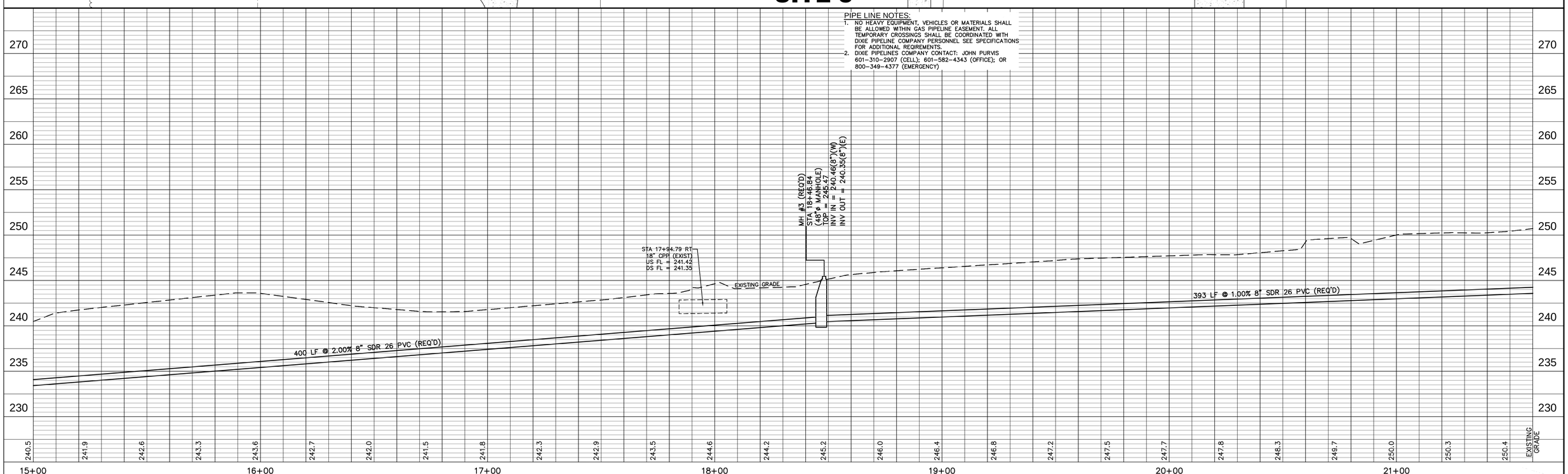
DRAWING NO. 1273–S005
SHEET 26

G:\PROJECTS\Hattiesburg_City of\1273-S005 - Comprehensive Sewer Improvements - Phase V\1273S005CAD Files\1273S005_Site 5.PnP, v2.dwg, 20, 1/25/2017 2:32:47 PM



PIPE LINE NOTES:

1. NO HEAVY EQUIPMENT, VEHICLES OR MATERIALS SHALL BE ALLOWED WITHIN GAS PIPELINE EASEMENT. ALL TEMPORARY CROSSINGS SHALL BE COORDINATED WITH DIXIE PIPELINE COMPANY PERSONNEL SEE SPECIFICATIONS FOR ADDITIONAL REQIREMENTS.
2. DIXIE PIPELINES COMPANY CONTACT: JOHN PURVIS 601-310-2907 (CELL); 601-582-4343 (OFFICE); OR 800-349-4377 (EMERGENCY)



SITE 5 – J ED TURNER DRIVE: STA. 15+00 – 21+60
COMPEHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273-S005
SHEET 27

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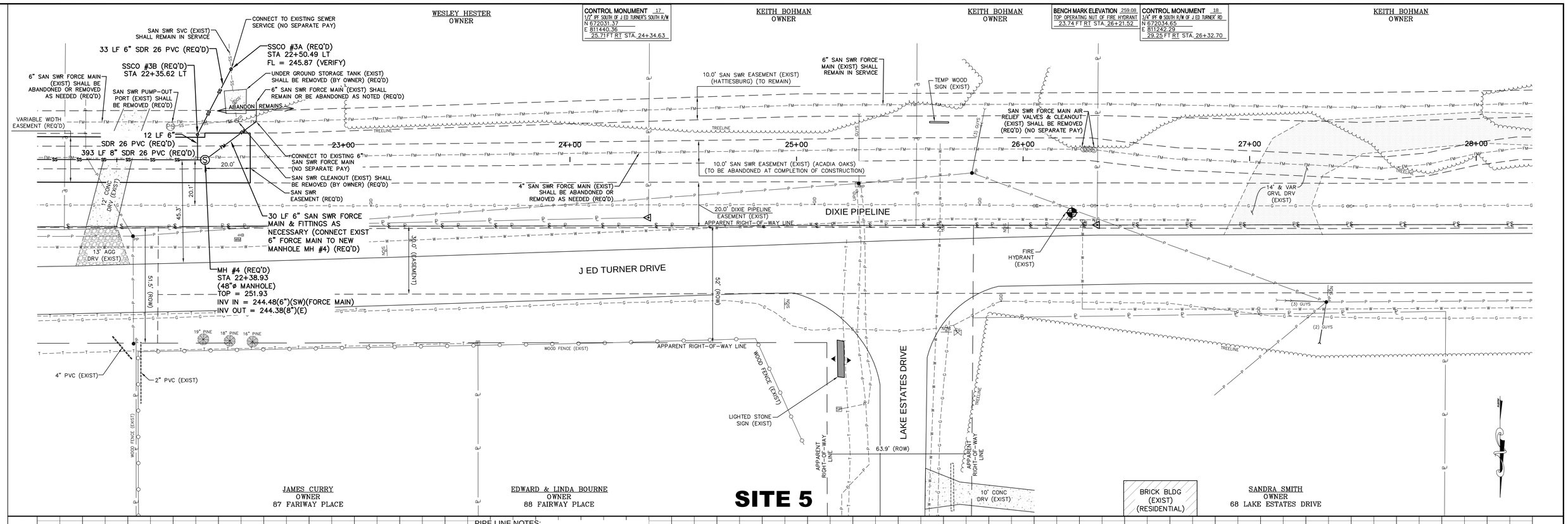
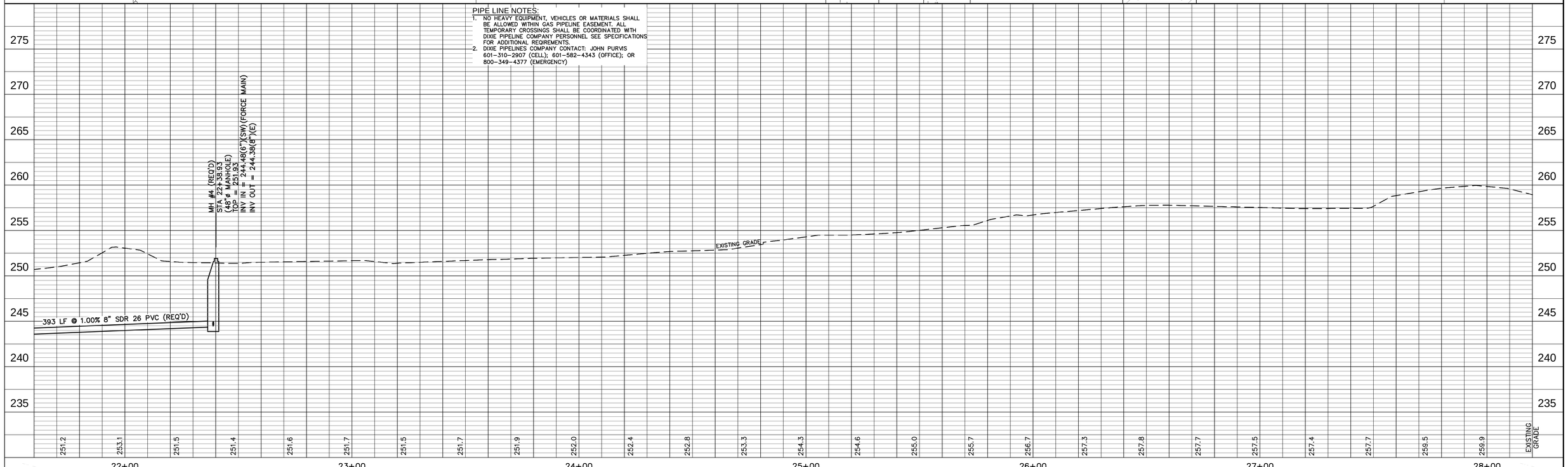


PIPE LINE NOTES:

1. NO HEAVY EQUIPMENT, VEHICLES OR MATERIALS SHALL BE ALLOWED WITHIN GAS PIPELINE EASEMENT. ALL TEMPORARY CROSSINGS SHALL BE COORDINATED WITH DIXIE PIPELINE COMPANY PERSONNEL SEE SPECIFICATIONS FOR ADDITIONAL REQIREMENTS.
2. DIXIE PIPELINES COMPANY CONTACT: JOHN PURVIS 601-310-2907 (CELL); 601-582-4343 (OFFICE); OR 800-349-4377 (EMERGENCY)



SITE 5 – J ED TURNER DRIVE: STA. 21+60 – 22+38.93
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
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DRAWING NO. 1273-S005
SHEET 28

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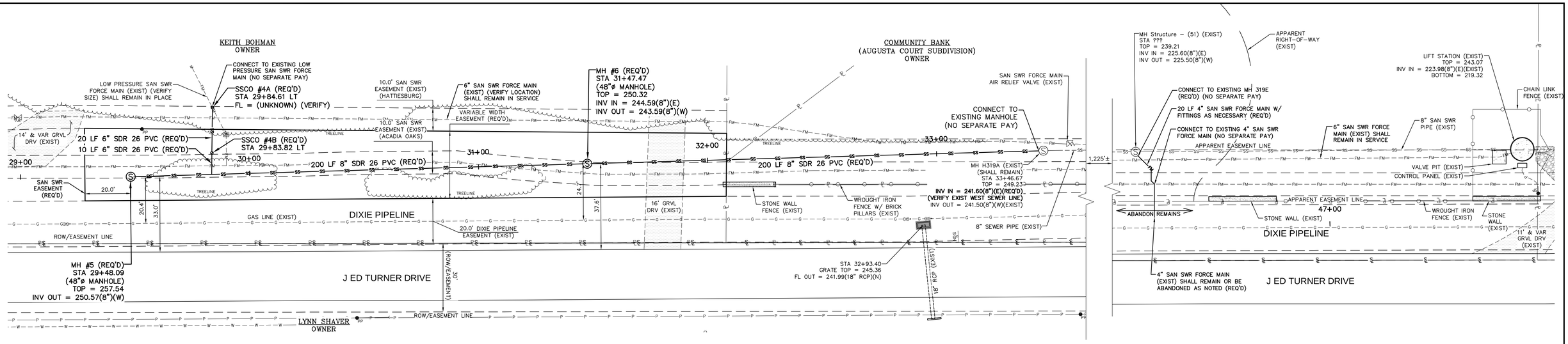
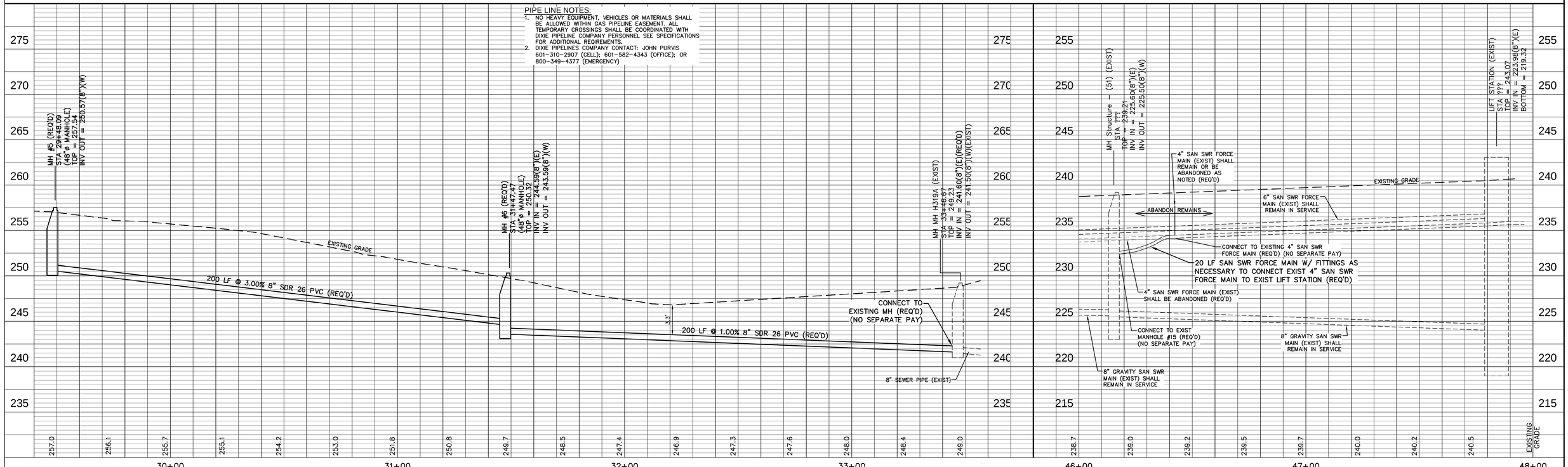


SITE 5

PIPE LINE NOTES:

1. NO HEAVY EQUIPMENT, VEHICLES OR MATERIALS SHALL BE ALLOWED WITHIN GAS PIPELINE EASEMENT. ALL TEMPORARY CROSSINGS SHALL BE COORDINATED WITH DIXIE PIPELINE COMPANY PERSONNEL SEE SPECIFICATIONS FOR ADDITIONAL REQIREMENTS.
2. DIXIE PIPELINES COMPANY CONTACT: JOHN PURVIS 601-310-2907 (CELL); 601-582-4343 (OFFICE); OR 800-349-4377 (EMERGENCY)



SITE 5 – J ED TURNER DR: STA. 29+48.09 – 33+46.67 & LIFT STATION
COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V

DATE	REVISION	BY

DRAWN BY: BT
DATE: 01/03/2017
CHECKED BY: KDW
SCALE: 1"=20' H, 1"=5' V

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DRAWING NO. 1273-S005
SHEET 29

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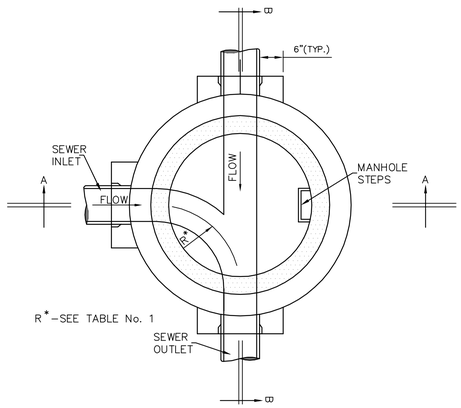
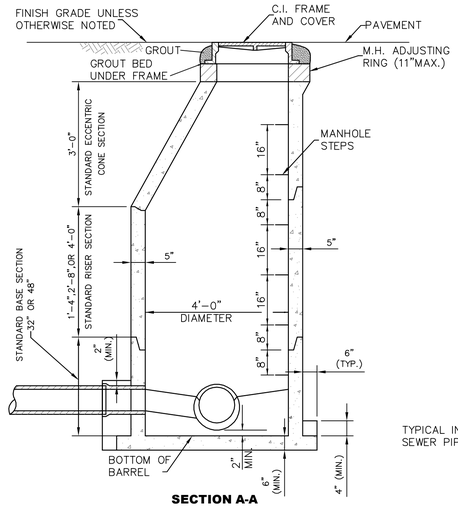


SECTIONAL PLAN

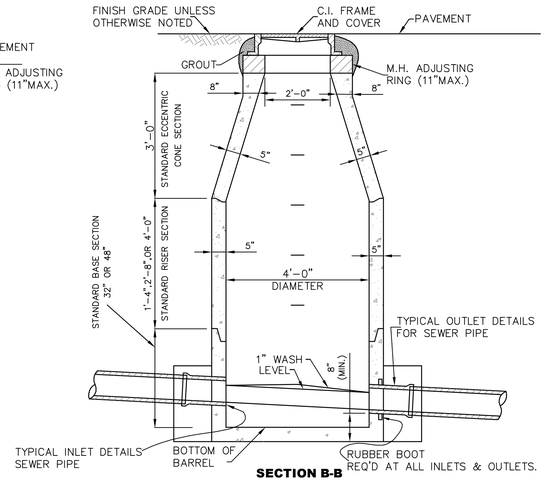
STANDARD PRECAST 4'-0" DIAMETER MANHOLE

NOTE: 5–0" & 6'–0" DIAMETER MANHOLE MAY BE SIMILAR DESIGN IF APPROVED BY THE ENGINEER. SHOWN WITH CLAY OR CONCRETE PIPE



SECTION A-A

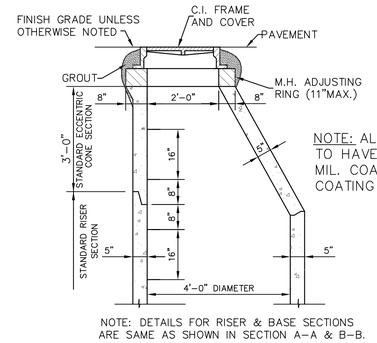
SHOWN WITH MANHOLE BOTTOM-PRECAST



SECTION B-B

SHOWN WITH MANHOLE BOTTOM CAST-IN-PLACE

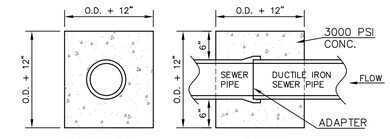
NOTE: CAST–IN–PLACE MANHOLE BOTTOMS SHALL HAVE #4 BARS 12"O.C.E.W. 4" ABOVE BOTTOM OF SLAB EXTENDING TO 3" OF EDGE OF SLAB. CAST–IN–PLACE BOTTOMS SHALL BE A MIN. OF 8" THICK.



NOTE: ALL MANHOLES TO HAVE A MIN. OF 16 MIL. COAL TAR EPOXY COATING ON INSIDE.

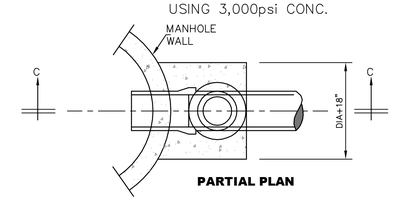
NOTE: DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTION A–A & B–B.

STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES



TYPICAL SEWER PIPE CONNECTION TO SAME SIZE DUCTILE IRON SEWER PIPE

NOTE: DROP MANHOLE ASSEMBLY TO BE FORMED AND POURED USING 3,000psi CONC.

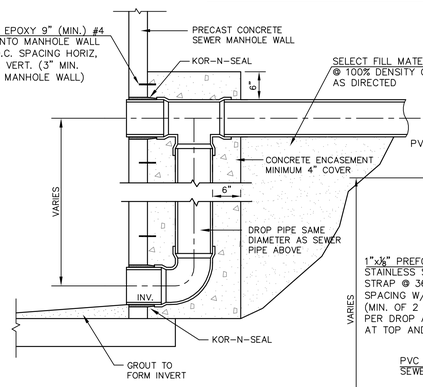


TYPICAL DROP MANHOLE ASSEMBLY

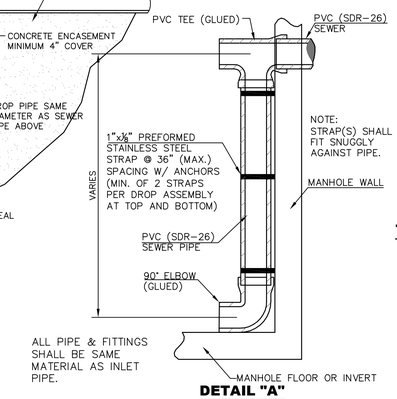
NOTE: ALL MANHOLES SHALL BE STANDARD PRECAST WITH EXTENDED BASES, UNLESS OTHERWISE DIRECTED. FLEXIBLE INLET AND OUTLET CONNECTION BOOTS REQUIRED ON ALL PIPES AND FORCE MAINS.

TABLE NO. 1 GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	ū ANGLE	MIN. BASE DIAMETER	"R"*
8"THRU 12"	0°TO 90°	4'	1'–6"
15"	0°TO 60°	5'	1'–10"
15"	60°TO 90°	5'	1'–10"
18"	0°TO 90°	5'	2'–3"
18"	60°TO 90°	5'	1'–10"
21"	0°TO 90°	5'	2'–7"
21"	60°TO 90°	5'	2'–4"
24"	0°TO 45°	6'	3'–0"
24"	45°TO 90°	6'	2'–3"
30"	0°TO 60°	6'	3'–9"
30"	60°TO 90°	6'	2'–8"
36"	0°TO 30°	7'	4'–6"
36" AND LARGER	0°TO 90°	CAST IN PLACE MANHOLE BASE OR PRE–BED PIPE M.H. BASE AND ELBOW UNITS.	

* SEE SECTIONAL PLAN, Std. PRECAST MANHOLE



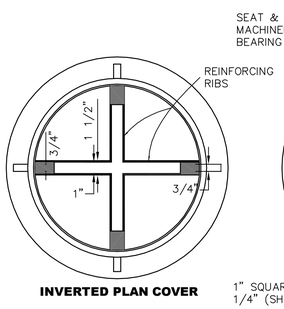
DETAIL "B"
SECTION C-C



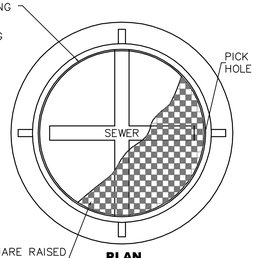
DETAIL "A"
SECTION C-C

TYPICAL DROP MANHOLE ASSEMBLY

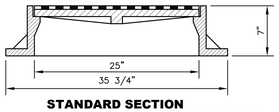
NOTES:
1. USE DETAIL "A" ONLY WHERE SINGLE DROP ASSEMBLY IS REQ'D. FOR MULTIPLE DROPS USE DETAIL "B" SHOWN ELSEWHERE ON THIS SHEET FOR 48" MANHOLE. FOR MULTIPLE DROP ASSEMBLIES IN LARGER MANHOLES, DROPS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
2. ALL HARDWARE SHALL BE STAINLESS STEEL.
3. ALL APPURTENANCES SHALL BE INCLUDED IN BID PRICE FOR DROP ASSEMBLIES.



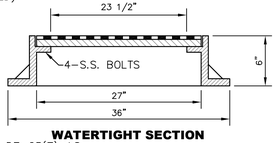
INVERTED PLAN COVER



PLAN



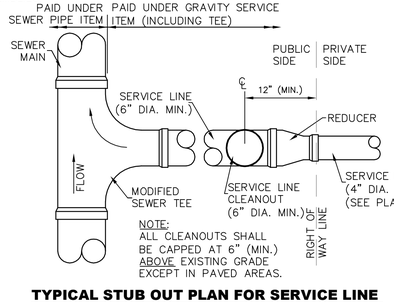
STANDARD SECTION



WATERTIGHT SECTION

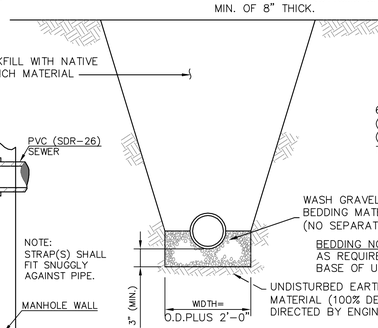
STANDARD COVER & FRAME DF–25(7) J.S. OR V–1115 (HOLES IN VULCAN COVERS SHALL BE SEALED BY WELDING) ONLY
WATERTIGHT COVER & FRAME V–2357 OR DF–25(7)W.T. ONLY

STANDARD MANHOLE COVERS



NOTE:
ALL CLEANOUTS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE EXCEPT IN PAVED AREAS.

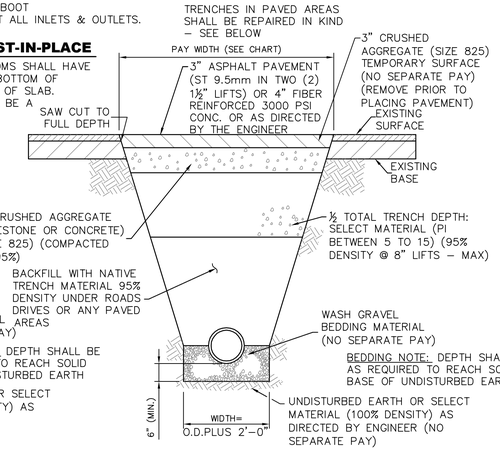
TYPICAL STUB OUT PLAN FOR SERVICE LINE



BEDDING NOTE: DEPTH SHALL BE AS REQUIRED TO REACH SOLID BASE OF UNDISTURBED EARTH

UNDISTURBED EARTH OR SELECT MATERIAL (100% DENSITY) AS DIRECTED BY ENGINEER

TYPICAL TRENCH DETAIL

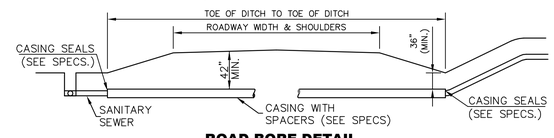


BEDDING NOTE: DEPTH SHALL BE AS REQUIRED TO REACH SOLID BASE OF UNDISTURBED EARTH

UNDISTURBED EARTH OR SELECT MATERIAL (100% DENSITY) AS DIRECTED BY ENGINEER (NO SEPARATE PAY)

TYPICAL TRENCH AT ROADWAY DETAIL

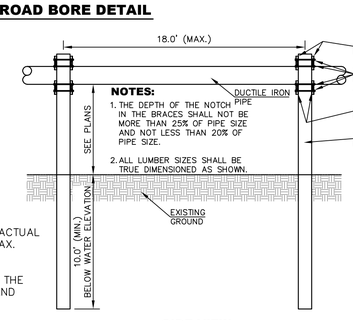
NOTE: ALL TESTING TO BE THE RESPONSIBILITY OF THE CONTRACTOR. (NO SEPARATE PAY)



ROAD BORE DETAIL

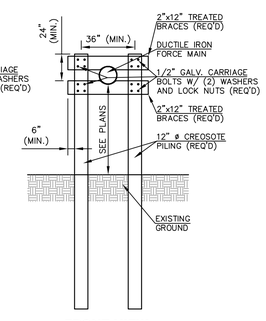
MAXIMUM PAVEMENT REPAIR PAY CHART	
SEWER MAIN DEPTH	MAXIMUM PAY PAY WIDTH
0'–6'	UP TO 6'
6.1'–8'	UP TO 8'
8.1'–10'	UP TO 10'
10.1'–12'	UP TO 12'
12.1'–14'	UP TO 14'
14.1' & UP	THE LESSER OF UP TO 20' OR EXISTING ROADWAY WIDTH (VERIFY PRIOR TO CUT)

NOTES:
1. PAVEMENT REPAIR PAYMENT SHALL BE MADE MEASURING ALONG THE SEWER LINE AND THE ACTUAL WIDTH OF DISTURBED PAVEMENT UP TO THE MAX. WIDTH NOTED ABOVE.
2. SEWER MAIN DEPTH SHALL BE DETERMINED BY THE CUT SHEETS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. FOR AREAS OF DEEP CUT (OVER 14' DEPTH), THE REPAIR AREA SHALL BE MEASURED BASED ON THE EXISTING WIDTH OF THE ROADWAY FOR SEWER LINES ALONG AND IN THE ROADWAY OR 20' MAX WIDTH FOR SEWER LINES CROSSING A ROADWAY.
4. FOR SEWER LINES INSTALLED ALONG THE EDGE OF EXISTING ROADWAY, REPAIRS WIDTHS SHALL BE HALF OF ALL MAX. WIDTHS NOTED ABOVE.



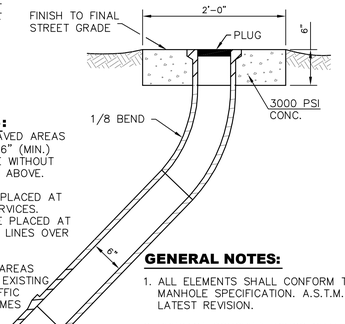
NOTES:
1. THE DEPTH OF THE NOTCH PIPE IN THE BRACES SHALL NOT BE MORE THAN 25% OF PIPE SIZE AND NOT LESS THAN 20% OF PIPE SIZE.
2. ALL LUMBER SIZES SHALL BE TRUE DIMENSIONED AS SHOWN.

SIDE VIEW



FRONT VIEW

TREATED WOOD PIPE PIERS

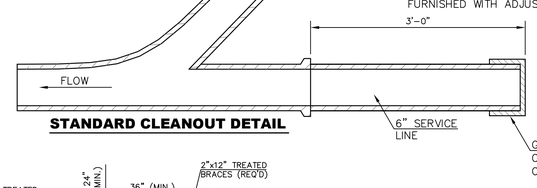


CLEANOUT NOTES:

1. CLEANOUTS IN NON–PAVED AREAS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE WITHOUT CONCRETE PAD SHOWN ABOVE.
2. CLEANOUTS SHALL BE PLACED AT 75 FT O.C. ON ALL SERVICES. CLEAN–OUTS SHALL BE PLACED AT ALL BENDS IN SERVICE LINES OVER 22.5'.
3. CLEANOUTS IN PAVED AREAS SHALL BE FLUSH WITH EXISTING GRADE AND HAVE TRAFFIC GRADE CAST IRON FRAMES AND COVERS.

GENERAL NOTES:

1. ALL ELEMENTS SHALL CONFORM TO PRECAST MANHOLE SPECIFICATION. A.S.T.M. C–478 LATEST REVISION.
2. PRECAST CONCRETE RINGS SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO GRADE USE (11" MAX. RISE).
3. MANHOLES IN PAVED AREAS SHALL BE FURNISHED WITH ADJUSTING RINGS.



STANDARD CLEANOUT DETAIL

NO.	DATE	DESCRIPTION	BY

SEWER INSTALLATION DETAILS

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
FORREST & LAMAR COUNTIES, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: BT	Checked by: KDW
Date: 01/03/2017	Scale: NONE
Drawing No.: 1273S005	Sheet No. 30

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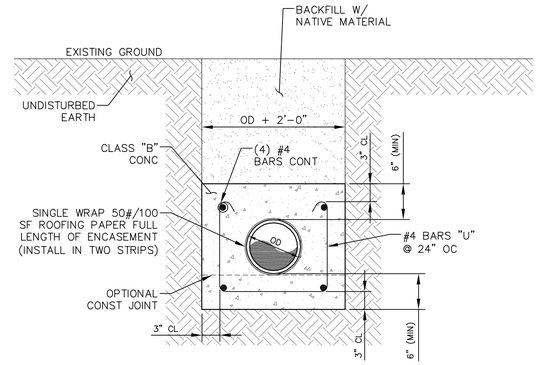
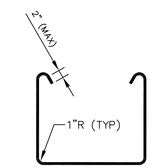
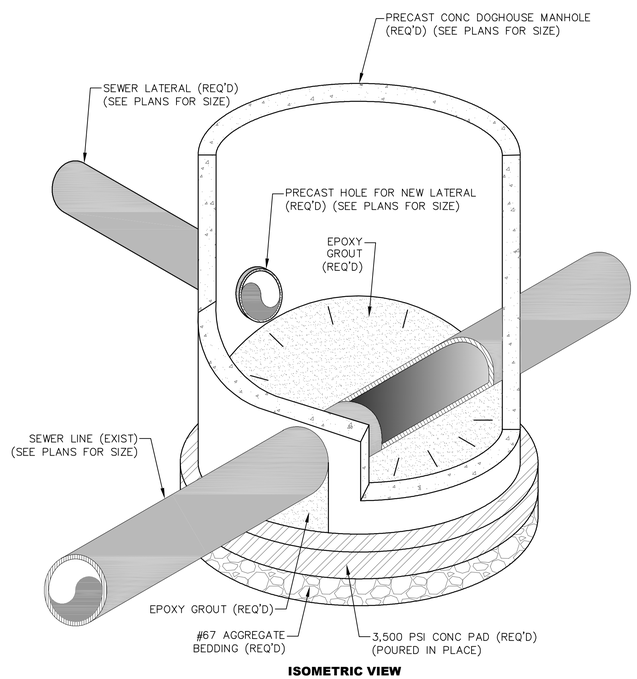


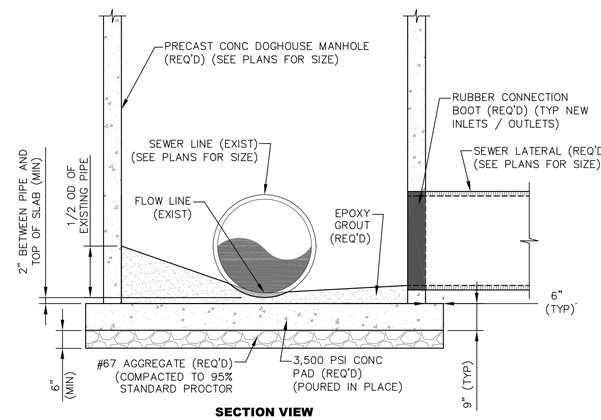
CONCRETE ENCASEMENT



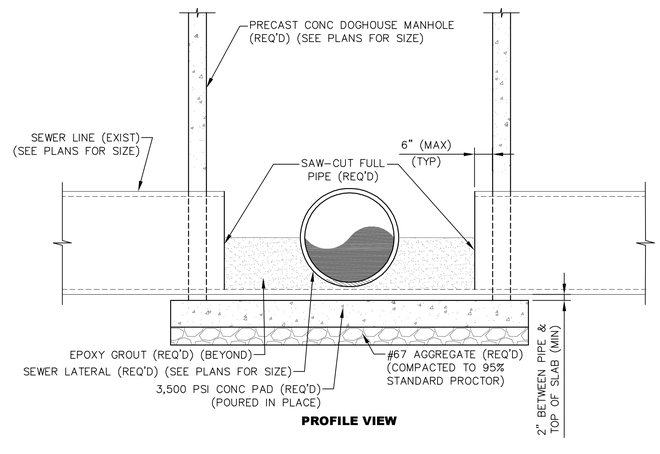
BAR "U" DETAIL



ISOMETRIC VIEW



SECTION VIEW



PROFILE VIEW

DOGHOUSE MANHOLE DETAIL

DOGHOUSE MANHOLE NOTES:

1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION
2. THIS DETAIL SHALL BE USED WHEN A LATERAL NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
3. CONCRETE MANHOLE PAD SHALL BE POURED IN PLACE AND SHALL BE POURED UPON A #67 AGGREGATE BEDDING.
4. AGGREGATE BEDDING SHALL HAVE A MINIMUM DEPTH OF 6" AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR PRIOR TO CONSTRUCTION OF CONCRETE PAD.
5. ALL PARTS OF THE DOGHOUSE MANHOLE CONSTRUCTION, CONCRETE PAD, AGGREGATE BASE, GROUT, ETC, SHALL BE PAID UNDER DOGHOUSE' MANHOLE ITEM.

NO.	DATE	DESCRIPTION	BY

DOGHOUSE MANHOLE DETAILS

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
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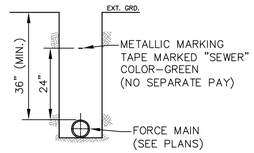
STATION NUMBER	GROUND ELEVATION	TOP ELEVATION	BOTTOM ELEVATION	INVERT ELEV. INLET PIPE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DISCHARGE PIPE SIZE	VALVE SIZE	PUMP HORSE POWER	NO. OF PUMPS	RPM	GPM	TDH
1	298.10	299.10	279.47	289.65 286.97	5'	19.63'	7.5'	2'	4"	4"	10	2	1750	80	66'



METALLIC MARKING TAPE PLACEMENT DETAIL
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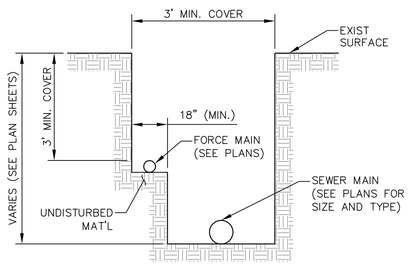

FORCE / GRAVITY MAIN TRENCH DETAIL
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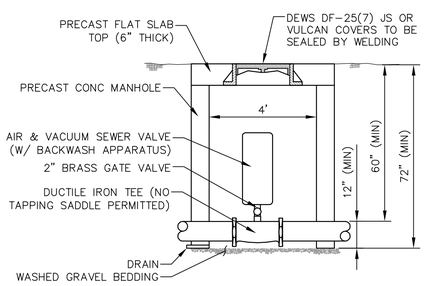
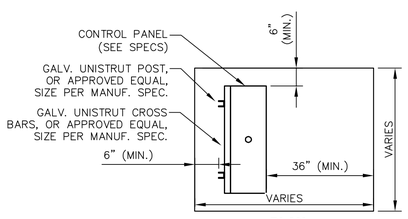
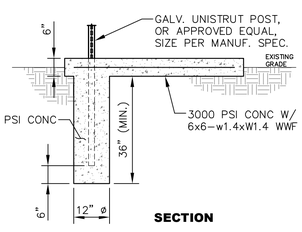


FORCE MAIN AIR AND VACUUM RELEASE SEWER VALVE DETAIL

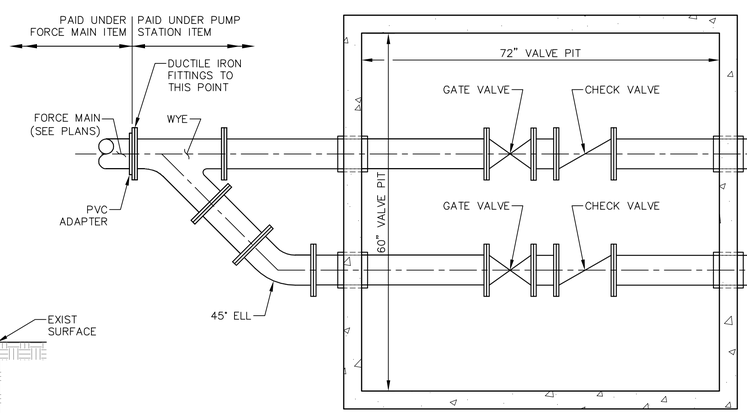


PLAN



SECTION

CONTROL PANEL MOUNTING DETAIL
(NO SEPARATE PAY)



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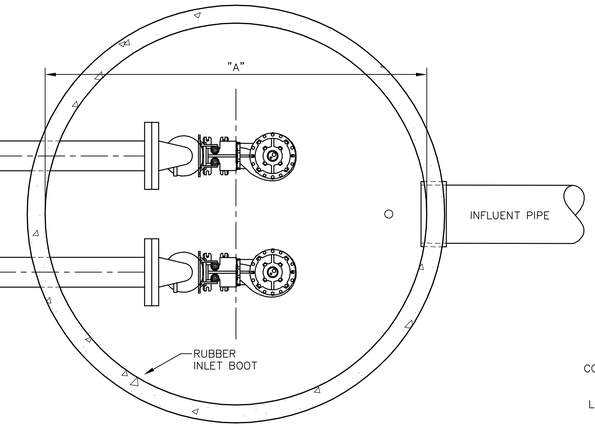

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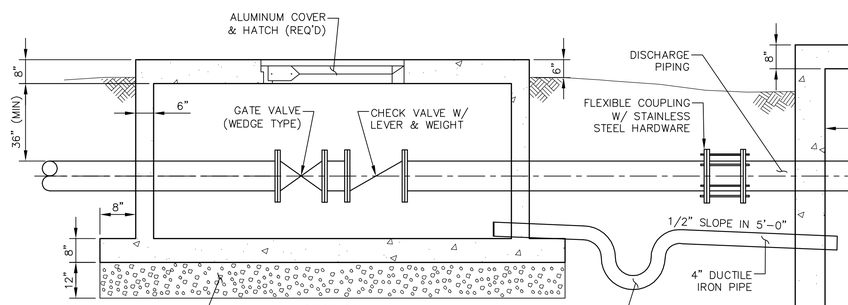
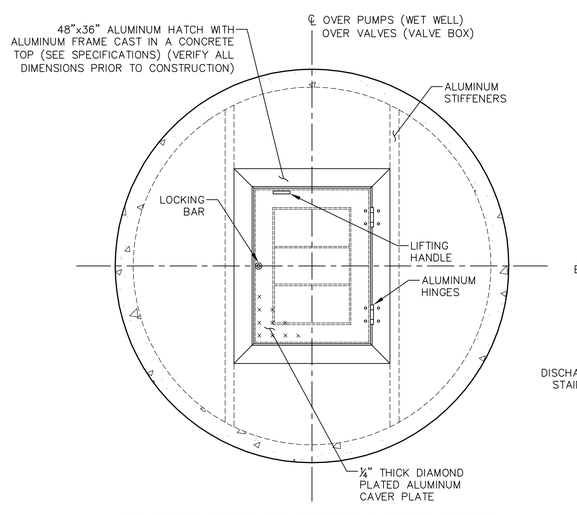
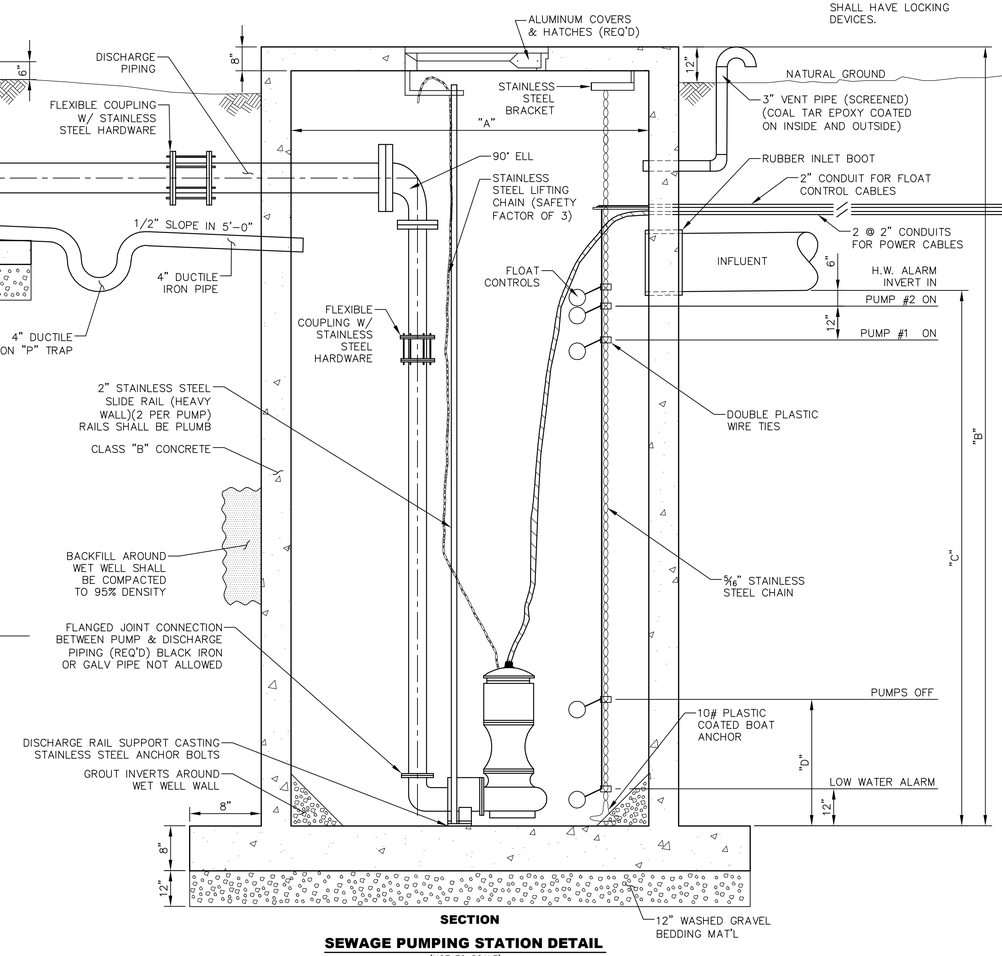


SECTION

VALVE PIT DETAIL
(NOT TO SCALE)

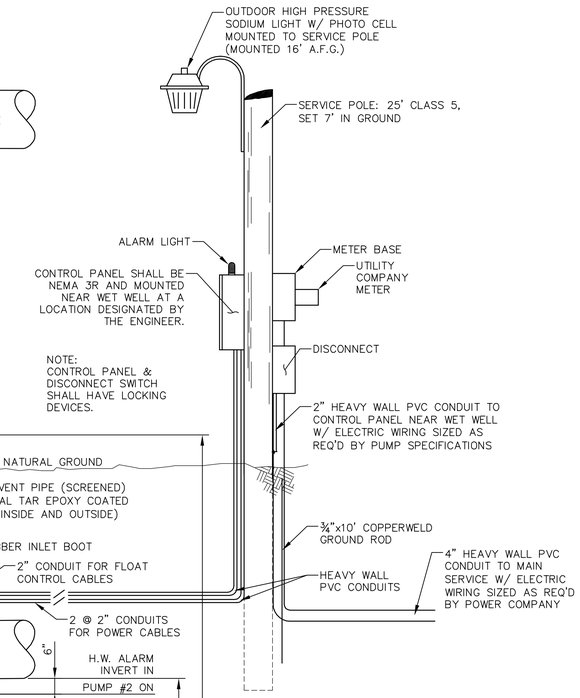


VALVE PIT REMOVABLE COVER & HATCH DETAIL
(NOT TO SCALE)



SECTION

SEWAGE PUMPING STATION DETAIL
(NOT TO SCALE)



PUMP STATION NOTES:

1. NO SPLICES IN POWER OR FLOAT CONTROL CABLES ALLOWED.
2. ALL BOLTS, NUTS, WASHERS, SPECIAL FITTINGS, ETC SHALL BE MADE OF STAINLESS STEEL.
3. DUCTILE IRON PIPING AND FITTINGS SHALL BE BITUMINOUS COATED OUTSIDE AND COATED INSIDE WITH 16 MIL COAL TAR EPOXY.
4. ALL HOLES IN WET WELL AROUND DISCHARGE PIPES, VENT, ETC SHALL BE FILLED WITH EPOXY MORTAR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 3–PHASE ELECTRICAL SERVICE TO THE LIFT STATION AND ANY FEES ASSOCIATED WITH SAID SERVICE.
6. ALL ABOVE GROUND ELECTRICAL CONDUITS SHALL BE FASTENED SECURELY WITH SUNLIGHT RESTRAINTS.
7. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF PUMPS WITH THE PUMP SUPPLIER PRIOR TO CASTING HATCH FRAME IN WET WELL TOP.

NO.	DATE	DESCRIPTION	BY

LIFT STATION DETAILS

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
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VEGETATION SCHEDULE

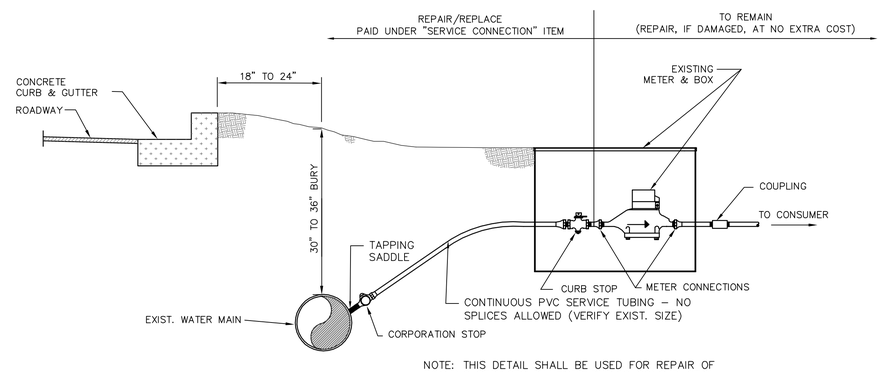
	EROSION CONTROL ITEMS	SEASONAL APPLICATIONS - DATES & RATES				REQUIREMENTS
		SPRING & SUMMER		FALL & WINTER		
	ITEMS	RATES	DATES	RATES	DATES	
7	TOPSOIL FOR SLOPE TREATMENT (LVM)	4" THICK	MARCH 1 TO SEPTEMBER 1	4" THICK	SEPTEMBER 1 TO MARCH 1	TOPSOIL REQUIRED ON SLOPES DETERMINED BY THE ENGINEER DURING CONSTRUCTION
	STANDARD GROUND PREPARATION	PER SQ. FT.	MARCH 1 TO SEPTEMBER 1	PER SQ. FT.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE
	AGRICULTURAL LIMESTONE	3 TONS / ACRE	MARCH 1 TO SEPTEMBER 1	3 TONS / ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING
	COMBINATION FERTILIZER (13–13–13)	1000 LBS / ACRE	MARCH 1 TO SEPTEMBER 1	1000 LBS / ACRE	SEPTEMBER 1 TO MARCH 1	FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING
1	SUPER PHOSPHATE	0.5 TON / ACRE (EST)	MARCH 1 TO SEPTEMBER 1			SUPER PHOSPHATE (FOR BID ITEM PURPOSES)
2	SEEDING (BERMUDA GRASS)	20 LBS / ACRE	MARCH 1 TO SEPTEMBER 1	20 LBS / ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED
3 5	SEEDING (TALL FESCUE)			15 LBS / ACRE	AUGUST 15 TO MARCH 15	SEED REQUIRED IN DISTURBED AREAS
3 5	SEEDING (CRIMSON CLOVER)			20 LBS / ACRE	AUGUST 15 TO MARCH 15	SEED REQUIRED ON DISTURBED AREA
6	VEGETATIVE MATERIAL FOR MULCH	2 TONS / ACRE (EST)	MARCH 1 TO SEPTEMBER 1	2 TONS / ACRE (EST)	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICABLE (SEE SUBSECTION 215–03.3)
	SOLID SODDING	PER SQ. YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR BY THE ENGINEER
	WATERING	20 GAL / S.Y. (EST)	MARCH 1 TO SEPTEMBER 1	20 GAL. / S.Y. (EST)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING OF SOLID SOD
4	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220
	TEMPORARY EROSION CONTROL ITEMS					
	LIGHT GROUND PREPARATION	PER SQ. YD.		PER SQ. YD.		APPROXIMATELY HALF SQ.YD. STANDARD GROUND PREPARATION
	COMBINATION FERTILIZER (13–13–13)	0.25 TONS/ ACRE		0.25 TONS/ ACRE		QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (BROWN TOP MILLET)	20 LBS / ACRE	APRIL 1 TO AUGUST 31			QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (RYE GRASS)			25 LBS / ACRE	SEPTEMBER 1 TO MARCH 31	QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (OATS)			90 LBS / ACRE	SEPTEMBER 1 TO DECEMBER 15	QUANTITY BASED ON LIGHT GROUND PREPARATION
	VEGETATIVE MATERIAL FOR MULCH	1 TON / ACRE (EST)		1 TON / ACRE (EST)		QUANTITY BASED ON LIGHT GROUND PREPARATION

1. ALL AREAS THAT HAVE BEEN VEGETATED, UNDER THIS CONTRACT, FOR AT LEAST (60) SIXTY DAYS, SHALL RECEIVE ADDITIONAL APPLICATION(S) OF FERTILIZER(S) OF THE TYPE(S) AND RATE(S) OF APPLICATIONS AS DETERMINED BY SOIL TEST OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS.
2. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 100% OF THE ACREAGE WILL BE SEEDED.
3. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.
4. QUANTITY ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE VEGETATED MAY REQUIRED TREATMENT.
5. THIS ITEM MAY BE OMITTED ON AREAS SELECTED BY THE ENGINEER.
6. BAHIAGRASS WILL NOT BE PERMITTED AS A MULCH MATERIAL.
7. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 75% OF THE ACREAGE SEEDED MAY REQUIRE TOPSOIL

TEMPORARY EROSION CONTROL ITEMS REQUIRED FOR DETOURS

ITEM	RATE	SEASONAL LIMITATIONS
STANDARD GROUND PREPARATION	---	---
COMBINATION FERTILIZER (13–13–13)	500 LBS/ACRE	---
SEEDING (BERMUDA GRASS)	10 LBS/ACRE	---
SEEDING (TALL FESCUE)	20 LBS/ACRE	AUGUST 15 TO MARCH 15
VEGETATIVE MATERIAL FOR MULCH	2 LBS/ACRE	---

NOTE: ALL VEGETATION ON THIS PROJECT SHALL BE PAID FOR UNDER AS OUTLINED IN THE BID PROPOSAL. ITEMS SHALL BE APPLIED USING THE RATES OF APPLICATION AS SHOWN ON THIS SHEET AND WILL NOT BE MEASURED FOR SEPARATE PAYMENT.



NOTE: THIS DETAIL SHALL BE USED FOR REPAIR OF EXISTING SERVICES DAMAGED DURING CONSTRUCTION.

TYPICAL WATER SERVICE REPAIR DETAIL

NO.	DATE	DESCRIPTION	BY

VEGETATION SCHEDULE & WATER SERVICE DETAIL

COMPREHENSIVE SEWER IMPROVEMENTS – PHASE V
CITY OF HATTIESBURG
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STANDARD INSTALLATION DETAIL

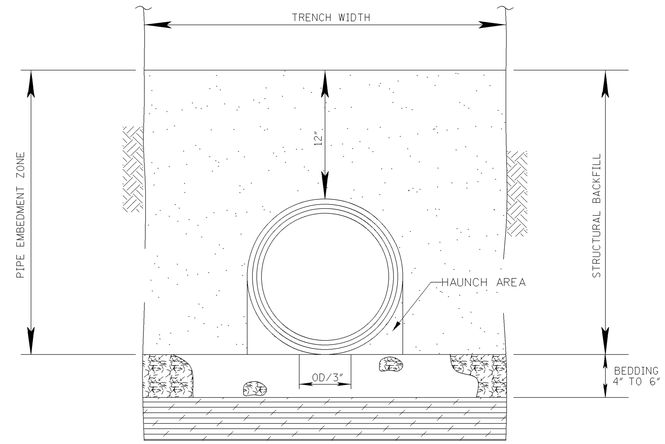
TABLE 1:

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN CROSS-DRAIN AND STORM-DRAIN APPLICATIONS

A. Bedding shall be Class B in accordance with Subsection 603.03.2 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition.
B. Backfill material shall be one of the following:
1. Flowable Fill in accordance with Section 631 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition.
2. Crushed Stone Aggregate Backfill in accordance with Subsection 703.04.03 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition.
If Backfill material 1 is utilized, care shall be taken to prevent "floating" of pipe.
The cost of furnishing and placing the required bedding and backfill material indicated in A & B shall be included in the unit cost of the non-rigid pipe alternate, i e , there will be no separate pay item for non-rigid pipe bedding and backfill material.

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN SIDEDRAIN APPLICATIONS

A. Bedding shall be Class C in accordance with Subsection 603.03.2 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition.
B. Backfill material shall be in accordance with Subsection 203.03.8.6 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition. Pipes that serve as a side-drain on Departmental ROW, but travel under a county or local road shall adhere to the bedding and backfill requirements for a cross-drain contained above.
The cost of furnishing and placing the required bedding and backfill material indicated in A & B shall be included in the unit cost of the non-rigid pipe alternate, i.e. there will be no separate pay item for non-rigid pipe bedding and backfill material.



TRENCH CROSS SECTION SHOWING TERMINOLOGY

TABLE 2:
HIGH DENSITY CORRUGATED POLYETHYLENE PIPE
HEIGHT OF COVER
H-20 AND E-80 LIVE LOADS

NOMINAL DIAMETER IN. (MM)	MINIMUM COVER IN. & (MM) H-20	MINIMUM COVER IN. & (MM) E-80	MAXIMUM COVER FT. & (M)
12 (300)	12 (300)	24 (600)	50 (15.24)
15 (375)	12 (300)	24 (600)	50 (15.24)
18 (450)	12 (300)	24 (600)	45 (13.72)
24 (600)	12 (300)	24 (600)	40 (12.19)
30 (750)	12 (300)	24 (600)	40 (12.19)
36 (900)	12 (300)	24 (600)	35 (10.67)
42 (1050)	12 (300)	24 (600)	35 (10.67)
48 (1200)	12 (300)	24 (600)	30 (9.14)

TABLE 3: RECOMMENDED TRENCH WIDTH

DIAMETER	O.D.	TRENCH WIDTH
12"	14.45"	34"
15"	17.57"	38"
18"	21.20"	44"
24"	27.80"	54"
30"	35.10"	65"
36"	41.70"	75"
42"	47.70"	84"
48"	53.60"	92"

The trench width must be wide enough to accomodate compaction equipment.

TABLE 4: MULTIPLE INSTALLATION OF POLYETHYLENE PIPES

DIAMETER OF PIPE IN. (MM)	CLEAR DISTANCES BETWEEN PIPES FT. (M)
18 (450)	1' 2" (0.36)
24 (600)	1' 5" (0.44)
30 (750)	1' 8" (0.52)
36 (900)	1' 11" (0.60)
42 (1050)	2' 2" (0.68)
48 (1200)	2' 5" (0.76)

NOTES:
1. MATERIALS
THERMOPLASTIC PIPE
POLYETHYLENE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 294, LATEST EDITION.
DESIGNATION OF TYPE: TYPE S: THIS PIPE WILL HAVE A FULL CIRCULAR CROSS SECTION, WITH AN OUTER CORRUGATED PIPE WALL AND A SMOOTH INNER LINER.

BEDDING MATERIAL AND STRUCTURAL BACKFILL
BEDDING AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF TABLE 1.

2. JOINTS
JOINTS FOR THERMOPLASTIC PIPE SHALL MEET THE PERFORMANCE REQUIREMENTS OF SOILTIGHTNESS UNLESS WATERTIGHTNESS IS SPECIFIED.
SUITABLE JOINTS CAN BE OBTAINED WITH THE FOLLOWING TYPES OF CONNECTIONS:
A) CORRUGATED BANDS (WITH OR WITHOUT GASKETS)
B) BELL AND SPIGOT PIPE ENDS (WITH OR WITHOUT GASKETS)
C) DOUBLE BELL COUPLINGS (WITH OR WITHOUT GASKETS)

3. INSTALLATION
MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE 3.
THE MIDDLE THIRD OF THE BEDDING MATERIAL UNDER THE PIPE SHOULD BE LOOSELY PLACED, WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DENSITY PER AASHTO T 99.
A MINIMUM OF 4 INCHES OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE.
STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING AN 8 INCH LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN 12 INCHES ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 90% STANDARD DENSITY PER AASHTO T 99 SHALL BE ACHIEVED.
MINIMUM COVER REQUIREMENTS SHALL MEET THE REQUIREMENTS OF TABLE 2.
FOR MULTIPLE INSTALLATION OF POLYETHYLENE PIPES, A CLEAR DISTANCE BETWEEN PIPES SHALL MEET THE REQUIREMENTS OF TABLE 4.

4. CALCULATIONS FOR FILL DEPTHS ARE BASED ON PROPERTIES DEFINED IN AASHTO M294 AND CALCULATIONS IN AASHTO SEC. 18.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

FLEXIBLE PIPE STANDARD

WORKING NUMBER HDPE-1

SHEET NUMBER 33

FILENAME:

DESIGN TEAM CHECKED DATE

DRAWING No.: 1273-S005

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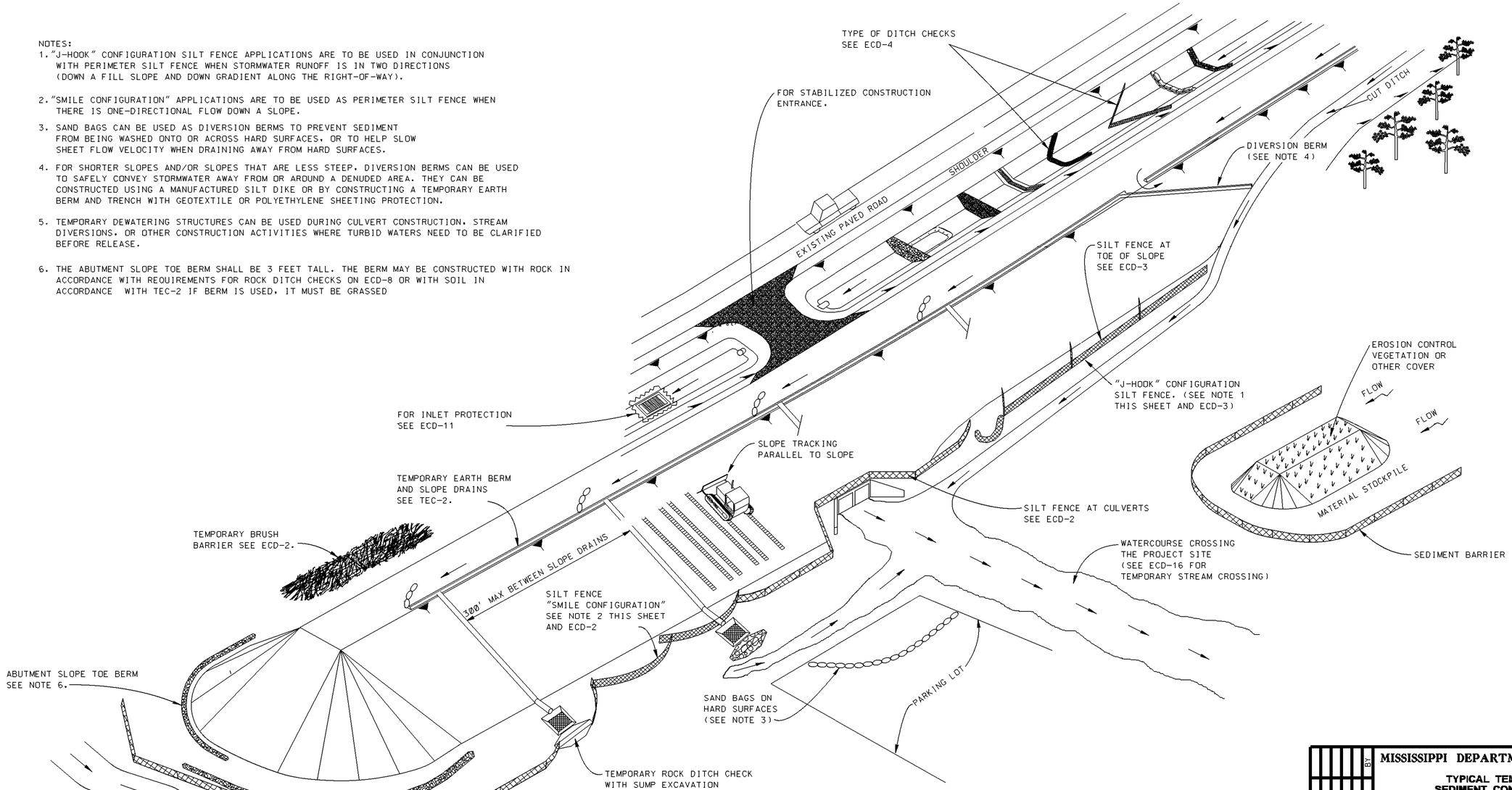
NOTES:

1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES, OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING A MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FEET TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON ECD-8 OR WITH SOIL IN ACCORDANCE WITH TEC-2 IF BERM IS USED, IT MUST BE GRASSED



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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL TEMPORARY EROSION/ SEDIMENT CONTROL APPLICATIONS

FILENAME: EROSION CONTROL\ECD-1.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER
ECD-1

SHEET NUMBER
35

DRAWING No.: 1273-S005

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/19/2010 12:18PM ECD-1.DGN

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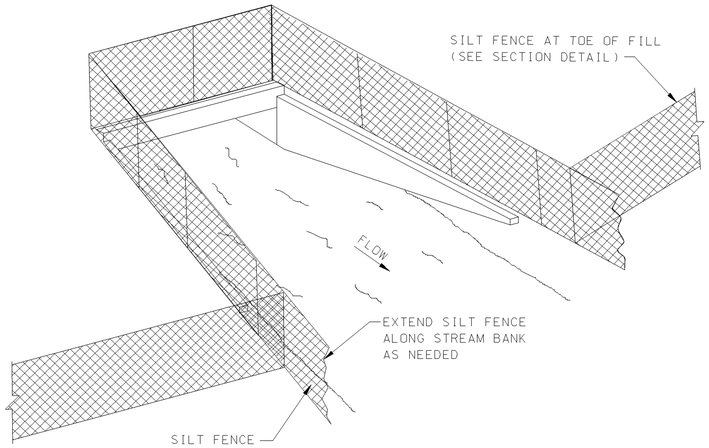
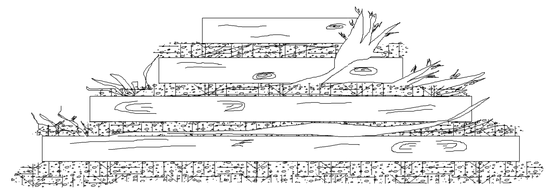
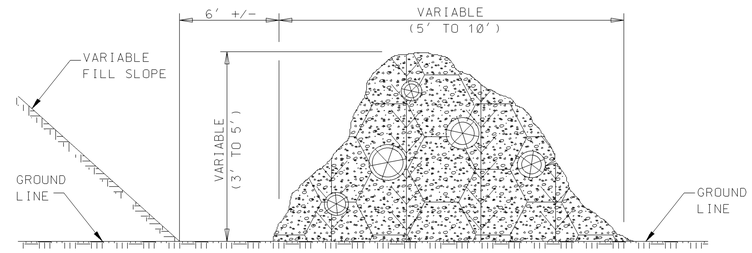
STATE	PROJECT NO.
MISS.	



SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION

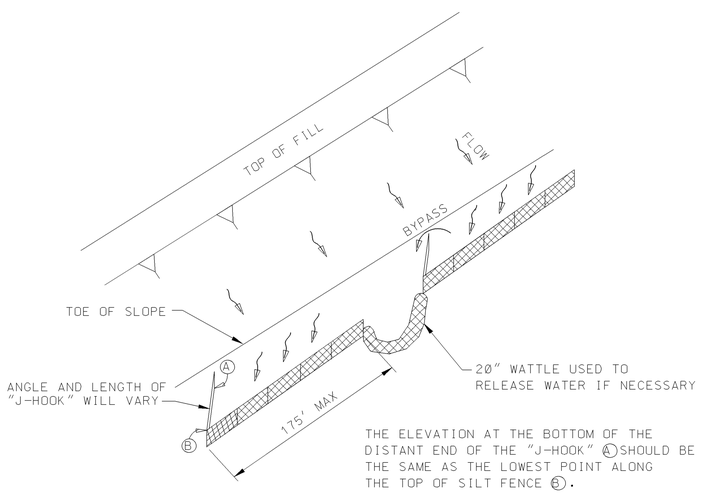


SIDE ELEVATION

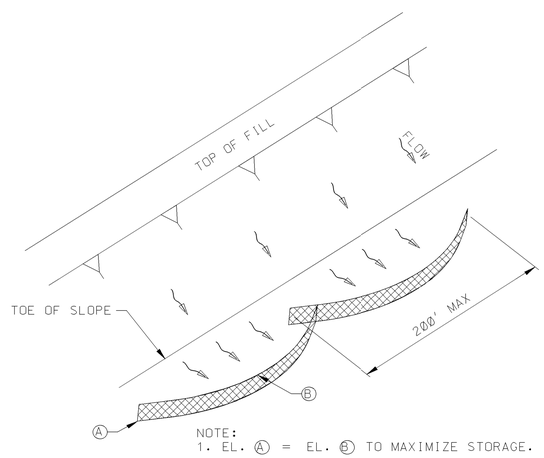
TEMPORARY BRUSH BARRIER

NOTES:
1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC.
5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPERATE PAYMENT

NOTE:
1. ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON ECD-3

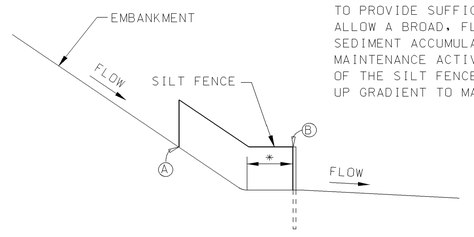


"J-HOOK" SILT FENCE APPLICATION



NOTE:
1. EL. (A) = EL. (B) TO MAXIMIZE STORAGE.

"SMILE-CONFIGURATION" SILT FENCE APPLICATION



* SILT FENCE SHOULD BE LOCATED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD, FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.

SILT FENCE SECTION AT TOE OF FILL

REVISION	BY
DATE	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF SEDIMENT BARRIER APPLICATIONS

WORKING NUMBER: ECD-2

SHEET NUMBER: 36

FILENAME: EROSION CONTROL\ECD-2.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

DRAWING No.: 1273-S005

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/28/2018 8:54 AM ECD-2.DGN

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STATE	PROJECT NO.
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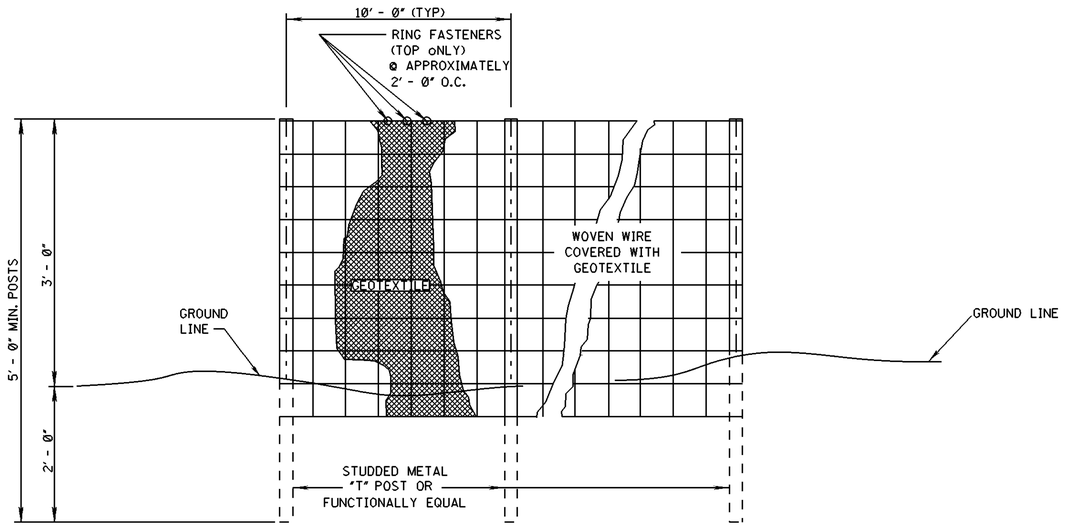
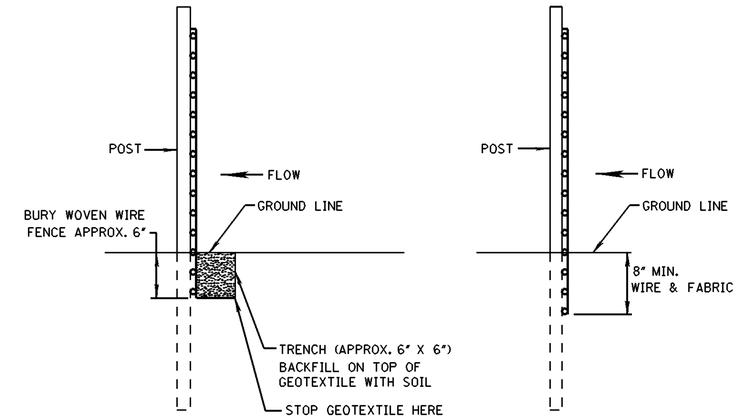


ELEVATION VIEW

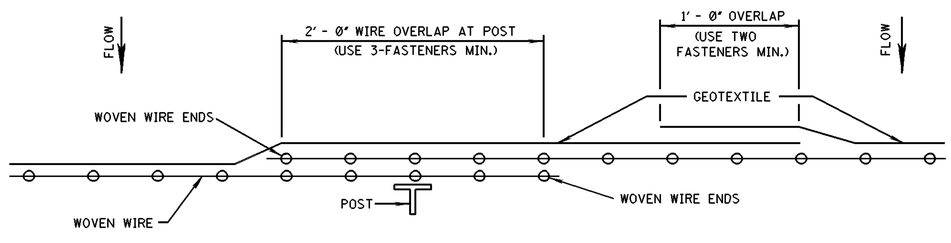


METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

NOTES:
1. SILT FENCES SHALL BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHEREVER POSSIBLE SILT FENCE SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTUREED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
7. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE,



PLAN VIEW

REQUIRED LAPPING

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF SILT FENCE INSTALLATION

REVISION	BY	DATE

FILENAME: EROSION CONTROL\ECD-3.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER ECD-3

SHEET NUMBER 37

DRAWING No.: 1273-S005

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
1/20/2010 8:09 AM ECD-3.DGN
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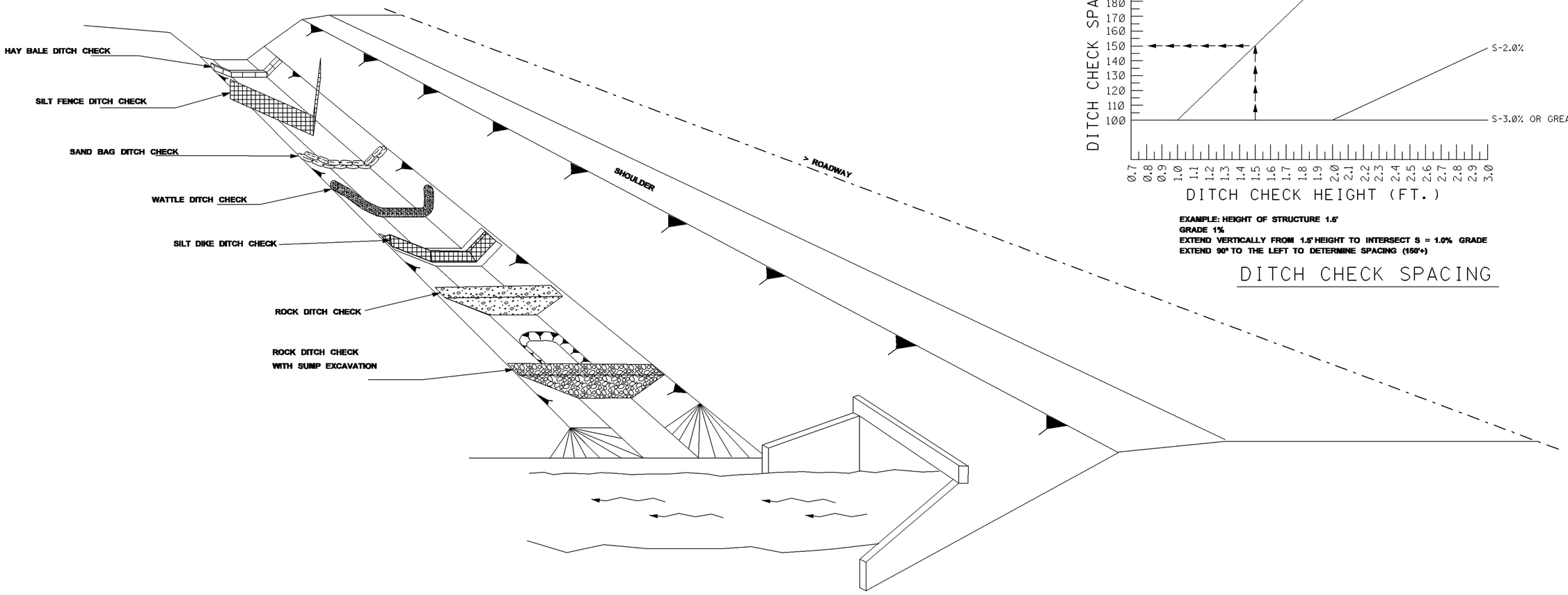
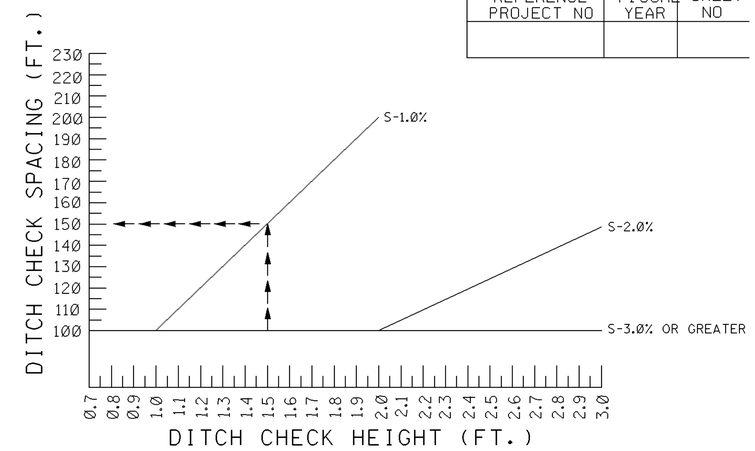
STATE	PROJECT NO.
MISS.	

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO





EXAMPLE: HEIGHT OF STRUCTURE 1.5'
GRADE 1%
EXTEND VERTICALLY FROM 1.5' HEIGHT TO INTERSECT S = 1.0% GRADE
EXTEND 90° TO THE LEFT TO DETERMINE SPACING (150'+)

DITCH CHECK SPACING

NOTES:

1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES 1/3 THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN 1/2 THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.
7. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED. AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHALL NOT EXCEED 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. IN GENERAL, DITCH CHECKS SHOULD NOT BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY the ENGINEER TO ACCOMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS

WORKING NUMBER
ECD-4

FILENAME: EROSION CONTROL\ECD-4.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

SHEET NUMBER
38

DRAWING No.: 1273-S005

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/20/2010 8:10 AM ECD-4.DGN

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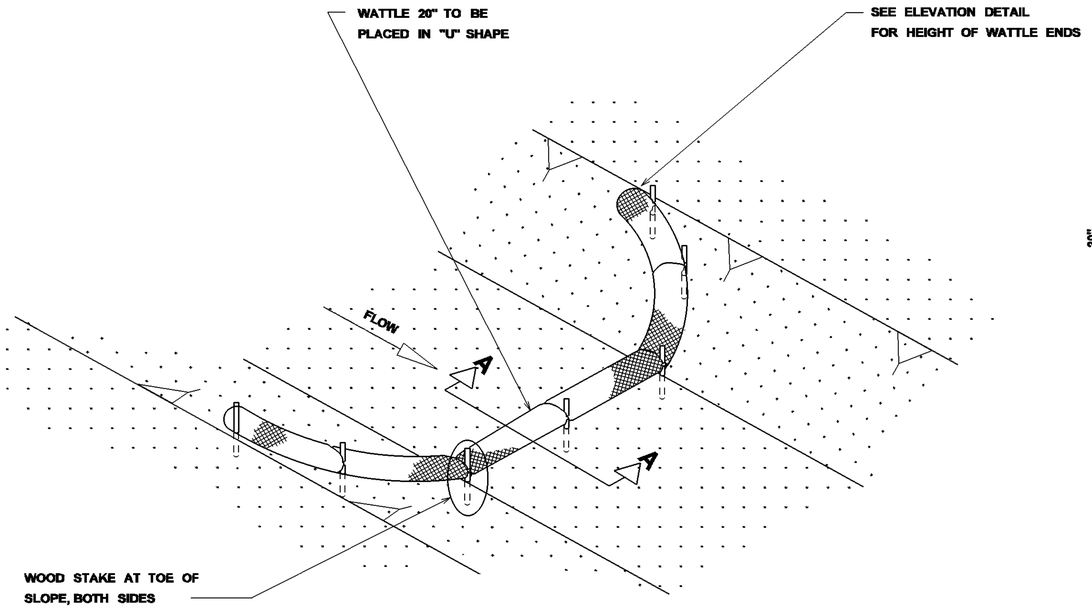
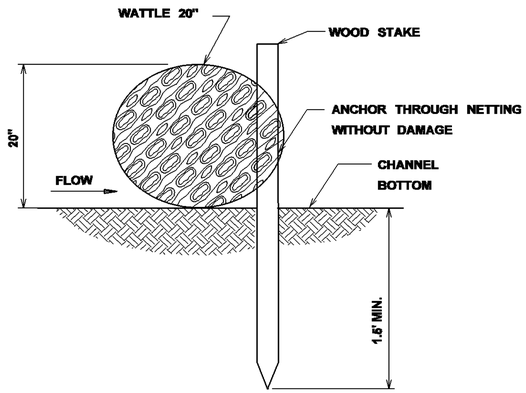
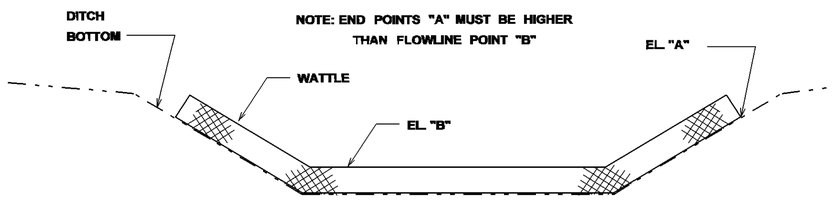


DETAIL (DITCH CHECK)



SECTION A-A



ELEVATION DETAIL

NOTES:

1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF EROSION CONTROL
WATTLE DITCH CHECK

WORKING NUMBER ECD-6

FILENAME: EROSION CONTROL\ECD-6.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

SHEET NUMBER 39

DRAWING No.: 1273-S005

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
1/19/2018 1:21 PM ECD-6.DGN
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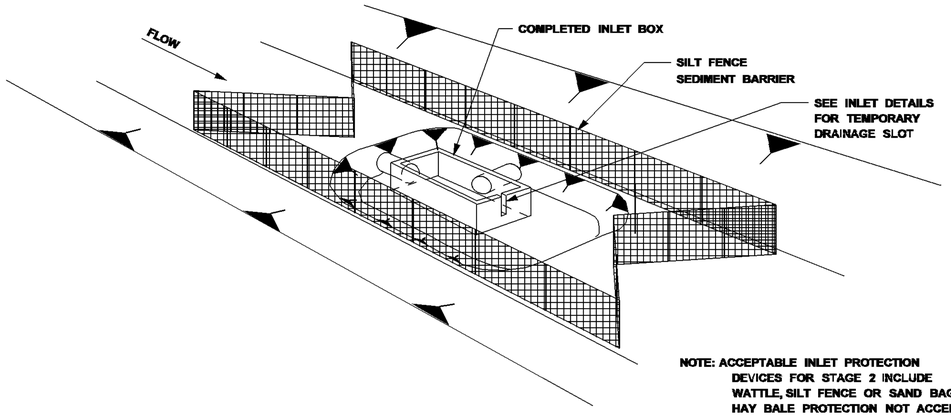
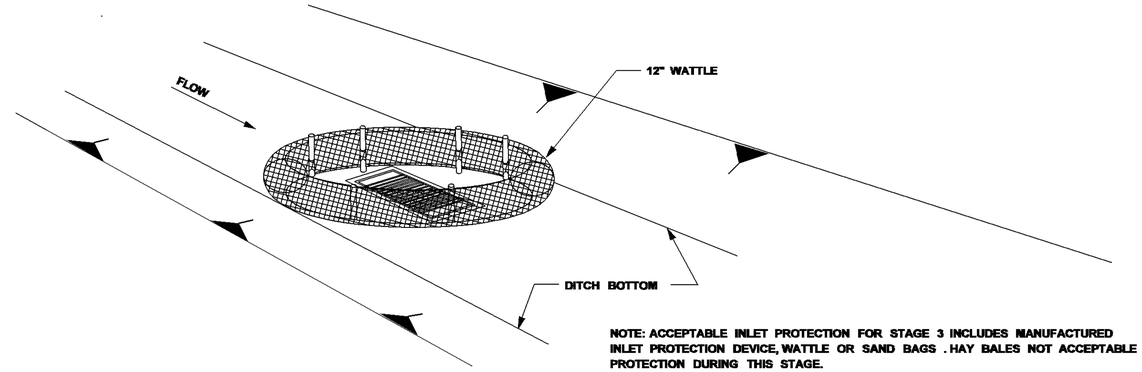


NOTE: ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE WATTLE, SILT FENCE OR SAND BAGS. HAY BALE PROTECTION NOT ACCEPTABLE DURING THIS PHASE.

STAGE 2

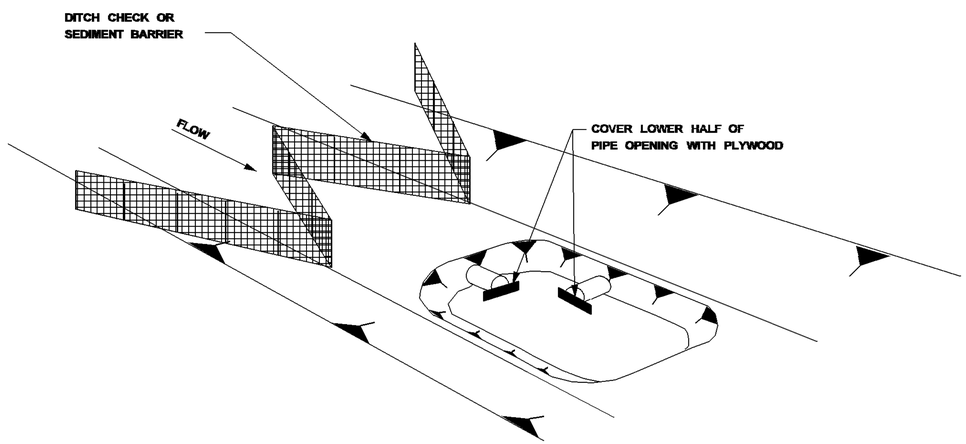
INLET/JUNCTION BOX CONSTRUCTED BUT NOT BACKFILLED



NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, WATTLE OR SAND BAGS . HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE.

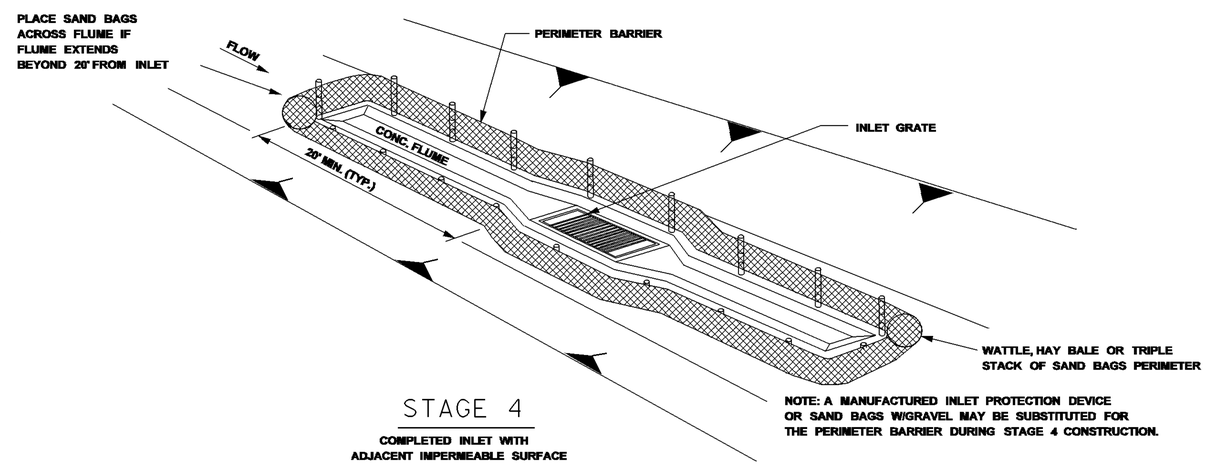
STAGE 3

INLET CONSTRUCTED AND BACKFILLED



STAGE 1

INLET/JUNCTION BOX LOCATION EXCAVATED



NOTE: A MANUFACTURED INLET PROTECTION DEVICE OR SAND BAGS W/GRAVEL MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION.

STAGE 4

COMPLETED INLET WITH ADJACENT IMPERMEABLE SURFACE

DITCH INLET CONSTRUCTION STAGES

NOTES:

1. FOUNDATION BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
3. DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

INLET PROTECTION
TYPICAL APPLICATIONS AND DETAILS

WORKING NUMBER ECD-10

SHEET NUMBER 40

FILENAME: EROSION CONTROL\ECD-10.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

DRAWING No.: 1273-S005

1/19/2010 12:24PM ECD-10.DGN
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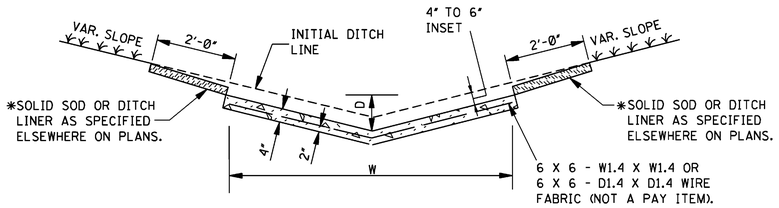
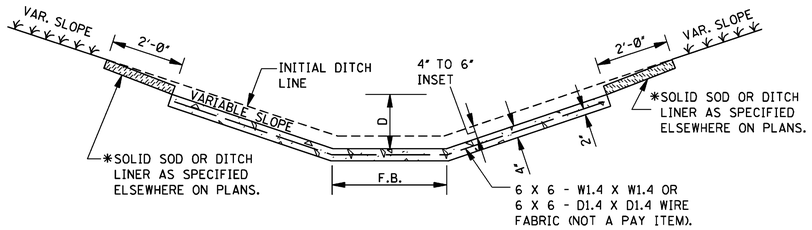
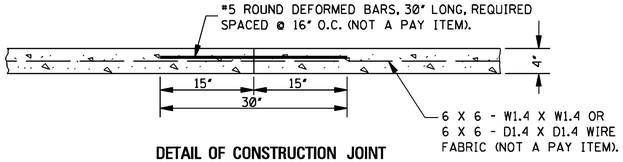


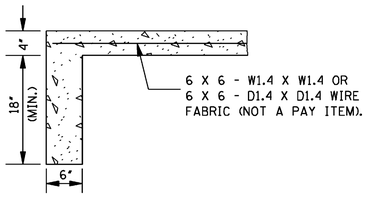
"V" TYPE SECTION



FLAT BOTTOM SECTION



DETAIL OF CONSTRUCTION JOINT



DETAIL OF TOE WALL

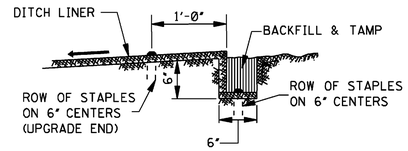
NOTE: TOE WALL REQUIRED UPSTREAM AND DOWNSTREAM.

CONCRETE PAVED DITCH

NOTES:

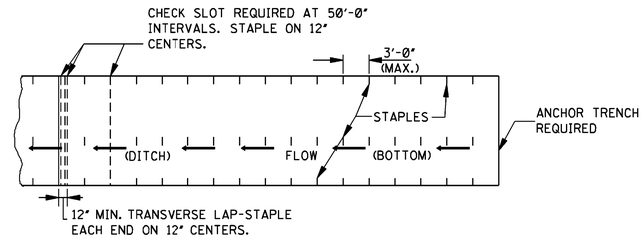
1. CONCRETE PAVED DITCHES SHALL BE GROOVED AT 20'-0" INTERVALS. THE GROOVES SHALL BE CUT TO A DEPTH OF NOT LESS THAN 1".
2. DIMENSIONS D & W ARE AS FOLLOWS:
   D(MINIMUM) = 6"
   D(NOMINAL) = 9"
   W(MINIMUM) = 24"
3. CHAIR SUPPORTS FOR THE WIRE MESH WILL NOT BE REQUIRED. HOWEVER, THE CONTRACTOR SHALL PLACE THE WIRE MESH IN A SATISFACTORY AND WORKMANLIKE MANNER TO ENSURE THAT THE FINAL POSITION IS REASONABLY NEAR THE POSITION INDICATED.

*4. CENTER ROW OF STAPLES MAY BE OMITTED ON DITCH LINER.

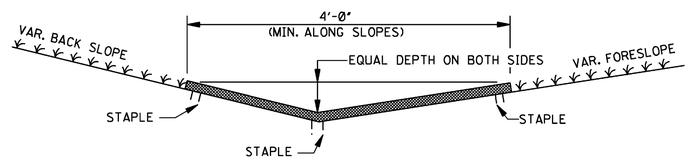


ANCHOR TRENCH DETAIL

NOTE: ANCHOR TRENCH REQUIRED AT THE BEGINNING AND ENDING OF EACH AREA TO BE COVERED, EXCEPT DOWNSTREAM END ADJOINING A STRUCTURE.



PLAN

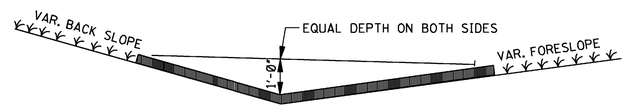


SECTION

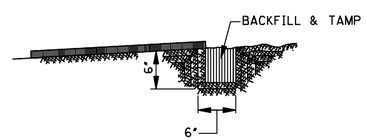
DITCH LINER TREATMENT

(EXCELSIOR BLANKET, JUTE MESH OR EROSION CONTROL FABRIC)

NOTE: DITCHES TREATED WITH DITCH LINER WILL BE VEGETATED PRIOR TO TREATMENT, UNLESS OTHERWISE INDICATED.



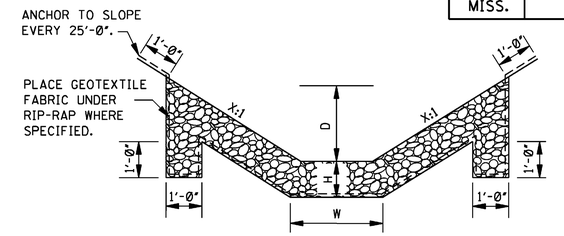
SECTION



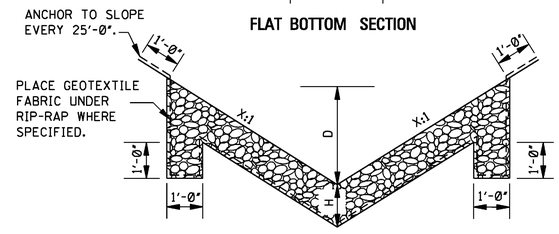
SLOT DETAIL

BITUMINOUS TREATED ROVING

NOTE: UPGRADE AND DOWNGRADE ENDS OF THE BITUMINOUS TREATED ROVING SHALL BE BURIED IN A 6" MINIMUM VERTICAL SLOT AND THE SOIL TAMPED FIRMLY AGAINST IT.



FLAT BOTTOM SECTION



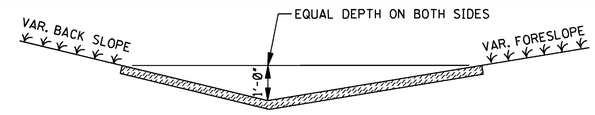
"V" TYPE SECTION

RIP-RAP TREATMENT

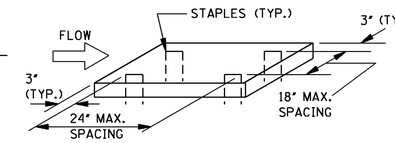
NOTES:

1. DIMENSIONS D, W AND X ARE VARIABLE AND ARE SHOWN ELSEWHERE ON THE PLANS.
2. THE RIP-RAP SIZE AND MINIMUM DEPTH "H" FOR RIP-RAP TREATMENT ARE AS FOLLOWS.

RIP-RAP SIZE & MINIMUM DEPTH "H"	
H (In)	RIP-RAP SIZE (lbs)
12"	100
18"	300



SOLID SOD TREATMENT



NOTE: SOLID SOD (STRIPS OR BLOCKS) ARE TO BE STAPLED, PINNED, PEGGED OR STAKED AT THE FOUR CORNERS OR AT THE MAXIMUM SPECIFIED SPACING.

GENERAL NOTE:

1. FOR LOCATION OF APPROPRIATE DITCH TREATMENTS, SEE PLAN SHEETS AS DENOTED BY THE FOLLOWING LEGEND OR AS DIRECTED BY THE ENGINEER:

- DITCH LINER
- BITUMINOUS TREATED ROVING
- SOLID SOD
- CONCRETE PAVED DITCH
- RIP-RAP

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF TYPICAL DITCH TREATMENTS

ENGLISH

WORKING NUMBER DT-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6145

DRAWING No.: 1273-S005

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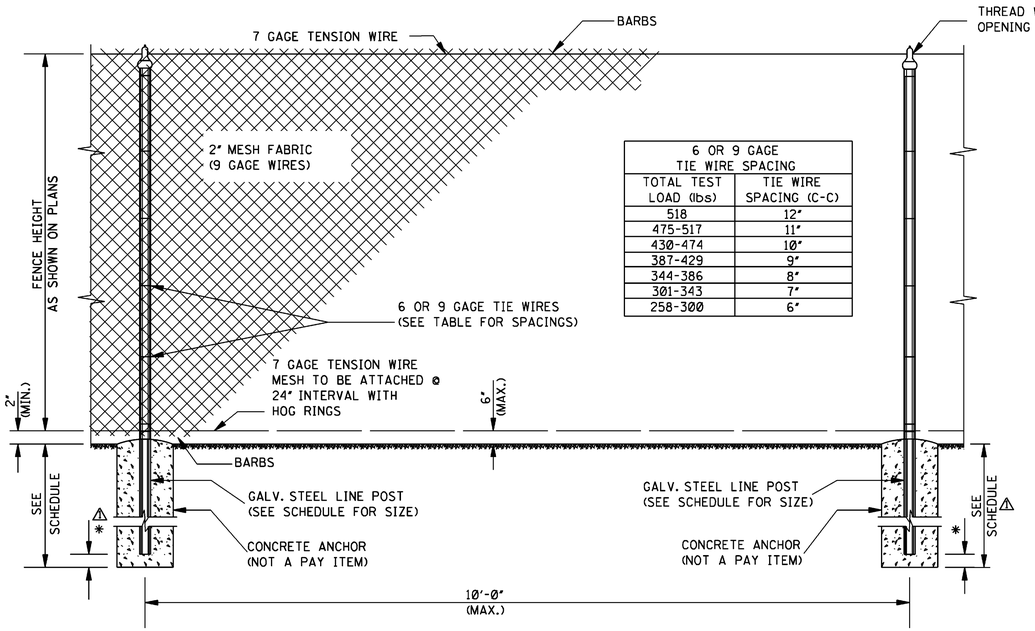
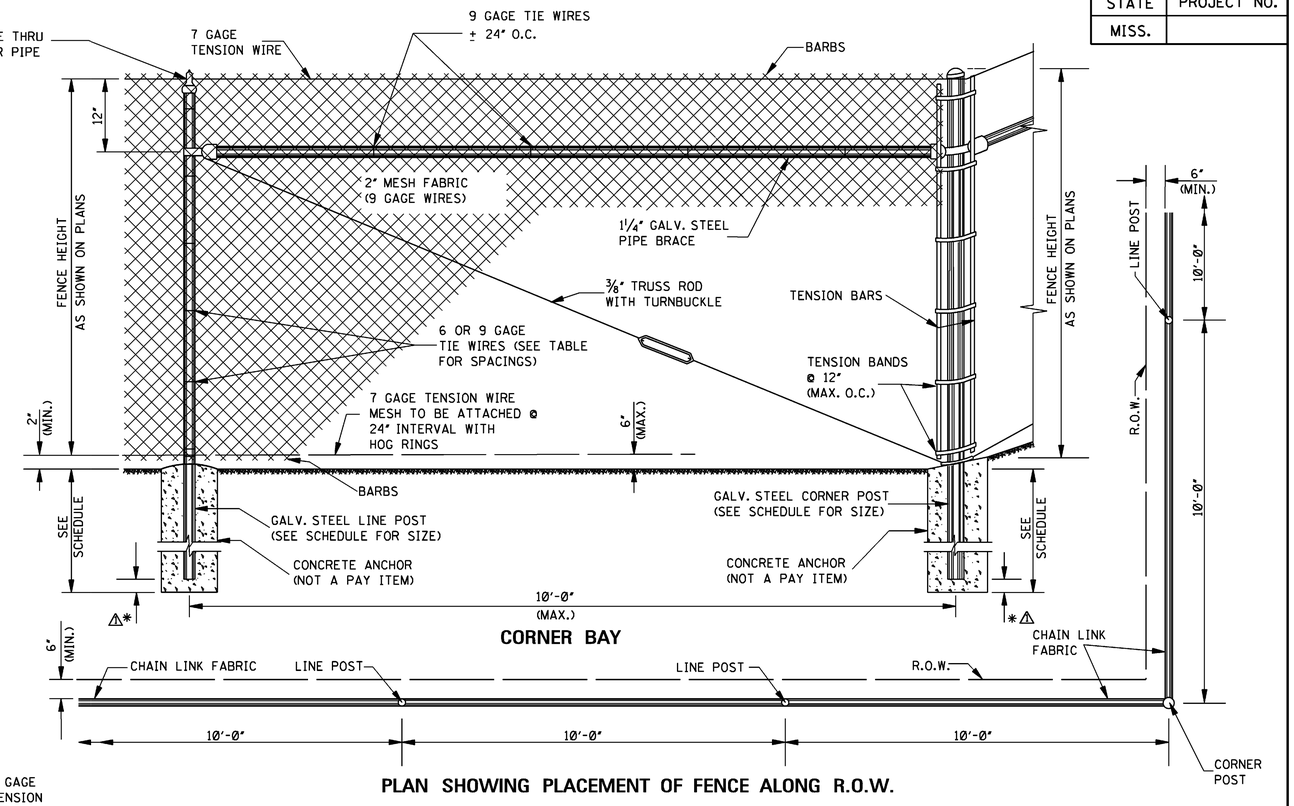
STATE	PROJECT NO.
MISS.	



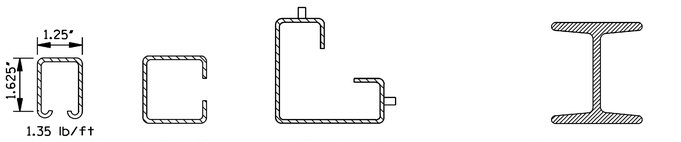
6 OR 9 GAGE TIE WIRE SPACING	
TOTAL TEST LOAD (lbs)	TIE WIRE SPACING (C-C)
518	12"
475-517	11"
430-474	10"
387-429	9"
344-386	8"
301-343	7"
258-300	6"

LINE BAY



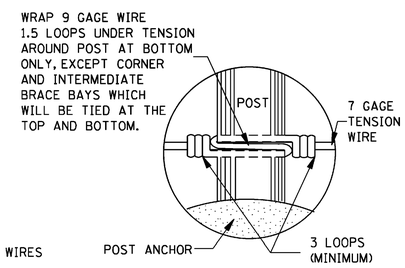
CORNER BAY

PLAN SHOWING PLACEMENT OF FENCE ALONG R.O.W.



ALTERNATE TYPES OF BRACE RAIL, OR LINE, CORNER OR BRACE POST

NOTE: SIZE AS SHOWN ON SCHEDULE.



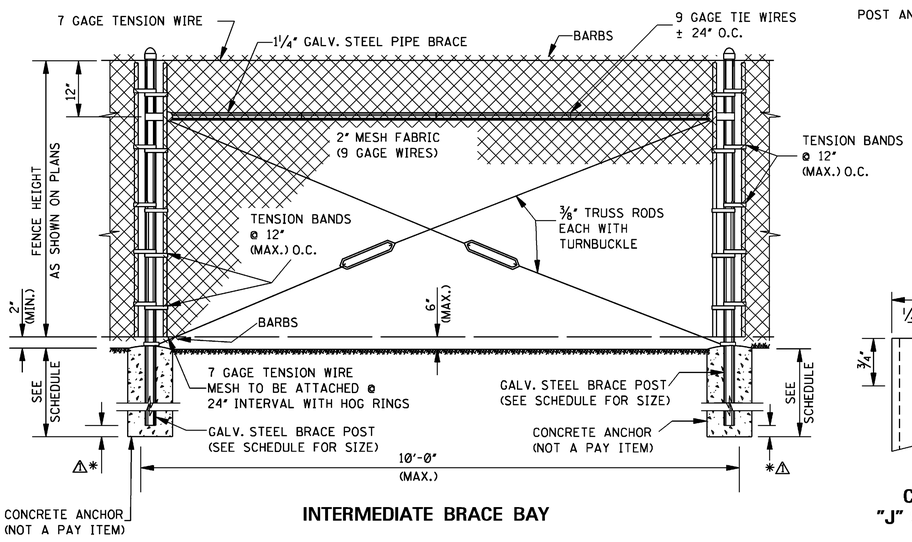
TENSION WIRE TIE DETAILS

⚠* = HOLE DEPTH - POST DEPTH

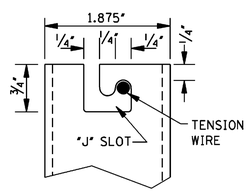
POST SCHEDULES							
FENCE HEIGHT	POST TYPES	MINIMUM POST SIZE			MIN. ANCHOR SIZE		
		ROUND	"H" BEAM	"C" BEAM	HOLE DIA.	HOLE DEPTH	POST DEPTH
		NPS (I.D.)	SIZE	SIZE			
LESS THAN 6'	LINE	1½"	2.250" X 1.625"	1.875" X 1.625"	7"	28"	22"
LESS THAN 6'	END, CORNER & BRACE	2"	-------	3.500" X 3.500"	10"	32"	28"
6' THRU 12'	LINE	2"	2.250" X 1.625"	2.250" X 1.700"	8"	38"	34"
6' THRU 12'	END, CORNER & BRACE	2½"	-------	3.500" X 3.500"	12"	44"	40"

GENERAL NOTES:

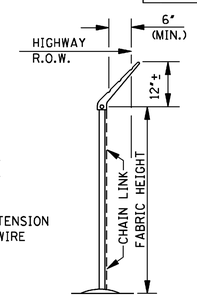
1. PIPE SIZES SHOWN FOR POSTS, BRACES AND RAILS ARE NOMINAL INSIDE DIAMETERS. ALL POSTS, BRACES AND RAILS SHALL CONFORM TO THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. ⅜" TRUSS RODS ARE NOT REQUIRED WHEN CONNECTING LESS THAN FOUR (4) PANEL LENGTHS TO STRUCTURES.
3. THE FENCE SHALL BE GROUNDED IN ACCORDANCE WITH THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. COST TO BE ABSORBED IN OTHER PAY ITEMS.
4. MESH TO BE ATTACHED AT 24" INTERVALS TO TOP AND BOTTOM TENSION WIRE WITH HOG RINGS OR OTHER APPROVED METHODS.
5. WHERE A C-SECTION POST, WITH A "J" SLOT IS PROVIDED AS THE LINE POST, THE "J" SLOT MAY BE USED TO ATTACH THE TENSION WIRE TO THE TOP OF THE POST IN LIEU OF A POST TOP.



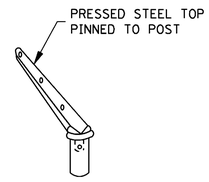
INTERMEDIATE BRACE BAY



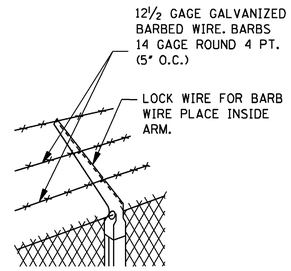
C–SECTION "J" SLOT DETAIL



END ELEVATION



END & CORNER POST TOP



LINE POST TOP (VERTICAL ARMS WHEN DESIRED)

NOTE: ARMS WITH BARBED WIRE TO BE USED WHERE SHOWN ON PLANS.

DATE	REVISION	BY
3-01-02	REVISED DIMENSION	S.W.R.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

FENCE: CHAIN LINK CLASS II

ENGLISH

WORKING NUMBER CL-2

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6163

DRAWING No.: 1273–S005

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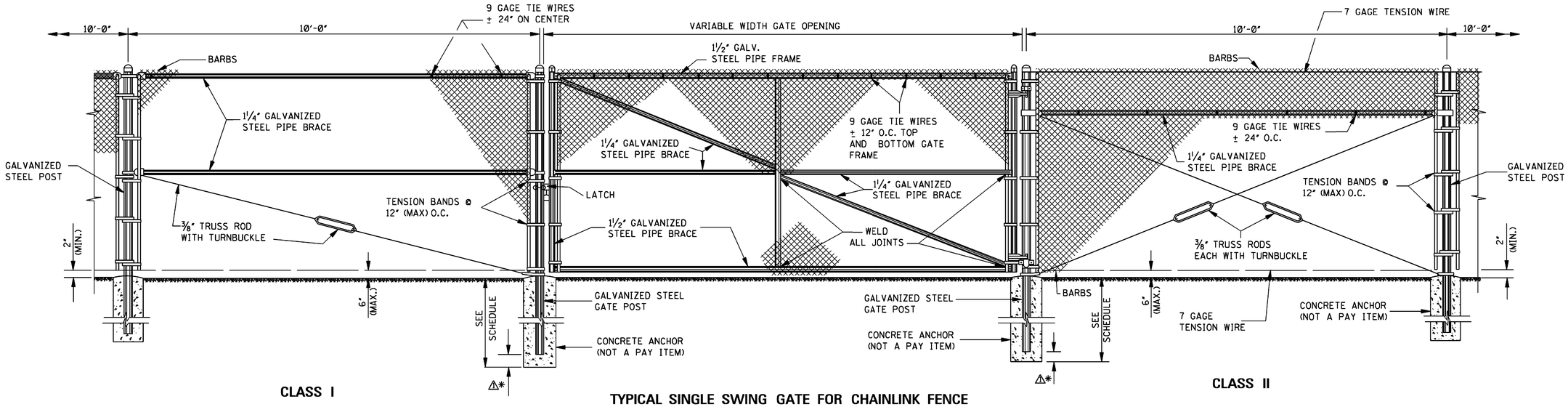
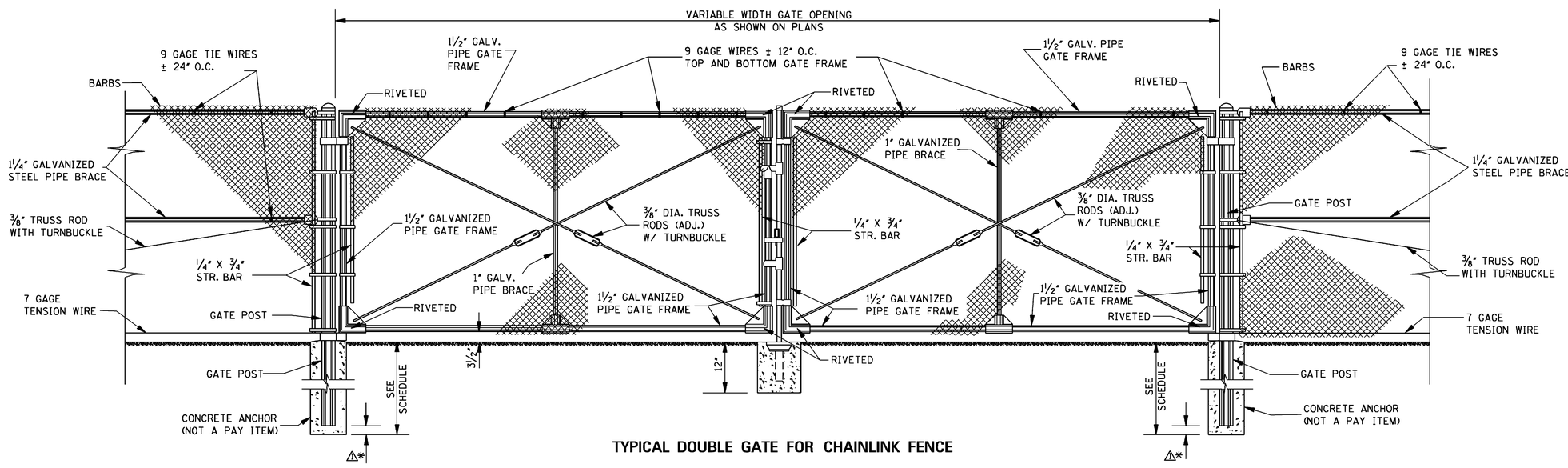


CLASS I

TYPICAL SINGLE SWING GATE FOR CHAINLINK FENCE

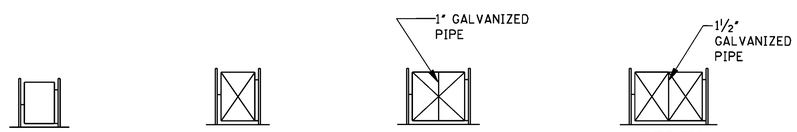
CLASS II



TYPICAL DOUBLE GATE FOR CHAINLINK FENCE

GENERAL NOTES:

1. CHAIN LINK FENCE TO BE 2" MESH FABRIC (9 GAGE WIRES).
2. PIPE SIZES SHOWN FOR POSTS, BRACES AND RAILS ARE NOMINAL INSIDE DIAMETERS. ALL POSTS, BRACES AND RAILS SHALL CONFORM TO THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. ⅜" TRUSS RODS NOT REQUIRED WHEN CONNECTING LESS THAN 4 PANELS LENGTHS TO STRUCTURES.
4. MESH TO BE ATTACHED AT 24" INTERVALS TO TOP & BOTTOM TENSION WIRE WITH HOG RINGS OR OTHER APPROVED METHODS.
5. THE FENCE SHALL BE GROUNDED IN ACCORDANCE WITH THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. COST TO BE ABSORBED IN OTHER PAY ITEMS.



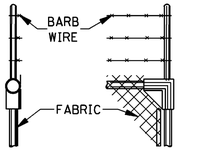
TYPE "A"	TYPE "B"	TYPE "C"	TYPE "D"
3' & 4' SGL. 6' & 8' DBL.	OVER 4' TO 7' SGL. OVER 8' TO 14' DBL.	OVER 7' TO 11' SGL. OVER 14' TO 22' DBL.	OVER 11' TO 15' SGL. OVER 22' TO 30' DBL.

TYPICAL FRAMEWORK SHOWING NUMBER OF BAYS IN GATE

⚠* = HOLE DEPTH - POST DEPTH

POST SCHEDULE

GATE OPENING	POST TYPE & MIN. SIZE			MIN. ANCHOR SIZE		
	ROUND		"C" BEAM	HOLE DIA.	HOLE DEPTH	POST DEPTH
	SIZE (NPS)		SIZE			
UP TO 6' SINGLE UP TO 12' DOUBLE	2½"		3.50" X 3.50"	12"	40"	34"
OVER 6' TO 13' SINGLE OVER 12' TO 26' DOUBLE	3½"			14"	42"	34"
OVER 13' TO 18' SINGLE OVER 26' TO 36' DOUBLE	6"			16"	46"	40"



SIDE VIEW FRONT VIEW

TOP GUARD DETAILS

DATE	REVISION	DIMENSION	BY
3-01-02	REVISED		S.W.R.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

FENCE: CHAIN LINK GATE

ENGLISH

WORKING NUMBER CLG-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6168

DRAWING No.: 1273-S005

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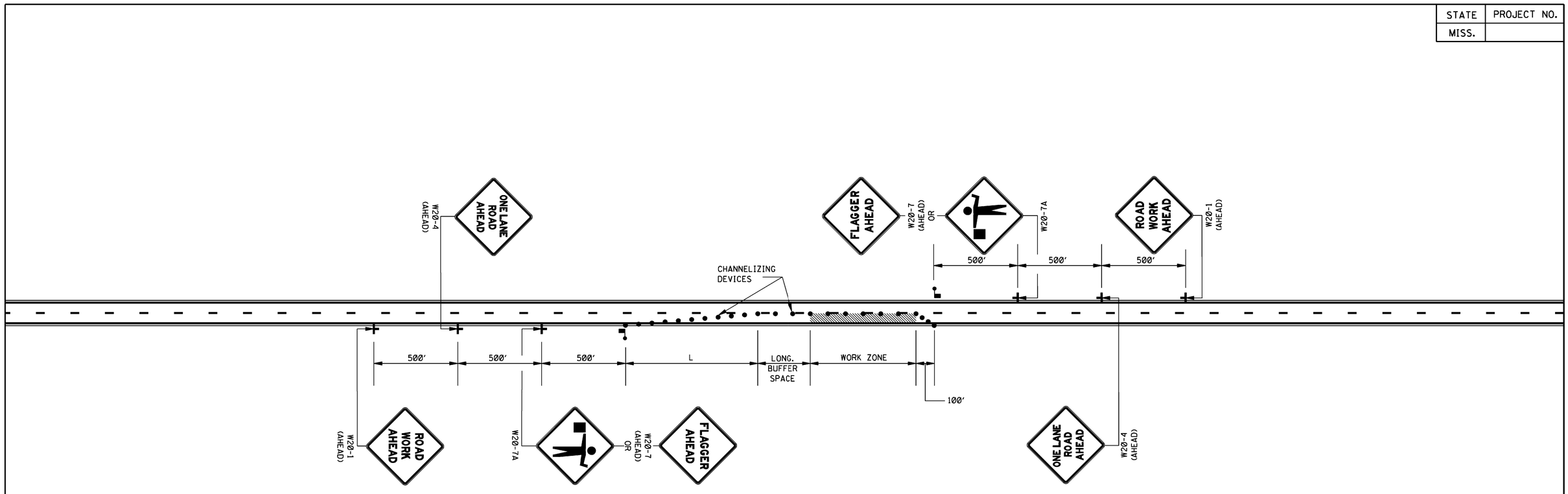

LEGEND

FLAGGER

CHANNELIZING DEVICES

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
mph	TAPER	ALONG LANE LINE & WORK ZONE		
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:

$L = WS$ FOR SPEEDS OF 45 mph OR GREATER

$L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS

WHERE: L = MINIMUM LENGTH OF TAPER IN FEET

W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET

S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 24" IN HEIGHT.

3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" × 48".

5. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.

6. WHERE THE WORK ZONE IS STATIONARY, THE W20-7 (500 FT.) SIGN OR THE W20-7A SIGN TOGETHER WITH THE W20-7 (500 FT.) SUPPLEMENTAL PLATE SHOULD BE USED TO INDICATE THE DISTANCE TO THE FLAGGER.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN WITH FLAGGER
(ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)

ENGLISH

WORKING NUMBER TCP-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6250

DRAWING No.: 1273-S005

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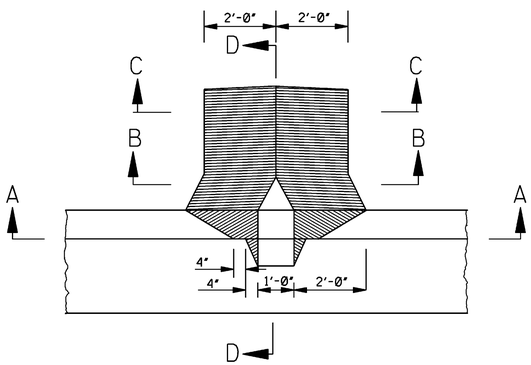
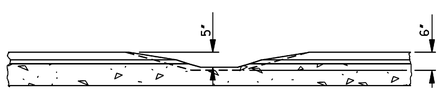
STATE	PROJECT NO.
MISS.	

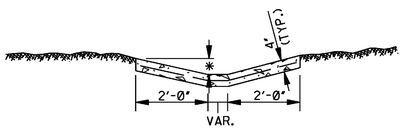
FLUME – TYPE "A"
(INTERMEDIATE RUNOFF THROUGH CURB & GUTTER)



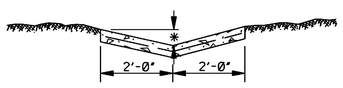
PLAN



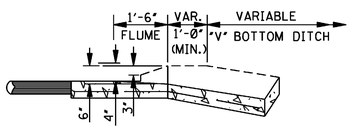
SECTION A–A



SECTION B–B
(TRANSITION SECTION)

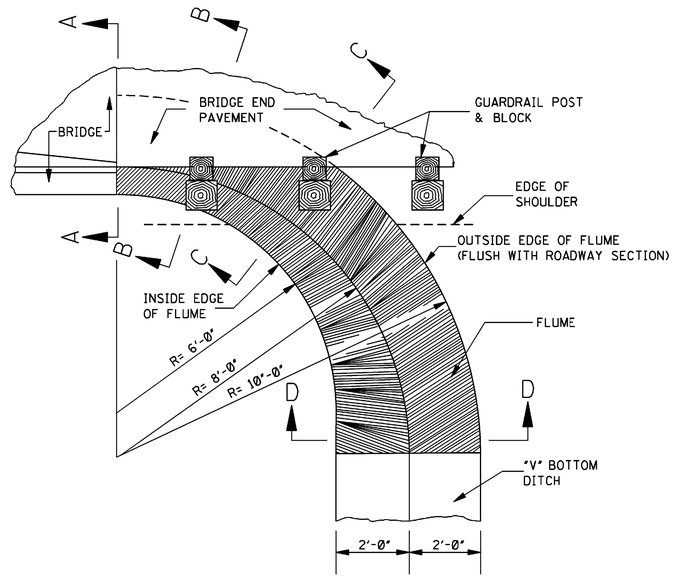


SECTION C–C
(DITCH SECTION)

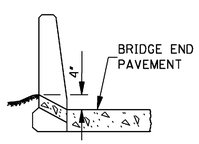


SECTION D–D

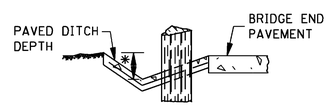
FLUME – TYPE "B"
(AT END OF BRIDGE)



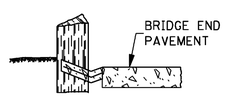
PLAN



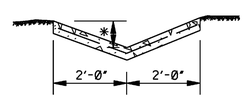
SECTION A–A
(AT BRIDGE END)



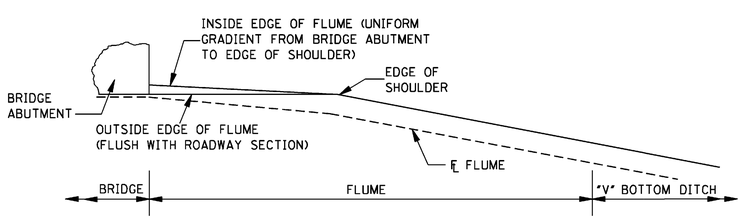
SECTION C–C
(AT EDGE OF SHOULDER)



SECTION B–B

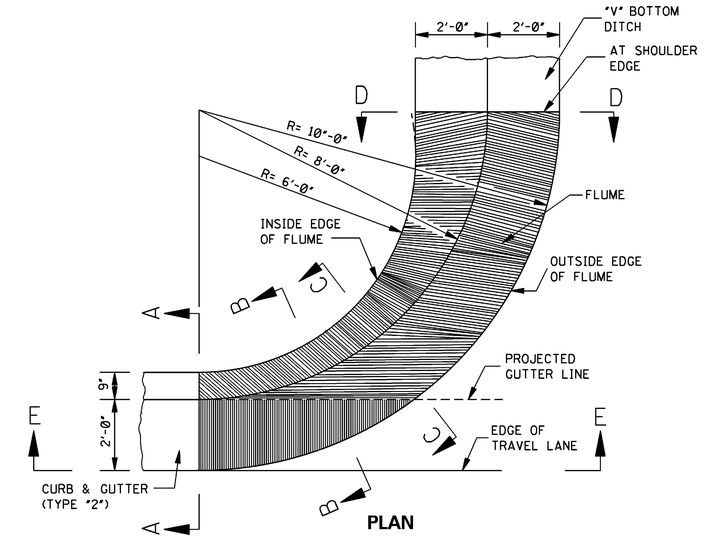


SECTION D–D
(AT "V" BOTTOM DITCH)

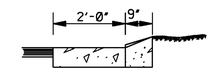


PROFILE

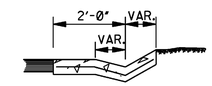
FLUME – TYPE "C"
(AT END OF CURB & GUTTER)



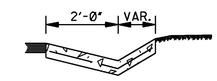
PLAN



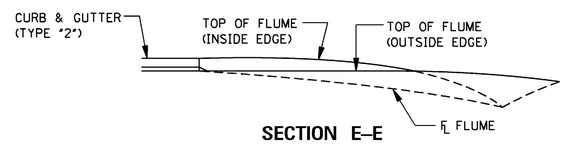
SECTION A–A
(AT END OF CURB & GUTTER)



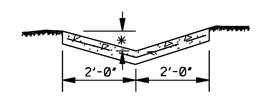
SECTION B–B



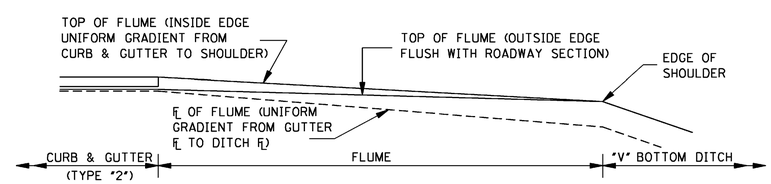
SECTION C–C
(AT EDGE OF PROJECTED GUTTER LINE)



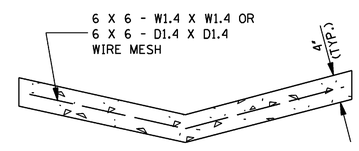
SECTION E–E



SECTION D–D
(AT EDGE OF SHOULDER)



PROFILE



TYPICAL SECTION
(WIRE MESH REQUIREMENTS OF PAVED FLUME)

*1. THIS DIMENSION IS 6" FOR 4:1 SLOPES AND 8" FOR 3:1 SLOPES.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF PAVED FLUMES

DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI

WORKING NUMBER PF-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6291

DRAWING No.: 1273–S005

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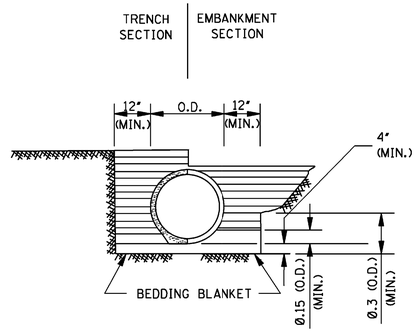
STATE	PROJECT NO.
MISS.	

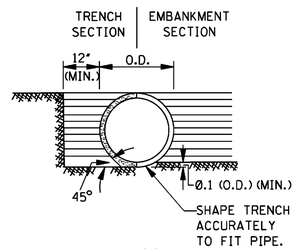
CORRUGATED STEEL AND ALUMINUM PIPE (ROUND) H-20 LOADING

PIPE DIAMETER (in)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) — SHEET THICKNESS (in)				
		0.064 STEEL 0.060 ALUM. 16 GAGE	0.079 STEEL 0.075 ALUM. 14 GAGE	0.109 STEEL 0.105 ALUM. 12 GAGE	0.138 STEEL 0.135 ALUM. 10 GAGE	0.168 STEEL 0.164 ALUM. 8 GAGE
		2⅔" X ½" CORRUGATED STEEL RIVETED, WELDED OR HELICAL /		3" X 1" OR 5" X 1" CORRUGATED STEEL RIVETED, WELDED, HELICAL OR BOLTED /		2⅔" X ½" CORRUGATED ALUMINUM RIVETED OR HELICAL
12"	12"	84' / - / 45'	91' / - / 45'	- / - / 78'	- / - / 81'	- / - / 84'
15"	12"	67' / - / -	73' / - / -	- / - / -	- / - / -	- / - / -
18"	12"	56' / - / 30'	61' / - / 30'	- / - / 52'	- / - / 54'	- / - / 56'
24"	12"	42' / - / 22'	46' / - / 22'	59' / - / 39'	- / - / 41'	- / - / 42'
30"	12"	34' / - / 18'	36' / - / 18'	47' / - / 31'	- / - / 32'	- / - / 34'
36"	12"	28' / 48' / 15'	30' / 60' / 15'	39' / 78' / 26'	41' / 89' / 27'	- / 101' / 28'
42"	12"	31' / 41' / -	43' / 51' / 26'	46' / 64' / 43'	48' / 71' / 43'	50' / 79' / 44'
48"	12"	27' / 36' / -	37' / 45' / -	45' / 57' / 40'	46' / 61' / 41'	47' / 66' / 43'
54"	12"	- / 32' / -	33' / 40' / -	43' / 52' / 35'	44' / 55' / 37'	45' / 59' / 38'
60"	12"	- / 29' / -	- / 36' / -	43' / 49' / -	43' / 51' / 33'	44' / 54' / 34'
66"	12"	- / 26' / -	- / 33' / -	42' / 47' / -	43' / 49' / 30'	43' / 51' / 31'
72"	12"	- / 24' / -	- / 30' / -	- / 44' / -	41' / 47' / -	43' / 49' / 29'
78"	12"	- / 22' / -	- / 28' / -	- / 41' / -	- / 46' / -	39' / 47' / -
84"	12"	- / 21' / -	- / 26' / -	- / 38' / -	- / 45' / -	35' / 46' / -
90"	12"	- / 19' / -	- / 24' / -	- / 35' / -	- / 43' / -	- / 45' / -
96"	12"	- / 18' / -	- / 22' / -	- / 33' / -	- / 40' / -	- / 44' / -
102"	24"	- / 17' / -	- / 21' / -	- / 31' / -	- / 38' / -	- / 42' / -
108"	24"	- / - / -	- / 20' / -	- / 30' / -	- / 35' / -	- / 39' / -
114"	24"	- / - / -	- / 19' / -	- / 28' / -	- / 34' / -	- / 37' / -
120"	24"	- / - / -	- / - / -	- / 27' / -	- / 32' / -	- / 35' / -

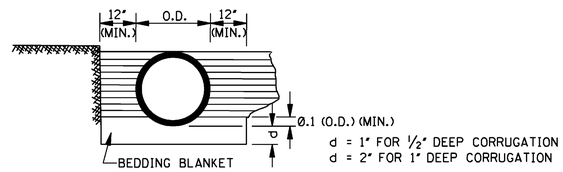
NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).



CLASS B



CLASS C



CLASS C MODIFIED

MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE

CLASS OF PIPE	TYPE OF BACKFILL	MAXIMUM COVER (ft) CLASS "C" BEDDING	MAXIMUM COVER (ft) CLASS "B" BEDDING
III	NORMAL	16'	-
IV	NORMAL	23'	28'
V	NORMAL	30'	36'
IV	IMPERFECT	-	90'
V	IMPERFECT	-	115'

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

MAXIMUM HEIGHT OF FILL OVER CLASS 2 NONREINFORCED CONCRETE PIPE, PERFORATED AND/OR PLAIN, FOR UNDERDRAINS

PIPE SIZE (in)	MAXIMUM COVER (ft) BEDDING CLASS "C"/CLASS "B" — TRENCH			PROJECTING
	B_d (in)	SAND & GRAVEL	DAMP CLAY	POSITIVE $p = 0.7$; $R_{sd} = 0.7$
4"	2.00'	*	*	34'/42'
6"	2.00'	*	*	25'/30'
8"	2.25'	*	16'/ *	19'/24'
10"	2.50'	*	12'/20'	16'/19'
12"	2.75'	*	12'/18'	14'/17'

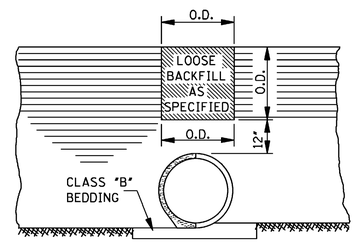
NOTES:
* 1. INDICATES NO LIMIT OF FILL HEIGHT (130 lbs/ft³).
2. TRENCH WIDTH (B_d) NO GREATER THAN 16" PLUS O.D.
3. FACTOR OF SAFETY IS 1.25 ON MINIMUM ULTIMATE STRENGTH.
4. MINIMUM COVER FOR HIGHWAY LOADS IS 18".
5. PERFORATED PIPE SHALL BE TYPE 1.

CORRUGATED METAL PIPE ARCHES H-20 LOADING

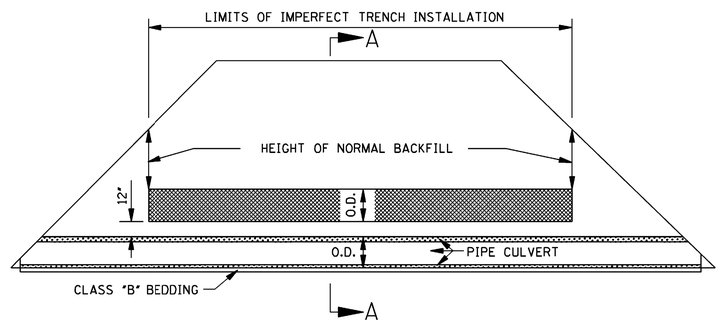
EQUIV. DIAMETER (in)	PIPE DIMENSION (SPAN X RISE) (in)	MINIMUM CORNER RADIUS (in)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE FOR 2 tons/ft² (in)	STEEL: MINIMUM THICKNESS REQUIRED (in)	STEEL: MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft²): 2 tons/ft²	STEEL: † 3 tons/ft²	ALUMINUM: MINIMUM THICKNESS REQUIRED (in)	ALUMINUM: MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft²): 2 tons/ft²	ALUMINUM: † 3 tons/ft²
				2⅔" X ½" CORRUGATION RIVETED, WELDED OR HELICAL			2⅔" X ½" CORRUGATION RIVETED OR HELICAL		
15"	17" X 13"	3"	18"	0.064"	13'	15'+	0.060"	15'	-
18"	21" X 15"	3"	18"	0.064"	12'	15'+	0.060"	14'	-
24"	28" X 20"	3"	18"	0.064"	10'	15'	0.060"	10'	15'+
30"	35" X 24"	3"	18"	0.079"	9'	14'	0.060"	9'	14'
36"	42" X 29"	3½"	18"	0.079"	9'	13'	0.075"	9'	13'
42"	49" X 33"	4"	18"	0.079"	8'	12'	0.105"	8'	12'
48"	57" X 38"	5"	18"	0.109"	8'	12'	0.135"	8'	12'
54"	64" X 43"	6"	18"	0.109"	8'	12'	0.135"	8'	12'
60"	71" X 47"	7"	18"	0.138"	8'	12'	0.164"	8'	12'
66"	77" X 52"	8"	18"	0.168"	8'	12'			
72"	83" X 57"	9"	18"	0.168"	9'	13'			
			5" X 1" OR 3" X 1" CORRUGATION RIVETED, WELDED OR HELICAL						
36"	40" X 31"	5"	18"	0.079"	12'	15'+			
42"	46" X 36"	6"	18"	0.079"	12'	15'+			
48"	53" X 41"	7"	18"	0.079"	12'	15'+			
54"	60" X 46"	8"	18"	0.079"	12'	15'+			
60"	66" X 51"	9"	18"	0.079"	12'	15'+			
66"	73" X 55"	12"	18"	0.079"	15'+	-			
72"	81" X 59"	14"	18"	0.079"	15'	-			
78"	87" X 63"	14"	18"	0.079"	14'	15'+			
84"	95" X 67"	16"	18"	0.109"	13'	15'+			
90"	103" X 71"	16"	24"	0.109"	12'	15'+			
96"	112" X 75"	18"	24"	0.109"	11'	15'+			

NOTES:
1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

† 2. BEARING PRESSURES EXCEEDING 2 tons/ft² REQUIRED FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.



SECTION A–A



ELEVATION

IMPERFECT TRENCH INSTALLATION

GENERAL NOTES:

1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.

2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.

3. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTORS EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PIPE CULVERT INSTALLATION

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER PI-1

SHEET NUMBER 6300

DRAWING No.: 1273–S005

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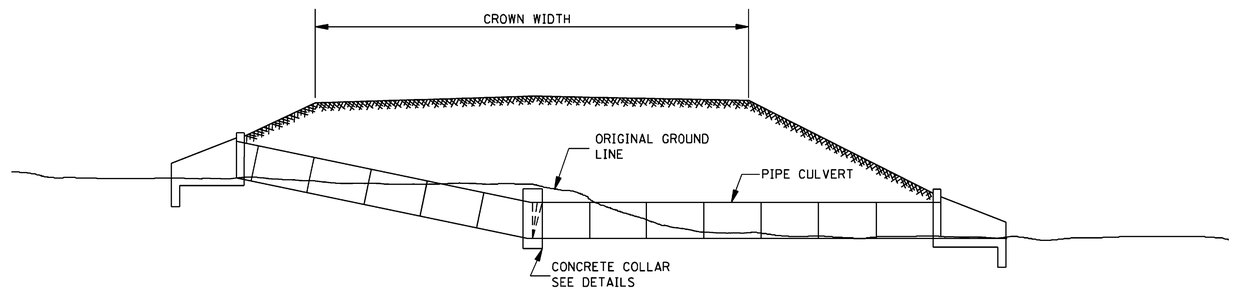
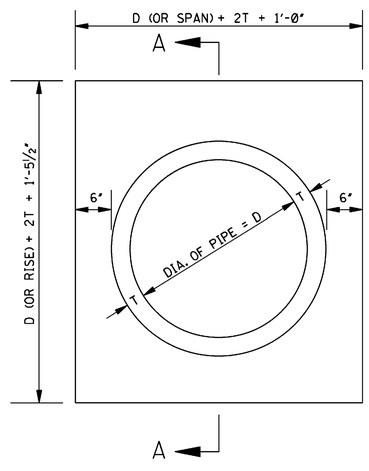
STATE	PROJECT NO.
MISS.	

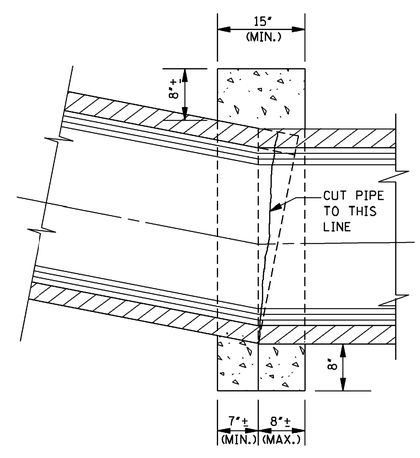


TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR

NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A–A

GENERAL NOTE:

1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS

CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd^3)	SIZE OF PIPE	CLASS "B" CONCRETE (yd^3)
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

CONCRETE PIPE COLLAR

ENGLISH

WORKING NUMBER PC-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6301

DRAWING No.: 1273–S005

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SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V
DOGWOOD AVENUE, RICHBURG ROAD, CORRINE STREET, EMERALD LANE, DUKE AVENUE, PECAN GROVE DRIVE, MEADOWBROOK DRIVE, SPRINGHILL DRIVE, OAK FORREST DRIVE, RHODES DRIVE AND, J. ED TURNER DRIVE

FOR THE

CITY OF HATTIESBURG
FORREST & LAMAR
COUNTIES MISSISSIPPI

JANUARY 2017

Engineering Progress

KYLE D. WALLACE
REGISTERED PROFESSIONAL ENGINEER
12693
2-8-17
STATE OF MISSISSIPPI

PREPARED BY:

SHOWS, DEARMAN & WAITS, INC.
CONSULTING ENGINEERS
301 SECOND AVENUE
HATTIESBURG, MISSISSIPPI
(601) 544-1821

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Sanitary Sewerage Systems
Standard Specifications for Lining Ductile Iron Pipe for Sewer Service
Manholes
Restoration of Roads, Driveways, Fences, Lawns & Other Grassed Areas
Concrete
Seeding and Sodding
Specification for Connection to Mainline Pipe (Insert-A-Tee)
Sewage Pumping Station
Dogwood Drive Pump Station
Grouted Riprap
Water Systems

ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **April 6, 2017** in the City Clerks Office in the City Hall of said City for furnishing the City's requirements for the following:

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V
HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., P. O. Box 1711, 301 Second Avenue, Hattiesburg, Mississippi, 39403, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V
HATTIESBURG, MISSISSIPPI

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the___ day of _____ A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on March 2, 2017 and March 9, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

INFORMATION FOR BIDDERS

BIDS will be received by CITY OF HATTIESBURG, MISSISSIPPI herein called the "OWNER", at City Hall until **10:00 a.m. on April 6, 2017**, and then at said office publicly opened and read aloud.

Each BID must be submitted in sealed envelope, addressed to City of Hattiesburg . Each sealed envelope containing a BID must be plainly marked on the outside as BID for **COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V** and the envelope should bear on the outside the BIDDER'S name, address, and license number if applicable, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed addressed to the Owner at P. O. Box 1898, Hattiesburg, MS 39403

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be completed and executed when submitted. Only one copy of the BID form is required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS prior to BIDDING, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID BOND payable to the OWNER for five percent (5%) of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BONDS of all except the three lowest responsive, responsible BIDDERS. When the Agreement is executed the BONDS of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the PAYMENT BOND and PERFORMANCE BOND have been executed and approved, after which it will be

returned. A certified check may be used in lieu of a BID BOND.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of 100 percent (100%) of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or PAYMENT BONDS and PERFORMANCE BONDS must file with each BOND a certified and effective dates copy of their Power of Attorney.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the PERFORMANCE BOND and PAYMENT BOND within ten (10) calendar days from the date when NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the Agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER.

All applicable Laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

FURTHER, the BIDDER agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the SUPPLEMENTAL GENERAL CONDITIONS.

The low BIDDER shall supply the names and addresses of major material SUPPLIERS and SUBCONTRACTORS when required to do so by the OWNER.

The ENGINEER is SHOWS, DEARMAN & WAITS, INC. The address of the ENGINEER is 301 2nd Avenue, Hattiesburg, Mississippi .

PROPOSAL FORM

I (we) agree to begin work within (10) calendar days after the issuance of Work Order, and to complete the work within 300 calendar days thereafter.

It is understood that the quantities of work listed for unit prices bid are approximate, and are intended to merely indicate the general scope of the various items entering into the complete work. It is further understood and agreed that the Owner may increase or decrease the quantities listed in the Proposal to an extent equivalent to 30% of the bid price (in dollars) and that no change in the unit prices proposed shall be occasioned thereby.

The undersigned further agrees that the unit and lump sum prices quoted include all items of work required or necessary for the accomplishment of the projected work and that these items include all work indicated on the Plans and Specifications for which no specific pay items have been established.

The undersigned understands the City of Hattiesburg to choose any Alternate Bid Package. The Contract shall be awarded to the low bidder in the Alternate selected by the Owner.

The undersigned certifies that the bid prices contained herein have been carefully checked and are submitted as correct and final.

If within thirty (30) days the scheduled closing time for receipt of bids, this Proposal is accepted, the undersigned will execute a formal contract within seven (7) days after official notification thereof, will deliver a surety bond for the faithful performance of this contract, and will complete the work within the time specified from the date of execution of the contract.

Respectfully Submitted,

_____

Name of Firm or Bidder

By: _____

_____

ADDRESS

Proposal

Comprehensive Sewer Improvements - Phase V

City of Hattiesburg

	Site 1: Dogwood Drive Area	Subtotal	
	Site 2-3: Corrine Street, Emerald Lane & Duke Avenue	Subtotal	
	Site 4: Meadow Brook Drive Area	Subtotal	
	Site 5: J Ed Turner Drive	Subtotal	
		Total:	

The City of Hattiesburg reserves the right to award any site or combination of sites. No site will be considered as a base bid. Contractors should price each site as independent of other sites. The contract shall include tracer wire system as outlined in the specifications for all gravity, force main and sewer services. Cost shall be included in the project.

Proposal

Site 1 - Dogwood Drive Area

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	4" 160 PSI PVC Sanitary Sewer Force Main (All Depths)	Lin. Ft.	1,000		
2	8" SDR 26 PVC Sewer Pipe (0'-6')	Lin. Ft.	1,098		
3	8" SDR 26 PVC Sewer Pipe (6'-8')	Lin. Ft.	601		
4	8" SDR 26 PVC Sewer Pipe (8'-10')	Lin. Ft.	123		
5	8" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	101		
6	8" SDR 26 PVC Sewer Pipe (12'-14')	Lin. Ft.	135		
7	Air Release and Vacuum Valve Assembly (Including Precast Concrete Manhole)	Each	1		
	Manhole Items				
8	48" Precast Concrete Sewer Manhole (0'-6')	Each	3		
9	48" Precast Concrete Sewer Manhole (6'-8')	Each	8		
10	48" Precast Concrete Sewer Manhole (8'-10')	Each	1		
11	48" Precast Concrete Sewer Manhole (10'-12')	Each	1		
12	48" Precast Concrete Sewer Manhole (12'-14')	Each	1		
	Sewer Service Items				
13	6" SDR 26 PVC Sewer Pipe for Services (All Depths)	Lin. Ft.	942		
14	8"x8"x6" PVC Tee	Each	8		
15	6" PVC Cleanout	Each	8		

	Lift Station Items				
16	Lift Station Incl Clearing and Grubbing, Borrow Material, Crushed Aggregate, Concrete Wet Well , Pumps, Electrical, Disconnect, Valve Pit, Guages, Service Pole, Meter Box, Lifting Chain or Cable, Gude Rail Assembly, Chain Link Fencing, Etc.	LS	1		
	Miscellaneous Construction Items				
17	Abandonment of Septic Tanks	Each	7		
18	Drop Manhole Assembly (All Depths)	Each	3		
19	Water Service Repair (Including Service Tubing, Fittings, Corp Stop, Curb Stop, Tapping Saddle, Etc)	Each	4		
20	Crushed Aggregate (Size 825)	Ton	612		
21	Select Fill Material (Class 9, Group C), LVM	Cu. Yd.	2,495		
22	Hot Mix Asphalt, ST, 9.5mm	Tons	208		
23	Concrete Pavement Repair (All Depths)	Sq. Yd.	57		
24	Removal of Cross Drains (All Types and Sizes)	Lin. Ft.	16		
25	30" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	16		
26	Class "B" Concrete, Minor Structures	Cu. Yd.	5		
27	Grassing	Lump Sum	1		
28	Erosion Control	Lump Sum	1		
29	Mobilization	Lump Sum	1		
30	Maintenance of Traffic	Lump Sum	1		
		Subtotal (Site 1):			

Proposal

Site 2-3 - Corrine Street, Emerald Lane & Duke Avenue

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	8" SDR 26 PVC Sewer Pipe (6'-8')	Lin. Ft.	243		
2	8" SDR 26 PVC Sewer Pipe (8'-10')	Lin. Ft.	635		
3	8" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	125		
4	8" SDR 26 PVC Sewer Pipe (12'-14')	Lin. Ft.	137		
5	8" SDR 26 PVC Sewer Pipe (14'-16')	Lin. Ft.	102		
6	8" SDR 26 PVC Sewer Pipe (16'-18')	Lin. Ft.	187		
7	8" SDR 11 HDPE Sewer Service Bore	Lin. Ft.	275		
8	15" SDR 26 PVC Sewer Pipe (6'-8')	Lin. Ft.	733		
9	15" SDR 26 PVC Sewer Pipe (8'-10')	Lin. Ft.	336		
10	15" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	225		
11	24" Steel Casing (Bored)	Lin. Ft.	60		
	Manhole Items				
12	48" Precast Concrete Sewer Manhole (8'-10')	Each	3		
13	48" Precast Concrete Sewer Manhole (12'-14')	Each	1		
14	48" Precast Concrete Sewer Manhole (14'-16')	Each	1		
15	60" Precast Concrete Sewer Manhole (6'-8')	Each	3		
16	60" Precast Concrete Sewer Manhole (10'-12')	Each	2		
17	Drop Manhole Assembly (All Depths)	Each	3		
18	Demolition and Removal of Existing Sewer Manhole	Each	8		
	Sewer Service Items				
19	6" SDR 26 PVC Sewer Pipe for Services (All Depths)	Lin. Ft.	270		
20	8"x8"x6" PVC Tee	Each	3		
21	Service Connection (Insert a Tee)	Each	6		
22	6" PVC Cleanout	Each	9		

	Miscellaneous Construction Items				
23	Water Service Repair (Including Service Tubing, Fittings, Corp Stop, Curb Stop, Tapping Saddle, Etc)	Each	8		
24	Crushed Aggregate (Size 825)	Ton	1,387		
25	Select Fill Material (Class 9, Group C), LVM	Cu. Yd.	8,090		
26	Hot Mix Asphalt, ST, 9.5mm	Tons	530		
27	Concrete Pavement Repair (All Depths)	Sq. Yd.	25		
28	Removal of Cross Drains (All Types and Sizes)	Lin. Ft.	180		
29	12" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	24		
30	18" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	64		
31	21" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	40		
32	24" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	48		
33	Class "B" Concrete, Minor Structures	Cu. Yd.	1		
34	Grassing	Lump Sum	1		
35	Erosion Control	Lump Sum	1		
36	Mobilization	Lump Sum	1		
37	Maintenance of Traffic	Lump Sum	1		
		Subtotal (Site 2-3):			

Proposal

Site 4 - Meadow Brook Drive Area

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	8" SDR 26 PVC Sewer Pipe (0'-6')	Lin. Ft.	667		
2	8" SDR 26 PVC Sewer Pipe (6'-8')	Lin. Ft.	169		
3	8" SDR 26 PVC Sewer Pipe (8'-10')	Lin. Ft.	82		
4	10" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	20		
5	12" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	20		
6	12" SDR 26 PVC Sewer Pipe (12'-14')	Lin. Ft.	40		
7	15" SDR 26 PVC Sewer Pipe (10'-12')	Lin. Ft.	20		
8	18" PSI-115 PVC Sewer Pipe (0'-6')	Lin. Ft.	679		
9	18" PSI-115 PVC Sewer Pipe (6'-8')	Lin. Ft.	173		
10	18" PSI-115 PVC Sewer Pipe (8'-10')	Lin. Ft.	456		
11	18" PSI-115 PVC Sewer Pipe (10'-12')	Lin. Ft.	1,099		
12	18" PSI-115 PVC Sewer Pipe (12'-14')	Lin. Ft.	818		
13	18" PSI-115 PVC Sewer Pipe (14'-16')	Lin. Ft.	418		
14	18" PSI-115 PVC Sewer Pipe (16'-18')	Lin. Ft.	747		
15	18" PSI-115 PVC Sewer Pipe (18'-20')	Lin. Ft.	168		
16	18" PSI-115 PVC Sewer Pipe (20'-22')	Lin. Ft.	481		
17	24" Steel Casing (Open Cut)	Lin. Ft.	100		
18	Removal of Sewer Pipe Through Existing Box Culvert (Incl Patchwork)	Lin. Ft.	30		
	Manhole Items				
19	48" Precast Concrete Sewer Manhole (6'-8')	Each	1		
20	60" Precast Concrete Sewer Manhole (10'-12')	Each	6		
21	60" Precast Concrete Sewer Manhole (12'-14')	Each	2		
22	60" Precast Concrete Sewer Manhole (14'-16')	Each	3		
23	60" Precast Concrete Sewer Manhole (16'-18')	Each	2		
24	60" Precast Concrete Sewer Manhole (20'-22')	Each	2		
25	72" Precast Concrete Sewer Manhole (10'-12')	Each	1		
26	72" Precast Concrete Sewer Manhole (16'-18')	Each	1		
27	Demolition and Removal of Existing Sanitary Manholes (All Types)	Each	16		
28	Drop Manhole Assembly (All Depths)	Each	11		

Proposal

Site 4 - Meadow Brook Drive Area

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Service Items				
29	6" SDR 26 PVC Sewer Pipe for Services (All Depths)	Lin. Ft.	1,770		
30	Service Connection (Insert a Tee)	Each	61		
31	6" PVC Cleanout	Each	61		
	Miscellaneous Construction Items				
32	Crushed Aggregate (Size 825)	Ton	1,793		
33	Select Fill Material (Class 9, Group C), LVM	Cu. Yd.	15,440		
34	Concrete Side Walk Repair (All Depths)	Sq. Yd.	43		
35	Concrete Pavement Repair (All Depths)	Sq. Yd.	642		
36	Hot Mix Asphalt, ST, 9.5mm	Tons	876		
37	Grouted Rip Rap, Size 200 w/ Geotextile Fabric	Sq. Yd.	206		
38	Remove and Reset Rip Rap w/ Geotextile Fabric and Grout	Sq. Yd.	20		
39	Removal of Existing Steel Casing	LF	42		
40	Remove and Replace Existing Wood Fence	LF	40		
41	Removal of Existing Side Drains	LF	502		
42	Removal of Cross Drains (All Types and Sizes)	Lin. Ft.	56		
43	10" Corrugated HDPE Pipe	Lin. Ft.	8		
44	12" Corrugated HDPE Pipe	Lin. Ft.	197		
45	18" Corrugated HDPE Pipe	Lin. Ft.	60		
46	12" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	56		
47	30" Reinforced Concrete Pipe, Class III, Rubber Gaskets	Lin. Ft.	32		
48	Class "B" Concrete, Minor Structures	Cu. Yd.	5		
49	Clearing and Grubbing	Lump Sum	1		
50	Grassing	Lump Sum	1		
51	Erosion Control	Lump Sum	1		
52	Mobilization	Lump Sum	1		
53	Maintenance of Traffic	Lump Sum	1		
		Subtotal (Site 4):			

Proposal

Site 5 - J Ed Turner Drive

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	4" Sanitary Sewer Force Main	Lin. Ft.	20		
2	6" Sanitary Sewer Force Main	Lin. Ft.	30		
3	8" Ductile Iron Sewer Pipe (0'-6')	Lin. Ft.	387		
4	8" Ductile Iron Sewer Pipe (6'-8')	Lin. Ft.	13		
5	8" SDR 26 PVC Sewer Pipe (0'-6')	Lin. Ft.	670		
6	8" SDR 26 PVC Sewer Pipe (6'-8')	Lin. Ft.	416		
7	8" SDR 26 PVC Sewer Pipe (8'-10')	Lin. Ft.	107		
8	Concrete Encasement for Sewer Line (Per Plans)	Lin. Ft.	160		
	Manhole Items				
9	48" Precast Concrete Sewer Manhole (0'-6')	Each	1		
10	48" Precast Concrete Sewer Manhole (6'-8')	Each	3		
11	48" Doghouse Concrete Sewer Manhole (6'-8')	Each	1		
12	48" Flattop Precast Concrete Sewer Manhole (0'-6')	Each	1		
13	Demolition and Removal of Existing Sewer Manhole	Each	1		
	Sewer Service Items				
14	6" SDR 26 PVC Sewer Pipe for Services (All Depths)	Lin. Ft.	126		
15	8"x8"x6" PVC Tee	Each	4		
16	6" PVC Cleanout	Each	4		

	Miscellaneous Construction Items				
17	Water Service Repair (Icluding Service Tubing, Fittings, Corp Stop, Curb Stop, Tapping Saddle, Etc)		3		
18	Concrete Pavement Repair (All Depths)	Sq. Yd.	20		
19	Hot Mix Asphalt, ST, 9.5mm	Tons	10		
19	Clearing and Grubbing	Lump Sum	1		
21	Grassing	Lump Sum	1		
22	Erosion Control	Lump Sum	1		
23	Mobilization	Lump Sum	1		
24	Maintenance of Traffic	Lump Sum	1		
		Subtotal (Site 5):			

BID BOND

KNOW ALL MEN BY THESE PRESENTS: that we, the undersigned, Principal, and _____as Surety, are hereby held and firmly bound unto _____ as Owner in the penal sum of for payment of which, well and truly made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 20__.

The Condition of the above obligation is such that whereas the Principal has submitted to a center BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year set forth above.

_____ (L.S.)
PRINCIPAL

_____
SURETY

BY: _____

IMPORTANT: Surety companies executing BONDS must appear on the Treasure Department's most current line (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into this ____day of_____, 20____ by and between_____hereinafter called the CONTRACTOR, **CITY OF HATTIESBURG**___hereinafter called the OWNER, Witnesseth that the Contractor and the OWNER, for the consideration hereafter named and agrees as follows.

ARTICLE 1: SCOPE OF WORK

The Contractor agrees to furnish all tools, labor, equipment, materials, and supplies required to be furnished, and perform all work required under and in accordance with the plans entitled

COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V

which are on file at the office of the OWNER, and the Specifications, Proposals, General and Special Conditions, attached hereto and made a part hereof as fully as though copied herein, under the direct supervision and to the entire satisfaction of the OWNER and in accordance with the Laws of the State of Mississippi.

ARTICLE 2: THE CONTRACT SUM

It is further agreed and understood by and between the parties hereunto that the OWNER agrees to pay and the Contractor agrees to accept full and final compensation for all work done under this agreement, the lump sum amount adjusted for variation of quantities at the unit prices named in the Proposal, which is hereto attached, such payment to be made in lawful money of the United States, at the time and in the manner hereinafter set forth.

ARTICLE 3: TIME OF COMPLETION

The Contractor agrees, for the consideration above expressed, to begin and complete the work within the time specified in the Proposal. If the Contractor fails to complete the work in the time specified, he shall pay the OWNER as **liquidated damages**, ascertained and agreed, and not in the nature of a penalty, the sum of **$ 750.00**___for each day delayed, which shall be deducted from the final amount to be paid under the contract; provided that the extension of time with the waiver of liquidation damages may be granted as provided for in the Specifications.

ARTICLE 4: PROGRESS PAYMENTS

The owner agrees to make progress payments during the construction as provided herein as follows:

The ENGINEER will on or before the tenth (10th) day of each month make an estimate of the value of the work done, based on contract prices.

The OWNER agrees to pay the CONTRACTOR 100% of the value of the work done each month, less ten percent (10%) retainage until final acceptance of the work has been made).

ARTICLE 5: ACCEPTANCE AND FINAL PAYMENT

Upon receipt of written notice that the work is ready for final acceptance and inspection, the Engineer shall promptly make such inspection, and when he finds the work acceptable under the contract, and the contract fully performed, he shall promptly issue a final certificate, over his own signature, stating that the work provided for in this Contract has been completed and is accepted by him under the terms and conditions thereof. Then, the entire balance shall be due the Contractor within thirty (60) days the date of said final acceptance.

Before issuance of final certificate, the Contractor shall submit evidence satisfactory to the ENGINEER that all payrolls, materials, bills, and other indebtedness connected with the work have been paid.

The making and acceptance of the final payment shall constitute a waiver of all claims by the OWNER, other than those arising from unsettled liens, from faulty work or materials appearing within one (1) year after payment, or claims previously made and still unsettled.

If, after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor, and the Engineer, so certifies, the OWNER shall, upon certificate of the Engineer and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

ARTICLE 6: THE PERFORMANCE BOND

The Contractor agrees to furnish a bond, with an approved surety thereon guaranteeing the performance of this contract, in no less than one hundred percent (100%) of the amount of the Contract. Said Bond shall be conditioned on full and complete performance of the Contract, and for the payment of all labor and materials for a period of one (1) year after completion. The Surety on said Bond shall be a surety company of financial resources satisfactory to the OWNER and authorized to do business in the State of Mississippi.

ARTICLE 7 INSURANCE

The Contractor agrees to also carry Public Liability Insurance, Property Damage Insurance, and Workman's Compensation Insurance in amounts as required by the Specifications.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first written above.

OWNERS:

City of Hattiesburg_____

SEAL

BY_____

Title_____ ATTEST_____

CONTRACTOR

_____

SEAL

BY_____

Title_____

ATTEST_____

PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: THAT WE, the Undersigned (hereinafter called the Principal), a corporation, partnership or individual duly unauthorized by law to do business as a construction contractor in the State of Mississippi, and of _____ (herein called the Surety), a corporation duly authorized to do a surety business under the laws of the State of Mississippi, are held and firmly bound unto _____, (hereinafter called the Obligee), a _____ Corporation existing under the laws of the State of Mississippi, in the penal sum of Dollars (_____) lawful money of the United States, for the payment of which well and truly to be made, the said Principal and the said Surety do hereby bind ourselves, our heirs, executors, administrators and assigns, jointly and severally, by these presents, as follows:

The Condition of this obligation is such that; whereas Principal by an instrument in writing attached hereto and bearing date of has agreed with said Obligee to do all work necessary and to furnish labor, materials, tools, supplies and services to construct **COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V** as shown on Plans and specified thereby in the Specifications, Proposal and other Contract Documents hereto attached.

NOW THEREFORE, if said Principal shall well and truly in good, sufficient and workmanlike manner, and to the satisfaction of Obligee perform and complete the work required, and shall defend, indemnify and save harmless said Obligee against all damages, claims, demands, expense and charge of every kind (including claims of patent infringement) arising out of injury or damage to persons or property by reason or arising from any act, omission or neglect of said Principal, his agent, servants or employees with relation to said work; and shall pay all cost, charges, rentals and expenses for labor, material, supplies and equipment and deliver the said improvement to Obligee completed and ready for occupancy or operation, and free from all liens, encumbrances or claims for labor, material or otherwise; and shall pay all other expenses lawfully chargeable to Obligee by reason of any default or neglect of the said Principal in the relation of said agreement and said work, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said surety for value received hereby stipulates and agrees that no charge, extension of time, alteration or addition to the terms of the Contract, or the work to be performed thereunder, or the Specifications accompanying the same, shall in any way affect its obligation on this bond and does hereby waive notice of any change, extension of time, alteration or addition to the terms of the Contract, or to the work, or to the Specifications.

PROVIDED FURTHER, that if Principal, or his, or its subcontractor or subcontractors fail to duly pay for any labor, materials, team hire, sustenance provisions or any other supplies or

materials used or consumed by such Principal or his, their or its subcontractors in performance of the work contracted to be done, the Surety will pay the same in any amount not exceeding the sum specified in the bond, together with interest as provided by law.

IN WITNESS THEREOF: Said Principal and surety have hereunto set their hands and seals at this _____ day of _____, 20___.

(SEAL)

_____
PRINCIPAL

WITNESSES:

_____

_____

_____
ADDRESS

_____
Name of person executing for Principal

_____
Title

_____
SURETY

WITNESSES:

_____

_____

_____
ADDRESS

_____
Name of person executing for Surety

_____

Title

NOTICE OF AWARD

TO: _____
_____
_____

Project: **COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V**

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated_____, 20___, and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of $_____.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND, Payment BOND, and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 20___.

City of Hattiesburg_____
OWNER

By: _____
Title: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by
This the _____ day of _____, 20___

Title:_____

Signature:_____

NOTICE TO PROCEED

TO: _____ DATE:_____

_____

_____

Project: COMPREHENSIVE SEWER IMPROVEMENTS - PHASE V

You are hereby notified to commence WORK in accordance with the Agreement dated _____, 20__ on or before _____, 20__, and you are to complete the WORK within 300 consecutive calendar days thereafter. The date of completion of all WORK is therefore _____, 20__.

CITY OF HATTIESBURG
OWNER

BY:_____

TITLE: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

_____this the __ day of _____, 20___.

Title:_____

Signature:_____

GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS

Wherever used in these General Conditions or in the other Contract Documents, the following terms shall have the meaning indicated which shall be applicable to both the singular and plural thereof.

ACCEPTANCE: By the OWNER of the Work as being fully complete in accordance with the Contract Documents.

AGREEMENT: The written agreement between the OWNER and the CONTRACTOR covering the Work to be performed: the Contract Documents are attached to and made a part of the Agreement. Also designated as the Contract.

ADDENDA: Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawings and Specifications, by addition, deletions, clarifications or corrections.

APPLICATION FOR PAYMENT: The form furnished by the ENGINEER which is to be used by the CONTRACTOR in requesting progress payments and an affidavit of the CONTRACTOR that progress payments theretofore received from the OWNER on account of the WORK have been applied by the CONTRACTOR to discharge in full all of the CONTRACTOR'S obligations stated in prior Applications for Payment.

APPROVAL: Accept as satisfactory.

BID: The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

BIDDER: Any person, firm or corporation submitting a Bid for the Work.

BONDS: Bid, performance and payment bonds and other instruments of security furnished by the CONTRACTOR and his surety in accordance with the Contract Documents and in accordance with the law of the place of the project.

CHANGE ORDER: A written order to the CONTRACTOR signed by the OWNER authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time issued after execution of the Agreement.

CONTRACT DOCUMENTS: The Agreement, Addenda, Instructions to Bidders, CONTRACTOR'S BID, the Bonds, the Notice of Award, these General Conditions, the Supplementary conditions, Special Conditions, Technical Conditions, the Specifications, Drawings and Modifications, and Notice to Proceed.

CONTRACT PRICE: The total moneys payable to the CONTRACTOR under the Contract Documents.

CONTRACT TIME: The number of calendar days stated in the Agreement for the completion of the Work.

CONTRACTING OFFICER: The owner (Grantee)- The individual who is authorized to sign the contract documents on behalf of the owner's governing body.

CONTRACTOR: The person, firm or corporation with whom the OWNER has executed the Agreement.

DAY: A calendar day of twenty-four hours measured from midnight to the next midnight.

DRAWINGS: The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by the ENGINEER and are referred to in the Contract Documents.

ENGINEER: The person, firm or corporation named as such in the Contract Documents.

FIELD ORDER: A written order issued by the ENGINEER which clarifies or interprets the Contract Documents in accordance with Paragraph 9.3 or orders minor changes in the Work in accordance with paragraph 10.2.

MODIFICATION: (a) A written amendment of the Contract Documents signed by both parties, (b) a Change Order (c) a written clarification or interpretation issued by the ENGINEER in accordance with paragraph 9.3 or (d) a written order for a minor change or alteration in the Work issued by the ENGINEER pursuant to paragraph 10.2. A modification may only be issued after execution of the Agreement.

NOTICE OF AWARD: The written notice by OWNER to the apparent successful Bidder stating that upon compliance with the conditions precedent to be fulfilled by him within the time specified, OWNER will execute and deliver the Agreement to him.

NOTICE TO PROCEED: A written notice given by OWNER to CONTRACTOR (with a copy to ENGINEER) fixing the date on which the Contract Time will commence to run and on which CONTRACTOR shall start to perform his obligations under the Contract Documents.

OWNER: A public body or authority, corporation, association, partnership, or individual for whom the Work is to be performed.

PROJECT: The entire construction to be performed as provided in the Contract Documents.

CONSTRUCTION OBSERVER
RESIDENT INSPECTOR
CONSTRUCTION INSPECTOR
PROJECT REPRESENTATIVE: An authorized representative of the ENGINEER assigned to

observe the Work performed and materials furnished by the CONTRACTOR or such other person as may be appointed by the OWNER as his representative. The CONTRACTOR shall be notified in writing of the identity of this representative.

SHOP DRAWINGS: All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a Subcontractor, manufacturer, supplier or distributor and which illustrate the equipment, material or some portion of the Work and as required by the Contract Documents.

SAMPLES: Physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

SPECIFICATIONS: Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work.

SUBCONTRACTOR: An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.

SUBSTANTIAL COMPLETION: The stage in construction when a project can be utilized for the purposes for which it was intended. At substantial completion, minor items and items that are seasonally restricted need not be completed, but the items that affect operational integrity and function of the facility must be capable of continuous use.

SUPPLEMENTARY GENERAL CONDITIONS: Federal Conditions in effect at time of submission of Bid.

SUPPLIER: Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.

SPECIAL CONDITIONS: When included as a part of the Contract Documents, Special Conditions refer only to the Work under this Contract.

SURETY: The corporate body which is bound with the CONTRACTOR and which engages to be responsible for the CONTRACTOR and his acceptable performance of the Work.

WORK: Any and all obligations, duties and responsibilities necessary to the successful completion of the Project assigned to or undertaken by CONTRACTOR under the Contract Documents,
including all labor, materials, equipment and other incidentals, and the furnishing thereof.

WRITTEN NOTICE: The term "Notice" as used herein shall mean and include all written notices, demands, instructions, claims, approvals, and disapprovals required to obtain compliance with Contract requirements. Written notice shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or to an authorized representative of such individual, firm or corporation, or if delivered at or sent by registered mail to the last business address known to him who gives the

notice. Unless otherwise stated in writing, any notice to or demand upon the OWNER under this Contract shall be delivered to the OWNER through the ENGINEER.

ARTICLE 2 - PRELIMINARY MATTERS:

AWARD:

2.1 The award of the Contract, if it is awarded, will be to the lowest responsible, responsive Bidder. No Notice of Award will be given until the OWNER has concluded such investigations as he deems necessary to establish the responsibility, qualifications, and financial ability of the Bidders to do the Work in accordance with the Contract Documents to the satisfaction of the OWNER within the time prescribed. The OWNER reserves the right to reject the BID of any Bidder who does not pass such investigation to the OWNER'S satisfaction. In analyzing Bids, the OWNER may take into consideration alternates and unit prices, if requested by the Bid Form. If the Contract is awarded, the OWNER will issue the NOTICE of AWARD and give the successful Bidder a contract for execution within sixty (60) days after the opening of Bids.

EXECUTION OF AGREEMENT:

2.2 At least three counterparts of the Agreement and such other Contract Documents will be executed and delivered by CONTRACTOR to the OWNER within 10 working days or 15 calendar days of receipt from the OWNER.

FORFEITURE OF BID SECURITY:

2.3 Failure of the successful Bidder to execute and deliver the Agreement and deliver the required Bonds as stipulated in paragraph 2.2 shall be just cause for the OWNER to annul the Notice of Award and declare the Bid and any security therefore forfeited.

CONTRACTOR'S PRE-START REPRESENTATIONS:

2.4 CONTRACTOR represents that he has familiarized himself with, and assumes full responsibility for having familiarized himself with, the nature and extent of the Contract Documents, Work, Locality, and local conditions and will obey all federal, state, and local laws, ordinances, rules and regulations that may in any manner affect performance of the Work, and represents that he has correlated his study and observations with the requirements of the Contract Documents. CONTRACTOR also represents that he has studied all surveys and investigation reports of subsurface and latent physical conditions referred to in the Specifications and made such additional surveys and investigations as he deems necessary for the performance of the Work at the Contract Price in accordance with the requirements of the Contract Documents and that he has correlated the results of all such data with the requirements of the Contract Documents.

COMMENCEMENT OF CONTRACT TIME:

2.5 The Contract Time will commence to run no less than the 15 days after receipt by the CONTRACTOR of the Notice to Proceed.

STARTING THE PROJECT:

2.6 CONTRACTOR shall start to perform his obligations under the Contract Documents on the date when the Contract Time commences to run. No Work shall be done at the site prior to the date on which the Contract Time commences to run, except with the written consent of the OWNER.

BEFORE STARTING CONSTRUCTION:

2.7 Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. He shall at once report in writing to ENGINEER any conflict, error or discrepancy which he may discover; however, he shall be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Drawings or Specifications.

SCHEDULE OF COMPLETION:

2.8 Within ten (10) days after delivery of the Notice to Proceed by OWNER to CONTRACTOR, CONTRACTOR shall submit to ENGINEER an estimated progress schedule with earnings indicating the starting and completion dates of the various stages of the Work, and a preliminary schedule of Shop Drawing submissions. See paragraphs 6.22 through 6.26. The ENGINEER shall review and return this schedule or require revisions thereto within 14 days of its submittal. If there is more than one CONTRACTOR involved in a project, the responsibility for coordinating the Work of all CONTRACTORS shall be as provided in the Special Conditions.

2.9 Within twenty (20) days after delivery of the executed agreement by OWNER to CONTRACTOR , but before starting the Work at the site, a preconstruction conference will be held to review the above schedules, to establish procedures for handling shop drawings and other submissions and for processing Applications for Payment, and to establish a working understanding between the parties as to the project. Present at the conference will be the OWNER or his representative, ENGINEER, Resident Project Representatives, CONTRACTOR and his Superintendent.

QUALIFICATION OF SUBCONTRACTORS MATERIALMEN AND SUPPLIERS:

2.10 Within ten (10) working days after bid opening, the CONTRACTOR will (if required) submit to the OWNER and the ENGINEER for acceptance a list of the names of Subcontractors and such other persons and organizations (including those who are to furnish principal items of material or equipment) proposed for those portions of the Work as to which the identity of the Subcontractors and other person and organizations must be submitted as specified in the Contract Documents. Within thirty (30) working days after receiving the list, the ENGINEER will notify the CONTRACTOR in writing if either the OWNER or the ENGINEER, after due investigation, has reasonable objection to any Subcontractor, person or organization on such list. The failure of the OWNER or the ENGINEER to make objection to any Subcontractor, person or organization on the list within thirty days of receipt shall constitute an acceptance of such Subcontractor, person or organization. Acceptance of any such Subcontractor, person or organization shall not constitute a waiver of any right of the OWNER or the ENGINEER to reject defective Work, material or equipment, or Work, material or equipment not in conformance with the requirements of the

Contract Documents.

ARTICLE 3 - CORRELATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS:

3.1 It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between the OWNER and the CONTRACTOR. They may be altered only by a Modification.

3.2 The Contract Documents are complementary; what is called for by one is as binding as if called for by all. If CONTRACTOR finds a conflict, error or discrepancy in the Contract Documents, he shall call it to the ENGINEER'S attention in writing at once and before proceeding with the Work affected thereby; however, he shall not be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Specifications or Drawings. The various Contract Documents shall be given precedence, in case of conflict, error or discrepancy, as follows: Agreement Modifications, Addenda, Special Conditions, Instructions to Bidders, General Conditions, Technical Specifications and Drawings.

3.3 The words "furnish, "furnish and install", "install", and "provide" or words with similar meaning shall be interpreted, unless otherwise specifically stated, to mean "furnish and install complete in place and ready for service.

3.4 Miscellaneous items and accessories which are not specifically mentioned, but which are essential to produce a complete and properly operating installation, or usable structure or plant providing the indicated function,shall be furnished and installed without change in the Contract Price. Such miscellaneous items and accessories shall be of the same quality standards including material, style, finish, strength, class, weight and other applicable characteristics, as specified for the major component of which the miscellaneous item or accessory is an essential part, and shall be approved by the ENGINEER before installation. The above requirement is not intended to include major components not covered by or inferable from the Drawings and Specifications.

3.5 The Work of all trades under this Contract shall be coordinated by the CONTRACTOR in such a manner as to obtain the best workmanship possible for the entire Project, and all components of Work shall be installed or erected in accordance with the best practices of the particular trade.

3.6 Manufacturer's literature, when referenced, shall be dated and numbered and is intended to establish the minimum requirements acceptable. Whenever reference is given to codes or standard specifications or other data published by regulating agencies or accepted organizations, including but not limited to National Electrical Code, applicable State Building Code, Federal Specifications, ASTM Specifications, various institute specifications, and the like, it shall be understood that such reference is to the latest edition including addenda in effect on the date of Bid.

3.7 Brand names where used in the Technical Sepcifications, are intended to denote the standard of quality required for the particular material or product. The use of a brand name item is to set a standard of quality and is not intended to restrict the Contractor from offering an equal item from other source(s) of supply. The term "equal" or "equivalent" when used in connection

with brand names, shall be interpreted to mean a material or product that is similar and equal in type, quality, size, capacity, composition, finish, color and other applicable characteristics to the material or product specified by trade name, and that is for the same use and capable of performing the same function, in the opinion of the ENGINEER, as the material or product so specified. Proposed equivalent items must be approved by ENGINEER before they are purchased or incorporated in the Work.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE CONDITIONS; REFERENCE POINTS:

Availability of Lands

4.1 The OWNER will furnish, as indicated in Contract Documents the lands upon which the Work is to be done, rights-of-way for access thereto, and such other lands which are designated for use of the CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the OWNER, unless otherwise specified in the Contract Documents. Other access to such lands or rights-of-way for the CONTRACTOR'S convenience shall be the responsibility of the CONTRACTOR. The CONTRACTOR will provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.2 The OWNER will, upon request, furnish to the BIDDERS copies of all available boundary surveys.

Subsurface Conditions:

4.3 The CONTRACTOR acknowledges that he has investigated prior to bidding and satisfied himself as to the conditions affecting the Work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electric power, roads and uncertainties of weather, river stages, tides, water tables or similar physical conditions at the site, the conformation and conditions of the grounds, the character of equipment and facilities needed preliminary to and during prosecution of the Work. The CONTRACTOR further acknowledges that he has satisfied himself as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done on behalf of the OWNER on the site or any contiguous site, as well as from information presented by the Drawings and Specifications made a part of this Contract, or any other information made available to him prior to receipt of Bids. Any failure by the CONTRACTOR to acquaint himself with the available information will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the Work. The OWNER assumes no responsibility for any conclusions or interpretations made by the CONTRACTOR on the basis of the information made available by the OWNER.

Differing Site Conditions

4.4 (a) The CONTRACTOR shall promptly, and before such conditions are disturbed, notify the OWNER in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this contract, or (2) unknown physical conditions at the site, of an unusual

nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract. The OWNER shall promptly investigate the conditions, and if he finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the contract modified in writing accordingly.

(b) No claim of the CONTRACTOR under this clause shall be allowed unless the CONTRACTOR has given the notice required in (a) above.

(c) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

ARTICLE 5 - BONDS AND INSURANCE:

Performance and Payment Bonds:

5.1 The contractor's attention is directed to the Information For Bidders.

Contractor's Liability Insurance:

5.2 The CONTRACTOR shall provide the OWNER with insurance certificates certifying that all required insurance is in force; and such insurance certificates shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without giving the OWNER advance notice by registered mail.

5.3 The CONTRACTOR agrees that if any part of the Work under the contract is sublet, he will require the Subcontractor(s) to carry insurance as required, and that he will require the Subcontractor(s) to furnish to him insurance certificates similar to those required by the OWNER in 5.1 above.

5.4 The CONTRACTOR agrees to add ENGINEER to insurance policy as additional insured.

Owner's Liability Insurance

5.4 The OWNER will be responsible for purchasing and maintaining his own liability insurance and, at his option, may purchase and maintain such insurance as will protect him against claims which may arise from operations under the Contract Documents.

Fire and Extended Coverage Insurance (Builders' Risk):

5.5 The CONTRACTOR shall maintain, as applicable, in an Insurance Company or Insurance Companies acceptable to the OWNER, Fire, Extended Coverage and Vandalism & Malicious Mischief Insurance on buildings and structures, while in the course of construction, including foundations, additions, attachments and all permanent fixtures belonging to and constituting a part of said buildings or structures. The policy or policies shall also cover machinery, if the cost of machinery is included in the Contract. The amount of insurance must at all times be at least equal to the actual cash value of the insured property. The policy shall be in the name of the

OWNER and the CONTRACTOR, as their interests may appear, and shall also cover the interests of all Subcontractors performing work.

5.6 The CONTRACTOR shall provide the OWNER with satisfactory evidence certifying that the foregoing insurance is in force; and such evidence shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without giving the OWNER advance notice by registered mail.

Cancellation and Re-Insurance:

5.7 If any insurance should be canceled or changed by the insurance company or should any insurance expire during the period of this Contract, the CONTRACTOR shall be responsible for securing other acceptable insurance to provide the coverage specified in this section to maintain continuous coverage during the life of this Contract.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES:

Supervision and Superintendence:

6.1 The CONTRACTOR will supervise and direct the Work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work. (Copies of written communications given to the Superintendent shall be mailed to the Contractor's home or office.)

Labor, Materials and Equipment:

6.2 The CONTRACTOR will provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. He will at all times maintain good discipline and order at the site.

6.3 The CONTRACTOR will furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, local telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of the Work.

6.4 All materials and equipment will be new, except as otherwise provided in the Contract Documents. When special makes or grades of material which are normally packaged by the supplier or manufacturer are specified or approved, such materials shall be delivered to the site in their original packages or container with seals unbroken and labels intact.

6.5 All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator or processors, except as otherwise provided in the Contract Documents.

Materials, Equipment, Products and Substitutions:

6.6 Materials, equipment and products incorporated in the Work must be approved for use before being purchased by the CONTRACTOR. The CONTRACTOR shall submit to the ENGINEER a list of proposed materials, equipment or products, together with such samples as may be necessary for him to determine their acceptability and obtain his approval, within ninety (90) calendar days after award of Contract. No request for payment for "or equal" equipment will be approved until this list has been received and approved by the ENGINEER.

6.6.1 Whenever a material, article or piece of equipment is identified on the drawings or Specifications by reference to brand names or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the Contract Documents by reference to brand names or catalog number, and if, in the opinion of the ENGINEER, such material, article, or piece of equipment is of equal substance and function to that specified, the ENGINEER may approve its substitution and use by the CONTRACTOR. Incidental charges or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the Contract Price, or Contract Time.

6.6.2 No substitute shall be ordered or installed without the written approval of the ENGINEER who shall be the judge of equality.

6.6.3 Delay caused by obtaining approvals for substitute materials will not be considered justifiable grounds for an extension of construction time.

6.6.4 Should any work or materials, equipment or products not conform with requirements of the Drawings and Specifications or become damaged during the process of the Work, such Work or materials shall be removed and replaced, together with any work disarranged by such alterations, at any time before completion and acceptance of the Project. All such work shall be done at the expense of the CONTRACTOR. (See paragraph 7.10)

6.6.5 No materials or supplies for the Work shall be purchased by the CONTRACTOR or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the Seller. The CONTRACTOR warrants that he has good title to all materials and supplies used by him in the Work.

Concerning Subcontractors:

6.7 The CONTRACTOR will not employ any Subcontractor, other person or organization of the types referred to in paragraph 2.10 (whether initially or as a substitute) against whom the OWNER or the ENGINEER may have reasonable objection, not will the CONTRACTOR be required to employ any Subcontractor against whom he has reasonable objection. The CONTRACTOR will not make any substitution for any Subcontractor who has been accepted by the OWNER and the ENGINEER, unless the ENGINEER determines that there is good cause for doing so.

6.8 The CONTRACTOR shall be fully responsible for all acts and omissions of his Subcontractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relationship between OWNER or ENGINEER and any Subcontractor or other person or organization having a direct contract with CONTRACTOR, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any Subcontractor or other person or organization, except as may otherwise be required by law. OWNER or ENGINEER may furnish to any Subcontractor or other person or organization, to the extent practicable, evidence of amounts paid to CONTRACTOR on account of specific Work done in accordance with the schedule of values.

6.9 The divisions and sections of the Specifications and the identifications of any drawings shall not control the CONTRACTOR in dividing the work among Subcontractors or delineating the Work to be performed by any specific trade.

6.10 The CONTRACTOR agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the OWNER.

6.11 All Work performed for the CONTRACTOR by a Subcontractor shall be pursuant to an appropriate agreement between the CONTRACTOR and the Subcontractor.

6.12 The CONTRACTOR shall be responsible for the coordination of the trades, Subcontractors and material men engaged upon his Work.

6.12.1 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the CONTRACTOR by the terms of these General Conditions and other Contract Documents insofar as applicable to the Work of Subcontractors, and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWNER may exercise over the CONTRACTOR under any provisions of the Contract Documents.

6.12.2 The OWNER or ENGINEER will not undertake to settle any differences between the CONTRACTOR and his Subcontractors or between Subcontractors.

6.12.3 If in the opinion of the ENGINEER, any Subcontractor on the project proves to be incompetent or otherwise unsatisfactory, he shall be replaced if and when directed in writing.

Patent Fees and Royalties:

6.13 The CONTRACTOR will pay all license fees and royalties and assume all costs incident to the use of any invention, design, process or device which is the subject of patent rights or copyrights held by others. He will indemnify and hold harmless the OWNER and ENGINEER and anyone directly or indirectly employed by either of them from and against all claims, damages, losses, and expenses (including attorneys' fees) arising out of any infringement of such rights during or after completion of the Work, and shall defend all such claims in connection with any alleged infringement of such rights.

6.14 The CONTRACTOR shall be responsible for determining the application of patent rights and royalties on materials, appliances, articles or systems prior to bidding. However, he shall not be responsible for such determination on systems which do not involve purchase by him of materials, appliances, and articles.

Permits:

6.15 The CONTRACTOR will secure and pay for all construction permits and licenses and will pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of his Bid. When such charges are normally made by the OWNER, there will be no charges to the CONTRACTOR. The OWNER shall assist the CONTRACTOR, when necessary, in obtaining such permits and licenses. The CONTRACTOR will also pay all public utility charges.

Laws and Regulations:

6.16 The CONTRACTOR will give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work. If the CONTRACTOR observes that the Specifications or Drawings are at variance therewith, he will give the ENGINEER prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate Modification. If the CONTRACTOR performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the ENGINEER, he will bear all costs arising therefrom; however, it shall not be his primary responsibility to make certain that the Drawings and Specifications are in accordance with such laws, ordinances, rules and regulations.

Taxes:

6.17 Cost of all sales and other taxes for which the CONTRACTOR is liable under the Contract shall be included in the Contract Price stated by the CONTRACTOR.

Record Drawings:

6.18 The CONTRACTOR will keep one record copy of all Specifications, Drawings, Addenda, Modifications, and Shop Drawings at the site in good order and annotated to show all changes made during the construction process. These shall be available to the Engineer and shall be delivered to him for the OWNER upon completion of the Project. It shall be used for this purpose only.

Safety and Protection:

6.19 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to:

6.19.1 All employees on the work and other persons who may be affected thereby.

6.19.2 All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site.

6.19.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

6.20 The CONTRACTOR will designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the CONTRACTOR'S superintendent unless otherwise designated in writing by the CONTRACTOR to the OWNER.

Emergencies:

6.21 In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the CONTRACTOR, without special instruction or authorization from the ENGINEER or OWNER, is obligated to act, at his discretion, to prevent threatened damage, injury or loss. He will give the ENGINEER prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved. If the CONTRACTOR believes that additional work done by him in an emergency which arose from causes beyond his control entitles him to an increase in the Contract Price or an extension of the Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

Shop Drawing and Samples:

6.22 After checking and verifying all field measurements, the CONTRACTOR will submit to the ENGINEER for review, in accordance with the accepted schedule of Shop Drawing submissions (see paragraph 2.9) copies (or at the ENGINEER'S option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of the CONTRACTOR. The data shown on the Shop Drawings will be complete with respect to dimensions, design criteria, materials of construction and the like to enable the ENGINEER to review the information as required.

6.23 The CONTRACTOR will also submit to the ENGINEER for review, with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and stamped with the approval of the CONTRACTOR, identified clearly as to material, manufacturer, any pertinent catalog numbers and the use for which intended.

6.24 At the time of each submission, the CONTRACTOR will in writing call the ENGINEER'S attention to any deviations that the Shop Drawings or sample may have from the requirements of the Contract Documents.

6.25 The ENGINEER will review with reasonable promptness Shop Drawings and samples, but his review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The review of a separate item as such will not indicate review of the assembly in which the item functions. The CONTRACTOR will make any corrections required by the ENGINEER and will return the required number of corrected copies of Shop Drawings and resubmit new samples until the review is satisfactory to the

ENGINEER. The CONTRACTOR shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections called for by the ENGINEER on previous submissions. The CONTRACTOR'S stamp of approval on any Shop Drawings or sample shall constitute a representative to the OWNER and the ENGINEER that the CONTRACTOR has either determined and verified all quantities, dimensions, field construction criteria, materials, catalogue numbers and similar data or he assumes full responsibility for doing so, and that he has reviewed or coordinated each Shop Drawings or sample with the requirements of the Work and the Contract Documents.

6.26 No Work requiring a Shop Drawing or sample submission shall be commenced until the submission has been reviewed by the ENGINEER. A copy of each Shop Drawing and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER.

6.27 The ENGINEER'S review of Shop Drawings or samples shall not relieve the CONTRACTOR from his responsibility for any deviations from the requirements of the Contract Documents unless the CONTRACTOR has in writing called the ENGINEER'S attention to such deviation at the time

of submission and the ENGINEER has given written approval to the specific deviation, nor shall any review by the ENGINEER relieve the CONTRACTOR from responsibility for errors or omission in the Shop Drawings.

Cleaning Up:

6.28 Site. The CONTRACTOR shall clean up behind the Work as much as is reasonably possible as the Work progresses. Upon completion of the Work,and before acceptance of and final payment for the Project by the owner, the CONTRACTOR shall remove all his surplus and discarded materials excavated material and rubbish from the roadways, sidewalks, parking areas, lawns and all adjacent property; shall clean his portion of Work involved in any building under this Contract, so that no further cleaning by the OWNER is necessary prior to his occupancy; shall restore all property, both public and private, which has been disturbed or damaged during the prosecution of the Work; and shall leave the whole in a neat and presentable condition.

6.29 Clean-up operations shall consistently be carried on by the CONTRACTOR at all times to keep the premises free from accumulation of waste materials and rubbish. Upon completion of the Work he shall remove all rubbish, tools, scaffolding, surplus materials, etc., and shall leave his work "broom clean", or its equivalent, unless more exactly specified elsewhere in the Contract. The General CONTRACTOR shall do the following special cleaning for all trades upon completion of the Work:

6.30 General. In case of dispute, the OWNER may remove the rubbish and charge the cost to the several contractors as the ENGINEER shall determine to be just.

Public Convenience and Safety:

6.31 The CONTRACTOR shall, at all times, conduct the Work in such a manner as to insure the least practicable obstruction to public travel. The convenience of the general public and of the residents along and adjacent to the area of the Work shall be provided for in a satisfactory manner, consistent with the operation and local conditions. "Street Closed" signs shall be placed immediately adjacent to the Work, in a conspicuous position at such locations as traffic demands. At any time that streets are required to be closed, the CONTRACTOR shall notify law enforcement agencies, fire departments, and parties operating emergency vehicles before the street is closed and again as soon as it is opened. Access to fire hydrants and other fire extinguishing equipment shall be provided and maintained at all times.

Sanitary Provisions:

6.32 The General CONTRACTOR shall furnish necessary toilet conveniences, secluded from public observation, for use of all personnel on the Work, whether or not in his employ. They shall be kept in a clean and sanitary condition and shall comply with the requirements and regulations of the Public Authorities having jurisdiction. He shall commit no public nuisance. Temporary sanitary facilities shall be removed upon completion of the Work and the premises shall be left clean.

Indemnification:

6.33 The CONTRACTOR will indemnify and hold harmless the OWNER and the ENGINEER and their agents and employees from and against all claims, damages, losses, and expenses including attorneys' fees arising out of or resulting from the performance of the Work, provided that any such claim, damage, loss, or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than Work itself) including the loss of use resulting therefrom and (b) is caused in whole or in part by any negligent act or omission of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

6.34 In any and all claims against the OWNER or the ENGINEER or any of their agents or employees, by any employee of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.33 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workmen's compensation acts, disability benefit acts or other employee benefit acts.

6.35 The obligations of the CONTRACTOR under paragraph 6.33 shall not extend to the liability of the Engineer's negligent acts, errors or omissions or those of his employees or agents.

Responsibility for Connecting to Existing Work:

6.36 It shall be the express responsibility of the CONTRACTOR to connect his Work to each part of the existing work or work previously installed as required by the Drawings and Specifications to provide a complete installation.

Work in Street, Highway and Other Rights-of-Way:

6.37 Excavation, grading, fill, storm drainage, paving and any other construction or installations in rights-of-way of streets, highways, public carrier lines, utility lines (either aerial, surface or subsurface), etc., shall be done in accordance with requirements of the special conditions. The OWNER will be responsible for obtaining all permits necessary for the work. Upon completion of the Work, CONTRACTOR shall present to ENGINEER certificates, in triplicate, from the proper authorities stating that the Work has been done in accordance with their requirements.

6.37.1 The OWNER will cooperate with the CONTRACTOR in obtaining action from any utilities or public authorities involved in the above requirements.

6.37.2 The ENGINEER shall be responsible for obtaining elevations of curbs and gutters, pavement, storm drainage structures, and other such items which must be established by governmental departments as soon as grading operations are begun on the site and, in any case, sufficiently early in the construction period to prevent any adverse effect on the Project.

Cooperation with Governmental Departments, Public Utilities, Etc:

6.38 The OWNER shall be responsible for making all necessary arrangements with governmental departments, public utilities, public carriers, service companies and corporations owning or controlling roadways, railways, water, sewer, gas, electrical, telephone, and telegraph

facilities such as pavements, tracks, piping, wires, cables, conduits, poles, guys, etc., including incidental structure connected therewith, that are encountered in the work in order that such items may be properly shored, supported and protected, or the CONTRACTOR may relocate them if he so desires. The CONTRACTOR shall give all proper notices, shall comply with requirements of such parties in the performance of his Work, shall permit entrance of such parties on the Project in order that they may perform their necessary work, and shall pay all charges and fees made by such parties for this work.

6.38.1 The CONTRACTOR'S attention is called to the fact that there may be delays on the Project due to work to be done by governmental departments, public utilities , and others in repairing or moving poles, conduits, etc. The CONTRACTOR shall cooperate with the above parties, in every way possible, so that the construction can be completed in the least possible time.

6.38.2 The CONTRACTOR shall have made himself familiar with all codes, laws, ordinances and regulations which in any manner affect those engaged or employed in the Work, or materials and equipment used in or upon the Work, or in any way affect the conduct of the Work, and no plea of misunderstanding will be considered on account of his ignorance thereof.

Use of Premises:

6.39 CONTRACTOR shall confine his apparatus, storage of materials, and operations of his workmen to limits indicated by law, ordinances, permits, and directions of ENGINEER and OWNER, and shall not unnecessarily encumber any part of site.

6.39.1 CONTRACTOR shall not overload or permit any part of any structure to be loaded with such weight as will endanger its safety, nor shall he subject any part of the Work to stresses or pressures that will endanger it.

6.39.2 CONTRACTOR shall enforce OWNER'S instructions in connection with signs, advertisements, fires and smoking.

6.39.3 CONTRACTOR shall arrange and cooperate with OWNER in routing and parking of automobiles of his employees, subcontractors and other personnel and in routing material delivery trucks and other vehicles to the Project Site.

Protection of Existing Property Improvements:

6.40 Any existing surface or subsurface improvements, such as pavements, curbs, sidewalks, pipes or utilities, footings or structures (including portions thereof), trees, and shrubbery not indicated on

the Drawings or noted in the Specifications as being removed or altered shall be protected from damage during construction of the Project. Any such improvements damaged during construction of the Project shall be restored to a condition equal to that existing at time of award of Contract.

Temporary Heat:

6.41 The General CONTRACTOR shall provide heat, fuel and services as necessary to protect all work and materials, within all habitable areas of permanent building construction, for all contracts against injury from dampness and cold until final acceptance of all work and materials for the Project, unless building is fully occupied by the OWNER prior to such acceptance, in which case the OWNER shall assume all expenses of heating from date of full occupancy. In areas outside those covered above, each prime contractor shall be responsible for providing such temporary heat, fuel and services as required to protect his work or shall make all necessary arrangements with the General CONTRACTOR for providing such temporary heat, fuel and services. Unless otherwise specifically permitted by Special Conditions, the permanent heating system shall not be used to provide temporary heat. CONTRACTOR'S proposed methods of heating shall be submitted for approval.

ARTICLE 7 - WORK BY OTHERS:

7.1 The OWNER may perform additional work related to the Project by himself, or he may let other direct contracts therefor which shall contain General Conditions similar to these. The CONTRACTOR will afford the other contractors who are parties to such direct contracts (or the OWNER, if he is performing the additional work himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of work, and shall properly connect and coordinate his Work with theirs.

7.2 If any part of the CONTRACTOR'S work depends for proper execution or results upon the work of any such other CONTRACTOR (or the OWNER), the CONTRACTOR will promptly report to the ENGINEER in writing any defects or deficiencies in such work that render it unsuitable for such proper execution and results.

7.3 The CONTRACTOR will do all cutting, fitting, and patching of his Work that may be required to make its several parts come together properly and fit it to receive or be received by such other work. The CONTRACTOR will not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of the ENGINEER and of the other contractors whose work will be affected.

7.4 If the performance of additional work by other contractors or the OWNER is not noted in the Contract Documents prior to the execution of the Contract, written notice thereof shall be given to the CONTRACTOR prior to starting any such additional work. If the CONTRACTOR believes that the performance of such additional work by the OWNER or others involves him in additional expense or entitles him to an extension of the Contract Time, he may make a claim therefore as provide in Articles 11 and 12.

7.5 Where practicable, the General CONTRACTOR shall build around the work of other separate contractors or shall leave chases, slots and holes as required to receive and to conceal

within the general construction work the work of such other separate contractors as directed by them. Where such chases, slots, etc., are impracticable, the work shall require specific approval of the ENGINEER.

7.6 Necessary chases, slots and holes not built or left by the General CONTRACTOR shall be cut by the separate contractor requiring such alterations after approval of the General CONTRACTOR. The General CONTRACTOR shall do all patching and finishing of his Work where cut by other contractors at the expense of such other contractors.

7.7 Cooperation is required in the use of site facilities and in the detailed execution of the Work. Each CONTRACTOR shall coordinate his operations with those of the other contractors for the best interest of the Work in order to prevent delay in the execution thereof.

7.8 Each CONTRACTOR shall keep himself informed of the progress of the work of other contractors. Should lack of progress or defective workmanship on the part of other contractors interfere with his operations, the CONTRACTOR shall notify the ENGINEER immediately. Lack of such notice to the ENGINEER will be construed as acceptance by the CONTRACTOR of the status of the work of other contractors as being satisfactory for proper coordination of his own work.

7.9 Each CONTRACTOR shall give notices of the progress of his work so as to allow other contractors adequate opportunity to properly direct and coordinate their work. The General Contractor shall give notices of the progress of his Work so that work of other contractors, when required to be concealed, may be placed before the general construction Work. All such notices shall be submitted to the ENGINEER with copies to other prime contractors on the Project sufficiently ahead of job progress to permit adequate time for the other prime contractors to coordinate their work.

7.10 The cost of extra work resulting from lack of notices, untimely notices, failure to respond to notices, defective work or lack of coordination shall be borne by the CONTRACTOR responsible for such lack of notices, etc.

ARTICLE 8 - OWNER'S RESPONSIBILITIES:

8.1 The OWNER will issue all communications to the CONTRACTOR through the ENGINEER.

8.2 In case of termination of the employment of the ENGINEER, the OWNER will appoint an engineer against whom the CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER. Any dispute in connection with such appointment shall be subject to arbitration, if mutually agreeable.

8.3 The OWNER will furnish the data required of him under the Contract Documents promptly and shall make payments to the CONTRACTOR promptly after they are due as provided in Article 14.

8.4 OWNER'S duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1, 4.4 and the Special Conditions.

Paragraphs 4.2 and 4.3 refer to OWNER'S identifying and making available to CONTRACTOR copies of surveys and investigation reports of subsurface and latent physical conditions at the site or otherwise affecting performance of the Work which have been relied upon by ENGINEER in preparing the Drawings and Specifications.

8.5 The OWNER'S responsibilities in respect of liability and property insurance are set forth in paragraph 5.4.

8.6 In addition to his rights to request changes in the Work in accordance with Article 10, the OWNER (especially in certain instances as provided in paragraph 10.4) will be obligated to execute Change Orders.

8.7 In connection with the OWNER'S right to stop Work or suspend Work, see paragraph 15.1. Paragraph 15.3 deals with the OWNER'S right to terminate services of the CONTRACTOR under certain circumstances.

8.8 The OWNER shall have the right to take possession of and use any completed or partially completed portions of the Work, notwithstanding the fact that the time for completing the entire Work or any portion thereof may not have expired; but such taking possession and use shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the Work, the CONTRACTOR shall be entitled to such extra compensation or extension of time or both, except by prior agreement, as the ENGINEER may determine. See paragraph 14.11.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION:

Owner's Representative:

9.1 The ENGINEER shall be the OWNER'S representative during the construction period. The duties and responsibilities and the limitations of authority of the ENGINEER as the OWNER'S representative during construction are set forth in Articles 1 through 17 of these General Conditions and shall not be extended without written consent of the OWNER and the ENGINEER.

9.1.1 The ENGINEER'S decision, in matters relating to aesthetics shall be final, if within the terms of the Contract Documents.

9.1.2 Except as may be otherwise provided in this contract all claims, counter-claims, disputes and other matters in question between the OWNER and the CONTRACTOR arising out of or relating to this agreement or the breach thereof will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the State in which the OWNER is located.

Visits to Site:

9.2 The ENGINEER will make periodic visits to the site to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents. He will not be required to make continuous on-site observations to check the quality or quantity of the Work. His efforts will be directed toward ascertaining on behalf of the OWNER that the completed Project will conform to the requirements of the Contract Documents. On the basis of his on-site observations as an experienced and qualified design professional, he will keep the OWNER informed of the progress of the Work and will endeavor to guard the OWNER against defects and deficiencies in the Work of contractors.

Clarifications and Interpretations:

9.3 The ENGINEER will issue with reasonable promptness such written clarification or interpretations of the Contract Documents (in the form of Drawings or otherwise) as he may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. If the Contractor believes that a written clarification and interpretation entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefor as provided in Articles 11 and 12.

Measurement of Quantities:

9.4 All Work completed under the Contract will be measured by the ENGINEER according to the United States Standard Measures. All linear surface measurements will be made horizontally or vertically as required by the item measured.

Rejecting Defective Work:

9.5 The ENGINEER will have authority to disapprove or reject Work which is "defective" (which term is hereinafter used to describe Work that is unsatisfactory, faulty or defective, or does not meet the requirements of any inspection, test or approval or has been damaged prior to final acceptance). He will also have authority to require special inspection or testing of the Work whether or not the Work is fabricated, installed or completed.

Shop Drawings, Change Orders and Payments:

9.6 In connection with the ENGINEER'S responsibility as to Shop Drawings and samples, see paragraphs 6.22 through 6.27, inclusive.

9.7 In connection with the ENGINEER'S responsibility for Change Orders, see Articles 10, 11, and 12.

9.8 In connection with the ENGINEER'S responsibilities in respect of Application for Payment, etc., see Article 14.

Resident Project Representative:

9.9 The OWNER or the ENGINEER will provide on-site representation sufficient to guarantee

that construction is in general compliance with the construction drawings and the contract specifications.

Decisions on Disagreements:

9.10 The ENGINEER will be the initial interpreter of the terms and conditions of the Contract Documents and the judge of the performance thereunder. In his capacity as interpreter and judge, he will exercise his best efforts to insure faithful performance by both the OWNER and the CONTRACTOR. He will not show partiality to either and shall not be liable for the result of any interpretation or decision rendered in good faith. Claims, disputes and other matters relating to the execution and progress of the Work or the interpretation of or performance under the Contract Documents shall be referred initially to the ENGINEER for decision; which he shall render in writing within a reasonable time.

9.11 Either the OWNER or the CONTRACTOR, if the other agrees, may file a claim in a court with local jurisdiction with respect to any such claim, dispute or other matter that has been referred to the ENGINEER, except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.11, However, no request for a claim of any such claim, dispute or other matter shall be made until the earlier of (a) the date on which the ENGINEER has rendered his decision or (b) the tenth day after the parties have presented their evidence to the ENGINEER if he has not rendered his written decision before that date. No request for a claim shall be made later than thirty (30) days after the date on which the ENGINEER rendered his written decision in respect of the claim, dispute or other matter as to which arbitration is sought; and the failure to request a claim within said thirty (30) days period shall result in the ENGINEER'S decision being final and binding upon the OWNER and the CONTRACTOR. If the ENGINEER renders a decision after judicial proceedings have been initiated, such decision may be entered as evidence but shall not supersede the judicial proceedings, except where the decision is acceptable to the parties concerned.

Limitations on Engineer's Responsibilities:

9.12 Neither the ENGINEER'S authority to act under this Article 9 nor any decision made by him in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the ENGINEER to the CONTRACTOR, any Subcontractor, any of their agents or employees or any other person performing any of the Work.

9.13 The ENGINEER will not be responsible for the construction means, methods, techniques, sequences or procedures, or the safety precautions and programs incident thereto, and he will not be responsible for the CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

9.14 The ENGINEER will not be responsible for the acts or omissions of the CONTRACTOR, or any Subcontractors, or any of his or their agents or employees, or any other person performing any of the Work.

ARTICLE 10 - CHANGES IN THE WORK:

10.1 Without invalidating the Agreement, the OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work; these will be authorized by Change Orders. Upon receipt of a Change Order, the CONTRACTOR will proceed with the Work involved. All such Work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, an equitable adjustment will be made as provided in Article 11 or Article 12. A Change Order signed by the CONTRACTOR indicates his agreement therewith.

10.2 The ENGINEER may authorize minor changes or alterations in the Work not involving extra cost and not inconsistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order. If the CONTRACTOR believes that any minor change or alteration authorized by the ENGINEER entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefor as provided in Articles 11 and 12.

10.3 Additional Work performed by the CONTRACTOR without authorization of a Change Order will not entitle him to an increase in the Contract Price or an extension of the Contract Time, except in the case of an emergency as provided in paragraph 6.21 and except as provided in paragraph 10.2.

10.4 The OWNER will execute appropriate Change Orders prepared by the ENGINEER covering changes in the Work to be performed as provided in paragraph 4.4, and Work performed in an emergency as provided in paragraph 6.21 and any other claim of the CONTRACTOR for a change in the Contract Time or the Contract Price which is approved by the ENGINEER.

10.5 It is the CONTRACTOR'S responsibility to notify his surety of any changes affecting the general scope of the Work or change in the Contract Price and the amount of the applicable bonds shall be adjusted accordingly. The CONTRACTOR will furnish proof of such adjustment to the OWNER.

ARTICLE 11 - CHANGE OF CONTRACT PRICE:

11.1 The Contract Price constitutes the total compensation payable to the CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the CONTRACTOR shall be at his expense without changing the Contract Price.

11.2 (a) The OWNER may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make any change in the Work within the general scope of the contract, including but not limited to changes:

(1) In the specifications (including drawings and designs);
(2) In the method or manner of performance of the work;
(3) In the Owner-furnished facilities, equipment, materials, services, or site; or
(4) Directing acceleration in the performance of the work.

(b) Any other written order or an oral order (which terms as used in this paragraph (b) shall include direction, instruction, interpretation or determination) from the OWNER, which causes any such change, shall be treated as a change order under this clause, provided that the CONTRACTOR gives the OWNER written notice stating the date, circumstances, and source of the order and that the CONTRACTOR regards the order as a change order.

(c) Except as herein provided, no order, statement, or conduct of the OWNER shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment hereunder.

(d) If any change under this clause causes an increase or decrease in the CONTRACTOR'S cost of, or the time required for, the performance of any part of the work under this contract, weather or not changed by any order, an equitable adjustment shall be made and the contract modified in writing accordingly: PROVIDED, HOWEVER, that except for claims based on defective specifications, no claim for any change under (b) above shall be allowed for any costs incurred more than 20 days before the CONTRACTOR gives written notice as therein required. And provided further, that in the case of defective specifications for which the OWNER is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the CONTRACTOR in attempting to comply with such defective specifications.

(e) If the CONTRACTOR intends to assert a claim for an equitable adjustment under this clause, he must, within 30 days after receipt of a written change order under (a) above or the furnishing of a written notice under (b) above, submit to the OWNER a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the OWNER. The statement of claim hereunder may be included in the notice under (b) above.

(f) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

11.3 The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

11.3.1 Where the Work involved is covered by unit prices contained in the Contract Documents by application of unit prices to the quantities of the items involved. Should the Work (by quantity) be increased or decreased by 15 per cent from that stipulated in the Contract Documents, the OWNER and the CONTRACTOR may request adjustment of the unit prices by negotiation. If negotiation fails to reach agreement, then either party may request arbitration for the volume in excess of the 15 per cent differential.

11.3.2 By negotiated lump sum.

11.3.3 The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the work plus a fixed amount to be agreed upon to cover the cost of general overhead and profit to be negotiated.

11.4 The term Cost of the Work means the sum of all costs necessarily incurred and paid by the CONTRACTOR in the proper performance of the Work. Except as otherwise maybe agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 11.5:

11.4.1 Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to salaries and wages plus the costs of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workmen's compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Sunday or legal holidays shall be included in the above to the extent authorized by OWNER.

11.4.2 Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and manufacturers field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

11.4.3 Payments made by CONTRACTOR to the Subcontractors for Work performed by Subcontractors. If required by OWNER , CONTRACTOR shall obtain competitive bids from Subcontractors acceptable to him and shall deliver such Bids to OWNER who will then determine with the advice of ENGINEER, which Bids will be accepted. If a subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work Plus a Fee, the cost of the Work shall be determined in accordance with paragraphs 11.4 and 11.5.

11.4.4 Costs of special consultants (including but not limited to, engineers, architects, testing laboratories, surveyors, lawyers and accountants) employed for services specifically related to the Work.

11.4.5 Supplemental costs including the following:

11.4.5.1 The proportion of necessary transportation, travelling and subsistence expenses of CONTRACTOR'S employees incurred in discharge of duties connected with the Work.

11.4.5.2 Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the

workmen, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of CONTRACTOR.

11.4.5.3 Rentals of all construction equipment and machinery and the parts thereof whether rented from CONTRACTOR or other in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the cost of transportation, loading, unloading, installation, dismantling and removal thereof--all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall end when the use thereof is no longer necessary for the Work.

11.4.5.4 Sales, use or similar taxes related to the Work, and for which CONTRACTOR is liable imposed by any governmental authority.

11.4.5.5 Deposits lost for causes other than CONTRACTOR'S negligence, royalty payments and fees for permits and licenses. Costs for permits and licenses must be shown as a separate item.

11.4.5.6 Losses, damages and expenses, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the execution of, and to, the Work, provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of Work for the purpose of determining CONTRACTOR'S fee. If however, any such loss or damage requires reconstruction and CONTRACTOR is placed in charge thereof, he shall be paid for his services a fee proportionate to that stated in paragraph 11.6.2.

11.4.5.7. The cost of utilities, fuel and sanitary facilities at the site.

11.4.5.8 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.

11.4.5.9 Cost of premiums for additional Bonds and Insurance required because of changes in the Work.

11.5 The term cost of the Work shall not include any of the following:

11.5.1 Payroll costs and other compensation of CONTRACTOR'S officers, executives, principals, (of partnership and sole proprietorships), general managers, engineers, architects, estimators, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in his principal or a branch office for general administration of the Work and not specifically included in the schedule referred to in subparagraph 11.4.1 -- all of which are to be considered administrative costs covered by the CONTRACTOR'S Fee.

11.5.2 Expenses of CONTRACTOR'S principal and branch offices other than his office at the site.

11.5.3 Any part of CONTRACTOR'S capital expenses, including interest on CONTRACTOR'S

capital employed for the Work and charges against CONTRACTOR'S for delinquent payments.

11.5.4 Cost of premiums for all bonds and for all insurance policies whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except as otherwise provide in subparagraph 11.4.5.9.)

11.5.5 Costs due to the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable including but not limited to, the correction of defective work, disposal of materials or equipment wrongly supplied and making good any damage to property.

11.5.6 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 11.4.

11.6 The CONTRACTOR'S Fee which shall be allowed to CONTRACTOR for his overhead and profit shall be determined as follows;

11.6.1 A mutually acceptable firm fixed price; or if none can be agreed upon,

11.6.2. A mutually acceptable fixed fee based on the estimate of the various portions of the Cost of the Work.

11.7 The amount of credit to be allowed by CONTRACTOR to OWNER for any such change which results in a net decrease in cost, will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the net shall be computed to include overhead and profit, identified separately, for both additions and credits.

11.8 Whenever the cost of any Work is to be determined pursuant to paragraphs 11.4 and 11.5, CONTRACTOR will submit in form prescribed by ENGINEER an itemized cost breakdown together with supporting data.

11.9 Allowances: It is understood that the CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be done by such materialmen, suppliers, or Subcontractors and for such sums within the limit of the allowances as the ENGINEER may approve. Upon final payment, the Contract Price shall be adjusted as required and an appropriate Change Order issued. The CONTRACTOR agrees that the original Contract Price includes such sums as he deems proper for costs and profit on account of cash allowances. No demand for additional cost or profit in connection therewith will be allowed.

11.9.1 These allowances shall cover the cost to the CONTRACTOR less any applicable trade discount, of the materials and equipment required by the allowance delivered at the site, and all applicable taxes.

11.9.2. The CONTRACTOR'S costs for unloading and handling on site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Price and not in the allowance.

11.9.3 Whenever the cost, as described in 11.9.1 above, is more than or less than the allowance, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order will recognize changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses, except that whenever unit price allowances are stipulated for brick, the Change Order will not include any cost as described in 11.5 above.

ARTICLE 12 - CHANGE OF THE CONTRACT TIME:

12.1 The Contract Time may only be changed by a Change Order. Any claim for an extension in the Contract Time shall be based on written notice delivered to OWNER and ENGINEER within ten days of the occurrence of the event giving rise to the claim. Notice of the extent of the claim with supporting data shall be delivered within forty-five days of such occurrence unless ENGINEER allows an additional period of time to ascertain more accurate data. All claims for adjustment in the Contract Time shall be determined by ENGINEER if OWNER and CONTRACTOR cannot otherwise agree. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.

12.2 The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of CONTRACTOR if he makes a claim therefor as provided in paragraph 12.1. Such delays shall include, but not be restricted to, acts or neglect by any separate contractor employed by OWNER, fires, floods, labor disputes, epidemics, abnormal weather conditions, or acts of God.

12.3 All time limits stated in the Contract Documents are of the essence of the Agreement. The provisions of the Article 12 shall not exclude recovery for damages (including compensation for additional professional services) for delay by either parties.

12.4 No claim for delay shall be allowed because of failure to furnish Drawings until two weeks after demand for such drawings and not then unless such claim be reasonable.

12.5 This article does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

ARTICLE 13 - GUARANTY:

13.1 The CONTRACTOR shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to

other parts of the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs or adjustments, in the Work that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

ARTICLE 14 - PAYMENTS AND COMPLETION:

Payments to Contractors:

14.1 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within sixty (60) days of presentation to him of an approved partial payment estimate, pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate. The OWNER may retain a portion of the amount otherwise due the CONTRACTOR. Except as State law otherwise provides, the amount the OWNER retains shall be limited to the following:

14.1.1 Withholding of not more than 10 per cent of the payment claimed until work is 50 per cent complete;

14.1.2 When Work is 50 per cent complete, reduction of the withholding to 5 per cent of the dollar value of all Work satisfactorily completed to date, provided that the CONTRACTOR is making satisfactory progress and there is no specific cause for greater withholding;

14.1.3 When the Work is substantially complete (operational or beneficial occupancy), the withheld amount shall be further reduced below 5 per cent to only that amount necessary to assure completion.

14.1.4 The OWNER may reinstate up to 10 per cent withholding if the OWNER determines, at its discretion, that the CONTRACTOR is not making satisfactory progress or there is other specific cause for such withholding.

Contractor's Warranty of Title:

14.2 The CONTRACTOR warrants and guarantees that title to all work, materials and equipment covered by an Application for Payment, whether incorporated in the Project or not, will have passed to the OWNER prior to the making of the Application for payment, free and clear of all liens, claims, security interests and encumbrances (hereafter in these General Conditions referred to as "Liens") and that no work, materials or equipment covered by an Application for Payment will have been acquired by the CONTRACTOR or by any other person performing the Work at the Site or furnishing materials and equipment for the Project, subject to an agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the CONTRACTOR or such other person.

Approval of Payments:

14.3 The ENGINEER'S approval of any payment requested in an Application for Payment shall constitute a representation by him to the OWNER, based on the ENGINEER'S on-site observations of the Work in progress as an experienced and qualified design professional and on his review of the Application of Payment and the supporting data, that the Work has progressed to the point indicated; That, to the best of his knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents and any qualifications stated in his approval), and that the CONTRACTOR is entitled to payment of the amount approved. However, by approving any such payment,the ENGINEER shall not thereby be deemed to have represented that he made exhaustive or continuous on-site observations to check the quality or the quantity of the Work, or that he has reviewed the means, methods, techniques, sequences, and procedures of construction or that he has made any examination to ascertain how or for what purpose the CONTRACTOR has used the moneys paid or to be paid to him on account of the Contract Price, or that title to any Work, materials, or equipment has passed to the OWNER free and clear of any Liens.

14.4 The CONTRACTOR shall make the following certification on each request for payment:
"I hereby certify that the labor and materials listed on this request for payment has been used in the construction of this work or that all materials included in this request for payment and not yet incorporated into the construction are now on the site or stored at an approved location; and payment received from the last request for payment has been used to make payments to all first tier subcontractors and suppliers except as listed below."

14.5 The ENGINEER'S approval of final payment shall constitute an additional representation by him to the OWNER that the conditions precedent to the CONTRACTOR'S being entitled to final payment as set forth in paragraph 14.11 have been fulfilled.

14.6 The ENGINEER may refuse to approve the whole or any part of any payment if, in his opinion, he is unable to make such representations to the OWNER. He may also refuse to approve any such

payment, because of subsequently discovered evidence or the results of subsequent inspections or tests nullify any such payment previously approved, to such extent as may be necessary in his opinion to protect the OWNER from loss because:

14.6.1 The Work is defective, or completed Work has been damaged requiring correction or replacement,

14.6.2 The Work for which payment is request cannot be verified,

14.6.3 Claims or Liens have been filed or there is reasonable evidence indicating the probable filing thereof,

14.6.4 The Contract Price has been reduced because of Modifications,

14,6,5 The OWNER has been required to correct defective Work or complete the Work in accordance with paragraph 13.1,

14.6.6. Of unsatisfactory prosecution of the Work, including failure to clean up as required by paragraphs 6.29 and 6.30,

14.6.7. Of persistent failure to cooperate with other contractors on the Project and persistent failure to carry out the Work in accordance with the Contract Documents,

14.6.8. Of liquidated damages payable by the CONTRACTOR or,

14.6.9. Of any other violation of, or failure to comply with, the provisions of the Contract Documents.

14.7 Prior to Substantial Completion, the OWNER, with the approval of the ENGINEER and with the concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the Work. Such use shall not constitute and acceptance of such portions of the Work.

14.8 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the Contract Documents. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the Work, or restoration of any damaged Work, except such as may be caused by agents or employees of the OWNER.

14.9 Upon completion and acceptance of the Work, the ENGINEER shall issue a certificate attached to the final payment request that the Work has been accepted by him under the conditions of the Contract Documents. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (60) days of completion and acceptance of the Work.

14.10 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the Work. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations

of nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made under the Contract Documents by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

Acceptance of Final Payment as Release**:**

14.11 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this Work and for every act and neglect of the OWNER and others relating to or arising out of this Work. Any payment however, final or otherwise, shall not release the CONTRACTOR or his sureties from any obligations under the Contract Documents or the Performance Bond and Payment Bonds.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION:

Owner May Suspend Work:

15.1 The OWNER may, at any time and without cause, suspend the Work or any portion thereof for a period of not more than ninety days by notice in writing to the CONTRACTOR and the ENGINEER which shall fix the date on which Work shall be resumed. The CONTRACTOR will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if he makes a claim therefor as provided in Articles 11 and 12.

Work During Inclement Weather:

15.2 No Work shall be done under these Specifications except by permission of the OWNER when the weather is unfit for good and careful work to be performed. Should the severity of the weather continue, the CONTRACTOR, upon the direction of the OWNER, shall suspend all work until instructed to resume operations by the OWNER and the Contract Time shall be extended to cover the duration of the order. Work damaged during periods of suspension due to inclement weather shall be repaired and/or replaced by the CONTRACTOR. Any compensation for repairs or replacements shall be subject to approval of the OWNER.

Owner May Terminate:

15.3 If the CONTRACTOR is adjudged bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the CONTRACTOR or for any of his property; or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or similar laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to Subcontractors or for labor, materials or equipment or he disregards laws, ordinances, rules regulations or orders of any public body having jurisdiction, or if he disregards the authority of the ENGINEER, or if he otherwise violates any provision of the Contract Documents, then the OWNER may without prejudice to any other right or remedy and after giving the CONTRACTOR and his surety seven days written notice, terminate the services of the CONTRACTOR and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the CONTRACTOR, and finish the Work by whatever method he may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR or the Surety will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER and incorporated in a Change Order.

15.4 Where the CONTRACTOR'S services have been so terminated by the OWNER, said terminations shall not affect any rights of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys by the OWNER due the CONTRACTOR will not release the CONTRACTOR from liability.

15.5 Upon seven days written notice to the CONTRACTOR and the ENGINEER, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the Project and terminate the Agreement. In such case, the CONTRACTOR shall be paid for all Work executed and any expense sustained plus a reasonable profit.

Removal of Equipment:

15.6 In the case of termination of this Contract before completion, for any cause whatever, the CONTRACTOR if notified to do so by the OWNER, shall promptly remove any part or all of his equipment and supplies from the property of the OWNER. Should the CONTRACTOR not remove such equipment and supplies, the OWNER shall have the right to remove them at the expense of the CONTRACTOR. Equipment and supplies shall not be construed to include such items for which the CONTRACTOR has been paid in whole or in part.

Contractor May Stop Work or Terminate:

15.7 If, through no act or fault of the CONTRACTOR, the Work is suspended for a period of more than ninety (90) days by the OWNER or under an order of court or other public authority, or the ENGINEER fails to act on any Application for Payment within thirty (30) days after it is submitted, or the OWNER fails to pay the CONTRACTOR any sum approved by the ENGINEER or awarded by arbitrators within thirty (30) days of its approval and presentation, then the

CONTRACTOR may, upon seven (7) days written notice to the OWNER and the ENGINEER, terminate the Agreement and recover from the OWNER payment for all Work executed and any expense sustained plus a reasonable profit. In addition and in lieu of terminating the Agreement, if the ENGINEER has failed to act on an Application for Payment or the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon seven (7) days notice to the OWNER and the ENGINEER stop the Work until he has been paid all amounts then due.

Owner Furnished Equipment:

15.8 In case the OWNER furnishes equipment to the CONTRACTOR to install, but fails to deliver it to the CONTRACTOR as required and in case such failure causes the CONTRACTOR additional expense or need for extension of time, the CONTRACTOR may make such claims upon the OWNER and obtain adjustments as provided herein.

Liquidated Damages:

15.9 If the CONTRACTOR shall fail to complete the work within the contract time, or extension of time granted by the OWNER, then the CONTRACTOR will pay to the OWNER the amount for liquidated damages as specified in the Contract Documents for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the Contract Documents.

ARTICLE 16 - DISPUTE SETTLEMENT:

16.1 All claims, disputes and other matters in question arising out of, or relating to, this Agreement or the breach thereof except for claims which have been waived by the making or acceptance of final payment as provided by paragraph 14.11, shall be decided in a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS:

17.1 Whenever any provision of the Contract Documents requires the giving of written notice it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to him who gives the notice.

17.2 If the OWNER fails to make payment thirty (60) days after approval by the ENGINEER, in addition to other remedies available to the CONTRACTOR, there shall be added to each such progress payment, interest at 1% per month commencing on the first day after said payment is due and continuing until the payment is received by the CONTRACTOR.

17.3 All Specifications, Drawings and copies thereof furnished by the ENGINEER shall remain his property. They shall not be used on another Project, and, with the exception of those sets which have been signed in connection with the execution of the Agreement, shall be returned to him on request upon completion of the Project.

17.4 The duties and obligations imposed by these General Conditions, and the rights and remedies available hereunder, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 6.36 and 14.3 and the rights and remedies available to OWNER and ENGINEER thereunder, shall be in addition to, and shall not be construed in any way as a limitation of, any rights and remedies available by law, by special guarantee or by other provisions of the CONTRACT DOCUMENTS.

17.5 Should the OWNER or the CONTRACTOR suffer injury or damage to its person or property because of any error, omission or act of the other or of any of his employee or agents or others for whose acts he is legally liable, claim shall be made in writing to the other party within a reasonable time of the first observance of such injury or damage.

17.6 The CONTRACT DOCUMENTS shall be governed by the law of the place of the Project.

Progress Charts and Requirements for Overtime Work

17.7 The CONTRACTOR shall within 5 days or within such time as determined by the OWNER after date of commencement of work prepare and submit to the OWNER for approval a practicable schedule, showing the order in which the CONTRACTOR proposes to carry on the work, the date on which he will start the several salient features (including procurement of materials, plans and equipment) and the contemplated dates for completing the same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion at any time. The CONTRACTOR shall enter on the chart the actual progress at such intervals as directed by the OWNER and shall immediately deliver to the OWNER three (3) copies thereof. If the CONTRACTOR fails to submit a progress schedule within the time herein prescribed, the owner may withhold approval of progress payment estimates until such time as the CONTRACTOR submits the required progress schedule.

If, in the opinion of the OWNER, the CONTRACTOR falls behind the progress schedule, the CONTRACTOR shall take such steps as may be necessary to improve his progress and the OWNER may require him to increase the number of shifts, or overtime operations, days of work, or the amount of construction plant, or update the progress schedule to reflect increased production for meeting the completion date, or all of them, and to submit for approval such supplementary schedule or schedules in chart form as may be deemed necessary to demonstrate the manner in which the agreed rate of progress will be regained, all without additional cost to the OWNER.

Failure of the CONTRACTOR to comply with the requirements of the OWNER under this provision shall be grounds for determination by the OWNER that the CONTRACTOR is not prosecuting the work with such diligence as will insure completion within the time specified. Upon such

determination the OWNER may terminate the CONTRACTOR'S right to proceed with the work or any separable part thereof in accordance with the clause of the contract entitled, "Termination for Default-Damages for Delay - Time Extensions.

Should the Contractor fail to complete the work within the specified time, or within any extra time allowed under these specifications, a sum of money, determined by the following schedule, shall be deducted from any funds due the Contractor, the Owner shall have the right recover the said sum or sums from the Contractor or from the surety, or from both. The amounts of these deductions are to cover the liquidated damages to the Owner incurred by additional or other expenses due to the failure of the Contractor to complete the work or any part of the work within the time specified, and such deductions are not to be considered penalties.

The damages indicated above shall be considered as liquidated damages for the loss to the Owner on account of the expense due to the employment of Engineers and their assistants and to any others expenses incurred after the expiration of the Contract time as determined by the Engineer.

MEASUREMENT AND PAYMENT

Measurement and payment for the following bid items shall be as described and shall include all material equipment, labor and testing to install and make operational a complete sewer system as detailed on the contract drawings and in these specifications.

FORCE MAIN

Payment for force main will include all labor equipment and materials to install force main as denoted on the construction plans and/or in the specifications. The item shall include all pipe fittings, trenching, bedding, marking tape, tracer wire, back fill, compaction and other items necessary to produce a functioning force main. Item shall be paid per installed and accepted linear foot.

SEWER MAIN (SDR-26), HDPE, OR OTHER

Payment for all sewer mains will be per linear foot for various diameter pipe measured from centerline of manhole to centerline of manhole in relation to the diameter of the pipe and the depth of cut as shown in the individual bid items.

STEEL CASING

Payment for steel casing will be per linear foot measured from end to end of casing along the centerline of pipe. Diameter and thickness shall be as noted in the plans and specifications. Bored or Open cut casing pipe shall include labor, equipment and materials to install bore at depth as shown on plans.

AIR RELEASE VALVE

The item shall include an air release valve with concrete manhole enclosure as required by the plans and specifications. The item shall be paid per each.

CONCRETE ENCASEMENT FOR SEWER LINE

Payment for concrete encasement for sewer line shall include furnishing and installing concrete to encase a proposed sanitary sewer line. Item shall include forming, material, haul, placement, compaction and testing necessary to meet the plans and specifications. Payment shall be per linear foot measured along the length of the sewer pipe and end of concrete. The item shall be paid per linear foot.

REMOVAL OF SEWER PIPE THROUGH EXISTING BOX CULVERT

Payment for removal of sewer pipe through existing box culvert shall be as indicated on the construction plans. The item shall include all labor, materials and equipment necessary to complete the item including proper patching of voids in the box culvert. The item shall be paid per linear foot.

MANHOLES

Payment for manholes will be per each and depth of manhole in appropriate depth bracket measured from lid of manhole to downstream invert. Depth shall be based on individual bid items.

DROP MANHOLE CONNECTION

Payment for drop manhole connection shall include furnishing and installing all hardware required to assemble a drop as detailed in the plans and specifications. Payment shall be per each.

DEMOLITION AND REMOVAL OF EXISTING MANHOLES

Payment for demolition and mobilization of existing manholes shall be as indicated on the construction plans. The item shall include the total removal of the manhole assembly and removal and disposal off site. The item shall include all disposal and transportation costs. The item shall be paid per each.

LIFT STATION

Item shall include all necessary labor, materials and equipment necessary to provide a functioning lift station based on the plans and specifications. The item shall include but not limited to clearing and grubbing, borrow material, crushed aggregate, concrete wet well, pumps, electrical, disconnect, valve pit, gages, service pole, meter box, lifting chain, guide rail, chain link fence with gates and other misc. equipment as required by the plans. The item shall be lump sum and paid as a percentage complete based on the engineer's determination at the time of the estimate.

SEWER SERVICE TEE

Payment for sewer service tee will be per each at the bid size. Price shall include all labor, materials and equipment necessary to install sewer service tee based on plans and specifications.

SANITARY SEWER SERVICE TAP

Payment for sanitary sewer service tap will be per each at the bid size. Price shall include all labor, materials and equipment necessary to install sanitary sewer service tap based on plans and specifications.

PVC SEWER SERVICE LINE

Payment for sewer service will be per linear foot for various diameter pipe measured from end of sewer tee to the fitting on the cleanout to the nearest whole foot. Item shall include all labor, equipment and materials necessary to install all equipment.

SEWER CLEANOUT

Payment for sewer cleanout will be per each to include all labor, materials and equipment at the bid size. Price shall reflect depth as necessary to provide sanitary sewer service to project area.

REMOVAL OF EXISTING SEPTIC TANK

Payment for abandonment septic tank shall be as indicated on the construction plans. The item shall include the removal of the septic tank lid and proper disposal of all components from the removal process. Necessary backfill required for the void shall be included in the item. Item shall include any necessary reconnection fittings or pipe to make the facility a fully functioning sanitary sewer service. The item shall include all labor, equipment and materials necessary for removal of existing septic tank. Bypass pumping shall be an absorbed portion of this item should it be necessary for the installation. The item shall be paid per each.

WATER SERVICE REPAIR

Payment for water service repair shall include all fittings, tubing, curb stop, corporation stop, tapping saddle and misc materials, labor and equipment to repair existing water services in conflict with construction or as directed by the engineer. Item shall be paid per each.

CRUSHED AGGREGRATE

Payment for crushed aggregate shall include furnishing and installing material as specified in the plans and specifications. Crushed aggregate shall be installed as a base material for the pavement repairs. Crushed aggregated may be used for a temporary riding surface. Temporary riding surface will be removed prior to pavement repairs and moved to another location as directed by the engineer at no additional cost to the project. Payment shall be per ton from certified scales.

SELECT FILL MATERIAL

Payment for select fill material will be based on loose vehicular measurement. Haul vehicles shall be measured and volumes calculated. It shall be the discretion of owner as to the overall percentage full of haul material. Item shall include material, haul, placement and testing necessary to meet the plans and specifications.

CONCRETE SIDEWALK REPAIR

Payment for concrete sidewalk repair shall include furnishing and installing sidewalk to match removed concrete sidewalk. Item shall include forming, material, haul, placement, compaction and testing necessary to meet the plans and specifications Item shall not be used for damage to sidewalk as a result of poor construction methods or neglect from the contractor. Payment shall be per square yard measured at the back of the curb.

CONCRETE PAVEMENT REPAIR

Payment for concrete pavement repair shall include furnishing and installing concrete pavement as specified in the plans and specifications. Item shall include forming, material, haul, placement compaction and testing necessary to meet the plans and specifications. Payment shall be per square yard.

ASPHALT PAVEMENT REPAIR

Payment for Hot Mix Asphalt shall include furnishing and installing asphalt pavement as specified in the plans and specifications. Item shall include material, haul, placement compaction and testing necessary to meet the plans and specifications. Payment shall be per square yard.

GROUTED RIPRAP

Payment for grouted rip rap shall include furnishing and installing filter fabric, grading, rock, grout, etc. as required by the plans and specifications. Item shall include all materials, labor and equipment. Payment shall be made by square yard based on the amount of material in place. Square yardage shall not include toe walls which will be included in the total project amount.

REMOVE AND RESET RIPRAP

Payment for removal and reset of grouted rip rap shall include furnishing and installing filter fabric, grading, additional rip rap, grout, etc. as required by the plans and specifications. Item shall include all materials, labor and equipment. Payment shall be made by square yard based on the amount of material in place. Square yardage shall not include toe walls which will be included in the total project amount.

REMOVAL OF EXISTING STEEL CASING

Payment for removal of existing steel casing shall be as indicated on the construction plans. The item shall include all labor, materials and equipment necessary to complete the removal item including proper disposal of steel casing. The item shall be paid per linear foot.

REMOVE AND REPLACE FENCE

Payment for removal of fence shall be per linear foot as measured along the existing fence prior to removal. Item shall include but not be limited to all labor, equipment, supplies and materials necessary to completely remove various types of existing fence, posts and concrete base if present, gates, wire and other hardware, and replace with a similar fence with similar components to match existing components as specified in the plans and specifications.

CONCRETE

Payment for concrete shall include furnishing and installing concrete with specified class as specified in the plans and specifications. Item shall include forming, material, haul, placement compaction and testing necessary to meet the plans and specifications. Item shall include reinforcing steel, grates, etc. as necessary and required. Payment shall be per cubic yard.

REMOVAL OF STORM SEWER PIPE

Payment for removal of storm sewer pipe shall be as indicated on the construction plans. The item shall include the total removal of cross drain and side drain pipe and removal and disposal off site. The item shall include all disposal and transportation costs. The item shall be paid per linear foot.

REINFORCED CONCRETE PIPE (R.C.P)

Payment for all drainage pipe will be per linear foot for various diameter pipe measured from end of pipe to end of pipe installed in relation to the diameter of the pipe.

CORRUGATED PLASTIC PIPE

Payment for corrugated plastic pipe shall be per linear foot as measured along the constructed pipe. Item shall include but not be limited to all labor, equipment, supplies and materials necessary to furnish, construct and install pipe, fittings, bedding, as specified in the plans and specifications.

CLEARING AND GRUBBING

Payment for clearing and grubbing shall include removal of all items within the required limits of construction necessary to complete the project based on the construction plans and specifications. Payment shall include off site removal of all items removed during clearing and grubbing. Item shall include all materials, labor and equipment necessary to meet the plans and specifications. Payment

shall be lump sum.

GRASSING

Payment for grassing work shall include furnishing and installing seeding, fertilizer, lime and other components required to establish permanent grassing. Grassing shall include final grading prior to installation of seeding materials. The unit measurement shall be lump sum and based on the percentage of area completed in full to date at time of estimate.

EROSION CONTROL

Payment for Erosion Control shall include furnishing, installing and maintaining wattles, silt fence or other measures as required by current Mississippi Department of Environmental Quality standards. Wattles and silt fence shall be installed and maintained to prevent erosion under or excess siltation within 24 hours of a rain event. The unit measurement shall be Lump Sum and shall include any required maintenance.

MOBILIZATION

Payment for mobilization shall enable contractor to assemble materials, equipment, etc. on site, to prepare for construction. The unit measurement shall be lump sum. Mobilization shall be paid 50 percent at 5 percent of construction complete and 100 percent at 25 percent of construction complete.

MAINTENANCE OF TRAFFIC

Payment for maintenance of traffic will be lump sum. Item shall include all materials, labor and equipment to maintain traffic based on the current MUTCD or as required by the engineer.

TECHNICAL SPECIFICATIONS

SANITARY SEWERAGE SYSTEMS

1.0 GENERAL

This item shall consist of furnishing all of the necessary materials, supervision, labor, tools, equipment and incidentals, and the installation of various types and sizes of sewer pipe and related items in accordance with the Contract Drawings and Specifications, as stated in the Proposal.

2.0 APPLICABLE PUBLICATIONS

The following publications form a part of this Specifications and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

A 139/139M Electric-Fusion (Arc) Welded Steel Pipe (HPS 4 inch and over).

A 252 Welded and Seamless Steel Pipe Piles.

C 31/C 31M Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field.

C 33 Specifications for Concrete Aggregate

C 39/C 39M Compressive Strength of Cylindrical Concrete Specimens.

D 1248 Polyethylene Plastics Extrusion Materials for Wire and Cable

D 1784 Rigid Poly(Vinyl Chloride)(PVC) Compounds and Chlorinated Poly (Vinyl Chloride)(CPVC) Compounds.

D 2412 Determination of External Loading Characteristics of Plastic Pipe by Parallel Plate Loading.

D 2922 Density of Soil and Soil Aggregate in place by Nuclear Methods (Shallow Depths).

D 3034 Specifications for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.

D 3212 Joints for Drain and Sewer Plastic Pipes using Flexible Elastomeric Seals.

F 477 Specifications for Elastomeric Seals (Gaskets) for Joining Plastic Pipe.

F 794 Poly (Vinyl Chloride)(PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

A21.10 Ductile Iron Fittings, 3 inch through 48 inch for Water and other Liquids.

A21.11 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

A21.50 Ductile Iron Pipe, Design Requirements

A21.51 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-lined Molds, for Water or other Liquids.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

C 104 Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water and Other Liquids.

C 106 Cast Iron Pipe Centrifugally Cast in Metal Molds, for water and other Liquids.

C 110 Ductile Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids.

C 111 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

C 151 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or other Liquids.

AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO)

T-88 Particle Size Analysis of Soils.

T-89 Determining the Liquid Limit of Soils.

T-90 Determining the Plastic Limit and Plasticity Index of Soils.

T-99 Moisture Density Relations of Soils Using a 5.5 lb. Rammer and 12 inch Drop.

T-191 Density of Soil In-Place by the Sand-Cone Method.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Standard Specifications for Road and Bridge Construction Current Edition.

3.0 SUBMITTALS

The following submittals shall be required for the respective materials used in the work. All submittals shall be submitted through the Contractor to the Engineer.

3.1 Ductile Iron Pipe: The following submittals shall be required for ductile iron pipe systems utilized on the project. The Contractor shall furnish manufacturer's certificates certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the submittals shall include the following:

A. Joints: The following shall be required for ductile iron joints.

1. Drawings or Manufacturer's Catalogue data indicating dimensions and tolerance.

2. Gaskets shall be tested in accordance with the respective standards as indicated in ANSI 21.11 and results shall be included in the submittals. Test shall be for similar materials on the gaskets and be not more than one year old.

3. Mechanical Joints: Should the Contractor elect to use mechanical joints in lieu of push-on joints, manufacturer's data shall be submitted in accordance with the "Special Requirements for the Mechanical Joint" as stated in ANSI 21.11 (AWWA C 111).

B. Ductile Iron Pipe Submittal Shall Include the Results of:

1. Tension Test
2. Impact Test
3. Low Temperature Impact Test

Sampling procedure shall be as indicated in ANSI 21.51.

3.2 PVC Pipe: The Contractor shall submit manufacturer's certificate certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the Contractor shall submit the following:

A. PVC Piping: PVC Pipe shall be sampled, tested, and inspected in accordance with the provisions of ASTM D3034. Copies of test results shall be attached. Test results shall be similar material and not be more than one year old from the date of material delivery.

B. Joints: The following submittals shall be required for PVC joints.

1. Certificate with test results for joints for compliance to ASTM D 3212. Gaskets shall conform to ASTM F 477. Test results shall be for similar material and not be more than one year old.

4.0 MATERIALS

4.1 Gravity Sewer Pipe: Where the type of gravity sewer piping is not indicated on the

plans, the Contractor shall furnish polyvinyl chloride (PVC) pipe.

The Contractor shall be restricted to furnishing the exact type of pipe material where indicated on the Contract Drawings.

The Contractor shall be limited to the use of only one type of pipe (so selected by the Contractor and indicated on the Proposal Form) and shall not change the type of gravity sewer pipe except as follows:

1. Where indicated on the plans, or

2. If permitted in writing by the Engineer.

A. Ductile Iron Pipe: Ductile iron shall be designed in accordance with the latest revision of ANSI/AWWA C150/A21.50 for a minimum 50psi.

Ductile Iron Pipe shall be manufactured in accordance with the latest revision of ANSI/AWWA C151/A21.51. Each pipe shall be subjected to a hydrostatic pressure test of at least 500 psi at the point of manufacture.

Pipe shall be standard asphaltic coating on the exterior. Pipe shall also have a Protecto 401 lining on the interior.

The class or nominal thickness, net weight without lining, and casting period shall be clearly marked on each length of pipe. Additionally, the manufacturer's mark, country where cast, year in which the pipe was produced, and the letters "DI" or "Ductile" shall be cast or stamped on the pipe.

All pipe shall be furnished with Push-On Type Joints, such at Tyton or Fastite. Joints shall be in accordance with ANSI/AWWA C111/A21.11, of latest revision, and be furnished complete with all necessary accessories.

Fittings shall be ductile iron. Fittings shall conform to the latest revision of either ANSI/AWWA C600.

B. PVC Pipe : PVC gravity sewer pipe and fittings shall conform to the requirements of ASTM D 3034 with an SDR of 26 and a minimum stiffness of 46 lb./in. - in and 115 lb./in. - in, respectively. Joints for sewer pipe shall be either push-up or mechanical conforming to the requirements of ASTM 3212. Gaskets for sewer pipe shall conform to the requirements of ASTM F 477.

Approved adaptors shall be used for making connections between PVC pipe and concrete manholes.

C. Service Laterals: Service laterals for local services shall consist of fittings, pipe lengths, and connections of 6 inch or 4 inch pipe. The fittings, pipe lengths and plugs shall be of

the same material as the run pipe unless otherwise indicated on the Contract Drawings. The modified sewer tees shall be an integral part of the run pipe. The remainder of the branch shall consist of standard fittings (elbows, reducers, and lengths of pipe) in accordance with the manufacturer's standard products and as specified. Pipe lengths and joint connections shall meet the specified requirements for the type materials used.

All service lines shall extend a maximum of up to 5 feet from house fronts of residences and public buildings and up to the property lines of businesses.

4.2 Casing Pipe: Steel pipe utilized as casing at locations shown on the Contract Drawings shall be new round piling pipe conforming to the requirements of ASTM A 252 or A 139. Casing diameter shall be adequate to allow pushing of the specified diameter of sewer pipe or force main and make proper connections at the ends. Minimum Wall Thickness for steel casing is 0.25 inch. (Hwy) and 0.28 inch (RR).

4.3 Wash Gravel Bedding Material: Select Granular material for pipe bedding shall be coarse concrete aggregate. The coarse concrete aggregate shall conform to the gradation sizing Number 467 specified in Table 2 of ASTM Standard Specification C-33. (See Following Table:)

SIZE NO. 467

Nominal Size (Sieves w/Square Openings)	Percent Passing by Weight
2"	100
1 - ½"	95 - 100
3/4"	35 - 70
3/8"	10 - 30
No. 4	0 - 5

4.4 Stabilization Material: Stabilization Material shall be a pit run mixture of sand and gravel. The sand shall be hard, sharp and durable particles. All gravel shall pass a 1 - ½" sieve.

4.5 Clay Gravel Material: Clay Gravel Material shall meet MDOT Standards Class 6, Group C.

4.6 Concrete: Concrete shall be in accordance with the requirements of Technical Specifications - CONCRETE

4.7 Select Backfill: General : The select material shall be composed of a natural or artificial mixture of sand, silt, clay or soil binder or other material of satisfactory cementing value. The sand shall be hard, sharp, and durable particles, preferably siliceous. The binder shall be a grade

of clay or other material having satisfactory cementing qualities and shall be homogenous in character, free from vegetable matter, clay balls or other deleterious substances that cannot be classed as serviceable base material.

A. Gradation: Any coarse aggregate contained in the material shall pass the one and one-half (1-1/2), sieve and not more than thirty-five percent (35%) shall be retained in the Number 10 sieve. The plasticity index (P.I.) shall not exceed 12, nor shall the liquid limit exceed 30.

The composite selected sand-clay material passing the Number 10 sieve shall conform to the following minimum and maximum gradation limits:

Sieve	Percent Passing by Weight
Number 40	40 - 85
Number 60	30 - 70
Number 270	8 - 30
Silt (.05 to .005 mm)	3 - 15
Clay (Passing .005 mm)	3 - 15

4.8 Backfill: All other backfill shall consist of excavated material removed from the trench unless otherwise directed by the Engineer. CONTRACTOR shall separate poor and acceptable material during excavation. Failure to separate material shall require CONTRACTOR to furnish acceptable backfill at no additional cost to the project.

5.0 CONSTRUCTION:

5.1 Earthwork:

A. Site Preparation: Topsoil shall be stripped and stockpiled in accordance with Technical Specifications - Restoration of Roads, Driveways, Fences, Lawns, and other Grassed Areas.

All vegetation such as brush, heavy sod, heavy growth of grass, decayed vegetative matter, rubbish and any other unsuitable material within the area of trenching shall be stripped or otherwise removed before the trenching is started, and in no case shall such objectionable material be allowed in the trench.

Stripping operation shall be to a depth of not less than 6 inches in all cases.

B. Asphalt or Concrete Removal: Before trenching operations begin, the existing asphalt or concrete pavement shall be scored or cut to a proper depth to give a straight verticle edge when removed. The asphalt or concrete shall be disposed of offsite by the Contractor. While removing the asphalt or concrete in the trench line, never shall the adjacent asphalt be raised or pulled from its base.

C. Trenching: The Contractor shall determine all requirements for trench dimensions,

alignment, and grades. The trench shall be excavated in conformance with all federal, state and local regulations for the protection of the workmen. Shoring, sheeting and/or a moveable form shall be used as required to provide earth stability during the laying operations.

The final excavation of the trench for the pipe installation shall be a indicated on the Plans. Minor variations in horizontal (within the permanent easement) or vertical alignment during construction shall be made during construction (with the Engineer's approval) to facilitate ease of installation and operation (due to potential conflicts; i.e., utility conflict) at no additional cost to the Owner except for additional piping, if any. The trench from the top of the pipe down to the bottom of the bedding shall be of a consistent width as indicated on the plans. Should the excavated width of the trench be larger than the design width, the Engineer may direct that a higher type or class of bedding be used; or other adjustments be made to increase the load carrying capacity of the pipe.

The Contractor shall not excavate more trench in advance of pipe laying than is necessary to perform the work efficiently. No more than 100 feet of open trench shall be allowed unless approved by the Engineer.

Excavated material shall be placed in a manner that will not obstruct sidewalks, driveways, or other structures. Excavated material shall not be placed so as to surcharge the walls and jeopardize trench stability.

If adequate area is not available on the construction site, the CONTRACTOR will be required to stockpile material off site Owner shall not bear any additional expense.

Ledge Rock, bolders and large stones shall be removed to provide a minimum clearance of 4 inches (10 cm) below and on each side of all pipes.

D. Disposal: The Contractor shall satisfactorily dispose of all excess earth from excavations either in approved (by the Engineer) areas within the construction limits or away from the project in disposal sites obtained by the Contractor.

The Contractor will be permitted to mound excess earth over the trench to a maximum depth of 12 inches above the original ground surface or finished grade where the trench is located in unimproved property. Wasting of excess excavated material will not be permitted within any road ROW. All material within the construction limits shall be placed so that natural drainage is maintained and the surface shall be graded to a smooth and uniform appearance. The disposal of waste and excess excavating materials, including hauling, handling, grading, and surfacing shall be subsidiary obligation of the contractor and no separate payment will be made. Therefore, the cost of such work shall be included in the Contract Unit Price for installation of sewer pipe.

E. Dewatering: The site shall be kept free of surface water at all times. The Contractor shall install drainage ditches and dikes and shall perform all pumping and other work necessary to divert or remove rainfall and other accumulations of surface water from the excavations. The

diversion and removal of surface water shall be performed in a manner that will prevent the accumulation of water behind temporary structures or at any other locations within the construction area where it may be detrimental. The Contractor shall provide, install, and operate sufficient trenches, sumps, pumps, hoses, piping, well points, deep wells, etc., necessary to depress and maintain the ground water level at least one foot below the base of the excavation during all stages of construction operations. The ground water table shall be lowered in advance of excavation and maintained a minimum of one foot below the lowest excavation subgrade made until the structure has sufficient strength and weight to withstand horizontal and vertical soil and water pressures.

Where groundwater is encountered, the Contractor shall make the effort necessary to secure a dry trench bottom before laying pipe. In sandy and in other suitable type soils, dewatering shall be done by well pointing. If, in the opinion of the Engineer, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Engineer may order the Contractor to excavate below grade and place not less than 6 inches of graded crushed stone fill material over the trench bottom to form trench drains to suitably located sumps and to remove the water by bailing or pumping. The graded crushed stone fill material shall be placed at the Contractor's own expense and shall be of such depth that there shall be not water in bell holes at the time of coupling pipe. All costs of equipment, labor, and materials required for dewatering shall be included in the pipe laying operation.

F. Bedding: The Contractor shall satisfactorily shape the trench area (to specified line, grade and cross section) to receive bedding material. The bottom of the trench shall be undisturbed soil. Should the Contractor over excavate the trench without direction from the Engineer, the trench shall be brought up to grade with select backfill and compacted to at least 90% of maximum laboratory density as measured by AASHTO T 99. Such additional work and materials for over excavation without direction of the Engineer shall be at the expense of the Contractor.

Holes for the bells shall be provided at each joint in the subgrade or in the granular fill bedding material as required. The holes shall be no larger than necessary for joint assembly and assurance that the pipe barrel will lie flat on the material. The Contractor shall install the proper bedding for the respective type of pipe and depth of installation as shown in the details and schedules on the plans. When depths vary in a particular manhole run, the Contractor shall change bedding systems in accordance with the depth installation requirements.

1. Stabilization Materials: When the subgrade is found to be unstable or to include ashes, refuse, organic material, or other unsuitable material, the Engineer may direct that the subgrade be over excavated to remove such material. The depths of over excavation shall be as directed by the Engineer. Stabilization material shall be placed into the over excavated area of the trench and shall be paid for in accordance with these specifications. Stabilization shall be compacted to at least 90% of maximum laboratory density in six inch lifts.

2. Bedding Materials: As detailed in the plans, bedding material shall be placed to the

specified depth below the pipe and tamped to a minimum of 90% of maximum laboratory density as determined in accordance with AASHTO T 99. Following placement of pipe, additional bedding material shall be placed and consolidated under the haunches of the pipe. Special tools shall be required to work the material into place and leave no voids beneath the pipe. The bedding material shall be tamped along the spring line (or along the top of the bedding material as indicated) of the pipe to sufficiently compact the material insofar as practical.

The Engineer may direct additional moisture be added to the bedding material to aid in the compaction effort. Mechanical tampers may be employed to aid the process. Depending on the particular bedding required , additional bedding shall be added and tamped to a minimum of 90% of maximum laboratory density, with AASHTO T-99.

3. Select Backfill: Select backfill shall be placed in 6 inch lifts and tamped to a minimum laboratory density with AASHTO T-99. Overall depth of the select backfill shall be as directed by the Engineer.

4. Normal Condition Bedding: Under normal conditions the trench bottom shall be undisturbed earth shaped to the specified line, grad, and cross section with proper bell holes at each joint to insure that pipe barrel lies flat on trench bottom. The bedding material will be selected native materials excavated from the trench and placed in two lifts. The first lift being placed up to the spring line of the pipe and extending out to the trench walls and hand tamped to a minimum of 90% of maximum laboratory density. Special care shall be used in placing and tamping bedding to insure no voids under the haunches of the pipe. The second lift shall extend to approximately 6" above pipe (Material permitting) and hand tamped to 90% density.

5. Backfilling: Upon completion of placement of select material the excavated materials shall be immediately placed back into the trench. Specific requirements are:

a Backfill requirements for road crossings, parking lots, driveways, and sidewalks shall be in accordance with Technical Specifications - RESTORATION OF ROADS,DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS.

b. Backfill requirements for unimproved areas (pastures, wooded areas) shall consist of placement and shaping of the soil in such a manner as to allow maximum natural consolidation. No compaction of the general backfill in the unimproved areas will be required, except that caused by conventional shaping equipment.

c. No debris shall be used as backfill which has a volume in excess of one-half of one cubic foot or a weight excess of 75 pounds.

6. Sheeting Removal: Wooden sheeting or other thick sheeting or shoring members which have been driven or otherwise placed along the trench walls to an elevation below the spring line of the pipe shall be cut off at the spring line or higher and left in place.

7. Grading and Grassing: Final grading and grassing shall be in accordance with

5.2 PIPE HANDLING AND STORAGE: Pipe shall be handled, staked, and stored in accordance with manufacturer's printed literature. The Contractor shall provide security as required to prevent damage by vandals. PVC pipe shall be shaded from sunlight for extended lengths of time. Pipe damaged during storage and handling shall be rejected.

5.3 PIPE LAYING: Pipe laying shall proceed upgrade with the spigot ends of the bell-and-spigot pipe and tongue ends of the tongue and groove pipe jointing in the direction of flow. Each pipe shall be laid true to line and grade and in such a manner as to form a close concentric joint with the adjoining pipe and to prevent sudden offsets of the flow line. As the work progresses, the interior of the sewer shall be cleared of all dirt and superfluous materials of every description. Where cleaning after laying is difficult because of small pipe size, a suitable swab or drag shall be kept in the pipe and pulled forward past each joint immediately after the jointing has been completed. Trenches shall be kept free of water and pipe shall not be laid when the condition of the trench or the weather is unsuitable for such work. At times when work is not in progress, open ends of pipe and fittings shall be securely and satisfactorily closed so that no trench water earth, or other substance will enter the pipe or fittings.

Pipe laying shall be performed in such a manner that no foreign material enters the pipe. The Engineer may require that before lowering pipe, heavy canvas bags be placed over each end, and left in place until joints are ready to be made. If water is in the trench, the seals shall remain in place until the trench is pumped completely dry. If conditions are unsuitable, no pipe shall be laid until satisfactory laying conditions are obtained in accordance with the above specified requirements.

The Contractor shall utilize a commercial grade laser beam specifically manufactured to aid in maintaining grade and alignment of pipelines during installation. The primary unit shall be mounted on a heavy duty base and firmly anchored in the downstream manhole of the reach under construction. The maximum distance shall not exceed four hundred feet (400') per set-up.

Each joint of pipe shall be installed using an approved target to align the pipe with the projected laser beam. The methods and procedures shall be in strict accord with the manufacturer's recommendations and instructions. Proper ventilation shall be maintained at all times. Care shall be exercised in order to prevent bumping or misalignment of the projected bean. Sewer lines shall be laid such that the installed variation of invert elevations when compared with the construction plans does not exceed 0.05 feet. Sewer lines in which said variation exceeds 0.05 feet may be rejected. Sewer pipe shall be visually inspected for alignment by lamping, televising or by other appropriate means to determine alignment.

Whenever a movable steel box is used in place of sheeting, the Contractor shall take care to prevent the pipe from moving when the steel box is moved.

5.4 PIPE JOINTING: Piping shall be jointed in accordance with the manufacturer's printed recommendations. Gaskets shall be firmly set within the bells and grooves as required. The manufacturer's recommended lubricant or an approved equal shall be applied for slip type joints.

A. PVC Pipe Joint Construction: The bell and spigot ends of PVC sewer pipe shall be cleaned of all foreign material that could interfere with proper assembly of the joints. The spigot ends shall be cleaned one inch (1") beyond the joint assembly reference mark.

The spigot end of the pipe shall be thoroughly lubricated in accordance with the manufacturer's recommendations. The coating should be the equivalent of a brush coat of enamel paint and maybe applied by hand, cloth, pad sponge or glove.

The lubricated spigot end shall be inserted into the bell keeping the pipe length in proper alignment. The bell shall be braced while the spigot end is pushed in under the rubber ring, so that previously competed joints in the line will not be closed up. The spigot end shall be pushed into the bell until the reference mark is flush with the end of the bell.

Generally, the installation and jointing of PVC Pipe shall conform to the requirement so the latest edition of ASTM D-2321, "Underground Installation of Flexible Thermoplastic Sewer Pipe".

B. Ductile Iron Pipe Joint Construction: The installation and jointing of ductile iron pipe and shall generally conform to the applicable provisions of AWWA Standard Specifications C-600 for pipe laying.

Where mechanical joint pipe is used, the surfaces which come in contact with the gasket shall be thoroughly brushed with a wire brush just prior to assembly. The gasket should be brushed with soapy water prior to installation to remove loose dirt and to lubricate gasket as it is forced into its retaining space.

When tightening bolts, it is essential that the gland be brought up toward the pipe flange evenly. The bolts should be partially tightened; the bottom bolt first, then the top; next the bolts on either side; and last , the remaining bolts. Overstressing of bolts to compensate for poor installation will not be permitted. Bolt torque shall be in accordance with manufacturer's specifications.

All joints of whatever type shall be completely water tight after being subjected to the required tests.

C. Jointing Dissimilar Pipes: Suitable adaptor couplings are required for connecting dissimilar pipes. The couplings shall be approved by the Engineer before installation.

5.5 STREAM CROSSING: Ductile iron pipe Class 50 shall be used as shown on the Drawings. Granular fill, concrete, and concrete collars shall be placed or constructed as shown on

the contract drawings.

5.6 SERVICE LATERALS (LINES): Modified sewer tees shall be installed on the run pipe at the appropriate field locations. Service lines of the sizes specified shall be laid to a uniform grade so that the customer being served can be tied-in using good construction practices. All tamping and backfilling operations shall be performed the same as on main line pipe. Removable plugs shall be securely installed in pipe ends and a 2" x 2" treated post extending 12" above the ground line shall mark the pipe end location.

5.7 BORINGS: Borings shall be accomplished in accordance with Mississippi State Highway Department or Railway Standards. The contractor shall provide all necessary sheeting, bracing, cribbing, supports and appurtenances to insure the proper line and grade throughout the entire length of the crossing.

A. Casing Pipe: Casing Pipe shall be installed as indicated on the Contract Drawings. Joints shall be completely welded to provide structural integrity and shall be water tight.

B. Carrier Pipe: Carrier pipe may be any of the allowed options of piping. However, the piping and joints shall be capable of withstanding the stress exerted by pushing the pipe within the casing.

C. Carrier Pipe Supports: Supports for the carrier pipe shall be as recommended by the manufacturer for such installation. Supports shall be spaced to adequately support the piping under surcharged sewage conditions.

D. Casing Seal: The annulus between the casing and carrier pipe shall be sealed at each end with a quick setting grout.

5.8 RELATION TO WATER MAINS:

A. Horizontal Separation: Whenever possible, sewers should be laid at least 10 feet, horizontally, from any existing or proposed water main. Should local conditions prevent a lateral separation of 10 feet, a sewer may be laid closer that 10 feet to a water main if:

1. It is laid in a separate trench.

2. It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth.

3. In either case the elevation of the crown of the sewer is at least 18 inches below the invert of the water main.

B. Vertical Separation: Whenever sewers must cross under water mains, the sewer shall be laid at such an elevation that the top of the sewer is at least 18 inches below the bottom of the

water main. When the elevation of the sewer cannot be buried to meet the above requirement, the water main shall be relocated to provide this separation or reconstructed with slip-on or mechanical-joint ductile iron pipe, or prestressed concrete cylinder pipe for a distance of 10 feet on each side of the sewer. One full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

C. Special Conditions: When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the water main should be constructed of slip-on or mechanical-joint ductile iron pipe. or prestressed concrete cylinder pipe and the sewer constructed of mechanical-joint ductile iron pipe and both services should be pressure tested to assure water tightness.

5.9 CONTINUATION OF SERVICE

The existing wastewater system shall remain in operation during the duration of the project. Should removal of facilities from operation become necessary, a plan which will avoid or minimize pollution effects on any receiving stream and provide alternate service for wastewater facilities shall be reviewed and approved in advance by the Mississippi Department of Environmental Quality and shall be adhered to during construction.

6.0 TESTING

6.1 Ductile Iron Pipe:

A. Field Inspection: The Engineer shall perform visual inspection of the material prior to placement by the Contractor. The Engineer may make non-destructive tests to determine the soundness of the pipe. The Contractor shall assist the Engineer in handling and moving the pipe as required.

B. Material Test: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittals. No other material test shall be required.

6.2 PVC PIPING: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittal. No other material test shall be required.

6.3 STEEL CASING PIPE: Material test shall be included as part the submittal. No other material test shall be required.

6.4. BEDDING MATERIAL AND STABILIZATION MATERIAL: Test for gradation and test for material passing the No. 40 sieve shall be as follows:

Gradation	-	AASHTO T 88
Liquid Limit	-	AASHTO T 89
Plasticity Index	-	AASHTO T 90

One set of each test listed above will be required for every 500 cubic yards or major fraction thereof.

6.5 COMPACTION TESTS: Compaction tests shall be performed in accordance with AASHTO T 191 or ASTM D 2922. Maximum compaction shall be determined in accordance with AASHTO T99. Compaction tests for sewer pipe related work shall not be less than as follows:

	(Number of Compaction Tests)
AASHTO T-99 AASHTO T-191 or ASTM D 2922 Select Backfill Material OR Stabilization Material One per 100 CY	1
Bedding Material One per 600 LF	2
Tamped Backfill One per 600 LF	2

6.6 INFILTRATION/EXFILTRATION TEST: The Contractor shall provide all plugs, water supply, measuring devices, and all other equipment, material, labor and supervision to measure the infiltration and exfiltration tests as specified below. The Contractor shall perform the test in the presence of the Engineer. All gravity sewer pipe shall be tested in accordance with the following applicable requirements.

A. Infiltration Test: The infiltration test shall be conducted between adjacent manholes. The outlet pipe on the downstream manhole shall be plugged and tested for water tightness to the satisfaction of the Engineer. The accumulated depth of water in the downstream manhole shall be read at 12 hour intervals for two (2) days and the infiltration rate calculated from the data obtained. Any section exceeding an infiltration rate of 200 gallons/day/inch diameter/mile shall be relayed at the Contractor's expense. This means that the Contractor shall locate and repair leaks as necessary to pass the infiltration test. Infiltration test shall be utilized only when ground water is above pipe.

B. Exfiltration Test: The exfiltration test shall be conducted between adjacent manholes. The inlet pipes in the downstream and upstream manholes shall be plugged. The line being tested shall be filled with water until water depth becomes two (2) feet above top of pipe being tested in the upstream manhole. The water loss shall be measured in the upstream manhole at 12

hour intervals for two (2) days and the exfiltration rate calculated from the data obtained. Any section exceeding an exfiltration rate of 200 gallons/day/inch diameter of pipe/mile shall fail the test. The Contractor shall locate and repair leaks as necessary to pass the exfiltration test. A low pressure air test conforming to ASTM C-828-80 or latest revision may be used in lieu of the exfiltration test.

6.7 DEFLECTION TESTS: 100% of the PVC gravity sewer shall be tested 30 days after the final backfill has been in place by the following method:

Use a "Go-, no-go" mandrel which is sized to such dimensions that it will not "go" when encountering a deflection greater than 5%. The instructions for its use are as follows:

A. Completely flush the line making sure the pipe is clean of any mud or debris that would hinder the passage of the mandrel.

B. During the final flushing of the line, attach a floating block or ball to the end of the mandrel, pull rope and float the rope through the line. (A) nylon ski rope is recommended)

C. After the rope is threaded through the line, connect the pull rope to the mandrel and place the mandrel in the entrance of the pipe.

D. Connect a retrieval rope to the back of the mandrel to pull it back if necessary.

E. By hand, remove all the slack in the pull rope and place a tape marker on the top at the end of the pipe where the mandrel will exit, determining the location of the mandrel in the line.

F. By hand, draw mandrel through the sewer lines. If any irregularities or obstructions are encountered in the line, they shall be corrected by the Contractor.

G. If a section with excessive deflection is found, locate it; dig down and uncover the pipe; if any damaged pipe is found, replace it; if pipe is not damaged, replace and thoroughly tamp haunching and initial backfill; replace remainder of backfill.

H. Re-test this section for deflection.

STANDARD SPECIFICATION

FOR LINING DUCTILE IRON PIPE

FOR SEWER SERVICE

1.0 Condition of Ductile Iron Prior to Surface Preparation

All ductile pipe and fittings shall be delivered to the application facility without asphalt, cement lining, or any other lining on the interior surface. Because removal of old linings may not be possible, the intent of this specification is that the entire interior of the ductile iron pipe and fittings shall not have been lined with any substance prior to the application of the specified lining material and no coating shall have been applied to the first six inches of the exterior of the spigot ends.

2.0 Lining Material

The Standard of Quality is Protecto 401 Ceramic Epoxy. The material shall be an amine cured novalac epoxy containing at least 20% by volume of ceramic quartz pigment. Any request for substitution must be accompanied by a successful history of lining pipe and fittings for sewer service, a test report verifying the following properties, and a certification of the test results.

A. A permeability rating of 0.00 when tested according to Method A of ASTM E-96-66, Procedure A with a test duration of 30 days.

B. The following test must be run on coupons from factory lined ductile iron pipe:
   1. ASTM B-117 Salt Spray (scribed panel) - Results to equal 0.0 undercutting after two years.
   2. ASTM G-95 Cathodic Disbondment 1.5 volts @ 77°F. Results to equal no more than 0.5mm undercutting after 30 days.
   3. Immersion Testing rated using ASTM D-714-87.
      a. 20% Sulfuric Acid - No effect after two years.
      b. 140°F 25% Sodium Hydroxide - No effect after two years.
      c. 160°F Distilled Water - No effect after two years.
      d. 120°F Tap Water (scribed panel) - 0.0 undercutting after two years with no effect.

C. An abrasion resistance of no more than 3 mils (.075mm) loss after one million cycles using European Standard EN 598: 1994 Section 7.8 Abrasion Resistance.

3.0 Application

A. **Applicator**

The lining shall be applied by a certified firm with a successful history of applying linings to the interior of ductile iron pipe and fittings.

B. **Surface Preparation**

Prior to abrasive blasting, the entire area to receive the protective compound shall be inspected for oil, grease, etc. Any areas with oil, grease, or any substance which can be removed by solvent, shall be solvent cleaned to remove those substances. After the surface has been made free of grease, oil or other substances, all areas to receive the protective compounds shall be abrasive blasted using sand or grit abrasive media. The entire surface to be lined shall be struck with the blast media so that all rust, loose oxides, etc., are removed from the surface. Only slight stains and tightly adhering oxide may be left on the surface. Any area where rust reappears before lining must be reblasted.

C. **Lining**

After the surface preparation and within 8 hours of surface preparation, the interior of the pipe shall receive 40 mils nominal dry film thickness of Protecto 401. No lining shall take place when the substrate or ambient temperature is below 40 degrees Fahrenheit. The surface also must be dry and dust free. If flange pipe or fittings are included in the project, the lining shall not be used on the face of the flange.

D. **Coating of Bell Sockets and Spigot Ends**

Due to the tolerances involved, the gasket area and spigot end up to 6 inches back from the end of the spigot end must be coated with 6 mils nominal, 10 mils maximum using Protecto Joint Compound. The Joint Compound shall be applied by brush to ensure coverage. Care should be taken that the Joint Compound is smooth without excess buildup in the gasket seat or on the spigot ends. Coating of the gasket seat and spigot ends shall be done after the application of the lining.

E. **Number of Coats**

The number of coats of lining material applied shall be as recommended by the lining manufacturer. However, in no case shall this material be applied above the dry thickness per coat recommended by the lining manufacturer in printed literature. The maximum or minimum time between coats shall be that time recommended by the lining material manufacturer. **To prevent delamination between coats, no material shall be used for lining which is not indefinitely recoatable with itself without roughening of the surface.**

F. **Touch-Up & Repair**

Protecto Joint Compound shall be used for touch-up or repair in accordance with manufacturer's recommendations.

4.0 Inspection and certification

A. **Inspection**

1. All ductile iron pipe and fitting linings shall be checked for thickness using a magnetic film thickness gauge. The thickness testing shall be done using the method outlined in SSPC-PA-2 Film Thickness Rating.
2. The interior lining of all pipe barrels and fittings shall be tested for pinholes with a nondestructive 2,500 volt test. Any pinholes found shall be repaired prior to shipment.
3. Each pipe joint and fitting shall be marked with the date of application of the lining system along with its numerical sequence of application on that date and records maintained by the applicator of his work.

B. **Certification**

The pipe or fitting manufacturer must supply a certificate attesting to the fact that the applicator met the requirements of this specification, and that the material used was as specified.

5.0 Handling

Protecto 401 lined pipe and fittings must be handled only from the outside of the pipe and fittings. No forks, chains, straps, hooks, etc. shall be placed inside the pipe and fittings for lifting, positioning, or laying. The pipe shall not be dropped or unloaded by rolling. Care should be taken not to let the pipe strike sharp objects while swinging or being off loaded. Ductile iron pipe should never be placed on grade by use of hydraulic pressure from an excavator bucket or by banging with heavy hammers.

MANHOLES

1.0 GENERAL:

This item shall consist of furnishing all materials, labor, supervision, tools, equipment and incidentals for the construction of standard manholes, in accordance with the Contract Drawings and Specifications. Included in the work are structural excavation, backfill, and disposal of excess material.

2.0 APPLICABLE DOCUMENTS:

The following publications form a part of this specification and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

American Society for Testing and Materials (ASTM)

A 48/A48M Standard Specification for Gray Iron Casting

C 39/C39M Standard Specification fo Test for Compressive Strength of Cylindrical Concrete Specimens

C 443 Standard Specification for Joints for Circular Concrete Pipe and Manholes Using Rubber Gaskets

C 478 Standard Specification for Precast Reinforced Concrete Manhole Sections

C 497 Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile

C 2922 Density of Soil and Soil Aggregate in Place by the Nuclear Method (Shallow Depths)

American Association of State Highway and Transportation Officials (AASHTO):

M-198 Standard Specifications for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

T-99 Standard Method of Test for the Moisture-Density Relations of Soils Using a (2.5kg) Rammer and (305 mm) Drop.

T-191 Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method.

3.0 SUBMITTALS

The following tests or data shall be submitted to the Engineer from the Contractor for approval prior to incorporation into the work:

3 .1 Certificates: The Contractor shall furnish certificates from supplier certifying the products conform to the required specifications included herein for the following items:

3.1.1. Flexible Plastic Gaskets
3.1.2. Precast Manhole Bases
3.1.3. Precast Manhole Riser Sections
3.1.4. Manhole Steps
3.1.5. Manhole Frames and Covers (ASTM A 48)
3.1.6. Epoxy Grout

3.2 Catalogue Cuts or Brochures: The Contractor shall also submit catalogue cuts or product brochures providing descriptive data, recommended application and use, and installation procedure for the following items:

3.2.1. Manhole Frames and Covers
3.2.2. Epoxy Grouts
3.2.3. Manhole Steps

4.0 MATERIALS

4.1 Manhole Riser Sections: Manhole riser sections shall be precast reinforced sections conforming to ASTM C 478 and as shown on the Contract Drawings.

4.2 Joints: Joints for precast riser sections shall be concrete pipe type flexible plastic gaskets. Joint material shall be preformed conforming the requirements of AASHTO M-198. Installation shall be in accordance with manufacturer's recommendations.

4.3 Concrete Manhole Bases: Concrete manhole bases shall be precast or cast-in-place as follows:

4.3.1 Cast-In-Place Manhole Bases and Box Type Bases (if used): Concrete and reinforcing steel shall conform to the requirements of Technical Specifications - CONCRETE.

4.3.2 Precast Concrete Bases: Precast concrete bases shall conform to the requirements of ASTM 478 with reinforcing steel (size and spacing as indicated on the plans).

4.4 Manhole Steps: Manhole steps shall be plastic coated corrosion resistant and shall be installed as shown on the Contract Drawings.

4.5 Cement Grout: Cement grout shall be high strength, non-metallic conforming to Corps of Engineers CRD-C-588. The grout shall be V-3 by W. R. Meadows, Inc., Masterflow 713 by Master Builders or equal.

4.6 Manhole Frame and Covers: Manhole frame and covers shall conform to ASTM A 48 as well as to the following requirements. All frame and covers shall be new when installed for the project.

4.6.1 Standard Manhole Cover and Frame - shall be as manufactured by Dews Foundry, Jackson Standard, Model DF-25 (7) or Vulcan Foundry, Model V-1115, 420 Pounds, marked "SEWER", domestic origin, or equal.

4.6.2 Water Tight Manhole Cover and Frame - shall be as manufactured by Vulcan Foundry, Model V2357, or Dews Foundry, Model DF-25(7)W.T., 410 pounds with neoprene gasket, four 5/8 inch stainless steel bolts recessed into cover. Cover labeled "SEWER", domestic origin, or approved equal.

4.7 Epoxy Grout: Epoxy Grout shall be high strength non-metallic, non-shrinking. The grout shall be as by EMBECO, Inc., SEAL-COAT or approved equal.

4.8 Drop Manholes: Concrete for drop manholes shall conform to the requirements of Technical Specifications - CONCRETE. Pipe and fittings shall be the same material and size as the incoming gravity sewer.

4.9 Flexible Connection: At all sewer connections to manholes, provide gasket flexible watertight connection that allows for differential settlement of the pipe and manhole wall.

4.10 All manholes: All manholes shall be lined inside with a sixteen (16) mil dry film thickness of an acceptable coal tax epoxy system.

5.0 CONSTRUCTION

5.1 Earthwork

5.1.1 General: Excavation shall be to the extent required to allow proper construction of the manhole. Shoring and sheeting shall be utilized where required by Federal, State and local codes and regulations for safe working conditions. In addition, shoring and sheeting shall be required to protect the integrity of adjacent structures or prevent adverse effects on surrounding areas. Dewatering shall be employed to the extent required to allow dry working conditions.

5.1.2 General Excavation: The Contractor shall "lay back" or employ shoring and

sheeting as required to assure stability of the excavation. Material shall be stockpiled so as not to surcharge adjoining pipe trenches. Topsoil shall be separated so as to allow the maximum reuse in grassing operations.

5.1.3 Structural Excavation: The area immediately beneath the manhole bases shall be graded and compacted. Compaction shall be to 96% of maximum laboratory density as determined by AASHTO T 99. Should unsuitable material be encountered, the Engineer may direct that the area be over excavated and filled with stabilization material. Specification for stabilization material and payment for such shall be in accordance with Technical Specifications.

5.1.4 Backfilling: Backfill material shall consist of select backfill in accordance with Technical Specifications. Backfilling shall be uniformly placed around the structure in 10-inch layers and be compacted to 90% of maximum density to full depth in unimproved areas. Backfill in paved areas and within five feet to any edge of pavement shall be compacted to 95% of maximum laboratory density in 8-inch layers to the subgrade line. Refer to Technical Sepcifications.

5.1.5 Salvage: Manhole frames and covers removed during excavation shall remain the property of the Owner and shall be delivered to a location designated by the Owner. All other items removed shall be disposed of by the CONTRACTOR at his expense.

5.2 Riser Installation: Precast concrete riser sections shall be installed plumb and in accordance with the details shown on the Contract Drawings. Joints shall be installed in accordance with manufacturer's recommendations.

The manhole invert channels shall be formed in the bases, smooth and semi-circular in shape conforming to the inside of the adjacent sewer section. Changes in the direction of flow shall be made with a smooth curve of as large a radius as the size of the manhole will permit. Changes in size and grade of the channels shall be formed directly in the concrete of the manhole base. The joint between the base and riser section shall be sealed with epoxy grout. Clean pea gravel shall be used as the epoxy grout filler.

Standard manhole cut-outs and lifting holes shall be sealed with epoxy grout.

5.3 Cast-In-Place Concrete: Bases, flat tops, and drop manhole risers shall be constructed in accordance with Technical specifications - CONCRETE.

5.4 Manhole Steps: Manhole steps shall be installed during the manufacturing of the riser or cone sections. Risers and cones shall be joined so the steps are vertically aligned.

5.5 Manhole Frame and Covers: Manhole frame and covers shall be set and grouted in place with cement grout. For manholes located in roads or streets, the manhole cover shall be flush with pavement or surface course.

6.0 TESTING

6.1 General: The Contractor shall conduct (and bear the cost of) all testing (Laboratory Approved by the Owner) as directed by the Engineer and furnish results of such tests prior to incorporating the material into the work. All testing is subsidiary to Manhole Payment Items.

6.1.1 Cast-In-Place Concrete Items: The concrete quality testing for manhole bases, drop manholes, and valve boxes shall be tested in accordance with Technical specifications - CONCRETE.

6.1.2 Manhole Risers and Precast Concrete Bases: Manhole risers and precast concrete bases shall be tested for concrete compressive strength. If the place of manufacture is local and reasonably available to the Engineer, Paragraph (a) shall be followed for testing requirements. Should the place of manufacture not be available, Paragraph (b) shall apply.

The contractor shall prepare (in the presence of the Engineer) standard rodded concrete cylinder or cylinders compacted and cured in a similar manner to the manhole sections. Concrete for such cylinders shall be typical fresh concrete mix drawn from the actual casting operation of a riser or base. Cylinders shall be tested in accordance with ASTM C 39. The average compressive strength shall be equal to or greater than the specified design strength (4000 psi). Not more than 10% of the cylinders shall fall below the design strength (4000 psi). In no case shall any cylinder tested fall below 3200 psi. Number of such cylinder tests shall be as follows:

6.1.2.1 One set of cylinders for each day's run castings or

6.1.2.2 One set of cylinders for each 200 linear feet of riser sections manufactured.

6.1.2.3 One set of cylinders per 20 bases or flat tops manufactured.

The Engineer may require additional tests should compressive test results fail.

6.1.3 Earthwork Test: Maximum laboratory density shall be measured in accordance with AASHTO T-99. Field densities shall be determined in accordance with AASHTO T-191 or ASTM D 2992. Standard proctors and field densities shall be performed in accordance with the following schedule.

Standard proctor tests shall be required for earthwork associated with manhole construction. At least two (2) field density tests shall be conducted for earth work associated with each manhole construction.

6.1.4 Inspection for Watertightness: All manholes shall be inspected for watertightness prior to placing into service.

RESTORATION OF ROADS, DRIVEWAYS, FENCES

LAWNS AND OTHER GRASSED AREAS

1.0 GENERAL

The work under this item of work shall consist of furnishing all necessary materials, labor, supervision, tools, equipment and incidentals for the restoration of roads, driveways, fences, lawns and other grassed areas so as to provide satisfactory repair to all damage caused by general construction work. It is the intent of this Specifications to restore all such features to the general conditions that existed prior to construction activity insofar as practical. It is not the intention of this Specification that trees, which must be cut and removed, be restored. The Contractor is expected to be familiar with the overall area and be satisfied as to the materials required and level of effort needed to accomplish such restoration in accordance with this Specification.

2.0 APPLICABLE PUBLICATIONS

The following publications form a part of this specification and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work:

American Association of State Highway and Transportation Officials (AASHTO).

T 99 Standard Method of Test for the Moisture Density Relations of Soils Using a 5.5 lg. (2.5 kg) Rammer and a 12-inch (305 mm) Drop.

T 167 Compressive Strength of Bituminous Mixture

T 191 Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method

T 230 Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures

American Society for Testing and Materials (ASTM)

D 2922 Density of Soil and Soil Aggregate in Place by the Nuclear Method (Shallow Depths)

Mississippi Department of Transportation (MDOT)

Standard Specifications for Road and Bridge Construction, Current Edition.

Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)

3.0 SUBMITTALS

3.1 Mix Designs: Design mix will be provided by Contractor and approved by Engineer prior to production of asphalt.

4.0 MATERIALS

4.1 Subbase and Base Courses: Subbase and base courses under paved areas shall be as specified in MDOT Specification Section 301.

4.2 Prime Coat: Prime coat shall consist of Grade MC-30 or Grade MS-70 in accordance with the applicable requirements of MDOT Specification Section 702.

4.3 Bituminous Pavement: Bituminous Pavement for roadway and parking areas, wearing and binder courses, shall consist of a mix in accordance with MDOT Specifications Section 403. Materials shall conform to the following subsection of MDOT Specifications Sections 702 and 703.

Bituminous Materials (AC-20)	702.01	Aggregate

A. BC-1 Binder Course

B. SC-1 for Surface Course Filler 703.14

C. Topsoil: Topsoil shall be in accordance with Technical Specifications – SEEDING AND SODDING.

E. Seeding and Sodding: Seeding and sodding operations shall be in accordance with Technical Specifications - SEEDING AND SODDING.

5.0 CONSTRUCTION

5.1 Maintenance of Traffic: Prior to limiting or restricting traffic on any street or road, the Contractor shall obtain permission from the Engineer. Through or local traffic shall at all times be accommodated by the use of temporary approaches, crossings or detours (if allowed by the

Engineer). Satisfactory (to the Property Owner) ingress and egress to any public or private property shall be properly maintained. Proper barricades, signs and detour signs shall be provided by the Contractor to adequately warn motorists of obstructions ahead. Lighted (flashing) barricades shall be used at night.

Flagmen shall be provided to direct traffic around equipment and for one way movement of traffic around equipment and for one way movement of vehicles. The Contractor may have to stop construction and restore full traffic during certain rush hours.

The Contractor shall at all times (unless otherwise permitted in writing by the Engineer) maintain open one lane to traffic during construction operations and restore roadways to two-way traffic during non-construction hours. All traffic shall be maintained in accordance with the MUTCD, current Edition.

5.2 Repair of Asphalt/Concrete Streets/Driveways/Parking Lots:

A. Removal and Earthwork: The existing asphalt pavement shall be uniformly saw cut on straight lines and the material shall be removed. Other methods of cutting the existing asphalt surface which will result in a uniform straightedge similar to a sawed cut may be acceptable. Upon completion of the pipe laying, select backfill shall be placed in the excavation in maximum 8-inch lifts and compacted to at least 90% of maximum laboratory density to within one foot of the top subgrade and to 95% of maximum laboratory density in the upper one foot of the subgrade.

Maximum density of typical select backfill material shall be determined in accordance with AASHTO T 191 or ASTM D 2922. Portable mechanical tampers or vibratory compactors shall be used in the trenches. Rollers may be used at street level. Existing base and asphalt surfaces which become undermined during construction shall be removed until firm undisturbed subgrade is reached.

A. Clay Gravel Base Course: Class 4, Group "B" as per 2006 Edition of Mississippi State Highway Department Road and Bridge Specification.

B. Asphalt Repair: Temporary Asphalt repair shall be made using 2" thickness of milled asphalt material.

C. Concrete Repair: Concrete repair shall be made using 3,000 psi concrete meeting Technical Specifications - CONCRETE

D. Prime Coat: Prime coat shall be applied to exposed existing base material prior to overlay with asphaltic base course in accordance with MDOT Specification Section 408.

F. Tack Coat: Tack coat shall be applied to existing or new asphaltic wearing course and asphaltic base, or concrete which is to require asphalt wearing course.

G. Asphalt Wearing Course: Placement and compaction of the bituminous pavement shall be in accordance with MDOT Specification Section 403.03.

E. Utilities: All utility covers excavated during removal of streets, driveways, parking lots shall be restored to finished grade.

5.3 Driveways and Sidewalks: Driveways and sidewalks shall be repaired in similar manner to the original construction. Asphalt drives shall be saw cut where required and repaired in accordance with Paragraph (b) of this Specification. Concrete drives shall be saw cut or removed to the next joint. The minimum thickness for concrete driveway repair is 6 inches and for sidewalks is 4 inches.

Concrete surfaces shall be properly tooled and receive a broom finish. Installation (if required) of new driveway drainage culvert shall be made only at the direction of the Engineer. The Contractor shall take all reasonable precautions to allow for reuse of existing drainage culverts.

5.4 Repair to Gravel Roads: Gravel roads shall be backfilled and compacted in accordance with Paragraph (B) of this Specification. The final surface shall consist of 12-inch in-place compacted clay gravel. Compaction shall be to 100% of maximum laboratory density in accordance with AASHTO T99.

5.5 Repair to Lawns:

A. General: The Contractor shall exercise extreme care to minimize damage to improved lawns. Trees and shrubs within the limits of work shall be removed only for essential construction requirements. Any shrubs, which are removed or damaged, shall be replaced by satisfactory (to the Property Owner) planting by the contractor. Any grass seed areas, roads, streets, driveways, culverts, fences, water lines, metal boxes or other items (excluding trees unavoidably cut) which are damaged by the Contractor, shall be satisfactorily restored by Contractor. Acceptance of improved lawn repairs shall be based on the firm establishment of live stand of grasses and live growth of any replanted and acceptable shrubs. The Contractor shall water and fertilize such areas until healthy growth of grass (and shrubs, if applicable) are attained.

B. Grading: The surface areas shall receive finish grading so the finish topsoil surface (after settlement) will meet the existing contour grade of the area prior to construction. The natural drainage during and after construction shall not be altered so as to cause adverse effects to adjoining properties.

C. Topsoil: The Contractor shall strip topsoil and sod and stockpile for later use. Upon completion of trenching over the area. Additional topsoil shall be furnished if required (at no additional cost) to provide a uniform thickness of 3 inches. Lime at a rate of 1 - ½ tons per acre and fertilizer (13-13-13) at a rate of 800 pounds per acre shall be applied as needed to further

establish grass growth.

D. <u>Grassing:</u> Grass seed, sprigs, or sod similar to the existing lawn grasses shall be planted in accordance with the supplier's recommendations. Winter cover grasses such as rye grass shall be applied (in addition to planting the permanent grasses) if seeding, sprigging, or sodding is done at a time of year when the permanent grasses will not actively grow. The type (s) of permanent grasses shall be the same as the grass (es) in the damaged lawns. If the lawn repairs are accomplished between September 1 and March 1, the Contractor shall continue the restoration work during the next period of March 15 and April 5 and mow the grass and continue the restoration until satisfactory growth of the permanent grass (es) is obtained. Such additional restoration work shall include the 1 - ½ tons of lime per acre, application of 13-13-13 fertilizer at a rate of 800 pounds per acre and replanting and watering permanent grass as necessary to obtain satisfactory (to Engineer) growth. No time will be charged against the Contract Time for any such additional restoration work.

Sodding: Sodding shall be in accordance with Technical Specifications: - Seeding and Sodding

5.6 <u>Erosion Control:</u> During all phases of construction, the Contractor shall adequately protect all work from adverse erosion. Soil shall not be allowed to flow off the limits of work area. The Contractor shall employ the use of ditch checks, matting, temporary grass cover, blankets, or other measures to control erosion. The Contractor shall be responsible to correct damage caused by erosion. During the construction of this project, all work areas will be strictly monitored. All trench lines will be kept in excellent condition, all streets and drives will receive careful maintenance, keeping potholes and settled areas filled in. Dust control is essential and will also be strictly monitored.

5.7 <u>General Grassing of Unimproved Areas</u>

A. <u>General:</u> The Contractor shall seed and establish grass growth in all disturbed areas in unimproved areas (to include pastures and roadsides). Acceptance of the grass cover shall be based upon the firm establishment of a live stand of grass. The contractor shall water such grass if natural rainfall rails to adequately provide moisture. On slopes and other areas subject to erosion, grassing shall be accomplished as soon as practical (within 48 hours unless weather is prohibiting) after finish grading operations.

B. <u>Grading:</u> The surface area shall receive finish grading so the finish topsoil surface (after settlement) will meet the existing contour grade of the area prior to construction. The natural drainage during and after construction shall not be altered so as to cause adverse effects to adjoining properties.

C. <u>Topsoil:</u> The Contractor shall remove existing topsoil and stockpile for later use. Upon completion of backfilling (to establish contours as before construction), the topsoil shall be uniformly spread back over the area. The Engineer may require additional topsoil be furnished by the Contractor, if in the opinion of the Engineer, adequate provisions and efforts

were not made by the Contractor to stockpile and re-use existing topsoil material.

D. Fertilizer and Agricultural Limestone: The Contractor shall uniformly apply 800 lbs. per acre of 13-13-13 fertilizer and also apply two (2) tons per acre of agricultural limestone to the area to be seeded. The fertilizer and limestone shall be tilled into the soil to a depth of four (4) inches.

Seeding: Seed shall be uniformly sown in accordance with Technical Specification - Seeding and Sodding

Sodding: Sod shall be place in accordance with Technical Specification - Seeding and Sodding

E. Mulch Cover: Erosion prone areas such as steep slopes and highway shoulders shall receive a layer of loose straw mulch or equivalent at the rate of one and one-half (1-1/2) tons per acre. The mulch cover shall be established by the application of an emulsified asphalt or by "crimping" parts of the material into the soil.

5.8 Miscellaneous Items: Items such as fences, gates, paved ditches, and other items shall be replaced or repaired as required for restoration. Should additional fencing material be required, new post and new wire of similar size, type and gauge shall be provided and installed.

5.9 General Care: Reasonable care shall be taken during construction to avoid damage to vegetation. Ornamental shrubbery and tree branches shall be temporarily tied back, where appropriate, to minimize damage. Trees, which do not have to be removed in the opinion of the Engineer, and which receive damage to branches shall be trimmed of those branches to improve the appearance of the tree. Tree trunks receiving damage from equipment shall be treated with a tree dressing.

6.0 TESTING

6.1 General: All sampling and testing shall be accomplished by the testing laboratory approved by the Owner and employed by the Contractor to perform such services. Results shall be
immediately forwarded to the Engineer by the Contractor.

6.2 Earthwork: Earthwork directly involved with road and street repair shall be tested as follows:

A. Moisture Density Relationship (Standard Proctors): Two tests of sampled native material shall be required. Tests shall be in accordance with AASHTO T 99.

B. **Field Density:** A minimum of two and a maximum of four field density tests shall be required. Density tests shall be in accordance with AASHTO T 191 or ASTM D 2922.

C. **Topsoil:** Two pH tests and two organic content tests (wet combustion method) will be required.

CONCRETE

1. GENERAL

A. This item shall consist of furnishing all materials, labor, supervision, tools, equipment and incidentals and performing all forms of work; furnishing and placing reinforcement, inserts and anchors; mixing, placing, curbing, and furnishing of portland cement concrete.

B. The work includes, but is not necessarily limited to manholes, pumping stations, lift stations and minor concrete work.

2. APPLICABLE DOCUMENTS

The following publications form a part of this Specification and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publication referenced shall apply to the work.

A. American Society for Testing and Materials (ASTM):

A 615	Billet Steel for Concrete Reinforcement
C 31/C 31M	Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field
C 33	Specifications for Concrete Aggregates
C 39/C 39 M	Compressive Strength of Molded Concrete Cylinders
C 143	Slump of Portland Cement Concrete
C 150	Portland Cement

B. Mississippi Department of Transportation (MDOT):

Standard Specifications for Road and Bridge Construction Current Edition.

3. SUBMITTALS:

The following data shall be submitted to the Engineer for review prior to incorporation into the work:

A. Letter from the manufacturer certifying the concrete mix conforms to the requirements for Class

B concrete as defined in Section 804 of the MDOT Standard Specifications for Road and Bridge Construction.

B. Letter of certificate from the manufacturer certifying that the reinforcing steel conforms to the herein specified requirements.

4. MATERIALS:

A. General: The concrete shall be ready-mix concrete manufactured by a plant for delivery to the site of the work in a plastic state. The Contractor may batch the concrete at the work site by use of portable mixers providing the following requirements are met:

1. Facilities shall be provided to properly weight, proportion and control the components of the concrete mix.

2. The mixer(s) shall be of such capacity so as to allow the complete placement of the plastic concrete mix prior to the initial set of any portion of the particular concrete pour.

B. Concrete Mix: The concrete materials and mix design, shall conform to the requirements for Class B concrete Section 804, MDOT Standard Specifications for Road and Bridge Construction. The compressive strength of the concrete shall be a minimum of 3000 psi at 28 days, or earlier. Type I Portland Cement shall be used in the mix, except where otherwise specified or permitted. Prior to producing any concrete for cast-in-place construction on the project, the Contractor shall submit to the Engineer the proposed mix design and shall obtain Engineer's approval of the mix design.

C. Reinforcing Steel - shall be new stock, deformed bars conforming to ASTM A 615, Grade 40 or Grade 60.

D. Curing Material - shall consist of wetted burlap, wetted cotton mats, plastic sheeting, or an approved liquid membrane material which will satisfactorily keep the new concrete in a moist condition for at least seven (7) days.

5. CONSTRUCTION:

A. Weather Limitations: Concrete shall be placed when the atmospheric temperature is a minimum of thirty-five (35) degrees F. and rising. Newly placed concrete shall be protected from cold temperatures for at least four (4) days at a temperature of not less than forty (40) degrees F.

B. Forms: Forms shall be securely anchored in place and properly aligned. Wood forms shall be oiled prior to placement of fresh concrete mix.

C. Reinforcement: Reinforcing bars shall be securely mounted by the use of chairs or other approved methods so as to not become displaced during placement of concrete mix. The positioning of reinforcing by working the bars into the newly placed concrete mix shall not be allowed.

D. Placement: The plastic concrete mix shall be worked (and vibrated if required) into the form work. The mix shall be consolidated so as to remove all voids and finished to form a true and level surface.

E. Curing: The hardened concrete shall be kept moist by the use of curing materials for a minimum of seven (7) days.

F. Slump Requirements: The following slump requirement shall apply:

Class B Concrete 2-4 Inches

G. Chamfered Corners: All exposed corners shall be chamfered one (1) inch or as indicated.

H. Finish:

1. All surfaces shall be "floated" to provide a uniform and level surface. Defects (honeycombs, ties, etc.) shall be repaired. No rubbing shall be required.

2. Sidewalks, driveways and other surfaces subject to pedestrian traffic shall be floated as noted in paragraph 1 above and shall receive a "broom" finish.

6. TESTING

The following test shall be required:

A. Slump: The Engineer shall test the concrete mix for conformance to the slump requirements as required. Test shall be in accordance with ASTM C 143.

B. Compressive Strength: The Engineer shall sample the concrete mix and prepare test cylinders for conformance to the compressive strength requirements. The Contractor shall transport the cylinders to the testing laboratory (employed by the Contractor) and have the cylinders tested in accordance with ASTM C 31 and C 39. The results of such test shall be forwarded to the Engineer. Test shall be performed at the following schedule.

One test per 15 cubic yards or major fraction thereof. A minimum of one test for each day of mixing shall be performed.

SEEDING AND SODDING

1.0 DESCRIPTION

This item consists of furnishing all labor, supervision, materials, tools, incidentals and equipment and performing all work for topsoiling, tilling, fertilizing, seeding, watering, and otherwise establishing, protecting and maintaining seeded and sodded areas as required by the Contract Drawings and these specifications, and including repair, refertilizing and reseeding as required until final inspection and acceptance of the project.

2.0 SUBMITTALS

Certificates for fertilizer, limestone, seed.

3.0 MATERIAL

3.1 Topsoil: Topsoil shall be the surface layer of soil that is stockpiled by the Contractor during stripping and/or excavation on the site. The topsoil shall be free of subsoil, clay, lumps, stones, brush or seed. Topsoil shall have a pH value of not less than 4.5 nor more than 8.0.

3.2 Lime: Lime shall be ground limestone containing not less than 80% of total carbonates and shall be ground to such fineness that 80% will pass through a No. 10 mesh sieve and 40% will pass through a No. 40 mesh sieve.

3.3 Fertilizer: Fertilizer shall be water soluble commercial carriers of available plant food elements or combinations thereof, as stated herein and shall conform to the applicable state fertilizer laws. They shall be uniform in composition, dry, and free flowing materials in condition for application by suitable equipment. The fertilizer shall be delivered in standard bags or other convenient standard containers, each fully labeled with manufacturer's guaranteed analysis. Any fertilizer shall contain not less that the percentages by weight of the ingredients set out as follows: (1) Nitrogen, 13% (2) Phosphorous P O, 13%, (3) Potash K C, 13%. Invoices for fertilizer will show the kind and have analysis furnished.

3.4 Seed: Seeds with a minimum pure live seed content of 90% shall be used. They shall be of the best grade and of known vitality, purity, and germination and shall be delivered in containers bearing seed tags as required by law showing percentages of germination content and purity of seed as well as percentages of weed seed content.

All seeds shall be free of wild onion, Canadian thistle, Johnson grass, crab grass or other seeds of noxious weeds. All seeds shall be furnished in standard containers, or as acceptable to the Engineer. Seed which has become wet, moldy or otherwise damaged in transit or storage will not be acceptable.

Purity, Germination and Planting Schedule

Spring and Summer Seeding (March 1 to September 1)

Name	Percent Purity	Percent Germination	Mix (Dry Wt. Lbs.) Per Acre
Hulled Bermuda	95	90	20
Pensacola Bahia	95	90	30
TOTAL			50

Fall and Winter Seeding (September 1 to March 1)

Name	Percent Purity	Percent Germination	Mix (Dry Wt. Lbs.) Per Acre
Unhulled Bermuda	95	90	20
Pensacola Bahia	95	90	30
Rye	95	85	15
Crimson Clover	95	85	8
TOTAL			73

Seeding in Existing Lawns: Grass seeds for existing lawns shall be the same as the existing grass.

3.5 Leguminous Inoculants: Inoculation media containing live nitrogen-fixing bacteria shall be supplied with all legume seed. The innoculants shall be standard, pure culture of nitrogen-fixing bacteria. Each kind of legume will require a cultural bacteria that is adapted to that particular kind of seed. The bacteria shall be supplied inconvenient containers of a proper size to treat the amount of seed to be planted. The legume seeds shall be treated according to the directions, and before the expiration date for use of the media shown on the container.

3.6 Soil for Repairs: for fills or areas to be repaired, soil shall be topsoil of a least equal quality to that which exists in areas adjacent to the area to be repaired.

3.7 Water: Water shall be free from oil, acid, alkali, salt, and other substances harmful to growth of grass, and shall be from a source accepted prior to use.

3.8 Solid Sod: Bermuda or Carpet Grass and shall be native to the locality of the work and shall, when placed be live, fresh, growing grass with at least two and one-half (2 ½) inches of soil adhering firmly to the roots. The sod shall be reasonably free from obnoxious weeds or other

grasses, and shall not contain any matter deleterious to its growth; or which might affect its subsistence or hardiness when transplanted. The sod shall be in blocks at least 3" x 8", and free from ragged edges.

4.0 INSPECTION AND TESTS

4.1 Fertilizer and Limestones: Duplicate copies of material invoices shall be furnished to the Engineer. Invoices shall show quantities and grade of fertilizer, quantity of limestone, percentages of calcium carbonate and magnesium carbonate, as applicable, and the percentages of limestone that pas the No. 40 and the No. 10 mesh sieves. Samples of each lot of fertilizer and limestone shall be furnished for testing. upon completion of project a final check of total quantities of fertilizer and limestone used will be made against total area treated, and if minimum rates of application have not been met, additional quantities of these materials to make up minimum application specified shall be distributed.

4.2 Seed: Contractor shall furnish to the Engineer duplicate signed copies of statement(s) from vendor(s), certifying that each container of seed delivered is labeled in accordance with Federal Seed Act and is at least equal to requirements specified therein. This certification shall be obtained from vendor and shall be furnished before application.

5.0. PREPARATION OF GROUND SURFACE

5.1 General: Equipment, in good operating condition, shall be used for the proper preparation of the ground and for handling and placing all materials. Equipment shall be acceptable before work is started.

5.2 Topsoiling: Topsoil shall be obtained from job site stockpiles formed during stripping and/or excavation operations and shall be free from subsoil, clay lumps, stones, brush, grasses or weeds, excess acids or alkali, or any other material to subsequent, smooth, grading, planting, and maintenance operations.

The topsoil shall be evenly spread on tilled areas to a uniform depth of at least 3 inches after compaction. Spreading shall be performed so that seeding can proceed with a minimum of soil preparation or tilling. After preplanting fertilization is completed, the topsoil shall be compacted by rolling with a cultipacker or by other approved means.

Rehabilitation of the stockpile areas shall include returning the area to near pre-construction conditions, including seeding of the area to re-establish the growth of grass.

5.3 Grading: Previously established grades shall be maintained on the areas to be treated in a true and even condition; necessary repairs shall be made to previously graded areas by means of graders or other approved equipment.

5.4 Tillage: After the areas required to be treated have been brought to the grades shown, the

soil shall be tilled to a depth of at least 4 inches by plowing, disking, harrowing, or other acceptable operations until the condition of the soil is acceptable. The work shall be performed only during period when beneficial results are likely to be obtained. When drought, excessive moisture, or other unsatisfactory conditions prevail, the work shall be stopped when directed. Undulations or irregularities in the surface shall be leveled before the next specified operation.

6.0 APPLICATION OF FERTILIZER AND LIMESTONE

6.1 Preplanting fertilization of areas to be seeded: Fertilizer shall be distributed uniformly at a rate of 800 pounds per acre over areas to be seeded and shall be mixed into the soil to a depth of a least 4 inches by disking, harrowing, or other acceptable methods. Application of fertilizer may be part of the operation specified in Section 5.4: TILLAGE of this specifications.

6.2 Liming: Immediately following or simultaneously with incorporation of fertilizer, limestone shall be distributed uniformly at a rate of 4000 pounds per acre, and shall be mixed into the soil to a depth of at least 4 inches by disking , harrowing, or other acceptable methods. Application of limestone along with fertilizer may be part of the operation specified in Section 5.4: TILLAGE of this specifications.

6.3 Leveling: Surface irregularities resulting from tillage, fertilizing, liming, or other operations shall be leveled before seeding.

6.4 Postplanting fertilization: From 40 to 60 days after seeding, ammonium nitrate or its nitrogen equivalent shall be applied uniformly at a rate of 225 pounds per acre over areas seeded. Fertilizer shall be applied when grass blades are dry to minimize burning. The planted area shall be watered to thoroughly moisten the upper 6 inches of the soil surface after the fertilizer is applied.

7.0 PLANTING SEED

7.1 General : A satisfactory method of sowing shall be employed, using approved mechanical power-drawn drills or seeders, or other approved methods. When drills are used, markers or other means shall be provided to insure that the successive seeded strips will overlap or be separated by a space no greater than 6 inches. When delays in operations extend the work beyond the most favorable planting season for species designated or when conditions are such by reason of drought, high winds, excessive moisture, or other factors that satisfactory results are not likely to be obtained, work shall be halted as directed and resumed only when conditions are favorable or when approved alternate or corrective measure and procedures have been effected. If inspection during or after seeding operations indicates that strips wider than 6 inches have been left unplanted or other areas skipped, additional seed shall be sown.

7.2 Broadcast Seeding: Seeding shall be broadcast either by hand or with acceptable seeding equipment, in combination with fertilizer, or with other acceptable sowing equipment. Seed shall

be distributed uniformly over designated areas. Half of the seed shall be sown with sower moving at right angles to first sowing. Seed shall be covered to an average depth of 1/4 inches by brush harrow, spiketooth harrow, chain harrow, cultipacker, hand rake with wood tines, or other approved device. Seed shall not be broadcast during windy weather.

7.3 Drill Seeding: Drill seeding shall be accomplished with approved equipment with drills set not more than 6 inches apart. Seed shall be sown uniformly over designated areas to average depth of 1/4 inch.

7.4 Sodding: All solid sod shall be procured areas where the soil is fertile and contains a high percentage of loamy topsoil, and from areas that have been grazed or mowed sufficiently to form a dense turf.

Mechanical devices, such as sod cutter, may be used for cutting the sod into strips or blocks. Care shall be exercised at all times to retain the native soil on the roots of the sod during the process of excavating, hauling and planting.

The solid sod blocks shall be transplanted within 24 hours from the time of cutting, unless they are stacked a their destination in a manner satisfactory to the Engineer. All solid sod in stacks shall be kept moist and protected from exposure tot he air and sun, and from freezing. In no event shall more than two (2) days elapse between the cutting and planting of the solid sod.

Solid sod shall be planted during the period between March 1st and December 15th, unless written permission is given by the Engineer to extend the planting season. The solid sod shall be placed on the prepared surface with the edges in close contact. All cracks between blocks of solid sod shall be closed with small pieces of fresh sod, and all cracks too small for sod shall be filled by a light dressing of topsoil. The entire sodded area shall then be compacted and watered to the satisfaction of the Engineer. Rollers, hand tamps or other approved equipment may be used for compacting.

Surfaces of solid sodding which, in the opinion of the Engineer, may slide due to the height and slope of the surface or nature of the soil, shall, upon direction of the Engineer , be "pegged" with wooden pegs driven through the sod blocks into firm earth, sufficiently close to hold the sod in place.

8.0 MAINTENANCE

Seeded areas shall be maintained until all work or designated portions thereof have been completed and accepted. Tall grass and weeds that tend to impede the desired grass species shall be mowed, and any damage resulting from these operations shall be repaired a the Contractor's expense.

9.0 ESTABLISHMENT OF GROWTH

9.1 General : The Contractor shall be responsible for proper care of seeded areas while grass is becoming established for three (3) months after completion of treatment on the entire project, unless desired cover is established in a shorter period of time and the Owner shortens responsibility period. The Contractor shall be responsible for providing a satisfactory stand of grass. A satisfactory stand of grass is determined as a cover of living grass in which gaps larger than 12 inches square do not occur as determined by an acceptance inspection made at the end of the maintenance period. Maintenance work shall be performed a the Contractor's expense.

9.2 Mowing: Seeded and sodded areas shall be mowed with acceptable mowing equipment to a height of about 4 inches when average height of grass becomes about 8 inches. When amount of cut grass is heavy, grass shall be removed to prevent destruction of underlying turf. If weeds or other undesirable vegetation threatens to impede the growth of planted species, such vegetation shall be mowed, or in case of excessive growth, shall be uprooted, raked and removed from area.

9.3 Refertilizing: The Contractor will determine areas needing refertilization at least 15 days before application is required. Fertilization shall be distributed on designated area during periods when grass is dry. 13-13-13 grade fertilizer shall be applied uniformly at a rate of 800 pounds per acre. Fertilizer conforming to physical condition, packaging and marking as specified hereinbefore shall be provided.

9.4 Reseeding: The Contractor will determine areas requiring reseeding at least 15 days before period specified for reseeding. Seed specified hereinbefore shall be drilled at rates hereinbefore specified, in a manner that will cause minimum disturbance to existing stand of grass, and at an angle of not less than 15 degrees from direction of previously seeded rows.

CONNECTION TO MAINLINE PIPE (INSERT-A-TEE)

"Connection of the new service lateral* to the mainline shall be accomplished by means of a compression-fit service connection. The service connection shall be specifically designed for connection to the sewer main being installed, and shall be INSERTA TEE as manufactured by INSERTA FITTINGS Co., Hillsboro, Oregon, Telephone (503) 357-2110; Fax (503) 359-5417; or approved equal. Installing using procedures and equipment as referenced in manufacturer's written installation instructions."

Types available for all mainlines

PART NO.	TYPES	GASKETED BELL SDR 35	GASKETED BELL IPS/SCII 40
1	PVC Hub	ASTM D3034	ASTM D3034 SDR 26
2	Gasket	ASTM F477	ASTM F477
3	Band	301 SS	301 SS
3	Screw	305 SS	305 SS
3	Housing	301 SS	301 SS
4	Rubber Sleeve	ASTM C443	ASTM C443

SECTION 631 - SEWAGE PUMPING STATION

631.01 -Description. The work covered by this section consists of furnishing all labor, equipment and materials and performing all operations in connection with the installation, rehabilitation and/or demolition of solids handling, submersible pumps, pump station, wetwell, valve vault, piping and valves per details as indicated on the plans and as specified herein. The work includes clearing, grubbing, dewatering, bedding, pipe laying, backfilling, testing, fittings, and appurtenances required for a complete installation.

631.01.1 - Manufacturer's Experience. It is the intention of this Specification to cover minimum acceptable quality equipment for a complete installation. The Equipment Manufacturer shall have not less than 5 successful years experience in the design, construction and operation of equipment of the type specified at a minimum of 5 different collection system entities.

The Engineer may require evidence, in the form of operating records, from these collection system entities to substantiate any claims concerning the ability of the proposed sewage pumping equipment to perform as required.

631.01.2 - Supplier's/Manufacturer's Services. A Supplier's and / or Manufacturer's representative for the equipment specified herein shall be made available at the job site in the event of failure or other malfunction of the equipment or basin to verify the problem and take whatever action is necessary for correction thereof. The cost of this service shall be included in the pump supplier's cost.

Upon completion of pump station installation, a Supplier's and/or Manufacturer's representative for the equipment specified herein shall be made available at the job site for start-up, check-out, and testing of all pumps, controls, and other associated pump station equipment to the satisfaction of the Construction Manager, Owner, and the Engineer. The cost of this service shall be included in the pump supplier's cost.

631.02.1 - MATERIALS

631.02.01 - Pumping Station. Contractor shall furnish and install Essco submersible pumping units, complete with motor, equipped with cool agivent apparatus or approved equal. The pump shall be capable of continuously pumping with the liquid level at the top of the volute without overloading. Pumps shall be manufactured by Essco Pumps, Inc. or approved equal. Pumps shall be rated for operating conditions as follows:

# of pumps	2
GPM	80
TDH - feet	66
HP	10
RPM	1750
Solids	4"
Discharge	4'
Volts	230/460
Phase	3

631.02.2 - Pumping Casings. Shall be constructed of 25% chrome iron and shall conform to ASTM A-532 material, and shall be completely clear from suction to discharge without coming into contact with the impeller. All internal case clearances shall be equal to discharge diameter so that large diameter solids and long length or stringy solids will pass through the pump with the greatest handling efficiency. The impeller shall be of 100% recessed design, with wear plate and shall be mounted in such a manner as to allow solids which enter the suction opening to leave the pump with minimal impeller contact. The solids or fluids being pumped shall not have to enter impeller in order to discharge. Impeller and wear plate shall conform to ASTM A-532 material and shall be 25% chrome iron (no exception) with a minimum of 55 rockwell hardness. The impeller shall have 7 vanes, and encompass a lip on back shroud to increase the efficiency of the pump and allow impeller to have a "flywheel" effect. The impeller shall be attached to the shaft by a stainless steel bolt, stainless steel washer, stainless steel key, and Essco "lock-tite" applied to insure that impeller bolt will not back out if unit is operated backwards. Impeller shall be fastened to keyed motor shaft by means of a stainless steel threaded cap screw and washer. Before installation the impeller and wear plate shall be broken down and inspected by the engineer for compliance with the specifications.

631.02.3 - Motor Case. Motor case and end brackets shall be cast iron. The motor shaft shall be one piece 416 stainless steel through both bearings with proper length to connect directly to pump impeller. Motor shall contain class b insulation with Class F materials rated for continuous duty in 40 degree C liquid. Motor shall be sized so the nameplate horsepower is the actual continuous brake horsepower output without considering motor service factor. Motors shall be explosion proof containing

Underwriter's Approved Label.

Thrust bearing and radial bearing shall be anti-friction type ball bearings. Motor leads shall be joined to motor housing by the use of an epoxy mold in the motor end bracket. All exposed hardware shall be stainless steel. Motor shall utilize standard Nema T-frame electrical components.

At the drive end the motor shall have a separate inner and outer seal with an oil filled chamber between the seals to provide complete protection for the motor windings. Each mechanical seal shall be constructed of the following parts: #420 stainless steel spring, ceramic cup, carbon washer and Buna "N" bellows. A moisture sensing probe within the oil filled chamber shall be provided and connected to an alarm system, as shown on the drawings, to warn of impending seal failure. Overload protection of the thermal trip type shall be provided. "Quick trip" heater and motor thermal circuit shall be wired in series with starter coil.

Motor shall conform to the current issue of national electrical code, Section 501-5, Para. (D) and Section 501-8, Para. (A). All pumps, motors, fittings, accessories and controls shall be 100% American Made.

631.02.4 - Guide Rail Assembly. Furnish each pump with slide away coupling that are designed such that the pumping units can be removed from the wet well without entering the well or disconnecting the piping. The slide away coupling shall consist of a cast iron foot mounted discharge elbow with integral cast mounting base plate, sliding pump adapter, rail guides, lifting yoke and upper rail supports. All metal faces where movement can occur will be non-sparking. The slide away coupling is designed to conform to Underwriters Laboratory for use in Class I, Division I, Group D hazardous locations.

The guide rail pipes shall be 2" furnished by the contractor. Two guide rail pipes per pump are required.

631.02.5 Access Frame and Cover Specification: Access frames and covers shall have a 1/4" thick one-piece, mill finish, extruded aluminum frame, incorporating a continuous concrete anchor. Door panels shall be 1/4" aluminum diamond plate, reinforced to withstand a live load of 300 lbs. Psf. Doors shall open to 90 degrees and automatically lock with stainless steel hold open arms with aluminum release handles. Doors shall close flush with the frame lifting handles, hinges, hinges and all fastening hardware shall be stainless steel. Unit shall lock with a non-corrosive locking bar. Unit shall be guaranteed against defects in material and/or workmanship for a period of 10 years. They shall be single leaf with openings sizes per contract drawings, as manufacturer by Halliday Products, Inc. or approved equal

631.02.06 DISCHARGE PIPING: All piping shall be ductile iron flanged joint pipe, ANSI A 21.51 and all joints and fittings shall be Ductile Iron ANSI A 21.10.

All Ductile Iron Pipe and Fittings shall be coated outside with a standard bituminous coating and lined inside with a 16 mil. coal tar epoxy coating.

631.02.07 GATE VALVE: Gate valves shall be in accordance with AWWA C-500 Standards, iron body, bronze mounted, double disc, parallel seat, non-rising stem, flanged ends, handwheel operated and complete with bolts, gaskets, and coatings.

631.02.08 CHECK VALVE: Check valves shall be in accordance with AWWA Standards, iron body, bronze mounted, flanged ends, lever and weight operation and complete with bolts, gaskets, and coatings.

631.02.09 WET WELL: Concrete for the wet well shall be furnished in accordance with the applicable requirements of reference ASTM L 76, ASTM C443 and ASTM C 478.

631.02.10 SECURITY FENCE: The security fence shall be constructed using the materials and details shown on the contract drawings.

631.02.11 BOLTS, WASHERS, AND FASTENERS: All bolts, washers, and fasteners shall be high strength stainless steel meeting the requirements as set forth in ASTM-A 325. All bolted connections shall have threads excluded from the shear plane.

631.02.12 FORCE MAINS: All force mains shall be PVC Fluid-Tite Intergral Bell plastic pipe for sewer and shall meet the requirements of 160 PSI, SDR 26 pressure pipe, and shall meet the standard specifications as outlined in ANSI/ASTM D 2241-78. All sections shall be tested under a hydrostatic pressure of 100 pounds per square inch and shall not show leakage exceeding 10 gallons per inch of diameter per mile of pipe per 24 hours when so tested.

All fittings to be mechanical joint cast or ductile iron. A green metallic tape with the word "SEWER" printed in bold letters and at a maximum of 3 feet spacing on the tape shall be secured to the top side of the force main.

631.02.13 AIR AND VACUUM SEWER VALVE:

The air and vacuum valve shall be able to automatically exhaust large quantities of air during filling of a pipeline and allows air to re-enter pipeline during the draining or when a negative pressure occurs. The inlet and outlet of the valve shall have the same cross-section area. The float shall be guided by a synthetic rubber seal. The float shall be of all

stainless steel construction and capable of withstanding maximum system surge pressure without failure. The body and cover shall be concentrically located and of ductile iron and the valve internal parts shall be of stainless steel with Buna-N® rubber seat.
The Air and Vacuum Valve shall be manufactured per
ANSI/AWWA C512-04 Series 35WW 2" x 1" with optional backwash kit from Cla-Val Newport Beach, CA, U.S.A. or approved equal

Specifications Sizes
2", 3", 4" NPT
4", 6" 8" flanged ANSI
Class 125 lb.
Class 250 lb.

Pressure Rating
150 psi & 300 psi ratings
NOTE: SPECIFY WHEN
OPERATING PRESSURE
BELOW 10 PSI

Materials
Body and Cover:
Ductile Iron ASTM A536
65-45-12
Float:
Stainless Steel
Internal Parts:
Stainless Steel
Seal:
Buna-N® Rubber

The valve shall be mounted on a 4" cast iron fitting installed in the force main. Special consideration should be given so that the valve is stable. The valve and appurtenances shall be installed in a 36" diameter concrete manhole with a Dewes DF-25(7) J.S. or Vulcan V-1115 Frame and cover.

The air and vacuum sewer valve assembly includes all the items described above plus any additional items required to install the assembly and make it functional.

SECTION 16050

PART 1 - BASIC ELECTRICAL MATERIALS AND METHODS

1.01 Related Work

A. Section 16060 – Grounding and Bonding
B. Section 16900 – Process Instrumentation and Control

1.02 ELECTRICAL SPECIFICATIONS: The electric supply will be 120/240 volts, three phase, four wire, 60 Hertz. The Contractor shall contact the power company prior to bidding and include in his bid the cost of labor and material necessary to supply the plant with electricity, including any cost which may be assessed by the power company for installation of power company furnished material. The Contractor shall coordinate all aspects of the construction concerning the electric service with the power company. The Approval Drawings shall include all details of the power company electric service and all associated equipment (to include all pole types and locations, switches, fuses, wire sizes and types, etc.) anywhere on the plant property.

1.03 TEMPORARY ELECTRIC SERVICE: The Temporary Electric Service for construction power shall be furnished, installed, and removed by the electrical contractor. Also, Contractor, shall make all necessary arrangements with the power company for metering and billing and provide for these charges and cost in his bid.

1.04 TESTING AND INSPECTIONS: Contractor shall assist in making periodic inspections or tests as required by the Engineer. When required, Contractor shall provide the assistance of foreman and qualified craftsmen for reasonable duration of each test, etc. Cooperate with other Contractors in preventing premature operation of equipment like water process equipment, etc., which should be first run in presence of personnel responsible for each item.

After wiring is completed, the Contractor shall test for shorts and open circuits, intentional and unintentional grounds. All shorts, open circuits, and unintentional grounds shall be corrected.

1.05 GUARANTEE: Workmanship and materials shall be guaranteed for period of one year from date of official acceptance of contract. Be responsible for any adjustments, replacements and corrections necessary to restore project to first-class condition if deficiency is due to faulty workmanship or materials.

1.06 CONDUIT SYSTEMS: Use galvanized or sheradized steel conduit in damp locations, exterior walls, exposed out of doors or when subject to mechanical

damage after installation. Underground runs, use PVC, schedule 80 incased in concrete per NEMA standards and buried at required depth per NEMA standards. Provide electrical line red warning tape buried six (6) inches above conduit run. Protect conduits against entry of debris; keep ends capped during construction; clear or replace obstructed conduits.

Size and install conduits so that conductors may be installed without damage or excessive strain, using NEC as a minimum standard. For rigid conduit use double lock nut and bushings. For conduits larger than 1", use grounding type insulation bushing. Entire conduit system shall provide a dependable path to ground. EMT fittings shall be watertight type, T&B 5100 series. Crimped or set screw types are not acceptable.

Ream ends after threading, make bends with an approved bending tool. Replace deformed bends or off-sets. Avoid hot water pipes, stay at least 3" from covering of hot pipes except as crossing, then at least 1".

1.07 PULL BOXES AND JUNCTION BOXES: Pull boxes shall be code gauge and size galvanized steel and shall be installed where accessible and in location shown on the drawings or where required to facilitate the easy pulling of wires. Boxes shall be sized properly for the conduits and wires entering them. In outdoor and process areas use weatherproof and corrosion resistant boxes.

1.08 OUTLET BOXES: On exposed conduit in process areas, use Crouse-Hinds No. FS or FD or other galvanized steel types. All boxes galvanized, or cadmium plated, or better.

1.09 CONDUCTORS AND GENERAL WIRING METHODS: Type THW 600-volt copper wire for general use and types THHN 600-volt copper for High Ambient Temperature; where Contractor sizes conduit based on conductor required, basis is type THW. Approved manufacturers, Triangle, General Cable, Collyer, National Electric Products, or approved equal. Size, type and trade name stamped permanently at regular intervals on all conductors. All wire shall be color coded.

Install wire in conduit after all work which may cause damage is completed. Powdered talc or other approved compound may be used as lubricant where necessary.

Make joints and splices in conductors with approved insulating type compression fittings, T&B, Sta-kon, or Buchanan splice caps. Wire-nuts are not acceptable.

1.10 GROUNDING AND BONDING REQUIREMENTS

In order to provide a safe and reliable system, all structures, piping, equipment and electrical services involved must be properly grounded and bonded to a properly sized and installed grounding electrode system.

All work will comply with every facet of the National Electric Code Article 250, current edition. Particular attention must be given to sections 250.56 and 250.58.

The article 250 requirement for a ground resistance of 25 ohms or less shall be considered as the minimum and a resistance of 4 ohms or less shall be the goal. This resistance will be measured with equipment using a three point resistance measurement and "fall of potential" system.

All motor control centers and control panels shall have as a minimum, a ground ring near the structure or building consisting of #2/0 bare copper and 10 foot long by ¾" diameter copper clad ground rods. There will be at least three (3) ground rods spaced no more than twelve (12) feet apart to make a grounding "ring". All connections will be exothermic (Cadweld) performed by qualified personnel. All devices located near the structure or building shall be bonded to the ground ring.

Other structures will have a grounding system appropriate for the location per the National Electric Code article 250.

Conduit work, motors, panel boards and electrical equipment are to be effectively and permanently grounded. Feeder conduits shall provide a good path to system ground.

The grounding screw on all grounding type receptacles shall be securely grounded to the outlet box with lug and screw, or use self-grounding types.

Verify electrical continuity of all conduit runs and correct any discrepancies.

The Contractor shall be responsible for determining the extent of grounding and bonding requirements for equipment located at the site(s) covered under the contract(s) as listed herein. The Contractor shall provide for these charges, and cost in his bid.

1.11 EXCAVATION AND BACKFILLING: Excavate trenches for underground conduit or cable to required depth and width. After conduit of cable has been installed, inspected, and approved, backfill trench with earth free of trash, rock, brick and debris, and compact as required. Under slab, follow compaction rules for general work on this project. Underground workmanship applies under slab; depth can be reduced, but provide full and complete encasement. Bond conduit to any membrane passed through.

1.12 CLEANING: As required, clean all equipment or exposed material provided or

installed under this section. Protect from any normal use of paint, mortar, etc.

1.13 WORKMANSHIP: All work shall be done in a thorough, substantial, and workmanlike manner by competent workmen. Applicable rules of National Electric Code apply as minimum standard for this contract but do not replace or reduce any specific requirement herein.

1.14 INTERFERENCES: The drawings are generally diagrammatic. Cooperate with other trades so that interferences of conduit, equipment, piping, etc., will be avoided. If interference develops, refer promptly to Engineer for decision.

END OF SECTION

SECTION 16060
GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 DESCRIPTION

A. This section specifies the general grounding and bonding requirements for electrical equipment and operations to provide a low impedance path for possible ground fault currents.

B. "Grounding electrode system" refers to all electrodes required by NEC, as well as made, supplementary, and lightning protection system grounding electrodes. The terms "connect" and "bond" are used interchangeably in this specification and have the same meaning.

1.02 RELATED WORK

C. Section 16050 – Electrical Material and Methods

D. Section 16900 – Process Instrumentation and Control

1.03 SUBMITTALS

A. Shop Drawings:

1. Clearly present enough information to determine compliance with drawings and specifications.
2. Include the location of system grounding electrode connections and the routing of aboveground and underground grounding electrode conductors.

B. Test Reports: Provide certified test reports of ground resistance.

C. Certifications: Two weeks prior to final inspection, submit four copies of the following to the Project Engineer:

1. Certification that the materials and installation are in accordance with the drawings and specifications.
2. Certification by the Contractor that the complete installation has been properly installed and tested.

1.05 APPLICABLE PUBLICATIONS

Publications listed below (including amendments, addenda, revisions, supplements, and errata) form a part of this specification to the extent referenced. Publications are referenced in the text by designation only.

A. American Society for Testing and Materials (ASTM):
   B1-07.....Standard Specification for Hard-Drawn Copper Wire
   B3-07.....Standard Specification for Soft or Annealed Copper Wire
   B8-04.....Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
B. Institute of Electrical and Electronics Engineers, Inc. (IEEE):
   81-1983.....IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System
   C2-07.....National Electrical Safety Code
C. National Fire Protection Association (NFPA):
   70-08.....National Electrical Code (NEC)
   99-2005.....Health Care Facilities
D. Underwriters Laboratories, Inc. (UL):
   44-05.....Thermoset-Insulated Wires and Cables
   83-08.....Thermoplastic-Insulated Wires and Cables
   467-07.....Grounding and Bonding Equipment
   486A-486B-03.....Wire Connectors

PART 2 – PRODUCTS

2.01 GROUNDING AND BONDING CONDUCTORS

A. Equipment grounding conductors shall be UL 44 or UL 83 insulated stranded copper, except that sizes No. 10 AWG [6 mm²] and smaller shall be solid copper. Insulation color shall be continuous green for all equipment grounding conductors, except that wire sizes No. 4 AWG [25 mm²] and larger shall be identified per NEC.
B. Bonding conductors shall be ASTM B8 bare stranded copper, except that sizes No. 10 AWG [6 mm²] and smaller shall be ASTM B1 solid bare copper wire.
C. Conductor sizes shall not be less than shown on the drawings, or not less than required by the NEC, whichever is greater.
D. Isolated Power Systems (if applicable): Type XHHW-2 insulation with a dielectric constant of 3.5 or less.

2.02 GROUND RODS

A. Steel or copper clad steel, 0.75 in [19 mm] diameter by 10 ft [30 M] long, conforming to UL 467.
B. Quantity of rods shall be as required to obtain the specified ground resistance, as shown on the drawings.

2.03 CONCRETE ENCASED ELECTRODE

Concrete encased electrode shall be No. 4 AWG bare copper wire, installed per NEC.

2.04 GROUND CONNECTIONS

A. Below Grade: Exothermic-welded type connectors.
B. Above Grade:
   1. Bonding Jumpers: Compression-type connectors, using zinc-plated fasteners and external tooth lockwashers.
   2. Connection to Building Steel: Exothermic-welded type connectors.
   3. Ground Busbars: Two-hole compression type lugs, using tin-plated copper or copper alloy bolts and nuts.
   4. Rack and Cabinet Ground Bars: One-hole compression-type lugs, using zinc-plated or copper alloy fasteners.

2.05 EQUIPMENT RACK AND CABINET GROUND BARS

Provide solid copper ground bars designed for mounting on the framework of open or cabinet-enclosed equipment racks with minimum dimensions of 0.375 in [4 mm] thick x 0.75 in [19 mm] wide.

2.06 GROUND TERMINAL BLOCKS

At any equipment mounting location (e.g., backboards and hinged cover enclosures) where rack-type ground bars cannot be mounted, provide screw lug-type terminal blocks.

2.07 GROUNDING BUS

Pre-drilled rectangular copper bar with stand-off insulators, minimum 0.25 in [6.3 mm] thick x 4 in [100 mm] high in cross-section, length as shown on drawings, with 0.281 in [7.1 mm] holes spaced 1.125 in [28 mm] apart.

PART 3 – EXECUTION

3.01 GENERAL

A. Ground in accordance with the NEC, as shown on drawings, and as specified herein.
B. System Grounding:
   1. Secondary service neutrals: Ground at the supply side of the secondary disconnecting means and at the related transformers.

2. Separately derived systems (transformers downstream from the service entrance): Ground the secondary neutral.

C. Equipment Grounding: Metallic structures, including ductwork and building steel, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, and other conductive items in close proximity with electrical circuits, shall be bonded and grounded.

3.02 INACCESSIBLE GROUNDING CONNECTIONS

Make grounding connections, which are normally buried or otherwise inaccessible (except connections for which access for periodic testing is required), by exothermic weld.

3.03 SECONDARY VOLTAGE EQUIPMENT AND CIRCUITS

A. Main Bonding Jumper: Bond the secondary service neutral to the ground bus in the service equipment.

B. Metallic Piping, Building Steel, and Supplemental Electrode(s):

1. Provide a grounding electrode conductor sized per NEC between the service equipment ground bus and all metallic water pipe systems, building steel, and supplemental or made electrodes. Provide jumper insulating joints in the metallic piping. All connections to electrodes shall be made with fittings that conform to UL 467.
2. Provide a supplemental ground electrode and bond to the grounding electrode system.

C. Service Disconnect (Separate Individual Enclosure): Provide a ground bar bolted to the enclosure with lugs for connecting the various grounding conductors.

D. Switchgear, Switchboards, Panelboards, Motor Control Centers and Panelboards, Engine-Generators, and Automatic Transfer Switches:

1. Connect the various feeder equipment grounding conductors to the ground bus in the enclosure with suitable pressure connectors.
2. For service entrance equipment, connect the grounding electrode conductor to the ground bus.
3. Provide ground bars, bolted to the housing, with sufficient lugs to terminate the equipment grounding conductors.
4. Connect metallic conduits that terminate without mechanical connection to the housing, by grounding bushings and grounding conductor to the equipment ground bus.

E. Transformers:

1. Exterior: Exterior transformers supplying interior service equipment shall have the neutral grounded at the transformer secondary. Provide a grounding electrode at the transformer.
2. Separately derived systems (transformers downstream from service equipment): Ground the secondary neutral at the transformer. Provide a grounding electrode conductor from the transformer to

the nearest component of the grounding electrode system **or** to the ground bar at the service equipment.

3.04 RACEWAY

A. Conduit Systems:
   1. Ground all metallic conduit systems. All metallic conduit systems shall contain an equipment grounding conductor.
   2. Non-metallic conduit systems, except non-metallic feeder conduits that carry a grounded conductor from exterior transformers to interior or building-mounted service entrance equipment, shall contain an equipment grounding conductor.
   3. Conduit that only contains a grounding conductor, and is provided for its mechanical protection, shall be bonded to that conductor at the entrance and exit from the conduit.
   4. Metallic conduits which terminate without mechanical connection to electrical equipment housing by means of locknut and bushings or adapters, shall be provided with grounding bushings. Connect bushings with a bare grounding conductor to the equipment ground bus.

B. Feeders and Branch Circuits: Install equipment grounding conductors with all feeders and power and lighting branch circuits.

C. Boxes, Cabinets, Enclosures, and Panelboards:
   1. Bond the equipment grounding conductor to each pullbox, junction box, outlet box, device box, cabinets, and other enclosures through which the conductor passes (except for special grounding systems for intensive care units and other critical units shown).
   2. Provide lugs in each box and enclosure for equipment grounding conductor termination.

D. Wireway Systems:
   1. Bond the metallic structures of wireway to provide 100% electrical continuity throughout the wireway system, by connecting a No. 6 AWG [16 mm^2] bonding jumper at all intermediate metallic enclosures and across all section junctions.
   2. Install insulated No. 6 AWG [16 mm^2] bonding jumpers between the wireway system, bonded as required above, and the closest building ground at each end and approximately every 50 ft [16 M].
   3. Use insulated No. 6 AWG [16 mm^2] bonding jumpers to ground or bond metallic wireway at each end for all intermediate metallic enclosures and across all section junctions.
   4. Use insulated No. 6 AWG [16 mm^2] bonding jumpers to ground cable tray to column-mounted building ground plates (pads) at each end and approximately every 49 ft [15 M].

E. Receptacles shall not be grounded through their mounting screws. Ground receptacles with a jumper from the receptacle green ground

terminal to the device box ground screw and a jumper to the branch circuit equipment grounding conductor.

F. Ground lighting fixtures to the equipment grounding conductor of the wiring system when the green ground is provided; otherwise, ground the fixtures through the conduit systems. Fixtures connected with flexible conduit shall have a green ground wire included with the power wires from the fixture through the flexible conduit to the first outlet box.

G. Fixed electrical appliances and equipment shall be provided with a ground lug for termination of the equipment grounding conductor.

H. Raised Floors: Provide bonding of all raised floor components (if applicable).

3.05 OUTDOOR METALLIC FENCES AROUND ELECTRICAL EQUIPMENT

Fences shall be grounded with a ground rod at each fixed gate post and at each corner post. Drive ground rods until the top is 12 in [300 mm] below grade. Attach a No. 4 AWG [25 mm²] copper conductor by exothermic weld to the ground rods, and extend underground to the immediate vicinity of fence post. Lace the conductor vertically into 12 in [300 mm] of fence mesh and fasten by two approved bronze compression fittings, one to bond the wire to post and the other to bond the wire to fence. Each gate section shall be bonded to its gatepost by a 0.375 in x 1 in [3 mm x 25 mm] flexible, braided copper strap and ground post clamps. Clamps shall be of the anti-electrolysis type.

3.06 CORROSION INHIBITORS

When making ground and ground bonding connections, apply a corrosion inhibitor to all contact surfaces. Use corrosion inhibitor appropriate for protecting a connection between the metals used.

3.07 CONDUCTIVE PIPING

A. Bond all conductive piping systems, interior and exterior, to the grounding electrode system. Bonding connections shall be made as close as practical to the equipment ground bus.

B. In operating rooms and at intensive care and coronary care type beds, bond the gases and suction piping at the outlets directly to the room or patient ground bus.

3.08 LIGHTNING PROTECTION SYSTEM

Bond the lightning protection system to the electrical grounding electrode system.

3.09 ELECTRICAL ROOM GROUNDING

Building Earth Ground Busbars: Provide ground busbar and mounting hardware at each electrical room and connect to pigtail extensions of the building grounding ring.

3.10 EXTERIOR LIGHT POLES

Provide 20 ft [6.1 M] of No. 4 bare copper coiled at bottom of pole base excavation prior to pour, plus additional unspliced length in and above foundation as required to reach pole ground stud.

3.11 GROUND RESISTANCE

A. Grounding system resistance to ground of 25 ohms or less shall be considered as the **minimum** and a resistance of 5 ohms or less shall be the goal. Make any modifications or additions to the grounding electrode system necessary for compliance without additional cost to the Customer. Final tests shall ensure that this requirement is met.

B. Resistance of the grounding electrode system shall be measured using a four-terminal fall-of-potential method as defined in IEEE 81. Ground resistance measurements shall be made before the electrical distribution system is energized and shall be made in normally dry conditions not fewer than 48 hours after the last rainfall. Resistance measurements of separate grounding electrode systems shall be made before the systems are bonded together below grade. The combined resistance of separate systems may be used to meet the required resistance, but the specified number of electrodes must still be provided.

C. Services at power company interface points shall comply with the power company ground resistance requirements.

D. Below-grade connections shall be visually inspected by the Project Engineer prior to backfilling. The Contractor shall notify the Project Engineer 24 hours before the connections are ready for inspection.

3.12 GROUND ROD INSTALLATION

A. For outdoor installations, drive each rod vertically in the earth, until top of rod is 24 in [609 mm] below final grade.

B. For indoor installations, leave 4 in [100 mm] of rod exposed.

C. Where permanently concealed ground connections are required, make the connections by the exothermic process, to form solid metal joints. Make accessible ground connections with mechanical pressure-type ground connectors.

D. Where rock prevents the driving of vertical ground rods, install angled ground rods or grounding electrodes in horizontal trenches to achieve the specified resistance.

END OF SECTION

SECTION 16900

PROCESS INSTRUMENTATION AND CONTROL

PART 1 – GENERAL

1.01 WORK INCLUDED

The work covered under this section of the specifications includes the furnishing and installing of all instrumentation and control hereinafter specified to perform the intended function.

1.02 RELATED WORK

E. Section 16050 – Electrical Material and Methods
F. Section 16060 – Grounding and Bonding

PART 2 – PRODUCTS

2.01 SYSTEM SUPPLIER

All instrumentation and control systems equipment shall be furnished by a System Supplier. The System Supplier shall provide and be responsible for the proper operation of all Process Instrumentation and Controls and Control Panels. The System Supplier shall perform in house submittal drawings and assembly of products. Subcontracting submittal drawings and equipment assembly will not be permitted.

Substitutions of functions or equipment specified will not be acceptable.

The entire system shall be warranted for one year from date of substantial completion.

The Contractor shall assign full responsibility for the function operation of all new instrumentation and control systems to a System Supplier. This System Supplier shall be responsible for all coordination necessary in order to select, to furnish, to supervise installation and connections, to calibrate, and to place into operation all instrumentation and controls along with all other equipment and accessories as specified herein. The System Supplier shall be a licensed electrical contractor in the state of Mississippi.

The System Supplier shall be one of established favorable reputation who has designed and produced similar systems and components for a period of at least (10) ten years.

It shall be required of the System Supplier to execute and submit a guarantee to assume full responsibility as defined in Section 2.01, paragraph 'A' above. It is the duty of the Contractor to include this guarantee with his Bidding Documents.

Only the guarantee of the System Supplier whose name the Contractor has inserted in his Bidding Documents is required. Failure by a System Supplier to provide a written guarantee with his proposal shall be deemed by the Contractor as "NO BID" and that System Supplier will not be acceptable. The written guarantee shall be on the named System Supplier's letterhead and shall be signed by a responsible representative who will be primarily involved in the fulfillment of this guarantee. The written guarantee shall be stated as follows:

"... (Name of Single Source System Supplier)...guarantees that the proposal offered provides for complete compliance with all requirements of this section of the project specifications without exceptions to these specifications.

Full responsibility will be placed upon... (Name of Single Source System Supplier)...for all coordination necessary to select, to furnish, to supervise installation and connections, to calibrate, and to place into operation Process Instrumentation and Controls, Control Panels, and all other equipment and accessories needed to provide a complete operating system to comply with requirements of this section of the project specifications.

... (Name of Single Source System Supplier)... guarantees to provide all submittal drawings, instruction manuals, and qualified personnel for specified field services and training, all as defined within this section of the project specifications."

... (Name of Single Source System Supplier)... is a licensed electrical contractor in the state of Mississippi; Certificate of Responsibility No. , name of qualifying party_____;

Guarantee on system function and equipment shall be one (1) year from date of substantial completion or partial acceptance.

2.02 SUBMITTAL DRAWINGS

A. Descriptive literature and drawings for equipment and systems being furnished under this section shall be included in two submittals as a maximum. If two submittals are made, the first shall include all primary devices, transmitters, sensors, and field mounted equipment. The second submittal will include the balance of the submittal required. The submittal shall include as a minimum, equipment specifications,

dimensional drawings, flow and other calculations, schematic drawings of each and every system within the complete offering, and such other information requested by the Engineer or considered necessary to the proper installation of the equipment. Furnish submittals in a Bound Booklet Form 8.5" X 11". No sheets shall be larger than 8.5" X 11". Foldout larger sheets will not be acceptable. This submittal shall include coordinated information and drawings for all items that the Single Source System Supplier is required to furnish under this section of the specifications, all in one integrated and coordinated manual. Each item of a submittal shall carry the appropriate title and be indexed against the appropriate specification item.

B. A quantity of four (4) sets of submittals shall be furnished for the Engineer's approval.

2.03 INSTRUCTION MANUALS

Prior to 65% of the value of job completion, System Supplier shall furnish two (2) copies to the Engineer of all descriptive matter and complete system operation instruction manuals in separate indexed binders coordinated with the equipment that is furnished and installed for approval. System Supplier shall incorporate Engineer's comments and resubmit for approval within thirty (30) days of receipt of Engineer's comments. Once final approval is obtained, System Supplier shall furnish two (2) to the Engineer.

2.04 RELATED SYSTEM COMPONENTS

The attention of the System Supplier is called to sections concerned with electrical work, chemical feeders, valves, piping, etc., and such other devices not specified under this section, but related to it.

PART 3 – EXECUTION

3.01 ENGINEERING SUPERVISION

C. The services of a qualified representative of the selected Single Source System Supplier shall be provided to inspect the completed installation, suggest all adjustments necessary to place the system in proper operation, and instruct operating personnel in the care and operation of the equipment furnished. A minimum of one (1) day and one (1) trip start-up service and training operating personnel shall be included. The services shall be furnished by the Contractor as a part of the work included under this section of the specifications.

D. The System Supplier shall show satisfactory evidence that he maintains, a fully equipped factory organization capable of furnishing adequate service

for the equipment furnished, included replacement parts. Suppliers employing outside organizations for "ON CALL" service shall not be considered.

3.02 GENERAL INSTALLATION

E. Installation of instrumentation and controls shall be in strict compliance with the manufacturer's instruction. The locations of these items as shown on the Contract Drawings are approximate only. Exact locations shall be as approved by the Engineer during construction. It is the duty of the Contractor to obtain, in the field, all relevant information required for proper placement of instrumentation and controls. In the case of interference with other work, proceed as instructed by the Engineer and provide all materials and labor required to prevent construction delays.

F. Execution of the installation shall be in full accordance with codes and local rulings. The Contractor shall be responsible for any expenses that are a result of work performed contrary to said codes and regulations.

G. The System Supplier shall coordinate with the Contractor the installation, the location of process equipment, and connections of process equipment to related equipment panels, subject to the Engineer's approval. The equipment being furnished with electrical controls or instrumentation must be submitted to the System Supplier for approval and coordination with all other control and instrumentation on this project. This engineer will not approve any equipment submittal until this coordination has been accomplished.

3.03 SPARE PARTS

H. Provide the following spare parts packaged for long-term storage and delivered to the owner.

QTY.	MODEL NO.	DESCRIPTION
1	DC	Duplex Pump Controller
1	MM	Motor Current Monitor
1	SP	Control Voltage Surge Protector
1	AP	Antenna Protector
1	UPS	Uninterruptible Power Supply

I. The System Supplier shall maintain an inventory at his facility of at least one (1) part of each type furnished on this project. These parts shall be available for delivery to the owner in a maximum of twenty-four (24) hours.

3.04 DELIVERY AND HANDLING

After delivery to the jobsite, the Contractor shall store the control panel off of the ground in a dry location until such time as it is mounted and supplied with electrical service. The contractor shall also insure that the pump power and control cords, as well as control floats, are protected from submergence until they are properly installed and sealed.

3.05 CONTROL PANEL STAND (when required)

Each control panel stand shall be fabricated per the detail indicated in the plans. Control panel stand legs shall be cemented into the ground a minimum of three feet (3') deep. The control panel shall be bolted at all four corners to the control panel stand with stainless steel hardware. Control panels shall be installed following manufacturer's instructions properly leveled. When installed, the bottom of the control panel shall be approximately four feet (4') above finished grade elevation.

PART 4 - CONTROL PANEL SPECIFICATIONS

4.01 GENERAL

A. Enclosure shall be constructed of a minimum 16 gauge, galvanized steel with stainless steel, quarter turn, quick-release latching mechanisms and a padlocking hasp. Enclosure shall be factory painted with white polyester powder paint inside and out over pretreated surfaces. The enclosure shall be rated NEMA Type 3R and manufactured by Hoffman, Electromate or approved equal. Enclosure backplate shall be a minimum of 12-gauge steel, finished with white polyester powder paint or a conductive, corrosion-resistant coating.

B. All power and control wires shall be stranded copper type MTW. All wiring shall be in covered plastic wireway.

C. All points necessary for external connection in the controller, whether power or control, shall be wired to a terminal strip located at the top or bottom of the enclosure as directed by the engineer. The terminal strip shall be permanently marked with the same designation as the wire connected to it.

D. All power and control wires shall be marked at both ends using self-adhering wire markers. No two wires having different functions within the control panel shall have the same markings.

E. All circuit breakers, starters, and other control devices mounted within the controller panel shall be labeled for identification both within the panel and on the wiring schematic with corresponding designations.

F. Control power shall be 120 volts and shall be protected by a correctly sized circuit breaker. If required, provide a properly sized control power transformer with primary over current protection.

G. Each starter shall be provided with overload protection in all three phases and each individual starter shall have phase failure protection.

H. All selector switches, pilot lights and control devices shall be visible and operable from the Controller exterior door or an interior deadfront panel when required. The deadfront panel shall be constructed of anodized aluminum and shall have a continuous aluminum hinge. An anodized aluminum deadfront shall be utilized when the Controller environment is not conducive to exposed controls or as specified on drawings.

I. All approval drawings shall be prepared per J.I.C. standards for engineers review prior to any fabrication of control equipment. The Controller shall be produced by a UL 508 listed shop. Proof of label availability shall be submitted with above drawing.

J. The controller manufacturer shall provide a written warranty with approval drawings covering all Control materials and parts furnished for a period ending one year after final acceptance of the project. This warranty shall cover all material replacement, all labor, and all travel expenses.

K. The controller manufacturer shall show satisfactory evidence that he maintains a fully equipped factory organization capable of furnishing adequate service for the equipment furnished, including replacement parts within a 150 mile radius of the job site. Suppliers employing outside organizations for "ON CALL" service shall not be considered.

L. The quality establishing brand for the control panel(s) shall be that as manufactured by Control Systems, Inc. of Jackson, MS.

4.02 DUPLEX PUMP STATION CONTROL PANEL

A. SERVICE ENTRANCE: The control panel shall be designed for 120/240-volt, three-phase, four-wire power. The control panel shall be rated NEMA 3R.

B. MAIN BREAKER: Provide a properly sized Main Breaker. In addition, provide a through the door operator mounted on the interior deadfront. The operator shall prevent the deadfront from being opened while the breaker is in the "ON" position.

C. POWER DISTRIBUTION BLOCKS: Provide properly sized Power

Distribution Block(s) (PDB), as required for the control panel. Power distribution blocks shall be manufactured by Marathon, Square D, or approved equal.

D. SERVICE ENTRANCE SURGE PROTECTION DEVICE: Provide a service entrance rated Type 2, AC power distribution Surge Protection Device (SPD), per Component Specifications, designed to protect all types of loads fed from distribution panels, branch panels and/or individual equipment panels. Units shall be UL listed and shall bear a UL label. Surge Protection Device shall be rated for 160kA per phase and 80kA per mode.

E. PHASE/POWER MONITOR: Provide a service entrance Power Monitor (PM), per Component Specifications. During power monitor failure detection, no three phase motors shall be allowed to operate.

F. LIFT STATION PUMPS NO.1 AND NO.2: Provide a combination circuit breaker and Solid State Starter (SSS), per Component Specifications, for each pump. The Solid State Starter shall come complete with a shorting contactor, overload protection, and shall have a programmable soft start and soft stop feature. Starter shall be programmed to soft start and soft stop the motor. Acceptable soft start starter manufactures shall be Allen Bradley model SMC-Flex, Siemens model Sirius, or approved equal. Solid state starter shall be sized for the type required by the servicing power company and for the actual motor horsepower. The actual horsepower may differ than that indicated on drawing. In addition, provide the following additional equipment and controls:

1. Provide a Duplex Pump Controller with built-in remote telemetry unit and lift station analyzer (DC1-2), per Component Specifications. The duplex pump controller shall include all auxiliary modules required to transmit all pump input/output data signals to the existing City of Hattiesburg office site CTU and SCADA system computer. In the automatic mode, the Duplex Pump Controller shall receive stop and start commands based on the level in the pump station wet well as sensed by the float switches (F), as described below in Part 5.

2. Provide a float switch input indicator and test module with improper input sequence indicator and controls (FT1-2), per Component Specifications.

3. Provide Motor Monitors (MM-1 and MM-2) complete with properly sized Current Transformer, both per Component Specifications. The Motor Monitor shall provide a positive run signal, monitor motor running current, and indicate motor running time and motor full load running amperes. In addition, the motor monitor shall

come complete with high and low amperes set points for the pump. The pump motor current shall be transferred to the CTU and displayed on the SCADA system computer via the duplex pump controller, as described above.

G. DUPLEX RECEPTACLE: Provide a 120V, 20 amp, duplex receptacle mounted on the backplate of the controller enclosure for programming and diagnostic equipment use. Receptacle shall come complete with handy box.

H. POWER SUPPLY: Provide a Power Supply (DPS), per component specifications. The power supply shall provide 13.5V DC for the Radio Modem Transceiver and Current Monitor.

I. UNINTERRUPTIBLE POWER SUPPLY: Provide an Uninterruptible Power Supply (UPS), per Component Specifications. The unit shall be a 12V DC battery charger with 24V DC auxiliary power output option if required. In Addition, provide one (1) 12V DC 12 Ah Backup Battery (BAT) for the system in the event of a power failure.

J. RADIO ANTENNA: Provide a Radio Antenna (ANT), per Component Specifications. Radio Antenna shall be Omni or Yagi type unit with gain as required for signal strength. The antenna shall be connected to the radio (RMT), with RG/8U low loss coaxial cable. In addition, a coaxial type Antenna Protector (AP), also per Component Specifications, shall be provided for connection of coaxial cable to the control panel enclosure.

K. RADIO MODEM TRANSCEIVER: Provide a Radio Modem Transceiver (RMT), per Component Specifications and meeting the requirement of FCC Part 90. The RMT shall include built-in radio diagnostics capable of reporting specific unit conditions including programming, link testing, temperature, supply voltage, and Received Signal Strength Intensity (RSSI). Diagnostic data shall be capable of communication online with each transmission with no interruption in the application and with minimum overhead. All electrical connections to the RMT shall be plug-in type for ease of repair.

L. BRANCH FEEDER BREAKERS: Provide the following 120-volt single pole circuit breakers.

1. 20 Amp, 1 pole for Control Power
2. 20 Amp, 1 pole for GFI Weatherproof Duplex Receptacle

A. CONTROL POWER SURGE PROTECTOR: Provide an in-line (series) 120 volt, single-phase, 20A continuous power Surge Protection Device (SPD),

per Component Specifications, designed to protect all of the loads fed from the control power circuit.

B. GROUND FAULT INTERRUPTER RECEPTACLE: Provide a 120 Volt, 15 amp, Weatherproof Duplex GFCI Receptacle mounted on the side of enclosure for electrical hand tool use. Receptacle shall come complete with a weatherproof cover. Cover shall be UL listed for wet locations, with cover closed, and shall be constructed of tough plastic that is resistant to high impact and sunlight. In addition, the cover shall be non-corrosive, non-conductive and protect against rain, snow and ice.

C. COMMON ALARM LIGHT: Provide a weatherproof exterior Alarm Light (AL), per Component Specifications, with red Lexan lens and mounted on the side of building where shown on plans or as directed by the project engineer. The alarm light shall burn dim and steady during normal conditions to indicate electrical power "ON" and lamp good. During any alarm condition, the alarm light shall flash brightly.

PART 5 – FIELD INSTRUMENTATION, CONTROLS, AND MODIFICATIONS

5.01 CENTRAL COMPUTER MODIFICATIONS: Upon installation of radio telemetry and current monitoring equipment, necessary modifications shall be made to the existing central computer and associated equipment to incorporate all existing and new data to be transmitted from the Dogwood Drive Duplex Pump Station. All data installed on this project shall be incorporated into the existing City of Hattiesburg central telemetry unit (CTU) and SCADA system to provide the operator with graphical interface, monitoring and control as well as provide records of appropriate system transactions. The control system supplier shall be responsible for coordinating all work with the City of Hattiesburg and the project Engineer.

5.02 Provide a float control system for the pumping station to operate the pumps. Provide High Level, Lead Start, Lag Start, All Stop Float Switches (F), and Low Water Alarm per Component Specifications, mounted in wetwell. Float switches shall be set at operating levels per Project Engineers direction. The float switch shall be a direct acting switch and contain a single pole mercury switch, which actuates when the longitudinal axis of the float is horizontal and deactuates when the liquid level falls 1" below the actuation elevation. The float shall have a chemical resistant polypropylene casing with a firmly bonded electrical cable protruding. One end of the cable shall be permanently connected to the enclosed mercury switch and the entire assembly shall be capsulated to form a completely watertight and impact resistance unit. Provide the following float switches and control points:

A. High Level Alarm
B. Lag Start
C. Lead Start

D. All Stop
E. Low Water Alarm

PART 6 – RTU SOFTWARE, PROGRAMMING AND LICENSING

6.01 COMMUNICATIONS PROTOCOL: All CTU/RTU=s shall include driver software for industry standard protocols including MODBUS and Bricknet. The Resource Management Facilities communications system shall be based upon an open, nonproprietary protocol. The protocol shall support "store and forward" as well as "peer-to-peer" communications. All protocols must be submitted with complete documentation including but not limited to all data structures and algorithms (such as CRC calculations) required to interface future equipment to the telemetry network. Documentation that the ENGINEER deems insufficient shall disqualify the protocol. The ENGINEER and OWNER reserve the right to disqualify the facilities supplier=s bid based upon a disqualified protocol. **No proprietary closed communication protocols shall be accepted.**

6.02 PROGRAMMING LANGUAGE SOFTWARE: The CTU/RTU programming language software shall be an industry standard so that future expansion and improvements may be economically accommodated. The programming language shall be Microsoft C/C++. Programming shall provide the specific resource management functions and capabilities for the CTU/RTU modules.

6.03 LICENSING: An application must be submitted to the Federal Communications Commission (FCC) in the name of the system owner and a license issued for the operation of VHF band radio data frequency. All application fees and processing fees for this purpose shall be the responsibility of the contractor.

6.04 RADIO PATH SURVEY: Provide a radio path survey to measure radio signal strength and to properly design transceivers, antennas, masts, and any other equipment necessary for data radio communication between each CTU/RTU site. Contractor shall provide radio repeaters as necessary for this purpose. The Owner=s existing facilities will be made available for installation of this equipment including 120V AC power if already existing. To assure reliable radio data communication, the minimum acceptable signal strength between RMT sites necessary for communication links shall be 85 dB. Provide a Radio Path Survey Report to the {Engineer including all measured field data, survey equipment used, site location including latitude and longitude of all sites, and recommended radio equipment and antennas necessary to achieve the required radio signal strength. This report shall be provided to the engineer for review prior to the installation of any radio equipment. Acceptance of the Radio Path Survey Report shall in no way absolve the Contractor from the responsibility for provision of reliable radio communication system required. Apply for, secure, and provide FCC license(s) in the owner=s name for VHF radio frequency as required for data radio communication. All application fees and processing fees for this purpose shall be the responsibility of the Contractor.

PART 7 – COMPONENT SPECIFICATIONS

7.01 SERVICE ENTRANCE SURGE PROTECTION DEVICE (SPD): The SPD shall be mounted in the control panel / motor control center section adjacent to the Main Breaker. The SPD is connected to the main bus in the panel with conductors of size and of no greater length than indicated in the Surge Protection Device manufacturer's installation instructions. SPD shall be a Type 2 device ideal for distribution panels, branch panels and critical loads.

A. SPD shall provide transient voltage surge suppression and electrical high frequency noise filtering. Unit is designed for parallel connection to the main bus. SPD unit uses selenium cells and metal oxide varistors to achieve its performance. Products using gas tubes, spark gaps, silicon avalanche diodes or other components, which under failed conditions would cause system failure, are not acceptable.

B. Manufacturer qualifications: The product of a manufacturer engaged in the commercial design and manufacture of the type of product described herein for a minimum five (5) years.

C. Standards: Product complies with the requirements of the following:

1. cUL
2. CE Compliant
3. UL 1449 3rd Edition
4. UL 1283 Listed
5. NEMA LS1 Compliance

A. Operating Voltage: 120/240 volts, 3-phase, 4-wire + ground

B. Maximum Continuous Operating Voltage (MCOV): greater than 115 percent of nominal voltage for all products. All suppression filter systems comply with NEMA LS 1.

C. Frequency: Operating frequency range of 47 – 64 Hertz.

D. Protection Modes: all phases – phase to ground; all phases – phase to neutral; all phases – phase to phase; and neutral to ground.

E. Rated Single Pulse Surge Current Capacity: at rated voltage, no less than:

160,000 A	Line to Line
80,000 A	Line to Neutral
80,000 A	Line to Ground

80,000 A Neutral to Ground

F. Tested Single Pulse Surge Current Capacity: Filter system is designed to withstand a single pulse surge current up to 150 percent of the design rating and tested at an independent test laboratory. In the absence of testing facilities capable of such testing, testing of individual components or sub-assemblies within a mode is accepted by ANSI C62.41-1991; the testing includes a Category C1 surge test followed by a second Category C1 test. The test results demonstrate the unit does not degrade by more than 10 percent from the initial test.

G. Clamping Voltage: Suppression filter system clamping voltages are in compliance NEMA LS1-1992.

H. High Frequency Filter: EMI-RFI noise rejection or attenuation values comply with test and evaluation procedures of NEMA LS1-1992.

I. Overcurrent Protection: Unit includes coordinated UL 489 or UL 198 listed or recognized overcurrent protection devices.

J. Documentation: Provide product data including equipment manual, electrical and mechanical drawings indicated dimensions weights, mounting provisions, connection details and layout diagram, certified tests of UL1449 Listing/Clamp Voltages and NEMA LS1 compliance, certified single pulse surge current capacity testing, and minimum repetitive surge current capacity testing.

K. Status Indicators: Unit has long-life, solid state, externally visible status indicators that monitor the on-line status of each phase of the unit.

L. Warranty: 25-years Unlimited Free Replacement for service entrance Surge Protection Device.

M. TVSS system shall be equal to SSI SSMA163D1 for service entrance.

TAG	SERVICE
SPD	Service Entrance Surge Protection Device

7.02 PHASE FAILURE/UNBALANCE/UNDER VOLTAGE/REVERSAL RELAY: Phase monitor shall be designed to protect 3-phase motors regardless of size and for use with 200 – 240 or 425 – 485 VAC, 50 to 60 Hz motors to prevent damage. The unit shall constantly monitor the three phase voltages to detect harmful power line conditions, caused by single phasing, low voltage, phase reversal and voltage unbalance. When a harmful condition is detected, an output relay is deactivated after a trip delay. The output relay shall reactivate after power line conditions return to an acceptable level for the specified Restart Delay. The trip

delay shall prevent nuisance tripping due to rapidly fluctuating power line conditions. Phase monitor shall have the following features and functions.

A. Under Voltage:
Trip: -15% of setting for 230V (-10% for 480V)
Reset: -12% of setting for 230V (-8% for 480V)

B. Over Voltage:
Trip: -15% of setting for 230V (-10% for 480V)
Reset: -12% of setting for 230V (-8% for 480V)

C. Phase Unbalance:
Trip: 7% with 5 second trip delay
15% with 1 second trip delay
Reset: 6%

D. Trip Delay:
5 seconds (delay is reduced to 1 second if Phase Unbalance is 15% or greater)

E. Reset Delay:
2 seconds standard (5-60 seconds optional)

F. Voltage Range: 200V to 240V or 425V to 525V

G. Output Rating: 10A resistive @ 240VAC
6A resistive @ 240VAC

H. Operating Temp: -40ºC to +50ºC, -38ºF to +122ºF

I. Storage Temp: -45ºC to +85ºC, -47ºF to +185ºF

J. Enclosure: Lexan, surface mount

K. UL and cUL listed

TAG	SERVICE
PM	Electrical System Power Monitor

7.03 SOLID STATE STARTER: Provide a solid-state starter, including the following features for each motor.

A. GENERAL

This specification describes the requirements for a solid-state motor controller to provide voltage ramp soft starting of a standard AC induction motor. These controllers shall provide a superior alternative to other types of reduced voltage starting such as autotransformer, wye-delta, primary resistor, and part winding. Provide smooth stepless acceleration, reduced inrush current, smaller physical size, and higher duty cycle capability.

B. QUALIFICATIONS

1. Manufacturer

a. The manufacturer shall have a minimum of fifteen (15) years experience in the manufacturer of solid state reduced voltage

controllers.

b. The approved manufacturers are:

2. Support

a. The manufacturer shall maintain factory trained and authorized service facilities within one-hundred (100) miles of the project and shall have a demonstrated record of service for at least the previous ten (10) years.

b. Support personnel are to be direct employees of the manufacturer.

3. Certification

a. To insure all quality and corrective action procedures are documented and implemented all manufacturing locations shall be certified to the ISO-9001 Series of Quality Standards.

b. Third party manufacturers and brand labeling shall not be allowed.

C. REFERENCES

1. The controller shall be designed to meet the applicable requirements of:

a. EN
b. IEC
c. cULus
d. NEMA
e. IEEE
f. VDE

2. These standards shall include:

a. Creep distances and clearances 600V (UL/CSA) and 500V (IEC)
b. Power terminal markings per EN 50005 and EN 60947
c. Dielectric withstand per UL508 and IEC947
d. Noise and radio frequency (RF) immunity per NEMA ICSA1-109
e. Surge withstand per IEEE587 and IEC 801-5

D. WARRANTY

1. The manufacturer shall provide their standard parts warranty for

eighteen (18) months from the date of shipment or twelve (12) months from the date of being energized, whichever occurs first.

2. This warranty applies only to stand alone solid state reduced voltage controllers.

E. RATINGS

1. The solid state reduced voltage controller shall accept an input voltage of 240 VAC, three-phase plus or minus ten percent (+/-10%).

2. Environmental Ratings

   a. Storage ambient temperature range: -20 to 75 degrees C.
   b. Operating ambient temperature range: 0 to 50 degrees C.
   c. The relative humidity range: 5% to 95% non-condensing.
   d. Operating elevation: up to 2000 Meters.

3. Definitions

   a. The Solid State Reduced Voltage Controller Unit shall refer to the actual controller unit that will be mounted within the specified enclosure.
   b. The Solid State Reduced Voltage Controller System shall refer to the controller unit and all items specified under Controller System Options.

F. SOLID STATE REDUCED VOLTAGE CONTROLLER UNIT DESIGN

1. The open-type controller device shall be modular, consisting of a power structure and a logic component.

2. Power Structure

   a. The power structure shall include an SCR bypass.
   b. The power structure shall include a built-in overload.
   c. For ratings 1 Amps to 1250 Amps, the power structure shall consist of three power poles with integral heatsinks.
   d. Power poles are to be modular in design that each is easily replaceable.
   e. Back-to-back SCR pairs shall be the only power switching semiconductor means acceptable. Diode-SCR (Silicone Controlled Rectifier) combinations shall not be acceptable.
   f. SCRs shall have the following minimum repetitive peak inverse voltage ratings.

i. 1400V for units rated 200 to 480V
ii. 1600V for units rated 200 to 600V
iii. 1800V for units rated 230 to 690V

3. Logic Component

a. The logic component shall be a self-contained control module, compatible with the full range of power structures. The control module shall mount directly to the power structure.

b. The control module shall provide digital microprocessor control and supervision of all controller operation, including pulse firing of the SCRs.

c. The control module shall consist of the following:

i. Self-tuning power supply accepting control power input from 100 to 240 VAC or 24V AC/DC, 50/60 Hz.
ii. Logic control circuitry incorporating a latch circuit for three-wire control.
iii. SCR firing circuitry that incorporates an RC snubber network to prevent false firing.
iv. Input / output circuitry
v. Digital programming keypad.
vi. Backlit LCD display.
vii. DPI communication port.

d. The control module shall be easily removed from the power structure, without the need to disassemble associated printed circuit board assemblies.

e. The control terminals shall be easily accessible and located on the front top of the device. The terminals shall be UL rated for 300 Volts, 10 Amps maximum and accept a maximum of two wires rated number 18 to number 14 AWG.

G. CONTROLLER UNIT FEATURES

1. Starting Modes: The controller shall provide the following starting modes as standard.

a. Soft Start with Selectable Kickstart

i. Programmable initial torque value of 0 to 90 percent of locked rotor torque.
ii. Programmable acceleration ramp time from 0 to 30 seconds.
iii. A selectable kickstart, or boost, shall be provided at the beginning of the voltage ramp. The kickstart shall provide a current pulse of 550 percent of the full load current. The kickstart time shall be adjustable from 0 to 2 seconds.

b. Current Limit Start

i. Provides means of limiting the maximum starting current.
ii. Programmable for 50 to 600 percent of full load current

g. Full Voltage Start

i. Provides across the line starting.
ii. Ramp time shall be less than 0.25 seconds.

h. Dual Ramp Start

i. Provides two separate soft start profiles with separately adjustable ramp times and initial torque settings.
ii. Programmable acceleration times from 0 to 30 seconds
iii. Programmable initial torque values from 0 to 90 percent of locked rotor torque.

i. Soft Stop

ii. The Soft Stop option shall provide a voltage ramp-down for an extended motor stopping time
iii. Soft Stop shall be initiated by a Stop input. A coast-to-rest stop shall still be possible with separate stop input.
iv. Programmable voltage ramp down time from 0 to 60 seconds.
v. The load shall stop when the motor voltage drops to a point where the load torque is greater than the motor torque.

j. Preset Slow Speed

i. Provides a slow speed for applications requiring a slow speed
ii. The Present Slow Speed shall provide two jog speeds in the forward direction: high (15 percent of base speed) and low (7 percent of base speed).
iii. The Present Slow Speed option shall provide two jog speeds in the reverse direction: high (20 percent of base speed) and low (10 percent of base speed). Reverse operating of the motor shall be available in the jog mode without use of reversing contractor.
iv. The starting current for the slow speed operation shall be user adjustable from 0 to 450 percent of the motor's full load current rating.
v. The running current for the slow speed operation shall be user djustable from 0 to 450 percent of the motor's full load current rating.

2. The controller shall provide options for the following mutually exclusive starting and stopping modes. Refer to the system specifications for the option (if any) required.

a. Pump Control

i. The Pump Control option shall be implemented to provide closed loop control of a motor to match the specific torque requirements of centrifugal pumps for both starting and stopping. This shall aid in eliminating the phenomena commonly referred to as "water hammer." Methods utilizing Soft Start with Soft Stop shall not be acceptable.
ii. Closed loop control shall be achieved without using external sensors or feedback devices.
iii. Pump Stop shall be initiated by a dedicated Pump Stop input. A coast-to-rest shall still be possible with a separate stop input.
iv. Programmable starting time from 0 to 30 seconds.
v. Programmable stopping time from 0 to 120 seconds.

3. LCD Display

a. An alphanumeric, backlit LCD display shall be provided for controller set-up, diagnostics, status and monitoring. The

display shall be four-line, 16 characters minimum.

b. Digital parameter adjustment shall be provided through a keypad. Analog potentiometer adjustments are not acceptable.

4. Overload Protection

a. Shall meet applicable standards as a motor thermal protective device.
b. Shall utilize three-phase current sensing. The use of two current transformers shall be unacceptable.
c. Selectable trip classes of 10, 15, 20 and 30 shall be provided as standard.
d. Electronic thermal memory shall provide enhanced motor protection.

5. Digital I/O

a. A minimum of four (4) auxiliary contacts shall be provided for customer use.
b. The contacts shall be rated for 240 Volts AC maximum.
c. Contact configuration shall be programmable and contain the following configurations:

i. Normal Operation (N.O. or N.C.)
ii. Up-to-Speed Indication (N.O. or N.C.)
iii. External Bypass
iv. Fault Indication (N.O. or N.C.)
v. Alarm Indication (N.O. or N.C.)
vi. Network Controlled Output (N.O. or N.C.)

6. DPI Serial Communication Port

a. A DPI serial communication port shall be provided as standard.
b. Optional communication protocol interface modules shall be available for connection to Ethernet, Remote I/O, DH485, ControlNet, DeviceNet and RS232/422/485.

7. Monitoring

a. The controller shall provide the following monitoring functions indicated through the LCD display.

i. Three-phase current

ii. Three-phase voltage
iii. Power in kW
iv. Power usage in kWh or mWh
v. Power factor
vi. Motor thermal capacity usage
vii. Elapsed time

8. Protection and Diagnostics

a. The following protection shall be provided as standard with the controller.

i. Pre-start line fault advising of shorted SCR or missing load connection with phase indication.
ii. Running line fault advising power loss, shorted SCR or missing load connection.
iii. Over temperature
iv. Open Gate with phase indication

b. The following programmable protection shall be provided as standard with the controller.

i. Underload
ii. Undervoltage
iii. Overload
iv. Overvoltage
v. Voltage Unbalance
vi. Excessive Starts Per Hour
vii. Phase Reversal
viii. Stall
ix. Jam

c. When fault conditions are detected, the controller shall inhibit starting or shut down SCR pulse firing.
d. Fault diagnostics shall be indicated in descriptive text on the LCD display. The exclusive use of fault codes is unacceptable.
e. An auxiliary contact that is programmable for fault indication shall be provided for customer use.

TAG	SERVICE
SSS	Pump No.1 Solid State Starter
SSS	Pump No.2 Solid State Starter

7.04 POWER SUPPLY: Power supplies shall be for 120V AC primary and 13.5V DC secondary and shall have a frequency range of 47-440 Hz with an inrush current

of 35A. Secondary adjustment range shall be _10% minimum. Line and Load regulation shall be _0.3%. Output ripple shall be no more than 180mV. Voltage Tolerance shall be _1%. Over voltage protection shall clamp at 115-135% and short circuit protection shall be continuous, self-recovering.

TAG	SERVICE
DPS	DC Power Supply

7.05 UNINTERRUPTIBLE POWER SUPPLY: Provide a battery charger for 12V DC Sealed Lead Acid rechargeable batteries with an optional 24V DC isolated output. The maximum battery current charging current is 2.9 amps for a completely dead battery and typically less than 0.4 amps for battery voltages over 10V DC. Trickle charging shall stop at a battery voltage of 13.8V DC. The unit shall operate on 13.8V DC with a current rating of up to 11 amps. Provide an optional, integral battery backed up 24V DC option that is capable of being field mounted onto the unit, for powering external 4-20 mA loops or other instrumentation of up to 1 amp maximum load and shall be isolated from the input power supply if necessary. Provide quick-connect terminal blocks for all connectors. Provide High and Low input power supply voltage.

TAG	SERVICE
UPS	Uninterruptible Power Supply

7.06 RECHARGEABLE BATTERY: The battery shall be a sealed Lead-Acid type with ABS plastic case and spill proof construction allowing safe operation in any position. Nominal voltage shall be 12V DC (six cells in series). The nominal capacity shall be 12.0 Ah at a discharge rate of 20 hours (600 mA to 10.5 volts). Terminal configuration shall be via quick disconnect tabs type F1: 0.187" x 0.032". Operating temperature range shall be at least -4° to +122°F. The unit shall be UL recognized.

TAG	SERVICE
BAT	Standby Power Supply

7.07 RADIO MODEM TRANSCEIVERS: Radio Modem Transceiver shall provide re-farming compliant high speed data link communication with system security and diagnostic reporting. The RMT shall provide full UHF, VHF, and 900 MHz MAS bands as required by the FCC license. The RMT shall be capable of transmitting MODBUS protocol messages. Built-in radio diagnostics shall be included and shall be capable of reporting specific unit programming, link testing, and radio performance statistics including RSSI, temperature, supply voltage, and additional parameters throughout the radio. Radio diagnostic information shall be capable of on-line communication with each transmission with no interruption in the application, and with minimum overhead. The RMT shall also comply with FCC re-farming and power regulations. Bandwidth shall not exceed 12.5 KHz. To assure communications with the OWNER=s existing resources and to assure

compliance with FCC regulations, Radio Modem Transceivers shall be Cal-Amp Model Guardian 100 - No Substitutes shall be accepted.

TAG	SERVICE
RMT	Radio Modem Transceiver

7.08 ANTENNA: Antennas shall be either of two types with masts/heights as indicated in the Signal Path Survey (which shall be conducted by the facilities supplier). Antenna types shall comply with the following:

Omni Directional Type 1:	Cushcraft Model #CRX-150B (or approved equal)
Yagi Directional Type 2:	Cushcraft Model #P154-4 (or approved equal)

Antenna Height:	Description:
20 Feet	Rohn Model #161005GHS (or approved equal)
30 Feet	Rohn Model #H30 (or approved equal)

TAG	SERVICE
ANT	Radio Modem Transceiver Antenna

7.09 BULKHEAD LIGHTNING ARRESTER: Radio lightning protection shall be bulkhead mounted and shall be rated as follows:

Throughput Energy: _600 _J
Frequency Range: 1.5 to 400 MHz
Max. Power: 375 W, VHF

TAG	SERVICE
AP	CTU/RTU Radio Lightning Arrestor

7.10 DUPLEX PUMP CONTROLLER: Provide a Duplex Pump Controller including the following features:

A. OPERATORS AND FRONT PANEL INDICATORS (for each pump)

1. Manual-Off-Automatic selector switch
2. Green “Pump Running” pilot light
3. Red “Pump Failure” pilot light
4. Red “Pump Seal Failure” pilot light

B. A Pump NO.1 LEAD – ALTERNATE – Pump NO.2 LEAD sequence selector switch to select either pump as lead pump or to select that the pumps alternate as lead pump on each call for cycle.

C. Signal inputs for stop, lead pump start, lag pump start, and high/low alarm. The sensors shall be optically isolated and operate on 24V DC with a maximum current of 16 mA for intrinsic safety.

D. Pilot light indicators for each signal input described above, as well as, Pump No.1 and No.2 running inputs.

E. The controller shall operate a pump based upon various combinations of signal inputs. Normal operation shall operate pumps in the following automatic sequence:

1. With no signal inputs activated and both pumps off, a stop input activation shall not cause a pump to operate. With a stop input activated and a lead start input activated, the controller shall start a single pump that pump shall operate until the lead start and stop inputs are deactivated. With both the stop and lead start inputs activated and one pump operating, a lag start input being activated shall operate the second pump. Both pumps shall operate until the lag start, lead start, and stop inputs are deactivated.

2. In the event an input device(s) fails to activate the controller shall operate as follows:

3. With a stop input device failure, the controller shall operate a single pump based upon the status of the lead start input and a field adjustable short cycle delay. The short cycle delay shall keep the pump operating after the start input deactivates for the delay time setting. If the stop input device fails to activate, the controller shall operate one pump as described above with the lag start input starting the second pump. Both pumps shall operate until both start inputs are deactivated and the individual pump short cycle delays have expired. In the event both the stop and lead start inputs fail to operate, the controller shall operate both pumps based upon the status of the lag start input and the individual pump short cycle delay timers. Both pumps shall operate until the lag start input is deactivated and the individual pump short cycle delays have expired. If all input devices fail except the high/low alarm input, the controller shall operate both pumps based upon the status of the high/low alarm input and the individual pump short cycle delay timers. Both pumps shall operate until the high/low alarm input is deactivated and the individual pump short cycle delays have expired.

F. A field adjustable failure time delay for each pump, in the range of 5 seconds to 62 minutes, to start the lag pump at the lead pump start point if the lead pump fails or if the lead pump selector switch is placed in the off position. If a pump fails, the remaining functional pump shall remain the

lead pump on future cycles. The failed pump shall only be called to operate at the lag pump operating point. Normal pump alternation shall resume when the failure condition is corrected and the pump has been reset.

G. Soft stop feature to require the pumps to stop three (3) seconds apart during the condition that both pumps are running when signaled to stop. Soft start feature to require the pumps to start three (3) seconds apart during conditions that the lead and lag pumps are called for simultaneously.

H. Individual field adjustable time controls to delay starting each pump in the automatic mode after power failure or during initial startup.

I. Pump failure, pump seal failure, and high/low alarm red pilot lights shall flash when activated. Provide field selectable controls to allow the seal failure indicator to burn steady when activated.

J. Manual override inputs for each pump, which can be used to manually override the duplex controls', pump outputs when the controls are in the Automatic mode. Inputs shall be provided to start or stop each pump from a remote location.

K. Provide a selectable improper sequence alarm to activate the common alarm in the event the control inputs are activated in the wrong order. The proper order shall be Stop, Lead Start, and Lag Start. The High water alarm shall not be included in the improper sequence test. Provide a selectable Lag Stop Level control to allow the lag pump to stop based upon the status of the lead start level input.

L. Provide automatic pump alternation on pump failure and seal failure when a failure condition is detected and the pumps are in the automatic mode. The failed pump shall be made the lag pump on future cycles until the failure condition is corrected. Pump failure shall require manual reset to clear the failure condition and the seal failure condition shall clear when the failure condition clears. Provide field selectable controls to allow the seal failure condition to not automatically alternate the pumps.

M. An exterior alarm light output that would flash the light brightly during any common alarm condition that includes pump failure, seal failure, improper sequence, and high water alarm. The output shall allow the light to dim glow under normal conditions to indicate that power is on and the lamp is good. A normally open common alarm output contact shall be energized by these alarm conditions. Provide selectable controls to prevent the seal failure input from activating the common alarm output and alarm light.

N. Provide an intelligent Lift Station Analyzer with the following features:

1. Provide the following additional inputs: an external normal power failure input for use in remote telemetry, three (3) 4-20 mA analog inputs with an input resistance of 100 ohms.

2. Provide the following additional outputs: pump no.1 is lead, pump no.2 is lead, pump no.1 selector switch is in the automatic position, and pump no.2 selector switch is in the automatic position.

3. Provide front panel status indicators for pump running, pump failure, pump seal failure, high/low alarm and auxiliary input.

4. Provide selectable first on/first off control to allow the first pump activated to be the first pump off when both pumps are activated.

5. Influent and Effluent flow rate calculation based on floats or portable submersible pressure level transmitter.

6. Provide two serial communications ports, one RS-232 and one RS-485 for interfacing with RTU's, PLC's, radio or telephone modems, operator interfaces, and PC's. The ports shall support industry standard communication protocols, such as MODBUS^{tm} and BrickNet^{tm} at baud rates of 1200, 2400, 4800, and 9600.

7. Provide a user selectable unit address from 000 to 999. The switches shall allow the unit address to be set without software or special equipment.

8. Provide user selectable cross sectional area switches. The switches shall allow the cross sectional area of the wet well to be set without software or special equipment.

9. Provide user selectable float distance setting switches. The switches shall allow the distance between the stop, lead start and lag start floats to be set without software or special equipment.

10. Provide average pump capacity calculation as well as the following other statistics: Pump Runtimes, High/Low and Average Inflow for the last 24 hours, Average flow-capacity loss when more than one pump is running, Estimate Real-Time level based upon current flows and float positions.

11. Provide TRUE Volumetric Influent Flow calculation with long-term averaged error not to exceed 0.2% of Full Scale.

12. The analyzer shall be capable of operating with float switches or a level controller with dry contact outputs for All-Stop, Lead Start and Lag Start during normal operation and use a portable submersible pressure level transmitter (SPLT) for automatic calibration in determining the level positions of all floats. During the calibration process, the SPLT shall automatically start the calibration procedure when it is plugged into the lift-station analyzer, and stop the procedure when it is unplugged.

13. For level control systems using SPLT level sensing, the analyzer shall be capable of using the signal from the SPLT in all calculations.

14. The controller shall monitor key lift station functions such as Seal and Pump Failures, Improper Sequence, General Alarm, High Level Alarm, Pump Currents, pump runtimes, and pump duty cycles.

15. Data-logging and storage in non-volatile memory.

16. Capability for an optional external operator interface hex-keypad for easy entry of floating point numbers, setpoints, menu selections and other parameters that need to be entered into the controller.

TAG	SERVICE
DC1-2	Pump Station Duplex Pump Controller

7.11 FLOAT TEST: Provide input indicator and test module with improper input sequence indicator and controls. The following controls and equipment shall be supplied.

A. Four deadfront panel mounted input pilot light indicators: One for each of the following level control points Stop, Lead Start, Lag Start and High Level alarm.

B. Four deadfront panel mounted pushbuttons to test each pump level control input.

C. Automatic input sequence monitoring, such that if the inputs do not occur in proper order (stop, lead start and lag start); a red pilot light indicator shall be activated.

D. If stop input fails, followed by lead input activation, lead pump shall operate and continue until lead pump input is removed and a field adjustable time delay has expired.

E. If stop input fails, followed by lead and lag input activation, both motors shall operate and continue until their respective input is removed and an

individual field adjustable time delay for each pump has expired.

F. If stop, lead and lag inputs fail, followed by high level input activation, both motors shall operate and continue until the high level input is removed and a field adjustable time delay for each pump has expired.

G. Improper sequence activation shall also activate the common external alarm controls.

H. Improper sequence alarm shall require reset button activation to remove the alarm light.

TAG	SERVICE
FT	Float Test Module

7.01 FLOAT SWITCHES: The float switch shall be a direct acting switch and contain a single pole mercury switch, which actuates when the longitudinal axis of the float is horizontal and de-actuates when the liquid level falls 1" below the actuation elevation. The float shall have a chemical resistant polypropylene casing with a firmly bonded electrical cable protruding. One end of the cable shall be permanently connected to the enclosed mercury switch and the entire assembly shall be capsulated to form a completely watertight and impact resistance unit. Float shall include a bracket for support pipe mounting.

TAG	SERVICE
F	Wetwell Float Switches (Qty. 4)

7.02 MOTOR MONITOR: Provide an electronic solid state Motor Monitor with proportional 4-20mA output, powered by 120 volt AC that will accept a zero (0) to five (5) amp input signal condition the signal to perform ON/OFF or OPEN/CLOSE discrete dry type setpoint contact conditions based on the input signal value. The Motor Monitor shall have the following features.

A. Provide an LCD readout meter providing field adjustable scales of 0-25.0, 0-50.0, 0-100.0, 0-250, 0-500 and 0-1000 to accurately indicate the motor full load current using the 0-5 amp input signal.

B. The Monitor shall be capable of displaying motor total running time up to 99,999.9 hours and be provided with reset capability from the rear of the monitor. The display shall include a non-volatile EEPROM memory backup that does not require battery backup during power failure.

C. Provide two (2) separate field adjustable setpoints, each with discrete, isolated sealed SPDT relay output contacts. The setting of each setpoint shall be adjustable throughout the complete signal range from the front of the Monitor. Each set point shall be provided with a field adjustable "ON"

and "OFF" time delay, adjustable from zero (0) to fifteen (15) seconds. The actual setting of each setpoint shall be able to be displayed on the LCD readout at any time. An LED indicator shall be provided for each setpoint and shall operate as follows:

1. Setpoint No. 1: When setpoint is timing, the indicator shall burn amber. After timing period and current is at or above setpoint, indicator shall burn green.

2. Setpoint No. 2: When set point is timing, the indicator shall burn amber. After set timing period and current is at or above setpoint, indicator shall burn red.

D. Provide a 4-20mA or a 1-5Vdc output signal which is proportional to the amperes being measured. Load maximum impedance should not exceed 330 ohms. Output signal shall be factory calibrated.

TAG	SERVICE
MM-1	Pump No.1 Motor Monitor
MM-2	Pump No.2 Motor Monitor

7.03 CURRENT TRANSFORMER: Current transformers insulation class shall be 0.6 KV BIL, 10 KV Full Wave. They shall be manufactured to meet the requirements of UL1244 and have a minimum accuracy of 60Hz of 2%. Current transformers shall be provided with brass stud terminals and mounting bracket.

7.04 COMMON ALARM LIGHT: Alarm Light shall be RAB catalog number VBR100/GL100PGR or equal. Alarm light enclosure shall be constructed of die cast aluminum with a sturdy mounting bracket. Alarm light shall be suitable for wet location and comply with UL standard 1598, for hazardous locations where the lamp, socket and wiring require protection from rain, corrosive fumes, non-combustible dusts, moisture, non-explosive vapors and gases. The alarm light shall burn dim and steady during normal conditions to indicate electrical power "ON" and lamp good. During any alarm condition, the alarm light shall flash brightly. Alarm light mounted on the side of the enclosure or as directed by the project engineer.

TAG	SERVICE
AL	Common Alarm Light

7.05 CONTROL POWER SURGE PROTECTION DEVICE (SPD): The surge protection device shall be mounted in the control panel in series with the control power circuit. Provide a single-phase, in-line series AC power line surge protector with the following features:

A. Rated voltage shall be 120 VAC @ 60Hz.

B. Current rating shall be 20 Amps @ 40°C.

C. The protection circuitry shall automatically reset after the transient has passed.

D. Protection modes shall be: Line to Neutral, Line to Ground, and Neutral to Ground.

E. Provide three (3) Green LED indicators to indicate protection status of each mode when power is present (L-N, L-G, N-G).

F. Varistors with integral thermally activated elements shall be used to open in the event of overheating due to the abnormal overvoltage, limited current conditions outlined in UL1449. The lower inductance of the varistors shall result in improved clamping performance to fast overvoltage transients.

G. Metal Oxide Varistors (MOV) shall have cured, flame retardant epoxy polymer coating meeting UL94V-0 requirements.

H. Electromagnetic Interference (EMI) filtration shall be incorporated into the unit to dampen unwanted signals from the protected side of the unit.

I. Operating temperature shall be -40 to +70°C.

J. Screw terminals shall be provided for all wiring.

K. Maximum continuous operating VAC shall be 115% of rated line voltage.

TAG	SERVICE
SPD-2	Control Power Surge Protection Device

END OF SECTION

GROUTED RIPRAP

DESCRIPTION:

This work consists of furnishing and placing a protective covering of erosion resistant material including geotextile fabric, where shown on the plans for pier foundation protection, slope, or ditch protection. This work shall be in accordance with these specifications and in reasonably close conformity with the lines, grades and dimensions shown on the plans or established.

MATERIALS: Materials shall conform to the following:

Geotextile fabric shall meet the requirements of Type V with a tensile strength of 200 lbs.

Aggregate for loose riprap, stone riprap for foundation protection, or that to be grouted shall consist of field stone, broken concrete, or rough, unhewn quarry stone as nearly rectangular in section as is practicable. The stone shall be dense, free of clay or shale seams, resistant to the action of air and water, and suitable in all other respects for the purpose intended. Quality requirements for rock to be furnished under these specifications will be checked or tested as determined by the Testing Engineer prior to use and subsequently if deemed appropriate.

CONSTRUCTION DETAILS:

Prior to the construction of riprap or slope paving, the slopes or ground surface shall be shaped to lines and grades, indicated on the plans or directed, and shall be thoroughly compacted by the use of mechanical or hand tamps. Unless otherwise stipulated or directed, slopes shall not be steeper than the natural angle of repose of the material upon which riprap is to be constructed.

The outer edges and the top of the riprap or slope paving where the construction terminates shall be formed so that the surface of the riprap or slope paving will be embedded and even with the surface of the adjacent slope or ground, and the bottom of the riprap or slope paving shall be placed at least two feet below the natural ground surface unless otherwise directed.

All riprap or slope paving shall be started at the bottom of the slope and constructed upward.

INSTALLATION OF GEOTEXTILE FABRIC:

When required by the contract, geotextile fabric shall be placed in the manner and at

locations shown on the plans. The area to receive the fabric shall be prepared to a relatively smooth condition free of obstructions, depressions and debris. The fabric shall be placed loosely without wrinkles or creases with the long dimension perpendicular to the channel. The strips shall be place to provide a minimum overlap of 18 inches. Securing pins with washers shall be inserted through both strips of overlapped fabric at mid-point and not greater than two foot intervals. Additional pins shall be installed throughout the fabric as necessary to prevent any slippage. The fabric shall be placed so that the upstream strip overlaps the downstream strip and the higher slope strip overlaps the lower strip. Each securing pin shall be pushed through the fabric until the washer bears against the fabric and secures it firmly.

The fabric shall be protected from contamination and damaged during installation and placement of the specified cover material. Riprap shall not be dropped from a height greater than three feet. Contaminated fabric shall be replaced, and damaged fabric shall be repaired or replaced as directed at no cost to the Department.

The fabric shall be covered with a layer of the specified material within 14 calendar days after placement. Fabric not covered within this time period shall be removed and replaced at the Contractor's expense if damage or deterioration is evident, as determined by the Engineer.

GROUTED RIPRAP

Grout for grouted riprap shall consist of one part of portland cement and three parts of approved sand thoroughly mixed with water to produce grout having a thick, creamy consistency.

The stones shall be of the size designated in the bid schedule of the contract and shall be placed in the same manner as specified for loose riprap. Care shall be taken during placing to keep earth or sand from filling the spaces between the stones.

After the stones are in place, the spaces between them shall be completely filled with grout from bottom to top and the surface swept with a stiff broom.

CLEANING UP:

Upon completion of the work, the surface of the riprap or slope paving shall be cleaned, surplus material and debris removed and disposed of as directed, and the site of the work left in a neat presentable condition.

WATER SYSTEMS

1. GENERAL

a. This item shall consist of furnishing all of the necessary materials, supervision, labor, tools, equipment and incidentals, and the installation of various types and sizes of water pipe and related items in accordance with the Contract Drawings and Specifications, as stated in the Proposal.

2. APPLICABLE PUBLICATIONS

a. The following publications form a part of these Specifications and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

i. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

(1) A 139 Electric-Fusion (Arc) welded steel pipe (sizes 4 inch and over).

(2) A 252 Welded and Seamless steel pipe piles.

(3) Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field.

(4) C 33 Concrete Aggregates

(5) C 39 Test for Compressive Strength of Cylindrical Concrete Specimens.

(6) D 2922 Density of Soil Aggregate in place by the clear Method (shallow depths).

ii. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

(1) 21.10 Gray Iron and Ductile Iron Fittings, 3 inch through 48 inch for Water and other Liquids.

(2) Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.

(3) Ductile Iron Pipe, Centrifugally Cast in Metal Mods or Sand-line Molds, for Water or other Liquids.

iii. AMERICAN WATER WORKS ASSOCIATION (AWWA)

(1) C 104 Cement-Mortar Lining for Cast Iron Pipe and Fittings for Water and Other Liquids.

(2) C 106 Cast Iron Pipe Centrifugally Cast in Metal Molds, for water and other Liquids.

(3) C 110 Gray Iron and Ductile Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids.

(4) C 111 Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.

(5) C 150 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or other Liquids.

iv. AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO)

(1) T-88 Particle Size Analysis of Soils.

(2) T-89 Determining the Liquid Limit of Soils.

(3) T-90 Determining the Plastic Limit and Plasticity Index of Soils.

(4) T-99 Moisture Density Relations of Soils Using a 5.5 lb. Rammer and 12 inch Drop.

(5) T-191 Density of Soil In-Place by the Sand-Cone Method.

v. MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Standard Specifications for Road and Bridge Construction, current edition.

3. SUBMITTALS

a. The following submittals shall be required for the respective materials used in the work. All submittals shall be submitted through the Contractor to the Engineer.

i. Ductile Iron Pipe: The following submittals shall be required for ductile iron pipe systems utilized on the project. The Contractor shall furnish manufacturer's certificates certifying that the pipe and fittings conform to

the requirements as specified hereinafter under Article 4.0, Materials. In addition, the submittals shall include the following:

(1) Joints: The following shall be required for ductile iron joints.

(2) Drawings or Manufacturer's Catalogue data indicating dimensions and tolerance.

(3) Gaskets shall be tested in accordance with the respective standards as indicated in ANSI 21.11 and results shall be included in the submittals. Test shall be for similar materials on the gaskets and be not more than one year old.

(4) Mechanical Joints: Should the Contractor elect to use mechanical joints in lieu of push-on joints, manufacturer's data shall be submitted in accordance with the "Special Requirements for the Mechanical Joint" as stated in ANSI 21.11 (AWWA C 111).

ii. Ductile Iron Pipe: Submittal Shall Include the Results of the following. Sampling procedure shall be as indicated in ANSI 21.51.:

(1) Tension Test

(2) Impact Test

(3) Low Temperature Impact Test.

iii. PVC Pipe: The Contractor shall furnish manufacturer's certificates certifying that the pipe and fittings conform to the requirements of these specifications and appropriate construction drawings.

4. MATERIALS – WATER SYSTEM:

a. Ductile Iron Pipe:

i. Ductile iron pipe shall be designed in accordance with the latest revision of ANSI/AWWA C51/A21.51), rated working pressure of 350 psi plus a100 psi surge allowance; a 2 to 1 safety factor on the sum of working pressure plus surge pressure in Type 3 laying condition with a depth of cover as required per plans.

ii. Pipe shall have standard asphaltic coating on the exterior. Pipe also shall have a cement mortar lining on the interior in accordance with the latest revision of ANSI/AWWA C104/A21.4. If corrosion protection is required, polyethylene encasement shall be installed prior to the pipes installation in

accordance with ANSI/AWWA C105/A21.5-88.

iii. All non-restrained pipe shall be furnished with push-on type joints such as "Fastite:, or equal. Joints shall be in accordance with the latest revision of ANSI/AWWA C111/A21.11 and shall be furnished complete with all necessary accessories.

iv. Where restrained joint pipe is required, "Fast Grip", "Flex-Ring:, or "Field Flex-Ring" or approved equal shall be used. The length of restrained pipe shall be as tabulated or noted on the plans.

v. Ductile iron fittings shall conform to the latest revisions of either ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53. Fittings, linings, and coatings shall be as specified for the pipe above.

vi. All pipe, fittings and accessories shall be installed and tested in accordance with the latest revision of AWWA C600. Newly installed ductile iron water mains shall be disinfected in accordance with the latest revision of AWWA C651 prior to placing in service.

b. PVC PIPE

i. All PVC pipes for this project shall be SDR 26, Class 160 psi, confirming to the latest edition of ASTM D2241, "*Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)*."

ii. All PVC SDR Series pipe shall be manufactured from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM D2241, consistently meeting and/or exceeding the Quality Assurance test requirements of this standard with regard to pressure rating, material, workmanship, bust pressure, flattening, impact resistance, and extrusion quality.

iii. The pipe shall be manufactured in the USA, using domestic materials, by an ISO 9001 certified manufacturer. Standard lengths of pipe sizes 8" and larger shall be beveled on each end by the pipe manufacturer. All pipes shall be stored indoor after production at the manufacturing site until shipped from factory. This pipe shall carry the National Sanitation Foundation (NSF) seal of approval for potable water applications.

c. Gate Valves: Where indicated on the Plans or directed by the ENGINEER, the CONTRACTOR shall furnish and install gate valves as hereinafter specified.

i. All gate valves shall be cast iron mechanical joint, M.J., Mueller A-2380-20,

equivalent or better.

ii. All gate valves shall be furnished with O-ring packing and 2" square operating nut, AWWA 200lb., for cast iron water main.

iii. Valve boxes shall be cast iron top and bottom. Extension pieces shall be provided as required.

iv. Payment for furnishing and installing gate valves with box shall be made at the contract unit price per valve according to type and size as listed in the proposal.

v. All valves will be set at a perfect 90 degree angle from level pipe, (perpendicular) so as to be easily accessible through properly set valve box as per specifications above.

vi. The CONTRACTOR shall furnish and install either a two-piece or three-piece, slip type, cast iron valve box over each gate valve. Valve boxes will be set over valve operating nut, centered so as to be easily accessible with a valve operating wrench or key. They will be set to correspond with the finished grade of street, lot, or easement. No dirt will be left in box; box will not rest directly on valve body.

d. Fittings, Valves and Hydrants, Etc.:

i. All fittings, valves and valve boxes, hydrants, and other appurtenances are to be set at the points indicated on the plans, or as directed by the ENGINEER, and omission to do so shall be corrected by the CONTRACTOR without extra cost to the OWNER.

ii. All fitting shall either be Ductile Iron Compact (ANSI/AWWA C153/A21.53) or Cast Iron (ANSI/AWWA-C110/A21-10) and shall have mechanical joint ends and mechanical joint restraints (Series 1120) and shall be incorporated in the design of the follower gland and shall include a restraining mechanism which, when actuated, imparts multiple wedging action against the pipe, increasing its resistance as the pressure increases. Flexibility of the joint shall be maintained after burial. Glands shall be manufactured of ductile iron conforming to ASTM A 536-80. Restraining devices shall be of ductile iron heat treated to a minimum hardness of 370 BHN. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to ANSI/AWWA A21.11 and ANSI/AWWA C153/A21.53 of latest revision. Twist-off nuts shall be used to insure proper actuating of the restraining devices.

iii. The mechanical joint restraint device shall have a working pressure of a least

250 psi with a minimum safety factor of 2:1 and shall be EBAA Iron., MEGALUG or equal.

iv. To improve the sealing capacity, the gaskets for all mechanical joints conforming to the requirements of ANSI/AWWA C110/A/21.10, C111/A21.11, or C153/A21.53 shall be of a design that causes the gasket to deflect approximately 30% during assembly of the mechanical joint. The gasket material shall conform to the requirements of ANSI/AWWA C111/A21.11, Section 1-6.4 of the latest revision. Mechanical joint gaskets shall be EBAA Iron's EBAA Seal- Improved Mechanical Joint Gasket or approved equal.

v. Fittings (bends, tees, plus, and caps) shall be securely braced by mechanical joint restraints, as indicated on the Plans, to prevent the possibility of blowing off under pressure. And a full length of pipe shall be installed on each end of the fitting. Then cut pieces can be installed beyond the full lengths of pipe.

vi. The prices bid furnishing and installing valves, fittings, etc., shall include compensation for furnishing mechanical joint restraints as required at beds, tees, plugs and caps. No separate or extra compensation will be allowed for any of the above specified incidental work or material.

e. Plugs and Caps:

i. Where indicated on the Plans, or as directed by the ENGINEER, the CONTRACTOR shall install plugs for anticipated future extensions by placing a branch fitting (tee or cross) in the line and plugging the unused branch or branches. In general, such plugs will be located at street intersections where present plans provided lines running in only two or three directions from the intersections and where, in the opinion of the ENGINEER, a connection may be required for future extension. Where "deadend" lines are installed, the ends of such lines shall be plugged or capped as required.

ii. For the various hot taps required according to the plans, and up to 12 inches, the JCM 432, stainless Tapping Sleeve shall be required. The CONTRACTOR shall furnish all materials for these various taps and shall make the tap as directed by the Engineer.

f. Casing Pipe: Steel pipe utilized as casing at locations shown on the Contract Drawings shall be new round piling pipe conforming to the requirements of ASTM A 252 or A 139. Casing diameter shall be adequate to allow pushing of the specified diameter of water pipe and make proper connections at the ends. Minimum Wall Thickness for steel casing is 0.375 inch.

g. Wash Gravel Bedding Material: Select Granular material for pipe bedding shall be

coarse concrete aggregate. The coarse concrete aggregate shall conform to the gradation sizing Number 467 specified in Table 2 of ASTM Standard Specification C-33. (See Following Table:)

SIZE NO. 467

Nominal Size (Sieves w/Square Openings)	Percent Passing by Weight
2"	100
1 - 1/2"	0 - 5
No. 4	35 - 70
3/8"	10 - 30
3/4"	95 - 100

h. Stabilization Material: Stabilization Material shall be a pit run mixture of sand and gravel. The sand shall be hard, sharp and durable particles. All gravel shall pass a 1 - 1/2" sieve.

i. Concrete: Concrete shall be in accordance with the requirements of Technical Specifications – CONCRETE

j. Select Backfill:

i. General : The select material shall be composed of a natural or artificial mixture of sand, silt, clay or soil binder or other material of satisfactory cementing value. The sand shall be hard, sharp, and durable particles, preferably siliceous. The binder shall be a grade of clay or other material having satisfactory cementing qualities and shall be homogenous in character, free from vegetable matter, clay balls or other deleterious substances that cannot be classed as serviceable base material.

ii. Gradation: Any coarse aggregate contained in the material shall pass the one and one-half (1-1/2), sieve and not more than thirty-five percent (35%) shall be retained in the Number 10 sieve. The plasticity index (P.I.) shall not exceed 12, nor shall the liquid limit exceed 30.

iii. The composite selected sand-clay material passing the Number 10 sieve shall conform to the following minimum and maximum gradation limits:

Sieve	Percent Passing by Weight
Number 40	40
Silt (.05 to .005 mm)	30
Number 270	8
Clay (Passing .005 mm)	3
Number 60	3

iv. Backfill: All other backfill shall consist of excavated material removed from the trench.

5. CONSTRUCTION:

a. Earthwork:

i. Site Preparation:

(1) Topsoil shall be stripped and stockpiled in accordance with Technical Specifications.

(2) All vegetation such as brush, heavy sod, heavy growth of grass, decayed vegetative matter, rubbish and any other unsuitable material within the area of trenching shall be stripped or otherwise removed before the trenching is started, and in no case shall such objectionable material be allowed in the trench.

(3) Stripping operation shall be to a depth of not less than 6 inches in all cases.

b. Asphalt or Concrete Removal: Before trenching operations begin, the existing asphalt or concrete pavement shall be scored or cut to a proper depth to give a straight vertical edge when removed. The asphalt or concrete shall be disposed of offsite by the Contractor. While removing the asphalt or concrete in the trench line, never shall the adjacent asphalt be raised or pulled from its base.

c. Trenching:

i. The Contractor shall determine all requirements for trench dimensions, alignment, and grades. The trench shall be excavated in conformance with all federal, state and local regulations for the protection of the workmen. Shoring, sheeting and/or a moveable form shall be used as required to provide earth stability during the laying operations.

ii. The final excavation of the trench for the pipe installation shall be a indicated on the Plans. Minor variations in horizontal (within the permanent easement) or vertical alignment during construction shall be made during construction (with the Engineer's approval) to facilitate ease of installation and operation (due to potential conflicts; i.e., utility conflict) at no additional cost to the Owner except for additional piping, if any. The trench from the top of the pipe down to the bottom of the bedding shall be of a consistent width as indicated on the plans. Should the excavated width of the trench be larger than the design width, the Engineer may direct that a higher type or class of bedding be used; or other adjustments be made to increase the load carrying capacity of the pipe.

iii. The Contractor shall not excavate more trench in advance of pipe laying than is necessary to perform the work efficiently. No more than 100 feet of open trench shall be allowed unless approved by the Engineer.

iv. Excavated material shall be place in a manner that will not obstruct sidewalks, driveways, or other structures. Excavated material shall not be placed so as to surcharge the walls and jeopardize trench stability.

d. Disposal:

i. The Contractor shall satisfactorily dispose of all excess earth from excavations either in approved (by the Engineer) areas within the construction limits or away from the project in disposal sites obtained by the Contractor.

ii. The Contractor will be permitted to mound excess earth over the trench to a maximum depth of 12 inches above the original ground surface or finished grade where the trench is located in unimproved property. Wasting of excess excavated material will not be permitted within any road ROW. All material within the construction limits shall be placed so that natural drainage is maintained and the surface shall be graded to a smooth and uniform appearance. The disposal of waste and excess excavating materials, including hauling, handling, grading, and surfacing shall be subsidiary obligation of the contractor and no separate payment will be made. Therefore, the cost of such work shall be included in the Contract Unit Price for installation of water pipe.

e. Dewatering:

i. The site shall be kept free of surface water at all times. The Contractor shall install drainage ditches and dikes and shall perform all pumping and other work necessary to divert or remove rainfall and other accumulations of surface water from the excavations. The diversion and removal of surface

water performed in a manner that will prevent the accumulation of water behind temporary structures or at any other locations within the construction area where it may be detrimental. The Contractor shall provide, install, and operate sufficient trenches, sumps, pumps, hoses, piping, well points, deep wells, etc., necessary to depress and maintain the ground water level at least one foot below the base of the excavation during all stages of construction operations. The ground water table shall be lowered in advance of excavation and maintained a minimum of one foot below the lowest excavation subgrade made until the structure has sufficient has sufficient strength and weight to withstand horizontal and vertical soil and water pressures.

ii. Where groundwater is encountered, the Contractor shall make the effort necessary to secure a dry trench bottom before laying pipe. In sandy and in other suitable type soils, dewatering shall be done by well pointing. If, in the opinion of the Engineer, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Engineer may order the Contractor to excavate below grade and place not less than 6 inches of graded crushed stone fill material over the trench bottom to form trench drains to suitably located sumps and to remove the water by bailing or pumping. The graded crushed stone fill material shall be placed at the Contractor's own expense and shall be of such depth that there shall be not water in bell holes at the time of coupling pipe. All costs of equipment, labor, and materials required for dewatering shall be included in the bid price.

f. Bedding:

i. The Contractor shall satisfactorily shape the trench area (to specified line, grade and cross section) to receive bedding material. The bottom of the trench shall be undisturbed soil. Should the Contractor over excavate the trench without direction from the Engineer, the trench shall be brought up to grade with select backfill and compacted to at least 90% of maximum laboratory density as measured by AASHTO T 99. Such additional work and materials for over excavation without direction of the Engineer shall be at the expense of the Contractor.

ii. Holes for the bells shall be provided at each joint in the subgrade or in the granular fill bedding material as required. The holes shall be no larger than necessary for joint assembly and assurance that the pipe barrel will lie flat on the material. The Contractor shall install the proper bedding for the respective type of pipe and depth of installation as shown in the details and schedules on the plans. When depths vary in a particular manhole run, the Contractor shall change bedding systems in accordance with the depth installation requirements.

iii. Stabilization Materials: When the subgrade is found to be unstable or to include ashes, refuse, organic material, or other unsuitable material, the Engineer may direct that the subgrade be over excavated to remove such material. The depths of over excavation shall be as directed by the Engineer. Stabilization material shall be placed into the over excavated area of the trench and shall be paid for in accordance with these specifications. Stabilization shall be compacted to at least 90% of maximum laboratory density in six inch lifts.

iv. Bedding Materials:

(1) As detailed in the plans, bedding material shall be placed to the specified depth below the pipe and tamped to a minimum of 90% of maximum laboratory density as determined in accordance with AASHTO T 99. Following placement of pipe, additional bedding material shall be placed and consolidated under the haunches of the pipe. Special tools shall be required to work the material into place and leave no voids beneath the pipe. The bedding material shall be tamped along the spring line (or along the top of the bedding material as indicated) of the pipe to sufficiently compact the material insofar as practical.

(2) The Engineer may direct additional moisture be added to the bedding material to aid in the compaction effort. Mechanical tampers may be employed to aid the process depending on the particular bedding required, additional bedding shall be added and tamped to a minimum of 90% of maximum laboratory density, with AASHTO T-99.

v. Select Backfill: Select backfill shall be placed in 6 inch lifts and tamped to a minimum laboratory density with AASHTO T-99. Overall depth of the select backfill shall be as directed by the Engineer.

vi. Normal Condition Bedding: Under normal conditions the trench bottom shall be undisturbed earth shaped to the specified line, grad, and cross section with proper bell holes at each joint to insure that pipe barrel lies flat on trench bottom. The bedding material will be selected native materials excavated from the trench and placed in two lifts. The first lift being placed up to the spring line of the pipe and extending out to the trench walls and hand tamped to a minimum of 90% of maximum laboratory density. Special care shall be used in placing and tamping bedding to insure no voids under the haunches of the pipe. The second lift shall extend to approximately 6" above pipe (Material permitting) and hand tamped to 90% density.

g. Backfilling: Upon completion of placement of select material the excavated materials shall be immediately placed back into the trench. Specific requirements are:

i. Backfill requirements for road crossings, parking lots, driveways, and sidewalks shall be in accordance with Technical Specifications

ii. Backfill requirements for unimproved areas (pastures, wooded areas) shall consist of placement and shaping of the soil in such a manner as to allow maximum natural consolidation. No compaction of the general backfill in the unimproved areas will be required, except that caused by conventional shaping equipment.

iii. No debris shall be used as backfill which has a volume in excess of one-half of one cubic foot or weight excess of 75 pounds.

h. Sheeting Removal: Wooden sheeting or other thick sheeting or shoring members which have been driven or otherwise placed along the trench walls to an elevation below the spring line of the pipe shall be cut off at the spring line or higher and left in place.

i. Grading and Grassing: Final grading and grassing shall be in accordance with Technical Specifications.

j. PIPE HANDLING AND STORAGE: Pipe shall be handled, staked, and stored in accordance with manufacturer's printed literature. The Contractor shall provide security as required to prevent damage by vandals. PVC pipe shall be shaded from sunlight for extended lengths of time. Pipe damaged during storage and handling shall be rejected.

k. PIPE LAYING:

i. Each pipe shall be laid true to line and grade and in such manner as to form a close concentric joint with the adjoining pipe and to prevent sudden offsets of the flow line. As the work progresses, the interior of the water shall be cleared of all dirt and superfluous materials of every description. Where cleaning after laying is difficult because of small pipe size, a suitable swab or drag shall be kept in the pipe and pulled forward past each joint immediately after the jointing has been completed. Trenches shall be kept free of water and pipe shall not be laid when the condition of the trench or the weather is unsuitable for such work. At times when work is not in progress, open ends of pipe and fittings shall be securely and satisfactorily closed so that no trench water, earth, or other substance will enter the pipe or fittings.

ii. The water main shall maintain a minimum of 30 inches of cover at all times.

iii. Pipe laying shall be performed in such a manner that no foreign material enters the pipe. The Engineer may require that before lowering pipe, heavy canvas bags be placed over each end, and left in place until joints are ready to

be made. If water is in the trench, the seals shall remain in place until the trench is pumped completely dry. If conditions are unsuitable, no pipe shall be laid until satisfactory laying conditions are obtained in accordance with the above specified requirements.

l. PIPE JOINTING: Piping shall be jointed in accordance with the manufacturer's printed recommendations. Gaskets shall be firmly set within the bells and grooves as required. The manufacturer's recommended lubricant or an approved equal shall be applied for slip type joints.

i. Ductile Iron Pipe Joint Construction: The installation and jointing of ductile iron pipe shall generally conform to the applicable provisions of AWWA Standard Specifications C-600 for pipe laying.

ii. Where mechanical joint pipe is used, the surfaces which come in contact with the gasket shall be thoroughly brushed with a wire brush just prior to assembly. The gasket should be brushed with soapy water prior to installation to remove loose dirt and to lubricate gasket as it is forced into its retaining space.

iii. When tightening bolts, it is essential that the gland be brought up toward the pipe flange evenly. The bolts should be partially tightened; the bottom bolt first, then the top; next the bolts on either side; and last , the remaining bolts. Overstressing of bolts to compensate for poor installation will not be permitted. Bolt torque shall be in accordance with manufacturer's specifications.

iv. All joints of whatever type shall be completely water tight after being subjected to the required tests.

m. BORINGS: Borings shall be accomplished in accordance with Mississippi State Highway Department Standards. The contractor shall provide all necessary sheeting, bracing, cribbing, supports and appurtenances to insure the proper line and grade throughout the entire length of the crossing.

i. Casing Pipe: Casing Pipe shall be installed as indicated on the Contract Drawings. Joints shall be completely welded to provide structural integrity and shall be watertight.

ii. Carrier Pipe: Carrier pipe may be any of the allowed options of piping. However, the piping and joints shall be capable of withstanding the stress exerted by pushing the pipe within the casing.

iii. Carrier Pipe Supports: Supports for the carrier pipe shall be as recommended by the manufacturer for such installation. Supports shall be spaced to

adequately support the piping under all conditions.

iv. Casing Seal: The annulus between the casing and carrier pipe shall be sealed at each end by installing WMSON Type U end seals, as manufactured by T.D. Williamson, Inc. Tulsa, Oklahoma, or equal, in accordance with the instructions of the manufacturer of the seals.

6. SEPARATION of WATER and SEWER MAINS: The water and sewer specifications should state that the water line be constructed no less than 10 feet horizontally and 18" vertically with water line over sewer line. If those conditions cannot be met then they will be decided on a case by case basis.

7. TESTING

a. Ductile Iron Pipe:

i. Field Inspection: The Engineer shall perform visual inspection of the material prior to placement by the Contractor. The Engineer may make non-destructive tests to determine the soundness of the pipe. The Contractor shall assist the Engineer in handling and moving the pipe as required.

ii. Material Test: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittals. No other material test shall be required.

b. Steel Casing Pipe: Material test shall be included as part of the submittal. No other material test shall be required.

c. Compaction Tests:

i. Compaction tests shall be performed in accordance with AASHTO T 191 or ASTM D 2922. Maximum compaction shall be determined in accordance with AASHTO T 99.

ii. Compaction tests for water pipe related work shall not be less than as follows:

NUMBER of COMPACTION TESTS AASHTO T-99, AASHTO T-191, or ASTM D 2922		
Stabilization Material	1	Oner per 100 C.Y.
Bedding Material	2	One per 600 L.F.
Tampered Backfill	2	One per 600 L.F.

d. Hydrostatic Testing:

i. After the pipe has been laid, all newly laid pipe or any valved section thereof shall be subjected to a hydrostatic pressure of at least 1.5 times the working pressure at the point of testing and not less than 1.25 times the working pressure along the test section, for a minimum of 2 hours.

ii. And all test shall be in accordance with AWWA Standard C600-82, Section 4.

iii. Allowable leakage shall be no more than that determined by the following formula:

$$L = \frac{SD\sqrt{P}}{133,200}$$

iv. In which L is the allowable leakage in gallons per hour; S is the length of pipe tested in feet; D is the nominal diameter of the pipe, in inches; and P is the average test pressure during the leakage test in pounds per square inch.

v. These tests are to be made a the Contractor's expense and he is to provide all necessary fittings, equipment, appliances and any other necessary items to conduct the tests in a manner satisfactory to the ENGINEER. All costs incidental to conducting these tests are to be included in the prices bid for the various items of construction as no separate or extra compensation is to be allowed therefore. Record of testing is to be furnished to the OWNER.

8. CLEANING AND STERILIZING:

a. Before each section of work is placed in service, it shall be thoroughly flushed to remove any dirt or other foreign material from inside the lines; and the inside of the lines shall be sterilized by pumping into and though them as solution of chlorine of 50mg/l for 24 hours in such manner as to meet the requirements of the State Board of Health.

b. At least two (2) samples of chlorine free water, taken from each section shall be submitted to the State Board of Health for examination to determine if the system is free from organisms of the Coli-Aerogenes group. If such samples are not negative from organisms of the Coli-Aerogenes group, the system shall be disinfected and redisinfected in a manner meeting the requirements of the State Board of Health, until the system is freed of contamination.

c. All water mains will be flushed, chlorinated and rechlorinated until two (2)

consecutive negative water samples are obtained by the Local Health Department. The samples shall be collected by the Certified Operator of the system or the Professional Engineer of the project.

d. The CONTRACTOR shall be responsible for the conduct of all of the above defined activities, and any and all costs incident thereto shall be included in the prices bid for the various items of construction as no separate or extra compensation is to be allowed therefore.

9. WATER SERVICE

a. Service pipe shall be ¾" Polyethylene Plastic tubing meeting the following specifications:

1. 200 PSI and complying with AWWA standards when tested by methods ASTM 1599, copper tube size (O.D.) farmable for use with standard heavy duty waterworks brass flare fittings.

2. Tubing shall comply with the standards and bear the seal of the National Sanitary Foundation.

3. All connections and fittings shall be Ford brand.

10. TRACER WIRE

a. Materials

1. General

i. All trace wire and trace wire products shall be domestically manufactured in the U.S.A.

ii. All trace wire shall have HDPE insulation intended for direct bury, color coated per APWA standard for the specific utility being marked, green for Sewer.

2. Trace wire

   i. Open Trench - Trace wire shall be #12 AWG Copper Clad Steel, High Strength with minimum 450 lb. break load, with minimum 30 mil HDPE insulation thickness.

   ii. Directional Drilling/Boring - Trace wire shall be #12 AWG Copper Clad Steel, Extra High Strength with minimum 1,150 lb. break load, with minimum 30 mil HDPE insulation thickness.

   iii. Pipe Bursting/Slip Lining - Trace wire shall be 7 x 7 Stranded Copper Clad Steel, Extreme Strength with 4,700 lb. break load, with minimum 50 mil HDPE insulation thickness.

3. Connectors

i. All mainline trace wires must be interconnected in intersections, at mainline tees and mainline crosses. At tees, the three wires shall be joined using a single 3-way lockable connector. At Crosses, the four wires shall be joined using a 4-way connector. Use of two 3-way connectors with a short jumper wire between them is an acceptable alternative.

ii. Direct bury wire connectors – shall include 3-way lockable connectors and mainline to lateral lug connectors specifically manufactured for use in underground trace wire installation. Connectors shall be dielectric silicon filled to seal out moisture and corrosion, and shall be installed in a manner so as to prevent any uninsulated wire exposure.

iii. Non locking friction fit, twist on or taped connectors are prohibited.

4. Termination/Access

i. All trace wire termination points must utilize an approved trace wire access box (above ground access box or grade level/in-ground access box as applicable), specifically manufactured for this purpose.

ii. All grade level/in-ground access boxes shall be appropriately identified with "water" cast into the cap and be color coded.

iii. A minimum of 2 ft. of excess/slack wire is required in all trace wire access boxes after meeting final elevation.

iv. All trace wire access boxes must include a manually interruptible conductive/connective link between the terminal(s) for the trace wire connection and the terminal for the grounding anode wire connection.

v. Grounding anode wire shall be connected to the identified (or bottom) terminal on all access boxes.

vi. Service Laterals - Trace wire must terminate at an approved grade level/inground trace wire access box, located at the edge of the road right-of-way, and out of the roadway.

vii. Hydrants – Trace wire must terminate at an approved above-ground trace wire access box, properly affixed to the hydrant grade flange. (affixing with tape or plastic ties shall not be acceptable)

viii. Long-runs, in excess of 500 linear feet without service laterals or hydrants - Trace wire access must be provided utilizing an approved grade level/in-ground trace wire access box, located at the edge of the road right-of-way, and out of the roadway. The grade level/in-ground trace wire access box shall be delineated using a minimum 48" polyethylene marker post, color coded per APWA standard for the specific utility being marked.

5. Grounding

i. Trace wire must be properly grounded at all dead ends/stubs

ii. Grounding of trace wire shall be achieved by use of a drive-in magnesium grounding anode rod with a minimum of 20ft of #12 red HDPE insulated copper clad steel wire connected to anode (minimum 1.5 lb.) specifically manufactured for this purpose, and buried at the same elevation as the utility.

iii. When grounding the trace wire at dead ends/stubs, the grounding anode shall be installed in a direction 180 degrees opposite of the trace wire, at the maximum possible distance.

iv. When grounding the trace wire in areas where the trace wire is continuous and neither the mainline trace wire or the grounding anode wire will be terminated at/above grade, install grounding anode directly beneath and in-line with the trace wire. Do not coil excess wire from grounding anode. In this installation method, the grounding anode wire shall be trimmed to an appropriate length before connecting to trace wire with a mainline to lateral lug connector.

v. Where the anode wire will be connected to a trace wire access box, a minimum of 2 ft. of excess/slack wire is required after meeting final elevation.

b. <u>Installation</u>

1. General

i. Trace wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, proper locating of wire without loss or deterioration of low frequency (512Hz) signal for distances in excess of 1,000 linear feet, and without distortion of signal caused by multiple wires being installed in close proximity to one another.

ii. Trace wire systems must be installed as a single continuous wire, except where using approved connectors. No looping or coiling of wire is allowed.

iii. Any damage occurring during installation of the trace wire must be immediately repaired by removing the damaged wire, and installing a new section of wire with approved connectors. Taping and/or spray coating shall not be allowed.

iv. Trace wire shall be installed at the bottom half of the pipe and secured (taped/tied) at 5' intervals.

v. Trace wire must be properly grounded as specified.

vi. Trace wire on all service laterals/stubs must terminate at an approved trace wire access box located directly above the utility, at the edge of the road right-of-way, but out of the roadway. (See Trace wire Termination/Access)

vii. At all mainline dead-ends, trace wire shall go to ground using an approved connection to a drive-in magnesium grounding anode rod, buried at the same depth as the trace wire. (See Grounding)

viii. Mainline trace wire shall not be connected to existing conductive pipes. Treat as a mainline deadend, ground using an approved waterproof connection to a grounding anode buried at the same depth as the trace wire.

ix. All service lateral trace wires shall be a single wire, connected to the mainline trace wire using a mainline to lateral lug connector, installed without cutting/splicing the mainline trace wire.

x. In occurrences where an existing trace wire is encountered on an existing utility that is being extended or tied into, the new trace wire and existing trace wire shall be connected using approved splice connectors, and shall be properly grounded at the splice location as specified.

2. Water System

i. A mainline trace wire must be installed, with all service lateral trace wires properly connected to the mainline trace wire, to ensure full tracing/locating capabilities from a single connection point.

ii. Lay mainline trace wire continuously, by-passing around the outside of valves and fittings on the North or East side.

iii. Trace wire on all water service laterals must terminate at an approved trace wire access box color coded blue and located directly above the service lateral at the edge of road right of way.

iv. Above-ground tracer wire access boxes will be installed on all fire hydrants.

v. All conductive and non-conductive service lines shall include tracer wire.

c. Prohibited Products and Methods

1. The following products and methods shall not be allowed or acceptable

   i. Uninsulated trace wire

   ii. Trace wire insulations other than HDPE

   iii. Trace wires not domestically manufactured

   iv. Non locking, friction fit, twist on or taped connectors

   v. Brass or copper ground rods

   vi. Wire connections utilizing taping or spray-on waterproofing

   vii. Looped wire or continuous wire installations, that has multiple wires laid side-by-side or in close proximity to one another

   viii. Trace wire wrapped around the corresponding utility

   ix. Brass fittings with trace wire connection lugs

   x. Wire terminations within the roadway, i.e. in valve boxes, cleanouts, manholes, etc.

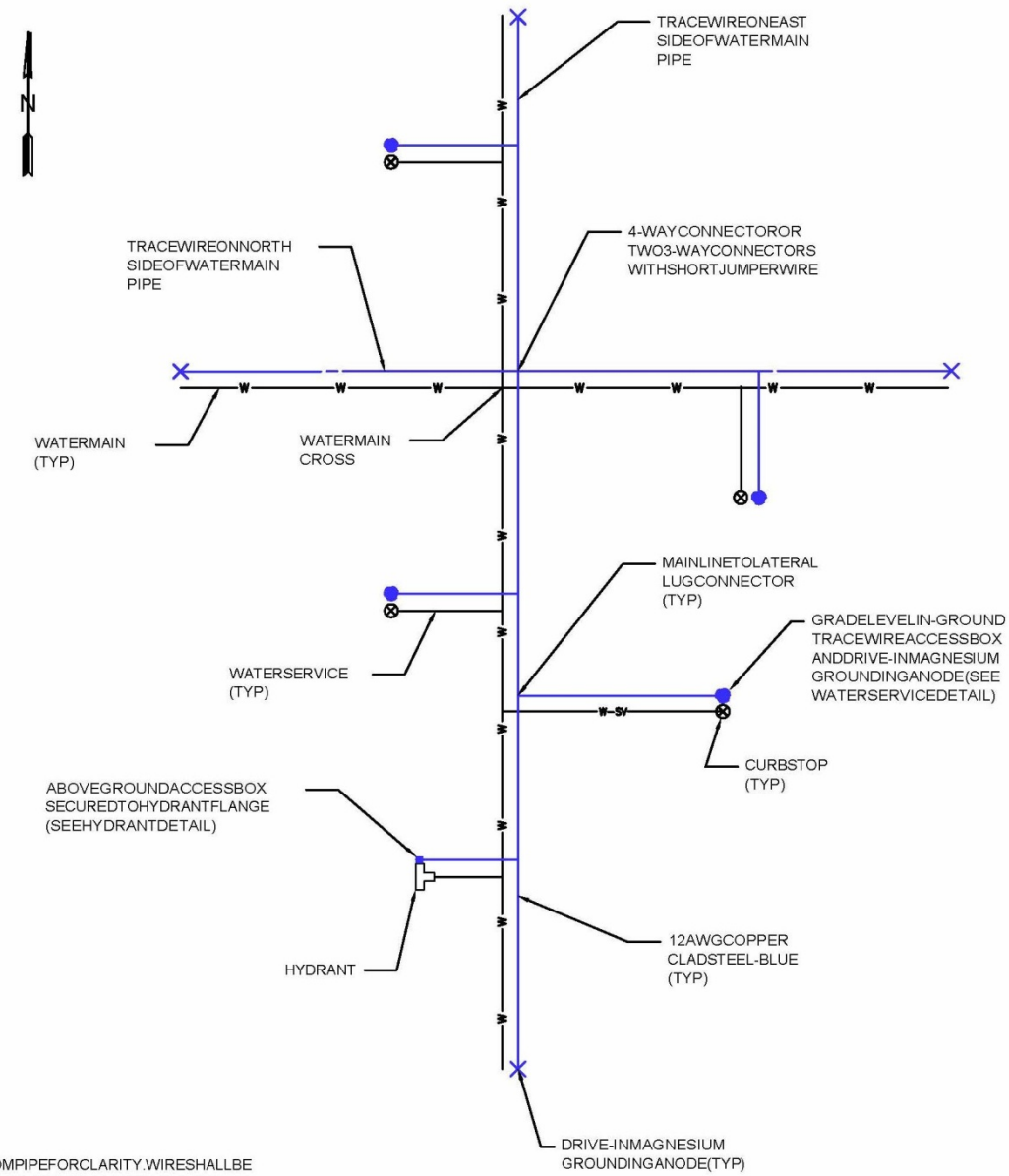
   xi. Connecting trace wire to existing conductive utilities

d. Testing

1. All new trace wire installations shall be located using typical low frequency (512Hz) line tracing equipment, witnessed by the contractor, engineer and facility owner as applicable, prior to acceptance of ownership.

2. This verification shall be performed upon completion of rough grading and again prior to final acceptance of the project.

3. Continuity testing in lieu of actual line tracing shall not be accepted.

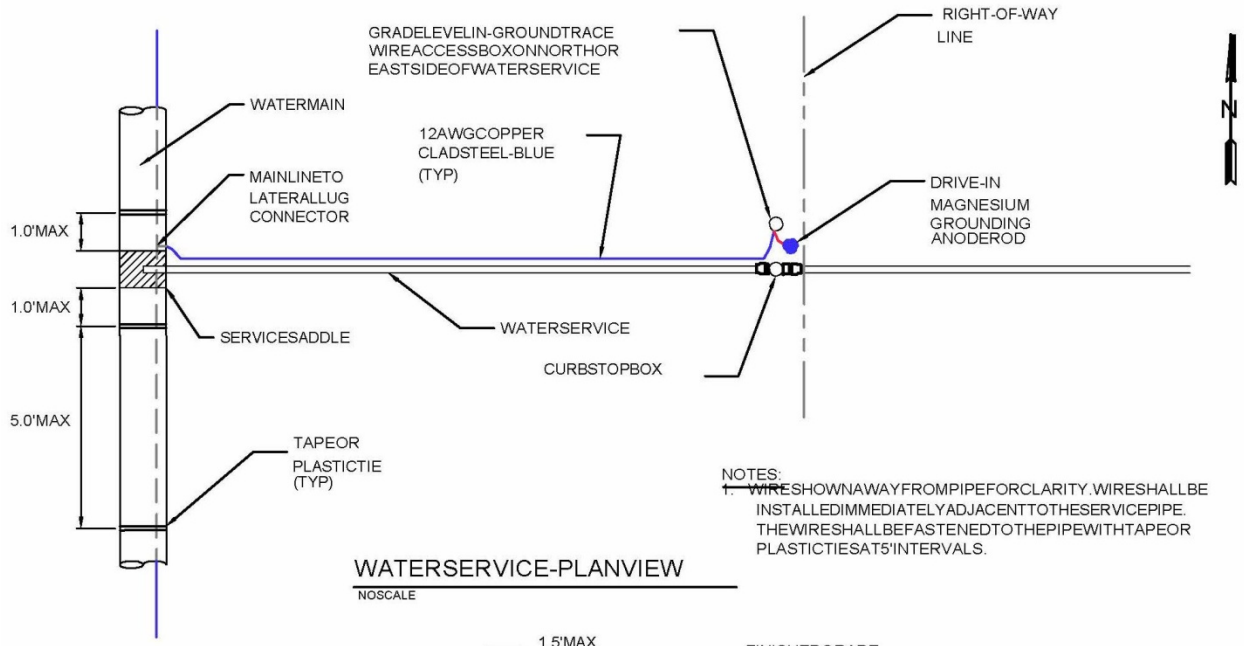


NOTES:

1. WIRESHOWNAWAYFROMPIPEFORCLARITY.WIRESHALLBE INSTALLEDONTHEBOTTOMSIDEOFTHEPIPEBELOWTHE SPRINGLINE.THEWIRESHALLBEFASTENEDTOTHEPIPE WITHTAPEORPLASTICTIESAT5'INTERVALS.

TRACEWIREPLAN(WATER)

NOSCALE



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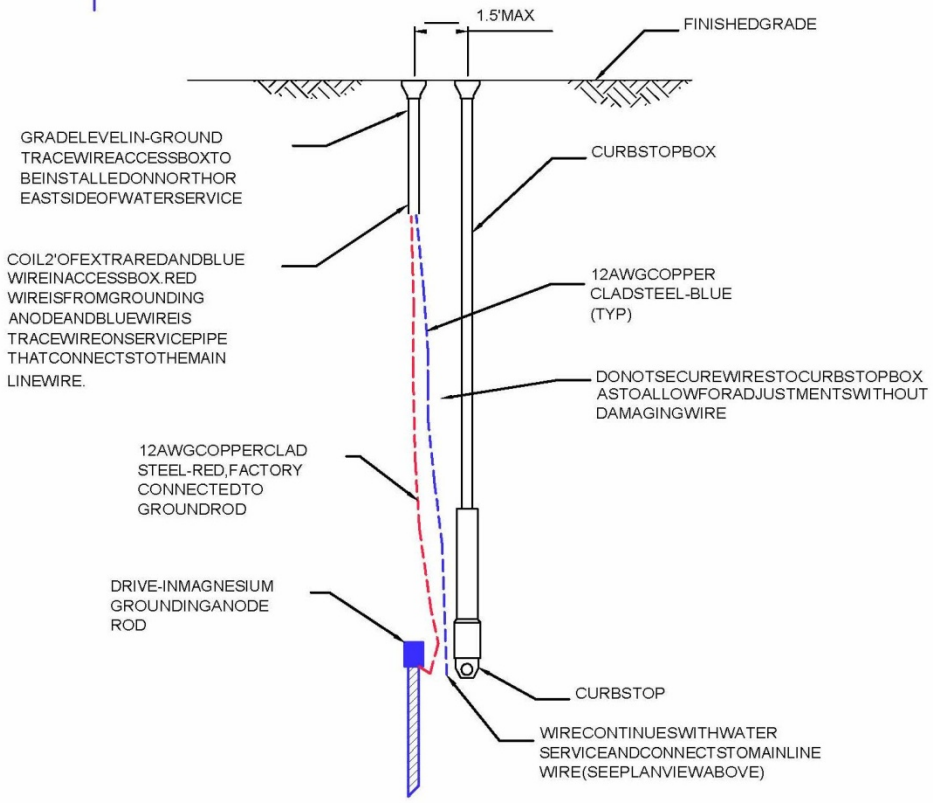
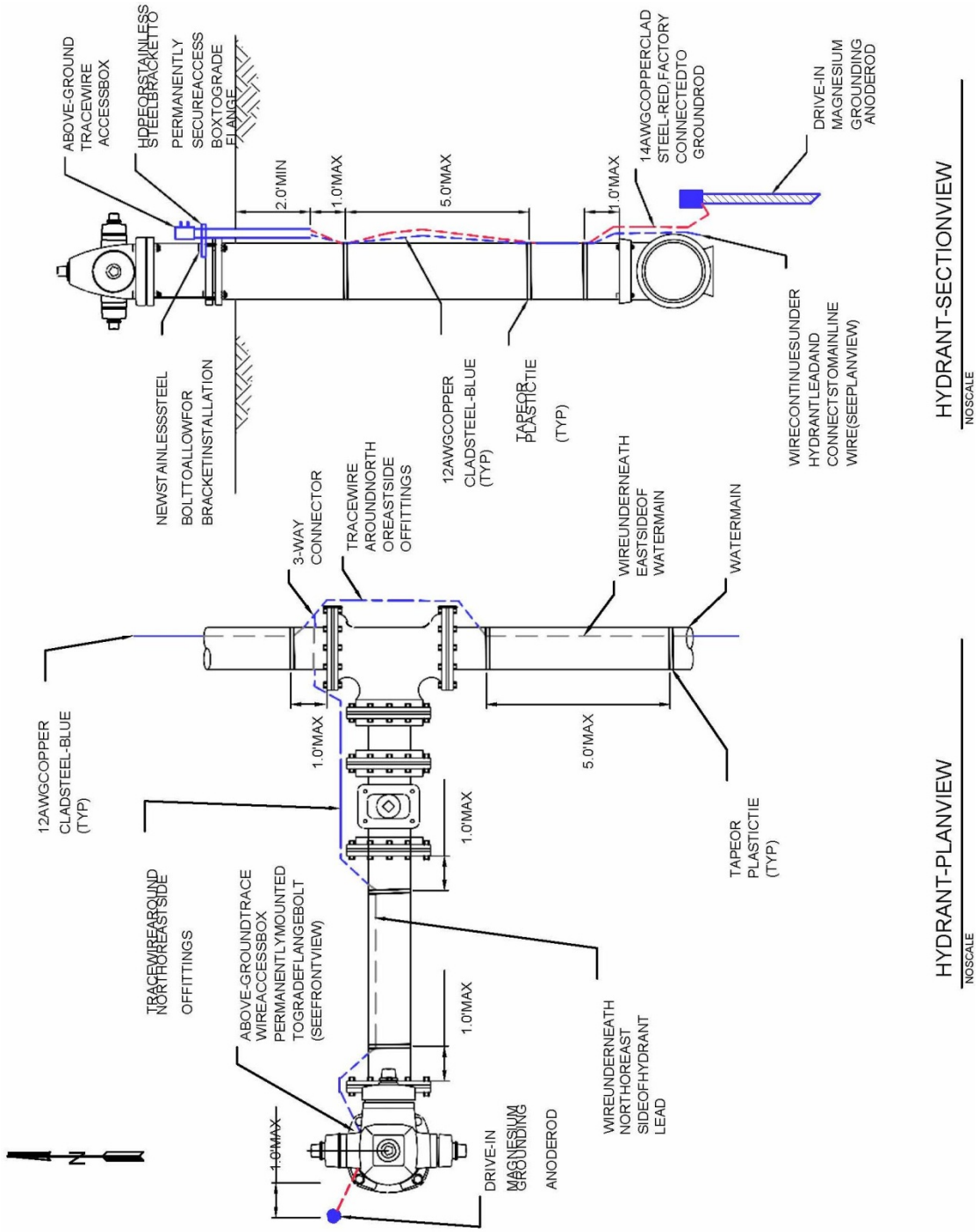
WATERSERVICE-PLANVIEW
NOSCALE



WATERSERVICE-SECTIONVIEW
NOSCALE


ABOVE-GROUND TRACEWIRE ACCESSBOX
HPEORSTAINLESS STEELBRACKETTO
PERMANENTLY SECUREACCESS BOXTOGRADE FLANGE
2.0'MIN
1.0'MAX
5.0'MAX
1.0'MAX
14AWGCOPPERCLAD STEEL-RED,FACTORY CONNECTEDTO GROUNDROD
DRIVE-IN MAGNESIUM GROUNDING ANODEROD
NEWSTAINLESSSTEEL BOLTTOALLOWFOR BRACKETINSTALLATION
12AWGCOPPER CLADSTEEL-BLUE (TYP)
TAPEOR PLASTICTIE (TYP)
WIRECONTINUESUNDER HYDRANTLEADAND CONNECTSTOMAINLINE WIRE(SEEPLANVIEW)
HYDRANT-SECTIONVIEW
NOSCALE
3-WAY CONNECTOR
TRACEWIRE AROUNDNORTH OREASTSIDE OFFITTINGS
WIREUNDERNEATH EASTSIDEOF WATERMAIN
WATERMAIN
12AWGCOPPER CLADSTEEL-BLUE (TYP)
1.0'MAX
5.0'MAX
1.0'MAX
TAPEOR PLASTICTIE (TYP)
TRACEWIREAROUND NORTHOREASTSIDE OFFITTINGS
ABOVE-GROUNDTRACE WIREACCESSBOX PERMANENTLYMOUNTED TOGRADEFLANGEBOLT (SEEFRONTVIEW)
1.0'MAX
WIREUNDERNEATH NORTHOREAST SIDEOFHYDRANT LEAD
1.0'MAX
DRIVE-IN MAGNESIUM GROUNDING ANODEROD
N
HYDRANT-PLANVIEW
NOSCALE

ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **April 6, 2017** in the City Clerks Office in the City Hall of said City for furnishing the City's requirements for the following:

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V
HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., P. O. Box 1711, 301 Second Avenue, Hattiesburg, Mississippi, 39403, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

COMPREHENSIVE SEWER IMPROVEMENTS
PHASE V
HATTIESBURG, MISSISSIPPI

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the___ day of _____ A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on March 2, 2017 and March 9, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

NOTICE TO BIDDERS

NOTICE is hereby given that the Mayor and Council of the City of Hattiesburg, Mississippi will receive sealed bids until 10:00 A.M., Thursday, March 16, 2017, in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements of the following supplies, to-wit:

ITEM #4 ATHLETIC UNIFORMS FOR PARKS AND RECREATION DEPARTMENT

The above shall bid upon and delivered as per detailed specifications on file in the Office of the City Clerk, P. O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi, 39403-1898, (601) 545-4552, which may be obtained upon request.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner with the word "BID" and the NAME OF ITEM on which bid is being made and the DATE OF BID OPENING.

The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any or all bids received and to waive informalities.

PUBLISHED by Order of the Council on this, 21st day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

_____

CITY CLERK

(SEAL)

SPECIFICATIONS FOR ITEM #4: ATHLETIC UNIFORMS FOR PARKS AND RECREATION DEPARTMENT

Bidder shall bid on furnishing the athletic uniform items as listed herein, which meet or exceed the following specifications, to-wit:

Football Jersey Uniforms

100% Polyester Tricot Mesh, Pro-Tricot Body, 100% Polyester DAZZLE, Double Ply Yoke, & Single Ply Sleeves. 90%/polyester/10% Spandex jersey, PRO-STRETCH side inserts, "V" neck collar & sleeve cuffs, Matching color collar and cuff, contrast color side through shoulder inserts, Double needle hemmed bottom, cover-stitched for optimum durability, Bar-tacked stress points, full length body.
Colors shall be available in multi selection options
Vendor shall provide individual jersey printing with Two color Logo/Team Name, Number on Front of Jersey and Number on Back of jersey and numbers/or Logo on right & left shoulder area. Vendor shall coordinate with City of Hattiesburg for exact logo design & jersey layout.

All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:
Youth XS ,S, M, L, XL
Adult S, M, L, XL, 2XL, 3XL, 4XL

Cheerleader Uniforms

Top- 100% polyester double knit, Ladies' fit, V-Neck, Contract color triangular side panels with two-color rib trim
Bottom-100% polyester double knit, Ladies Fit, Covered elastic waistband, front left V-Notch on bottom with two-color Trim
Colors shall be available in multi selection options
Vendor shall provide printing with Two-color Logo/Team Name on Front.
Vendor shall coordinate with City of Hattiesburg for exact logo design & layout.
All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:
Youth XS, S, M, L, XL
Adult S, M, L, XL, 2XL, 3XL

Basketball Uniforms

Z-CLOTH, 100% polyester, interlock fabric has a silky smooth feel, is lightweight, snag resistant and durable. Jersey is reversible, Double needle hemmed bottom, Allows optimum decorating options, sleeveless, matching color armholes, Contrasting mitered "V" neck,
Vendor shall provide individual jersey printing with Two-color Logo/Team Name, Number on Front of Jersey and Number on Back of jersey. Vendor shall coordinate with City of Hattiesburg for exact logo design & jersey layout.
Colors shall be available in multi selection options
All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:
Youth XS, S, M, L, XL
Adult S, M, L, XL, 2XL, 3XL, 4XL

Baseball Jersey Uniform
100% Extreme dura light mesh cationic/wicking knit colorfast, heat sealed label, one row self-fabric collar, set-in sleeves, 2-button jersey
Colors shall be available in multi selection options
Vendor shall provide individual jersey printing with Two color Logo/Team Name on Front of Jersey and Number on Back of jersey. Vendor shall coordinate with City of Hattiesburg for exact logo design & jersey layout.

All designs/layouts must be approved by City of Hattiesburg prior to printing.

Softball Jersey Uniform
100% Extreme dura light mesh cationic/wicking knit colorfast, heat sealed label, one row self-fabric collar, 2-button jersey, , set-in sleeves or Sleeveless
Colors shall be available in multi selection options
Vendor shall provide individual jersey printing with Two- color Logo/Team Name on Front of Jersey and Number on Back of jersey. Vendor shall coordinate with City of Hattiesburg for exact logo design & jersey layout.

All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:
Youth XS, S, M, L, XL
Adult S, M, L, XL, 2XL, 3XL, 4XL

Track Jersey Uniform
100% polyester wicking knit, heat sealed label, self-fabric collar, set-in sleeves
Colors shall be available in multi selection options
Vendor shall provide individual jersey printing with Two- color Logo/Team Name on Front of Jersey. Vendor shall coordinate with City of Hattiesburg for exact logo design & jersey layout.

All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:
Youth XS, S, M, L, XL
Adult S, M, L, XL, 2XL, 3XL, 4XL

Baseball Cap/Hat
Jersey Mesh Hook/Loop Tape Closure, Structured, Mid to Low Crown, Pre-curved Visor,
Colors shall be available in multi selection options
Vendor shall provide individual printing with Two- color Logo/Team Name on Front of Cap. Vendor shall coordinate with City of Hattiesburg for exact logo design & cap layout.
Sizes shall be bid:
Adult
Youth

All designs/layouts must be approved by City of Hattiesburg prior to printing

Softball Visor
Jersey Mesh Hook/Loop Tape Closure,
Colors shall be available in multi selection options
Vendor shall provide individual printing with Two- color Logo/Team Name on Front of Visor. Vendor shall coordinate with City of Hattiesburg for exact logo design & cap layout.
Sizes shall be bid:
Adult
Youth
All designs/layouts must be approved by City of Hattiesburg prior to printing

Socks
Profeet 273, acrylic multi-sport, cushioned tube sock
Colors shall be available in multi selection options
Sizes shall be bid:
Adult & Youth

Pompoms
Spirt Pompom with ¾"x6" plastic streamer, approximately 1000 streamers per pompom, batons handle
Colors shall be available in multi selection options

SPECIFICATIONS APPROVED BY:

Each bidder shall submit bid prices utilizing this form only.

CHEERLEADER UNIFORMS

SIZE	COST EACH
YOUTH EXTRA SMALL	
YOUTH SMALL	
YOUTH MEDIUM	
YOUTH LARGE	
YOUTH EXTRA LARGE	
TOTAL	

BASKETBALL UNIFORMS

SIZE	COST EACH
YOUTH EXTRA SMALL	
YOUTH SMALL	
YOUTH MEDIUM	
YOUTH LARGE	
YOUTH EXTRA LARGE	
ADULT SMALL	
ADULT MEDIUM	
ADULT LARGE	
ADULT EXTRA LARGE	
ADULT 2-EXTRA LARGE	
ADULT 3-EXTRA LARGE	
ADULT 4-EXTRA LARGE	
TOTAL	

BASEBALL CAP/HAT

SIZE	COST EACH
YOUTH	
ADULT	
TOTAL	

SOFTBALL VISOR

SIZE	COST EACH
YOUTH	
ADULT	
TOTAL	

SOCKS

SIZE	COST PER PAIR
YOUTH	
ADULT	
TOTAL	

POMPOMS

PRICE PER SET	

TOTAL PRICE OF ALL ITEMS	

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY PHONE/FAX: _____

COMPANY OFFICIAL'S NAME (printed): _____

COMPANY OFFICIAL'S SIGNATURE: _____

DATE: _____

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

PRICES shall be FIRM for a period of April 1, 2017, and ending March 31, 2019, items to be purchased as required with a City of Hattiesburg Purchase Order.

SEALED bids with be received until 10:00 a.m., Thursday, March 16, 2017, in the City Clerk's Office in the City Hall, P.O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi,39403-1898, (601) 545-4552, for furnishing the City's requirements of the above item. It shall be the responsibility of all bidders to have their bids delivered to the location listed in these specifications and/or Notice to Bidders on or before the date and time specified. The City of Hattiesburg shall not be responsible for any bid sent via U.S. Mail or any other mail courier service which is delivered or received after the date and time listed in said specifications and/or Notice to Bidders.

Each BID must be received in a sealed envelope which is clearly marked in the lower left-hand corner **EXACTLY** as follows:

BID
ITEM #4, ATHLETIC UNIFORMS FOR PARKS AND RECREATION DEPARTMENT
SUBMITTED BY 10:00 AM, THURSDAY, MARCH 16, 2017

The lowest and best bid received will be accepted, subject to the provision of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; the council reserves the right to reject any and all bids received and to waive informalities.

APPROVED on this the 21st day of February, 2017.

BY:_____
CITY CLERK

(SEAL)

NOTICE TO BIDDERS

NOTICE is hereby given that the Mayor and Council of the City of Hattiesburg, Mississippi will receive sealed bids until 10:00 A.M., Thursday, March 16, 2017, in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements of the following services for the period of April 1, 2017 through March 31, 2020, to-wit:

ITEM #31 UNIFORM RENTAL SERVICE

The above shall bid upon and delivered as per detailed specifications on file in the Office of the City Clerk, P. O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi, 39403-1898, (601) 545-4552, which may be obtained upon request.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner with the word "BID" and the NAME OF ITEM on which bid is being made and the DATE OF BID OPENING.

The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any or all bids received and to waive informalities.

PUBLISHED by Order of the Council on this the 21st day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #31: UNIFORMS FOR VARIOUS DEPARTMENTS/DIVISIONS OF THE CITY OF HATTIESBURG

Bidder shall bid on furnishing Uniform Rental Service for the various departments/divisions of the City of Hattiesburg as listed herein, which meet or exceed the following specifications, to-wit:

UNIFORM PANTS SPECIFICATIONS:

Fabric: 8-1/4 oz. special twill
Blend: 65% Foretrel polyester, 35% combed cotton
Finish: Post cure durable press
Closure: Heavy duty brass ratcheting zipper with button closure
Waistband: Interlined for body and shape, Rokap construction, synthetic blend trim
Pockets: Two (2) slack style front pockets, two (2) set-in hip pockets, darts over hip pockets for a neat appearance and fit

Fabric: 100% Cotton
Finish: Post cure durable press
Closure: Heavy duty brass ratcheting zipper with button closure
Waistband: Interlined for body and shape, Rokap construction, synthetic blend trim
Pockets: Two (2) slack style front pockets, two (2) set-in hip pockets, darts over hip pockets for a neat appearance and fit
Colors to be provided: Navy, Blue, Medium Blue, Dark Brown, Light Brown (Tan), Charcoal, and Dark Green
Bidders shall list all sizes available in their bid

UNIFORM INDUSTRIAL PATTERN WORK SHIRT SPECIFICATIONS:

Fabric: 4-1/4 oz poplin, 4-1/4 oz leno or 3.6 broadcloth
Blend: 65% Dacron polyester, 35% combed cotton
Finish: Durable press
Closure: Six (6) buttons with vertical buttonholes, gripper or snaps at neck
Collar: Two (2) piece lined with sewn in stays
Cuffs: One (1) piece fully lined
Facing: Stitched down fronts
Pockets: Two (2) button thru hex style with angled bartacks

Fabric: 100% Cotton
Finish: Durable press
Closure: Six (6) buttons with vertical buttonholes, gripper or snaps at neck
Collar: Two (2) piece lined with sewn in stays
Cuffs: One (1) piece fully lined
Facing: Stitched down fronts
Pockets: Two (2) button thru hex style with angled bartacks
Both short and long sleeve shirts shall be available on a twelve (12) month basis
Bidders shall list all sizes available in their bid
All shirts shall be provided with two (2) white polyester cotton-twill sewn on patches, in size 4-1/4" wide X 2" high. Heat sealing patches

will not be considered or accepted. Patch one (1) shall be embroidered with the name, "City of Hattiesburg", on line one (1), and the name of the division/department on line two (2), ie., "Public Services Department". Patch two (2) shall be embroidered with the employee's name. All embroidery furnished shall be color coordinated with each shirt.

Colors to be provided: Light Brown (Tan), Medium Blue, Light Charcoal, Dark Blue, Dark Brown, White and Light Green

ENHANCED VISIBILITY BLENDED WORK SHIRT SPECIFICATIONS:

65% polyester/35% cotton poplin 5/5
Yellow Trim

UNIFORM INDUSTRIAL HIP LENGTH JACKET SPECIFICATIONS:

Fabric: 7-1/4 oz Twill
Blend: 65% Fortrel polyester, 35% cotton
Finish: CRF
Zipper front, sleeve pencil pocket
Two (2) front inset pockets
Sewn-in quilted poly/foam liner
Hip Length: 29" Long

COMMUNITY CENTERS EMPLOYEES

Men's Pants Specs

65% polyester/35% cotton comfort flex fabric
Flat Front
Relaxed Fit (with roomier thighs & seat)
Hidden expandable comfort waistband
Reinforced deep front pockets
Back pockets
Reinforced stress points that stand up to frequent washings

Men's Dress Pants Specs (same as above)

Double Pleats (Front)

Ladies' Pants Specs

65% polyester/35% cotton comfort flex fabric
Angled pockets (front)
Set-in hip pockets
Flat Front
Zip front with button closure
Tapered waistband
Roomy cut in hips & thighs

Men's & Ladies' Shirt Specs

60% cotton/40% polyester Dri-fit fabric polo shirt
Flat Knit contrast trim collar & cuffs
Double needle stitching throughout
Double needle stitching hem
Side vents
3-button placket with dyed to match buttons
Left front pocket

Shrink & fade resistant

Community Centers Employees
9 (nine) men-Everyday wear
1 (one) woman-Everyday wear

Train Depot Employees
2 (two) men-Two sets each of dress slacks, all other everyday wear
POLO SHIRTS SHALL BE SUPPLIED ONLY TO COMMUNITY CENTER EMPLOYEES.

GENERAL REQUIREMENTS:

Weekly laundry pickup, delivery, and uniform maintenance service shall be provided for approximately 250 to 350 employees located in multiple locations and divisions/departments within the City of Hattiesburg as follows:

Hattiesburg Airport Division
Bobby L. Chain Municipal Airport

Hattiesburg Area Readi-Transit
1001 South Tipton Street

Hattiesburg Grounds Maintenance Division
800 Arledge Street

Jackie Dole Sherrill Community Center
220 West Front Street

Hattiesburg Traffic Control/Construction Division
125 Walnut Street

Highland Cemetery Division
3501 West 7th Street

Hattiesburg Water Department
900 James Street
Consisting of the following divisions:
Meter Reader, Water Transmission, Water Plant
Sewer, and Sewer Lagoon

Hattiesburg Public Services Department
1202 James Street and 212 East Front Street
Consisting of the following divisions:
Shop, Sanitation, Street, Health, Drainage,
Street Cleaning, Automated Fuel Facility, GO & FS,
and Engineering

The successful bidder shall be responsible for obtaining all sizes of employees covered under this contract as determined by the Division's General Manager and/or Manager. During the period measurements will be obtained from each

operation, the General Manager and/or Manager shall provide the successful vendor, in writing, the uniform color(s), the number of uniforms to be provided for each division/department employee on a weekly basis, and the department or division name and employee name to be embroidered on shirt patches.

Replacement of damaged garments shall be at the joint discretion of each Division's General Manager and/or manager. Uniform items returned by the bidder which are determined by the General Manager and/or Manager to be in a state of general disrepair, i.e., missing buttons, broken zippers, small tears, shall be returned to the vendor, and full credit shall be issued for one (1) week's rental. Unresolved disputes in excess of thirty (30) days constitute grounds of termination of this contract.

The successful bidder shall be responsible for scheduling deliveries with each Division's General Manager and/or Manager, during the weeks in which the following holidays are observed by the City.

Veteran's Day
Thanksgiving Day
Christmas Day
New Year's Day
Third Monday of January
Third Monday of February
Good Friday
Last Monday of May
Independence Day
First Monday of September
Additional Holidays Proclaimed by the Governor

The successful bidder and the department representative must count and agree on the number of items being picked up and delivered. This is to prevent lost or missing items.

Each bidder shall submit bid prices utilizing **this form.** Bidder shall submit prices on a **weekly rate only.**

BLEND

Blend uniforms shall be supplied for approximately 250-300 employees.

Weekly Rental Rate - Pants	$_____
Weekly Rental Rate - Shirts	$_____
Weekly Rental Rate - Reflective Shirts	$_____
Weekly Rental Rate - Jacket	$_____
Cost for Non-returned Garments	$_____
Pants	$_____
Shirts	$_____
Reflective Shirts	$_____
Jackets	$_____

100% COTTON

Cotton uniforms shall be supplied to those employees whose work environment prevents them from wearing blend uniforms. This shall be approximately 6 or more employees.

Weekly Rental Rate - Pants $_____

Weekly Rental Rate - Shirts $_____

Cost for Non-returned Garments $_____

Pants $_____

Shirts $_____

COMMUNITY CENTER EMPLOYEES

Uniforms shall be supplied for approximately 12 employees.

Weekly Rental Rate - Men's Pants $_____

Weekly Rental Rate - Men's Dress Pants $_____

Weekly Rental Rate - Ladies' Pants $_____

Weekly Rental Rate - Polo Shirts $_____

Cost for Non-returned Garments $_____

Men's Pants $_____

Men's Dress Pants $_____

Ladies' Pants $_____

Polo Shirts $_____

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE AND ZIP CODE

PHONE NUMBER AND FAX NUMBER

DATE OF BID

OFFICIAL'S NAME AND TITLE

OFFICIAL'S SIGNATURE

In determining the lowest and best bid received, bid prices submitted for this contract shall be evaluated as follows:

> Currently 270 employees are furnished with blend uniforms and 6 employees are furnished with cotton uniforms. The weekly rate will be multiplied by the current number of uniforms furnished. The cost of non-returned items shall be used in determining the lowest and best bid. For information purposes, the City experienced less than a 1% rate for non-returned items for the last 24 months of the most recent contract.

Rental Rates submitted by bidders on each uniform item shall, for the purposes of this contract, include all pickup, delivery, repair and replacement costs billed to the City of Hattiesburg. Garments which experience normal wear and tear shall be replaced by the successful vendor at the weekly rental rate. Garments requiring replacement due to unnecessary abuse shall be at the non-returned garment price offered by the successful bidder. No other charges shall be allowable under the terms of this contract.

IMPORTANT: All bidders shall provide a photocopy of their Certificate of Incorporation or other appropriate documents which identify the bidders' principal legal address, including the City, County, and State. All bidders shall provide at least three prior business references.

All bidders shall furnish with their bid, at no cost to the city, one (1) sample

of each uniform item, (pants, shirt & jacket), for inspection and evaluation purposes in awarding of this bid. Sample uniforms items not picked up after thirty (30) days from the awarding of this bid will be forfeited.

If a new vendor is awarded the contract for supplying uniforms for the City of Hattiesburg, the current contract holder shall allow a transition time of no more than 120 days and no less than 90 days at no increase in unit price. **All** employees shall be issued **new** uniforms at the beginning of the contract period.

The successful bidder shall provide separate invoices for each division covered by this contract. Vendor may bill all charges for this contract to one (1) account number in the name of "The City of Hattiesburg". The City shall be invoiced monthly supported by weekly delivery tickets.

ANY BID THAT FAILS TO COMPLY WITH THE TERMS OF THESE SPECIFICATIONS WILL BE DISQUALIFIED.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2020, items to be purchased as required.

The City of Hattiesburg and/or the vendor has the option to terminate the contract after a period of one year.

IN THE EVENT THAT THE SUCCESSFUL VENDOR FAILS TO COMPLY WITH THE TERMS AND CONDITIONS OF THE CITY OF HATTIESBURG'S REQUIREMENTS FOR FURNISHING UNIFORMS, THE CITY OF HATTIESBURG RESERVES THE RIGHT TO TERMINATE THIS AGREEMENT.

SEALED bids will be received until 10:00 A.M., Thursday, March 16, 2017, in the City Clerk's Office in the City Hall, P.O. Box 1898, 200 Forrest Street, Hattiesburg, Mississippi, 39403-1898, (601) 545-4552, for furnishing the City's requirements of the above item. It shall be the responsibility of all bidders to have their bids delivered to the location listed in these specifications and/or Notice to Bidders on or before the date and time specified. The City of Hattiesburg shall not be responsible for any bid sent via U. S. Mail or any other mail courier service which is delivered or received after the date and time listed in said specifications and/or Notice to Bidders. State Law prohibits the consideration of bids received after the date and time advertised for receipt of Sealed bids.

Each BID must be received in a sealed envelope which is clearly marked in the lower left-hand corner **EXACTLY** as follows:

BID
UNIFORMS FOR VARIOUS DIVISIONS-
DEPARTMENTS OF THE CITY OF HATTIESBURG, ITEM #31
SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 16, 2017

The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any and all bids received and to waive informalities.

APPROVED on this, the 21st day of February, 2017.

BY: _____
CITY CLERK

SPECIFICATIONS APPROVED BY:

Janet Beech
Purchasing Manager

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-243 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve plans and specifications for Infrastructure Improvements Along S 31st Avenue Project

Title: Approve plans and specifications for the Infrastructure Improvements Along South 31st Avenue, South 30th Avenue, Chevy Chase Drive, and Hardy Street Project; Authorize advertisement for bids for same.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Plans, Specifications, Bid Advertisement

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information: Hattiesburg American & Clarion Ledger
2 Consecutive Weeks

History of Legislative File

CONSTRUCTION PLANS

FOR

INFRASTRUCTURE IMPROVEMENTS

ALONG

SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE & HARDY STREET

FOR THE

CITY OF HATTIESBURG

FORREST COUNTY
MISSISSIPPI

PUBLIC UTILITIES

CABLE
COMCAST
2100 LINCOLN ROAD
HATTIESBURG, MS 39402
(601) 264-1188

POWER
MISSISSIPPI POWER, CO.
6356 U.S. HIGHWAY 49
HATTIESBURG, MS 39401
(601) 544-6511

TELECOM
AT&T
P.O. BOX 1191
HATTIESBURG, MS 39401
(601) 545-6424

INLINE
405 LEGACY PARK
RIDGELAND, MS 39157
(601) 956-8909
(888) 346-5463

TELEPAK DBA CSPIRE FIBER
1018 HIGHLAND COLONY PKWY
SUITE 300
RIDGELAND, MS 39157
(855) 277-4732

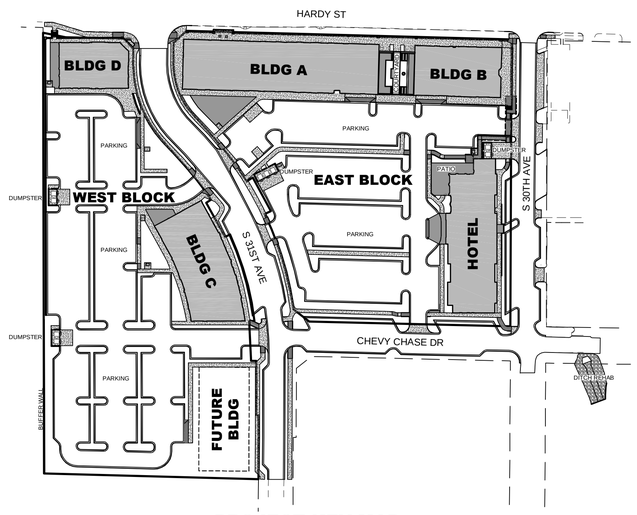
GAS
WILMUT GAS
P.O. BOX 1649
HATTIESBURG, MS 39403
(601) 544-6001

SEWER
CITY OF HATTIESBURG
WATER & SEWER DEPT.
900 JAMES STREET
HATTIESBURG, MS 39403
(601) 545-4530

WATER
CITY OF HATTIESBURG
WATER & SEWER DEPT.
900 JAMES STREET
HATTIESBURG, MS 39403
(601) 545-4530

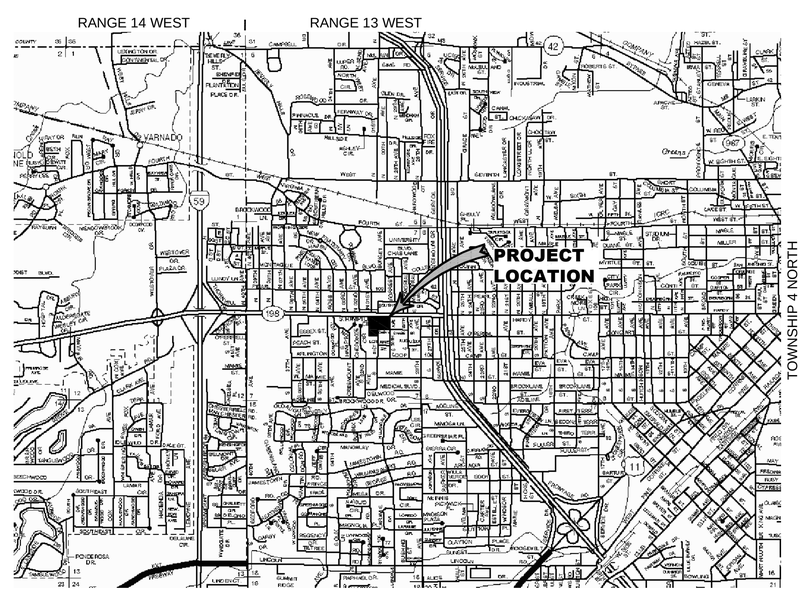
TRAFFIC
CITY OF HATTIESBURG
TRAFFIC DEPT.
125 WALNUT STREET
HATTIESBURG, MS 39401
(601) 545-4626

MDOT DISTRICT 6
HEADQUARTERS
6356 HWY 49 N
HATTIESBURG, MS 39401
(601) 544-6511

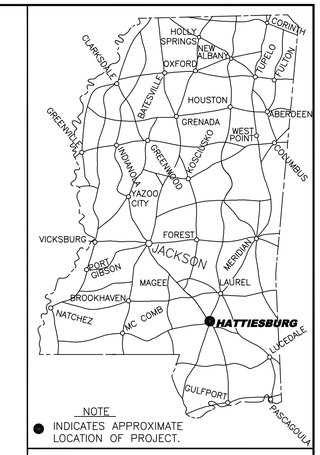


PROJECT KEY MAP

SCALE: 1" = 100'



VICINITY MAP



NOTE
● INDICATES APPROXIMATE LOCATION OF PROJECT.

GEODETIC REFERENCE (NAD83) FOR THE APPROXIMATE MIDDLE OF THE PROJECT:
LATITUDE: N 31°19'27.0"
LONGITUDE: W 89°20'07.2"

DETAILED SHEET INDEX:

C0.1	CVR1	COVER SHEET, SHEET INDEX, VICINITY MAP, LOCATION MAP & UTILITIES LIST
C0.2	GN1	GENERAL NOTES
C0.3	GN2	GENERAL NOTES CONT'D, CONSTRUCTION PHASES, ABBREVIATION SCHEDULE & SYMBOL LEGENDS
C0.4	TOPO1	EXISTING TOPOGRAPHIC MAP
C0.5	TCP1	TRAFFIC CONTROL PLAN – HARDY STREET
C0.6	TCP2	TRAFFIC CONTROL PLAN – SOUTH 30TH AVENUE
C0.7	TCP3	TRAFFIC CONTROL PLAN – CHEVY CHASE DRIVE
C0.8	TCP4	TRAFFIC CONTROL PLAN – SOUTH 31ST AVENUE
C0.9	DEMO1	DEMOLITION PLAN
C1.0	SP1	MASTER SITE PLAN
C1.1	PnP 1	SOUTH 31ST AVENUE PLAN PROFILE
C1.2	PnP 2	SOUTH 31ST AVENUE PLAN PROFILE CONT'D
C1.3	PnP 3	SOUTH 30TH AVENUE PLAN PROFILE
C1.4	PnP 4	SANITARY SEWER ALONG HARDY STREET
C1.5	PnP 5	CHEVY CHASE DRIVE PLAN PROFILE
C1.6	PnP 6	CHEVY CHASE DRIVE PLAN PROFILE CONT'D
C1.7	PnP 7	CONCRETE BOX CULVERT
C1.8	PnP 8	CONCRETE BOX CULVERT CONT'D
C1.9	WTR1	WATER INSTALLATION DETAILS
C1.10	SWR1	SEWER INSTALLATION DETAILS
C1.11	SWR2	SEWER INSTALLATION DETAILS CONT'D
C1.12	GD1	STORM SEWER DETAILS – JUNCTION BOX
C1.13	GD2	STORM SEWER DETAILS – PIPE & FES
C1.14	GD3	STORM SEWER DETAILS – SS-2 INLET
C1.15	GD4	STORM SEWER DETAILS – GUTTER INLET
C1.16	GD5	STORM SEWER DETAILS – BOX CULVERT
C1.17	GD6	HEADWALL, TRENCH & DITCH TREATMENT
C2.0	SWP1	SWPPP – PHASE 1
C2.1	SWP2	SWPPP – PHASE 2
C2.2	SWP3	SWPPP – PHASE 3
C2.3	ECD1	EROSION CONTROL DETAILS
C2.4	ECD2	EROSION CONTROL DETAILS CONT'D
C2.5	ECD3	EROSION CONTROL DETAILS CONT'D

Know what's **below.**
Call before you dig.

811 TICKETS

TICKET NUMBER	DESCRIPTION
15113009450570	ENTIRE LOT SOUTHWEST OF THE HARDY STREET / S 31ST AVENUE INTERSECTION
15113009470576	SOUTH SIDE OF HARDY ST FROM N 31ST AVE TO S 30TH AVE; WEST SIDE OF S 30TH AVE FROM HARDY ST TO CHEVY CHASE DR; NORTH SIDE OF CHEVY CHASE DR FROM S 30TH AVE TO S 31ST AVE & EAST SIDE OF S 31ST AVE FROM CHEVY CHASE DR TO HARDY ST
15113009470576	ENTIRE LOT & PERIMETER ENCOMPASSED BY: HARDY ST, S 31ST AVE, CHEVY CHASE DR & S 30TH AVE

SPECIAL UTILITY NOTES:

1. ALL UTILITIES THAT LOCATED DURING THE FIELD DATA COLLECTION ARE SHOWN ON THESE PLANS. ALL CONFLICTS WITH EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE COORDINATED WITH THE UTILITY OWNER, THE ENGINEER AND THE PROJECT OWNER PRIOR TO INSTALLATION OF THE PROPOSED WATER SYSTEM. (NO SEPARATE PAY FOR COORDINATION)
2. THE CONTRACTOR SHALL DOCUMENT THE EXISTENCE OF ANY MISSING AND/OR OVERLAPPING UNDERGROUND UTILITIES AND STORM DRAINAGE NOT SHOWN ON THESE CONSTRUCTION DRAWINGS.

GRAPHIC SCALE
2000 0 1000 2000 4000
(IN FEET)

FEBRUARY 2017

NO.	DATE	DESCRIPTION	BY

STATE OF MISSISSIPPI
LAMAR RUTLAND
LICENSED PROFESSIONAL ENGINEER
16793
2/10/17

MAYOR
Johnny DuPree, Ph. D.

COUNCIL PERSONS
Carter Carroll, President
Mary Dryden, Vice President
Kim Bradley
Deborah Denard Delgado
Henry E. Naylor

DIRECTOR OF ENGINEERING
Lamar Rutland, PE

PREPARED BY:

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Working No. CVR
Sheet No. C0.1
Drawing No.: 11241

G:\PROJECTS\Hattiesburg, City of\11241 - Infrastructure Improvements at 30th Avenue and Chevy Chase\11241\CAD Files\11241_Cover_Notes_Sets.dwg, CVR, 2/10/2017 9:40:31 AM

GENERAL NOTES:

1. THE APPROVED AND EXECUTED MDOT PERMIT, MDEQ PERMIT AND ANY CITY OF HATTIESBURG PERMITS SHALL BE CONSIDERED A PART OF THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL HAVE A COMPETENT AND EXPERIENCED SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES. THE SUPERINTENDENT SHALL NOT OPERATE EQUIPMENT WHILE ON THE PROJECT SITE. WORK ON THE PROJECT SHALL STOP IF THE ASSIGNED PROJECT SUPERINTENDENT IS NOT ON SITE.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES.
4. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION" (OR LATEST), EXCEPT AS NOTED OTHERWISE ON THESE PLANS AND/OR THE SPECIFICATIONS.
5. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER, HIS REPRESENTATIVE OR THE ENGINEER/ARCHITECT MAY CAUSE THE WORK TO BE UNACCEPTABLE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND THE LOCATION OF THE PROJECT. CONTROL COORDINATE SYSTEM AVAILABLE THROUGH THE ENGINEER.
7. THE CONTRACTOR SHALL VERIFY AND/OR REESTABLISH ALL CENTERLINES AS DEFINED ON THESE PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL TESTING BY AN INDEPENDENT LABORATORY APPROVED BY THE ENGINEER/ARCHITECT.
9. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR FINISHING THE CONSTRUCTION PLAN.
10. MATERIAL SUBMITTALS SHALL BE MADE TO OWNER THROUGH THE ENGINEER PRIOR TO USE, FOR APPROVAL. ALL MATERIALS SHALL BE MADE IN U.S.A.
11. MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
12. ALL EXISTING STREET SIGNAGE CONFLICTING WITH CONSTRUCTION SHALL BE REMOVED DURING CONSTRUCTION, CLEANED, REPLACED AFTER CONSTRUCTION AND SHALL BE CONSIDERED PART OF MAINTENANCE OF TRAFFIC.
13. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED IN PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
14. THE CONTRACTOR SHALL PROVIDE PROPER TRAFFIC CONTROL SIGNS AND FLAGGERS TO MAINTAIN ONE LANE TRAFFIC DURING CONSTRUCTION, WHERE LANE CLOSURES ARE NEEDED, UNLESS OTHERWISE NOTED BY THE ENGINEER. ANY ROAD CLOSURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
15. ALL PLASTIC DRUMS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.
16. CONES SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF TEN (10) POUNDS. CONES USED IN SPEED ZONES EQUAL TO OR GREATER THAN 45 MPH SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF FIFTEEN (15) POUNDS. ALL CONES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING TOPOGRAPHIC DATA, LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WITHIN THE WORK AREA AND ALL OTHER SITE CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION. ANY CONFLICT SHALL BE COORDINATED WITH THE CONTRACTOR, OWNER AND ENGINEER/ARCHITECT. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE.
18. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.
19. UTILITIES SHALL BE RELOCATED BY THE UTILITY OWNERS, WHERE CONFLICT WITH CONSTRUCTION OCCURS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH, APPLICATIONS, PERMITS AND FEES THAT MAY BE REQUIRED BY THE UTILITY OWNERS.
20. ANY DISTURBANCE TO EXISTING STREETS AND DRIVEWAYS SHALL BE REPAIRED AS NOTED.
21. PRIOR TO THE BEGINNING OF ANY EXCAVATION IN PAVED AREAS, ALL EXISTING PAVEMENT SHALL BE SAW CUT TO FULL DEPTH SUCH THAT A STRAIGHT AND UNIFORM VERTICAL EDGE CAN BE ESTABLISHED PRIOR TO REMOVAL OF SAID PAVEMENT FROM THE PROJECT. IF VERTICAL EDGE IS DISTURBED, THEN A SECOND CUT SHALL BE REQUIRED PRIOR TO ASPHALT OR CONCRETE PATCHING. ALL ASPHALT OR CONCRETE SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO EXCAVATION PROCEDURES. THE PAVEMENT SHALL BE REPAIRED AS DETAILED.
22. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
23. ALL SERVICE CONNECTIONS (FOR ALL UTILITY TYPES) WHICH ARE TEMPORARILY DISCONNECTED DUE TO CONSTRUCTION REQUIREMENTS, DAMAGED OR OTHERWISE DISCONNECT, SHALL BE REPAIRED IN KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED. (NO SEPARATE PAY). SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE UTILITY OWNER AND THE AFFECTED STRUCTURE OWNER. EXCEPTION 1: WATER SERVICE CONNECTIONS WHICH ARE DEGRADED BEYOND REPAIR, LEAKING, BROKEN, ETC. PRIOR TO CONSTRUCTION, SHALL BE DOCUMENTED, REPORTED TO THE ENGINEER, REPAIRED AND PAID AS OUTLINED IN THE BID PROPOSAL (SIZE TO MATCH EXISTING). EXCEPTION 2: ANY OTHER SERVICE CONNECTIONS, EXCEPT WATER & SEWER, WHICH ARE DEGRADED BEYOND REPAIR, LEAKING, BROKEN, ETC. PRIOR TO CONSTRUCTION, SHALL BE DOCUMENTED, REPORTED TO THE ENGINEER AND REPORTED TO THE UTILITY OWNER.
24. ALL TRENCHES IN PAVED AREAS SHALL BE REPAIR AS DETAILED. CRUSHED AGGREGATE SHALL ALSO BE INSTALLED AND USED FOR A TEMPORARY SURFACE UNTIL SUCH TIME THAT THE OWNER DECIDES TO ALLOW INSTALLATION OF PAVEMENT (SEE DETAIL). ALL CRUSHED AGGREGATE MAY BE LIMESTONE AND SHALL BE SIZE 825. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING PAVEMENT PRIOR TO PLACEMENT OF PAVEMENT IN PATCHED AREAS TO MAKE A SMOOTH JOINT WITH THE EXISTING PAVEMENT. SAW CUT TO FULL DEPTH OF EXISTING PAVEMENT SHALL BE REQUIRED ON ALL PAVEMENT REPAIR, UNLESS OTHERWISE DIRECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SURFACE IN AN ACCEPTABLE CONDITION UNTIL SUCH TIME AS FINAL PAVEMENT IS INSTALLED.
25. ALL EXISTING MAILBOXES, STREET SIGNS, FENCES, AND OTHER STRUCTURES LOCATED WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND REPLACED IN KIND AS DICTATED BY CONSTRUCTION ACTIVITIES, UNLESS OTHERWISE NOTED.
26. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES DURING CONSTRUCTION.

GRADING NOTES:

1. COST OF ANY CLEARING AND GRUBBING/REMOVAL AND DISPOSAL OF CLEARING AND GRUBBING MATERIAL SHALL BE INCLUDED IN THE PRICE OF THE DEMOLITION REQUIRED FOR THIS PROJECT. OFF SITE DISPOSAL AREAS ARE TO BE CONTRACTOR FURNISHED. THE SITE SHALL BE CLEARED OF ANY RUBBLE AND DEBRIS. CONTRACTOR SHALL BE FAMILIAR WITH THE EXTENT OF THE CLEARING AND GRUBBING PRIOR TO BIDDING.
2. FILL, IF ANY, NEEDED TO BRING THE SUBGRADE TO THE REQUIRED ELEVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORTS. EXCESS MATERIAL RESULTING FROM GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF ALL SUCH MATERIAL AT AN OFF SITE LOCATION PROVIDED BY THE CONTRACTOR.
3. ALL CULVERT CROSS DRAINS AND SIDE DRAINS SHALL BE PROTECTED. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL AND REPLACEMENT. ALL CULVERTS AND SIDE DRAINS (EXISTING OR PROPOSED) SHALL BE CLEANED OF ALL FOREIGN MATTER, INCLUDING SILT, PRIOR TO COMPLETION OF THE PROJECT.
4. ALL RCP AND RCAP SHALL BE CLASS III, UNLESS NOTED OTHERWISE.
5. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED IN TYPE V GEOTEXTILE FABRIC, 24" WIDTH. ALL PICKUP HOLES SHALL BE PLUGGED WITH EPOXY GROUT AND COVERED WITH TYPE V GEOTEXTILE FABRIC TO THE SATISFACTION OF THE ENGINEER.
6. ALL HDPE, CPP AND CPP PIPE AND FITTING SHALL BE DUAL WALL HDPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FITTINGS REQUIRED TO MAKE ALL CONNECTIONS. ALL HDPE PIPE AND/OR CPP SHALL BE INSTALLED AND BEDDED AS DETAILED, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER.
7. THE TOPS OF ALL CLEAN-OUTS SHALL BE INSTALLED AT LEAST 6" ABOVE PROPOSED GRADE AND INSTALLED WITH PRECAST CONCRETE RING TO PROTECT CLEAN-OUT, UNLESS CLEAN-OUT IS LOCATED IN A PAVED AREA. CLEAN-OUTS IN PAVED AREAS SHALL BE INSTALLED BELOW GRADE AND HOUSED IN A TRAFFIC GRADE BOX INSTALLED FLUSH WITH THE FINISH GRADE.
8. ALL STRUCTURE EXCAVATION SHALL BE INCLUDED IN THE COST OF ANY STRUCTURE REQUIRING STRUCTURE EXCAVATION.
9. ALL BEDDING MATERIAL FOR ALL PIPE SHALL BE ABSORBED IN THE PRICE OF THE PIPE LAYING OPERATION.
10. ALL JUNCTION BOXES AND INLETS SHALL BE CONSTRUCTED PER DETAILS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO CONSTRUCTION FOR APPROVAL BY THE ENGINEER. PRECAST INLET BOTTOMS AND WALLS SHALL BE ALLOWED, IF APPROVED BY THE ENGINEER. ALL INLET TOPS SHALL BE CAST IN PLACE, NO EXCEPTIONS. ALL INLET TOPS SHALL BE CAST TO MATCH THE SLOPE OR GRADE OF THE PROPOSED SURROUNDING PAVEMENT OR CURB, COORDINATE WITH THE GRADING PLAN. PRECAST SUBSURFACE JUNCTION BOXES ARE ALLOWED. ALL LIFT HOLES IN PRECAST STRUCTURES SHALL BE FILLED WITH EPOXY GROUT.
11. NO PIPE SHALL BE LAID IN THE PRESENCE OF WATER. DE-WATERING OF TRENCHES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. UTILITIES SHALL BE RELOCATED BY THE UTILITY OWNERS, WHERE CONFLICT WITH CONSTRUCTION OCCURS, UNLESS NOTED OTHERWISE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY OWNER.
13. **SPECIAL CONSTRUCTION NOTE:** IN SITUATIONS WHERE A PROPOSED STORM SEWER STRUCTURE IN THIS PROJECT WILL BE CONNECTED TO A PROPOSED FUTURE STORM SEWER LINE WHICH IS NOT IN THIS CONTRACT, THE STRUCTURE SHALL BE INSTALLED WITH A MINIMUM 4 LF (MIN) STUB OUT (INSTALLED AT THE PROPER GRADE AND SPECIFIED MATERIAL) IN THE LOCATION OF THE FUTURE STORM SEWER LINE. THE STUB OUT SHALL BE PLUGGED. (NO SEPARATE PAY FOR PLUG)
14. **SPECIAL CONSTRUCTION NOTE:** INLETS WITH GRATE TOPS SHALL BE CONSTRUCTED TO FINISH GRADE AS NOTED. THE EXISTING PAVEMENT SHALL BE MODIFIED AS NECESSARY TO INSURE POSITIVE DRAINAGE. CURB INLETS SHALL BE CONSTRUCTED WITHOUT TOPS. CONSTRUCTION SHALL BE TO THE TOP CONSTRUCTION JOINT, WITH REINFORCEMENT EXTENDED AND PROTECTED FOR FUTURE USE. THE CURB INLET SHALL BE SURROUNDED COMPLETELY WITH ORANGE CONSTRUCTION SAFETY FENCE AND EROSION CONTROL.

WATER NOTES:

1. WHERE SEWER MAIN IS WITHIN 10 FEET OF WATER MAIN HORIZONTALLY. THE BOTTOM OF WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS NOTED OTHERWISE.
2. ALL EXISTING PAVED ROADS SHALL BE BORED WITH CASING, UNLESS OTHERWISE NOTED. ANY DAMAGE TO PAVED ROADS SHALL BE REPAIRED AS DETAILED AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CITY OF HATTIESBURG PERMITS, APPLICATIONS AND CONNECTION FEES.
4. PRESSURE TESTS WILL BE REQUIRED ON ALL WATER MAIN INSTALLED.
5. ALL BACTI-SAMPLES SHALL BE TAKEN BY THE SYSTEM OPERATOR OR HIS REPRESENTATIVES. ANY AND ALL SAMPLING FEE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL FITTINGS AND VALVES SHALL BE MECHANICAL JOINT WITH CONCRETE THRUST BLOCK AT ALL BENDS ALONG WITH MEGALUG LUG JOINT RESTRAINT CONNECTIONS.
7. FULL LENGTH PIPE SECTIONS ARE REQUIRED BEFORE AND AFTER ALL FITTINGS.
8. ALL WATER MAINS SHALL BE DUCTILE IRON, CLASS 350, NO EXCEPTIONS. ALL FIRE WATER SERVICE PIPE (BETWEEN MAIN & PIV) SHALL BE DUCTILE IRON, CLASS 350, NO EXCEPTION. ALL FIRE WATER SERVICE PIPE (BETWEEN PIV & BUILDING) SHALL BE DUCTILE IRON, CLASS 350 OR C-900, 150 PSI PVC, NO EXCEPTIONS. ALL DOMESTIC WATER SERVICE PIPE (BETWEEN MAIN & BUILDING) SHALL BE SCHEDULE 80 PVC, 150 PSI OR APPROVED EQUAL.
9. ALL WATER PIPE INSTALLATION SHALL CONTAIN 12 AWG TRACER WIRE IN THE PIPE TRENCH AND ENTER ALL VALVE BOXES 12" ABOVE VALVE NUT WITH 12" OF WIRE COILED IN THE VALVE BOX.
10. NO PIPE SHALL BE PLACED IN THE PRESENCE OF WATER.
11. WELL POINTS SHALL BE INCLUDED IN THE PRICE OF THE PIPE LAYING OPERATION (IF REQUIRED).
12. ALL ROAD BORES SHALL BE IN ACCORDANCE WITH THE DETAILS.
13. ALL CASING SHALL BE OF THE SIZE AND TYPE AS NOTED ON THESE PLANS.
14. UNLESS OTHERWISE NOTED, THE DOMESTIC SERVICE CONNECTIONS SHALL INCLUDE A PVC ADAPTER, DOUBLE CHECK VALVE, (FORD BRAND ONLY), CURB STOP (FORD BRAND ONLY), CTS (200) SERVICE TUBING, YOKE (FORD BRAND ONLY) AND PLASTIC ENCLOSURE AS INDICATED ON THE DETAIL. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF HATTIESBURG TO OBTAIN AND INSTALL A WATER METER.
15. ALL BENDS SHOWN IN THE PROPOSED WATERLINE SHALL BE ACCOMPLISHED THROUGH THE USE OF THE REQUIRED FITTINGS (22.5°, 30°, 45°....). SINGLE 90° BEND FITTINGS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE PLANS AND/OR APPROVED BY THE ENGINEER. 90° BENDS SHALL BE ACCOMPLISHED BY USING MULTIPLE SMALLER BEND FITTINGS. BENDS SHOWN ON THE PLAN SHEETS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. ONLY MAJOR BENDS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS NECESSARY TO INSTALL THE PROPOSED WATER LINE.
16. **SPECIAL CONSTRUCTION NOTE:** IN SITUATIONS WHERE A PROPOSED WATER LINE IN THIS PROJECT WILL BE CONNECTED TO A PROPOSED FUTURE WATER LINE WHICH IS NOT IN THIS CONTRACT, THE CONNECTION SHALL BE INSTALLED WITH A CLOSED VALVE AND A BLIND FLANGE IN THE LOCATION OF THE FUTURE WATER LINE. (NO SEPARATE PAY FOR BLIND FLANGE)

SEWER NOTES:

1. WHERE SEWER MAIN IS WITHIN 10 FEET OF WATER MAIN HORIZONTALLY. THE BOTTOM OF WATER MAIN SHALL BE AT LEAST 18" FROM THE TOP OF THE SEWER MAIN, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CITY OF HATTIESBURG PERMITS, APPLICATIONS AND CONNECTION FEES.
3. INFILTRATION/EXFILTRATION AND MANDREL TESTS WILL BE REQUIRED ON ALL SEWER MAINS INSTALLED UNDER THIS PROJECT.
4. ALL MANHOLES SHALL BE 48" IN DIAMETER, WITH ECCENTRIC TOP CONE SECTIONS, UNLESS OTHERWISE NOTED. (SEE PLAN AND PROFILE SHEETS FOR PROPER SIZING)
5. MANHOLES SHALL HAVE 20 MIL. COAL TAR EPOXY COATING ON THE INSIDE, UNLESS OTHERWISE NOTED.
6. THE FINISHED ELEVATION OF ALL MANHOLE TOPS FOR MANHOLES TO BE CONSTRUCTED IN PAVED AREAS SHALL BE AT EXISTING PAVEMENT ELEVATION OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHALL BE TAKEN FROM CUT SHEETS FURNISHED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO CONSTRUCTION.
7. ALL SINGLE DROPS FOR SEWER PIPE 8" AND UNDER IN DIAMETER SHALL BE PLACED INSIDE THE MANHOLE AS DETAILED. ALL MULTIPLE DROPS OR DROPS FOR SEWER PIPE OVER 8" IN DIAMETER SHALL BE PLACED OUTSIDE OF THE MANHOLE AS DETAILED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. ALL NEW PVC SEWER PIPE, SERVICES AND FITTINGS SHALL BE SDR 26, OF SIZE NOTED ON THE PLAN SHEETS AND SHALL BE GREEN IN COLOR. ALL NEW SEWER PIPE SHALL BE INSTALLED AT A MINIMUM GRADE OF 0.50%, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. (SEE PLAN SHEETS FOR DESIGN GRADES)
9. ALL BEDDING MATERIAL FOR ALL PIPE SHALL BE ABSORBED IN THE PRICE OF THE PIPE LAYING OPERATION.
10. ALL SELECT FILL MATERIAL SHALL MEET THE SPECIFICATIONS FOR CLASS 9, GROUP C AND MODIFIED FOR TO CONSIST OF A PLASTICITY INDEX (PI) BETWEEN 5 AND 15. SAND SHALL NOT BE ALLOWED. THE SELECT FILL MATERIAL SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER OR THE ENGINEER'S REPRESENTATIVE.
11. NO PIPE SHALL BE PLACED IN THE PRESENCE OF WATER.
12. WELL POINTS SHALL BE INCLUDED IN THE PRICE OF THE PIPE LAYING OPERATION (IF REQUIRED).
13. ALL ROAD CUTS REQUIRED FOR SEWER LINE INSTALLATION SHALL BE SAW CUT TO FULL PAVEMENT DEPTH TO INSURE A CLEAN BREAK. ROAD CUT REPAIR SHALL BE IN ACCORDANCE WITH THE GENERAL NOTES AND REPAIRED AS DETAILED.
14. THE CONTRACTOR SHALL COORDINATE ALL NEW SEWER SERVICE LOCATIONS WITH BUILDING CONTRACTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BRACING, SHORING OR ANY GROUND SUPPORT SYSTEM REQUIRED TO PREVENT A FAILURE FROM OCCURRING DURING EXCAVATION. ALL COST FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING AND CONSTRUCTING THE SUPPORT SYSTEM, SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
16. THE TOPS OF ALL CLEAN-OUTS SHALL BE INSTALLED AT LEAST 6" ABOVE GRADE AND INSTALLED WITH PRECAST CONCRETE RING TO PROTECT CLEAN-OUT, UNLESS CLEAN-OUT IS LOCATED IN A PAVED AREA. CLEAN-OUTS IN PAVED AREAS SHALL BE INSTALLED BELOW GRADE AND HOUSED IN A TRAFFIC GRADE BOX INSTALLED FLUSH WITH THE FINISH GRADE.
17. ALL FITTINGS REQUIRED FOR DUCTILE IRON OR PVC PIPE SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM FOR THE PIPE AND AT NO ADDITIONAL COST TO THE PROJECT EXCEPT SERVICE TEE'S AND CLEANOUTS. CLEANOUTS SHALL INCLUDE TEE, SERVICE CAP, TRAFFIC COVER IF NEEDED, AND ANY PIPE LENGTH TO BRING CLEANOUT TO SURFACE GRADE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ANY SEWER SERVICE LINES WHICH ARE CUT AND/OR REMOVED DURING THIS PROJECT AND ARE CONNECTED TO AN OCCUPIED BUSINESS OR RESIDENCE. SERVICE CONNECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, SERVICE LINE, FITTINGS AND CLEAN-OUT. FLEXIBLE COUPLINGS SHALL BE USED ONLY WITH ENGINEER'S APPROVAL. CLEAN-OUTS SHALL BE PLACED AT THE RIGHT OF WAY LINE AS DETAILED, UNLESS OTHERWISE DIRECTED. SERVICE LINE CONNECTIONS SHALL BE LOCATED ADJACENT TO EXISTING SERVICE LINES. THE CONTRACTOR SHALL INCLUDE THE NECESSARY CONNECTIONS BETWEEN THE EXISTING SERVICE CONNECTION AND THE NEW SERVICE LINE INCLUDING REDUCERS, WHERE REQUIRED, AT NO ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING SEWER SERVICE LINES.
19. **SPECIAL CONSTRUCTION NOTE:** IN SITUATIONS WHERE A PROPOSED SEWER MANHOLE IN THIS PROJECT WILL BE CONNECTED TO A PROPOSED FUTURE SEWER LINE WHICH IS NOT IN THIS CONTRACT, THE MANHOLE SHALL BE INSTALLED WITH A MINIMUM 8 LF STUB OUT (INSTALLED AT THE PROPER GRADE AND SPECIFIED MATERIAL) IN THE LOCATION OF THE FUTURE SEWER LINE. THE STUB OUT SHALL BE CAPPED OR PLUGGED. (NO SEPARATE PAY FOR PLUG OR CAP)

EROSION CONTROL NOTES:

1. PROTECTING THE SITE FROM EROSION SHALL BE A REQUIREMENT OF THIS CONTRACT. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE CONSTRUCTION SITE OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE PLAN DURING CONSTRUCTION. MAINTENANCE SHALL BE PERFORMED A MAXIMUM OF 24 HOURS AFTER SILT ACCUMULATION. THE CONTRACTOR SHALL MAINTAIN THE PLAN DAILY DURING CONSTRUCTION.
2. PROPER MAINTENANCE OF STREETS, INCLUDING DUST CONTROL, SHALL BE STRICTLY ADHERED TO.
3. UNLESS OTHERWISE NOTED ON THE PLAN SHEETS, ALL DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED WITH PER THE VEGETATION SCHEDULE FOR TEMPORARY GRASSING. PERMANENT CENTIPEDE SOLID SOD SHALL BE INSTALLED IN ALL LANDSCAPED AREAS, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A FULL COVERAGE OF PERMANENT GRASS GROWTH PRIOR TO COMPLETION OF THE PROJECT.
4. THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE REQUIRED UNTIL GRASSING IS ESTABLISHED AND LANDSCAPING HAS BEEN PROPERLY INSTALLED TO THE SATISFACTION OF THE ARCHITECT/OWNER.
5. THE TYPICAL TEMPORARY EROSION CONTROL MEASURES AND TYPICAL DITCH TREATMENTS REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN LOCATIONS BASED ON THE SWPPP PLANS IN THESE DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL ADHERE TO ALL CURRENT MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY GUIDELINES.

NO.	DATE	DESCRIPTION	BY

GENERAL NOTES

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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DEMOLITION NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL ITEMS MARKED FOR DEMOLITION WITH THE OWNER AND THE ARCHITECT, ENGINEER, OWNER, UTILITY OWNER AND CITY OF HATTIESBURG.

2. THE SAFETY OF THE GENERAL PUBLIC WITHIN THE VICINITY OF THE CONSTRUCTION AREA IS EXTREMELY IMPORTANT. THE CONTRACTOR SHALL POST AND MAINTAIN, TO THE OWNER'S SATISFACTION, SIGNS THAT DIRECT THE GENERAL PUBLIC AROUND THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STRUCTURES, PAVEMENTS OR ANY OTHER SITE COMPONENTS NOT DESIGNATED FOR DEMOLITION AND REMOVAL. ANY SUCH ITEMS WHICH ARE DAMAGED SHALL BE REPAIRED SOLELY AT THE CONTRACTOR'S EXPENSE. THE EXISTING TRAFFIC SIGNAL LOCATED AT HARDY STREET AND SOUTH 31ST AVENUE AND ITS RELATED SYSTEMS SHALL BE PROTECTED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. ANY DAMAGE RELATED TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SOLELY AT THE CONTRACTOR'S EXPENSE AND THE DIRECTION OF MDOT.

4. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC., SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

5. UTILITIES DESIGNATED FOR DEMOLITION HAVE A DIRECT AFFECT ON THE EXISTING STRUCTURES ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL COORDINATE ALL SITE UTILITY DEMOLITION AND UTILITY INSTALLATION WITH THE ADJACENT UTILITY OWNERS AND ADJACENT PROPERTY OWNERS IN ORDER TO MINIMIZE DISRUPTION OF THE UTILITY SERVICES TO EXISTING STRUCTURES.

6. ALL EXISTING SUBSURFACE STRUCTURES (INLETS, MANHOLES, FOUNDATIONS, ETC) AND PIPES WITHIN 5 FEET OF A PROPOSED BUILDING SHALL BE REMOVED. OTHERWISE, SAID STRUCTURES AND PIPES SHALL BE RAZED TO 24" BELOW EXISTING GRADE OR PROPOSED FINISHED GRADE, WHICH EVER IS LOWER AND ABANDONED AS NOTED ON THE DEMOLITION PLAN.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING MANHOLES AND SEWER PIPES, AS NOTED ON THE PLAN SHEETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ANY AND ALL WASTE TO AN APPROVED WASTE FACILITY BY AN APPROVED WASTE HANDLER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL REMOVED MANHOLES AND SEWER PIPES AT AN APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAZARDOUS MATERIALS FEES, APPLICATIONS AND PERMITS REQUIRED TO DISPOSE OF ALL WASTE AND REMOVED MATERIALS.

8. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO DEMOLITION REGARDING SALVAGED EQUIPMENT AND MATERIALS. THE OWNER SHALL PROVIDE A COMPLETE AND ITEMIZED LIST OF EQUIPMENT AND MATERIALS TO BE SALVAGED FROM THE SITE DURING DEMOLITION. SALVAGED EQUIPMENT AND MATERIALS SHALL BE SHRINK WRAPPED, ON PALLETS AND DELIVERED TO THE OWNER IN A MANNER AND AT A LOCATION DESIGNATED BY THE OWNER. ALL REMAINING EQUIPMENT AND MATERIALS SHALL BE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT THE LOCATION SUITABLE TO MATERIAL SUCH MATERIALS. ALL SALVAGE, TRANSPORTATION, DEMOLITION AND DISPOSAL OPERATIONS REGARDING THE DEMOLITION PLAN SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND DONE AT THE CONTRACTOR'S EXPENSE.

9. ANY SURFACE PAVEMENT, STRUCTURE AND/OR CURB WHICH MUST BE REMOVED IN ORDER TO COMPLETE THIS PROJECT, SHALL BE SO REMOVED AS NECESSARY AND CONSIDERED A PART OF THIS PROJECT (NOT SPECIFICALLY NOTED ON THE DEMOLITION PLAN). PAY FOR SAID REMOVAL SHALL BE INCLUDED IN THE COST OF THE CONSTRUCTION ITEM REQUIRING THE REMOVAL.

CONSTRUCTION PHASING NOTES:

1. DUE TO THE LARGE AND INVOLVED NATURE OF THIS PROJECT, THE CONTRACTOR SHALL PROVIDED A DETAILED 'PHASES OF CONSTRUCTION' WHICH SHOWS COORDINATION WITH THE ADJACENT CONNECTING PROJECT TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

2. THE CONTRACTOR SHALL FULLY COOPERATE WITH THE MULTIPLE CONTRACTORS WHICH WILL BE CONSTRUCTING A CONNECTING PROJECT ON THE ADJACENT SITE. COORDINATION TO AVOID DELAYS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. ALL PROPOSED INFRASTRUCTURE IMPROVEMENTS ON THE PROJECT SITE SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, THE CITY ENGINEER & THE DIRECTOR OF THE WATER & SEWER DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

4. ROAD CLOSURES FOR S 31ST AVE, S 30TH AVE & CHEVY CHASE ARE ANTICIPATED FOR THIS PROJECT. ONLY ONE ROAD SHALL BE ALLOWED TO BE CLOSED AT A TIME. ROAD CLOSURES SHALL BE COORDINATED AS NOTED IN THE GENERAL NOTES.

5. GENERAL PHASES OF CONSTRUCTION SHALL BE AS FOLLOWS:
   - 5.1. DEMOLITION ALONG SOUTH 30TH AVE & THAT PART OF CHEVY CHASE DRIVE & HARDY STREET NEEDED TO FACILITATE INSTALLATION OF THE PROPOSED SANITARY SEWER AND STORM BOX CULVERT.
   - 5.2. CONSTRUCTION & INSTALLATION OF ALL OF THE PROPOSED BOX CULVERT, THE PROPOSED STORM DRAINAGE ALONG SOUTH 30TH AVE AND HARDY STREET, THE PROPOSED SANITARY SEWER ALONG SOUTH 30TH AVE, HARDY STREET, PART OF CHEVY CHASE DRIVE & ALL OF THE PROPOSED DITCH IMPROVEMENTS.
   - 5.3. CONSTRUCTION & INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS ALONG SOUTH 30TH AVE.
   - 5.4. DEMOLITION ALONG SOUTH 31ST AVE & THE REMAINING PART OF CHEVY CHASE DRIVE IN THIS PROJECT.
   - 5.5. CONSTRUCTION & INSTALLATION OF THE PROPOSED STORM DRAINAGE ALONG CHEVY CHASE DRIVE & SOUTH 31ST AVE, THE PROPOSED SANITARY SEWER ALONG CHEVY CHASE DRIVE.
   - 5.6. CONSTRUCTION & INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS ALONG SOUTH 31ST AVE & HARDY STREET.
   - 5.7. COMPLETE ALL CONSTRUCTION, MAINTAIN TEMPORARY TRENCH SURFACES & EROSION CONTROL.

ABBREVIATION LEGEND:

&	– AND
APPURT	– APPURTENANCES
ASPLT	– ASPHALT
BLDG	– BUILDING
℄	– CENTERLINE
CMP	– CORRUGATED METAL PIPE
CONC	– CONCRETE
CPP	– CORRUGATED PLASTIC PIPE
DIA	– DIAMETER
DBL	– DOUBLE
DRV	– DRIVE
DI	– DUCTILE IRON
(E)	– EAST
EXIST	– EXISTING
EXP	– EXPANSION
FES	– FLARED END SECTION
FL	– FLOWLINE
GP	– GROUP
GRVL	– GRAVEL
HDPE	– HIGH DENSITY POLYETHYLENE PIPE
HYD	– HYDRANT
INCL	– INCLUDING
INV	– INVERT
JB	– JUNCTION BOX
LF	– LINEAR FEET
MAX	– MAXIMUM
MH	– MANHOLE
MIN	– MINIMUM
MOD	– MODIFIED
(N)	– NORTH
(NE)	– NORTHEAST
(NW)	– NORTHWEST
NIC	– NOT IN CONTRACT
No.	– NUMBER
OC	– ON CENTER
PVMNT	– PAVEMENT
PIV	– POST INDICATOR VALVE
PSI	– POUNDS PER SQUARE INCH
ℙ	– PROPERTY LINE
PROP	– PROPOSED
R	– RADIUS
RCAP	– REINFORCED CONCRETE ARCHED PIPE
RCP	– REINFORCED CONCRETE PIPE
RET	– RETAINING
ROW	– RIGHT OF WAY
REQ'D	– REQUIRED
SAN	– SANITARY
SSCO	– SANITARY SEWER CLEANOUT
SVC(S)	– SERVICE(S)
SWR	– SEWER
(S)	– SOUTH
(SE)	– SOUTHEAST
(SW)	– SOUTHWEST
STA	– STATION
TYP	– TYPICAL
(W)	– WEST
W/	– WITH
W/O	– WITHOUT

SYMBOL LEGEND:

	– CENTER LINE
	– ELECTRICAL PANEL/BOX
204	– CONTOURS (EXIST) (1' INTERVALS) (NIC)
204	– CONTOURS (PROPOSED) (1' INTERVALS) (NIC)
	– FENCE
FP	– FENCE POST
FOB	– FIBER OPTIC BOX
	– FIBER OPTIC PEDESTAL
FID	– FIBER OPTIC INDICATOR POST
	– FIRE HYDRANT
GID	– GAS INDICATOR POST
G	– GAS LINE (EXIST)
G	– GAS LINE (NIC)
GM	– GAS METER
	– GAS VALVE
GT	– GATE POST
GP	– GUARD POST
IR	– IRRIGATION SLEEVE (NIC)
LP	– LIGHT ON POLE (EXIST)
	– LIGHT ON POLE (SINGLE) (NIC)
	– LIGHT ON POLE (DOUBLE) (NIC)
E	– PROPERTY LINE (ADJACENT)
CO	– SAN SWR CLEAN-OUT
SS	– SAN SWR LINE (EXIST)
SS	– SAN SWR LINE (PROPOSED OR NIC) (SEE PLAN)
S	– SAN SWR MANHOLE
SIGN	– SIGN
SD	– STORM DRAIN (PROPOSED OR NIC) (SEE PLAN)
D	– STORM DRAIN MANHOLE
T	– TELEPHONE PEDESTAL
T	– TRANSFORMER (PAD MOUNT)
UD	– UNDER DRAIN (PROPOSED OR NIC) (SEE PLAN)
P	– UTILITY LINES (POWER) (OVERHEAD)
P	– UTILITY LINES (POWER) (UNDERGROUND)
T	– UTILITY LINES (COMMUNICATIONS) (OVERHEAD)
T	– UTILITY LINES (COMMUNICATIONS) (UNDERGROUND)
P	– UTILITY LINES (UNDERGROUND ELECTRIC) (NIC)
P	– UTILITY LINES (UNDERGROUND ELECTRIC HOMERUN) (NIC)
PP	– UTILITY POLE
	– UTILITY POLE GUY WIRE
W	– WATER LINE (EXIST)
W	– WATER LINE (PROPOSED OR NIC) (SEE PLAN)
WM	– WATER METER
	– WATER VALVE

NO.	DATE	DESCRIPTION	BY

GEN. NOTES, CONST. PHASES, LEGENDS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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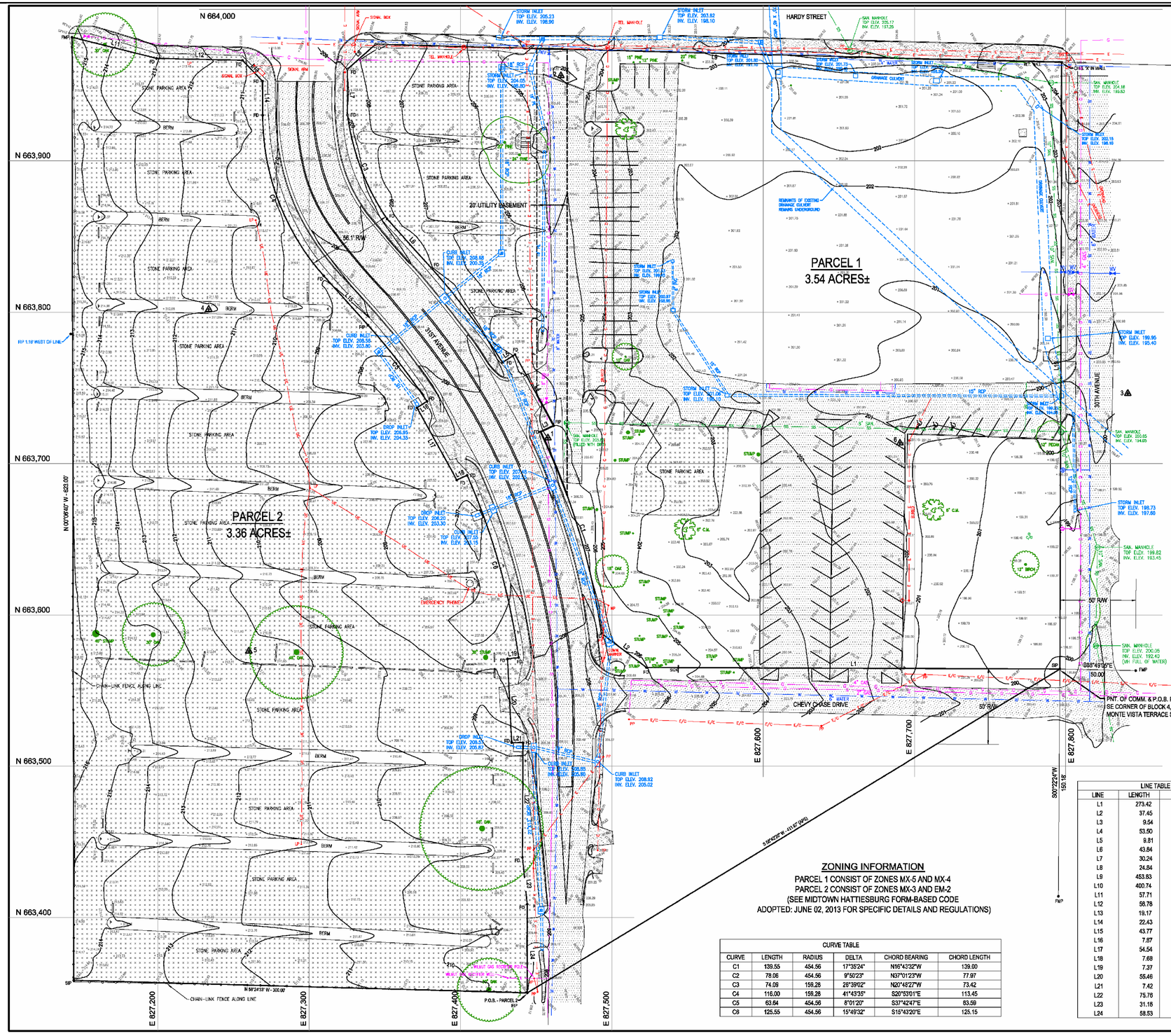

N

GRID

1" = 30'

SURVEY CONTROL MARKER DATA			
MARKER	NORTHING	EASTING	ELEVATION
1	663,716.96	827,457.80	206.99
2	663,956.22	827,466.36	205.26
3	663,746.37	827,840.97	200.19
4	663,801.90	827,233.51	212.25
5	663,576.10	827,260.010	211.60
6	663,713.54	827,690.25	201.15

LEGEND & ABBREVIATIONS

- 200 — TOPOGRAPHIC CONTOUR
- x 200.00 — SPOT ELEVATION
- C — COMMUNICATION
- E — ELECTRIC LINE
- G — GAS LINE
- W — WATER LINE
- SS — SANITARY SEWER LINE
- UE — UNDERGROUND ELECTRIC LINE
- TREE LINE
- WV — WATER VALVE
- C/O — CLEAN-OUT
- SURVEY CONTROL POINT
- ASPHALT
- CONCRETE
- GRAVEL OR STONE
- SIP — SET IRON PIN (18" X 1/2"Ø REBAR)
- FD — FOUND RIGHT-OF-WAY DISK
- FIP — FOUND IRON PIN
- FMP — FOUND METAL PIPE

REFERENCES

DEED BOOK 312 PAGE 349
DEED BOOK 412 PAGE 101
DEED BOOK 515 PAGE 138
MDOT R.O.W. PLANS STP-6098-00(003)
SURVEY OF 'PARCEL 1' BY FES DATED: 11-12-09

PARCEL 2 DESCRIPTION

A PARCEL OF LAND LOCATED IN THE NORTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 7, TOWNSHIP 4 NORTH, RANGE 13 WEST, FORREST COUNTY, MISSISSIPPI, ALSO BEING A PART OF THE MONTE VISTA TERRACE SUBDIVISION, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF BLOCK 4 OF THE MONTE VISTA TERRACE SUBDIVISION, PROCEED S58°42'20"W FOR 411.97' TO THE WEST R.O.W. BOUNDARY OF 31ST AVENUE TO AN IRON PIN AND THE POINT OF BEGINNING; THENCE RUN N88°24'33"W FOR 300.00' TO A SET IRON PIN; THENCE RUN N00°06'40"W FOR 623.00' TO A FOUND METAL PIPE ON THE SOUTH R.O.W. BOUNDARY OF HARDY STREET; THENCE ALONG THE SOUTH R.O.W. BOUNDARY OF HARDY STREET S76°00'29"E FOR 57.71' TO A FOUND R.O.W. DISK; THENCE ALONG THE SOUTH R.O.W. BOUNDARY OF HARDY STREET S88°43'25"E FOR 56.78' TO A FOUND R.O.W. DISK AT THE INTERSECTION OF THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED; THENCE RUN S43°43'26"E FOR 19.17' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE S00°18'27"E FOR 22.43' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN 116.00' ALONG A CURVE TO THE LEFT ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK, SAID CURVE HAVING A RADIUS OF 159.28', AN INCLUDED ANGLE OF 41°43'35", A CHORD BEARING OF S20°53'01"E, AND A CHORD LENGTH OF 113.45'; THENCE RUN S41°49'49"E FOR 43.77' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND IRON PIN; THENCE RUN 83.64' ALONG A CURVE TO THE RIGHT ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK, SAID CURVE HAVING A RADIUS OF 454.56', AN INCLUDED ANGLE OF 8°01'20", A CHORD BEARING OF S37°42'41"E, AND A CHORD LENGTH OF 83.59'; THENCE RUN S57°10'45"W FOR 7.87' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN S28°53'49"E FOR 54.54' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK, THENCE RUN N65°42'07"E FOR 7.68' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN 125.55' ALONG A CURVE TO THE RIGHT ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK, SAID CURVE HAVING A RADIUS OF 454.56, AN INCLUDED ANGLE OF 15°49'32", A CHORD BEARING OF S15°43'20"E, AND A CHORD LENGTH OF 125.15'; THENCE RUN S83°26'43"W FOR 7.37' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN S02°51'15"E FOR 55.48' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN N89°36'10"E FOR 7.42' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN S00°13'22"W FOR 75.76' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN S06°43'51"E FOR 31.16' ALONG THE WEST BOUNDARY OF 31ST AVENUE AS RELOCATED TO A FOUND R.O.W. DISK; THENCE RUN S00°06'04"E FOR 58.53' ALONG THE WEST BOUNDARY OF 31ST AVENUE BACK TO THE POINT OF BEGINNING; SAID PARCEL CONTAINS 3.36 ACRES, MORE OR LESS.

PARCEL MAY BE SUBJECT TO UNVACATED STREET RIGHT(S)-OF-WAY OR UTILITY EASEMENTS.

ZONING INFORMATION

PARCEL 1 CONSIST OF ZONES MX-5 AND MX-4
PARCEL 2 CONSIST OF ZONES MX-3 AND EM-2
(SEE MIDTOWN HATTIESBURG FORM-BASED CODE
ADOPTED: JUNE 02, 2013 FOR SPECIFIC DETAILS AND REGULATIONS)

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	139.55	454.56	17°35'24"	N16°43'32"W	139.00
C2	78.06	454.56	9°50'23"	N37°01'23"W	77.97
C3	74.09	159.28	26°39'02"	N20°48'27"W	73.42
C4	116.00	159.28	41°43'35"	S20°53'01"E	113.45
C5	63.64	454.56	8°01'20"	S37°42'41"E	63.59
C6	125.55	454.56	15°49'32"	S15°43'20"E	125.15

LINE TABLE		
LINE	LENGTH	BEARING
L1	273.42	N89°47'18"W
L2	37.45	N52°48'45"W
L3	9.54	N64°55'38"E
L4	53.50	N28°33'59"W
L5	9.81	S57°40'44"W
L6	43.84	N42°06'05"W
L7	30.24	N00°03'33"W
L8	24.84	N48°20'47"E
L9	453.83	S88°29'19"E
L10	400.74	S00°11'09"W
L11	57.71	S76°00'29"E
L12	56.78	S88°43'25"E
L13	19.17	S43°43'26"E
L14	22.43	S00°18'27"E
L15	43.77	S41°49'49"E
L16	7.87	S57°10'45"W
L17	54.54	S28°53'49"E
L18	7.68	N65°42'07"E
L19	7.37	S83°26'43"W
L20	55.46	S02°51'15"E
L21	7.42	N89°36'10"E
L22	75.76	S00°13'22"W
L23	31.16	S05°43'51"E
L24	58.53	S00°06'04"E

BEARINGS ORIENTED BY: GPS - GRID (MS EAST)
DRAWING SCALE: 1" = 30'
CLASS OF SURVEY: B
SURVEYED BY: FES
DRAWN BY: JSF

PREPARED BY:

FORD ENGINEERING SERVICES, PLLC
2010 Oak Grove Road / Building 4, Suite 1 / Hattiesburg, MS 39402
Phone: (601) 264-8333 Fax: (601) 264-7298

PREPARED FOR:

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

PROJECT TITLE:

31ST AVENUE PARKING AREA TOPOGRAPHIC AND BOUNDARY SURVEY

JOEL S. FORD — REGISTERED PROFESSIONAL LAND SURVEYOR 02743 — STATE OF MISSISSIPPI

I CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Joel S. Ford
MS PLS No. 02743

9/30/13
Date

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

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Date: 01-30-2017	Working No. TOPO1	
Drawing No.: 11241	Sheet No. C0.4	

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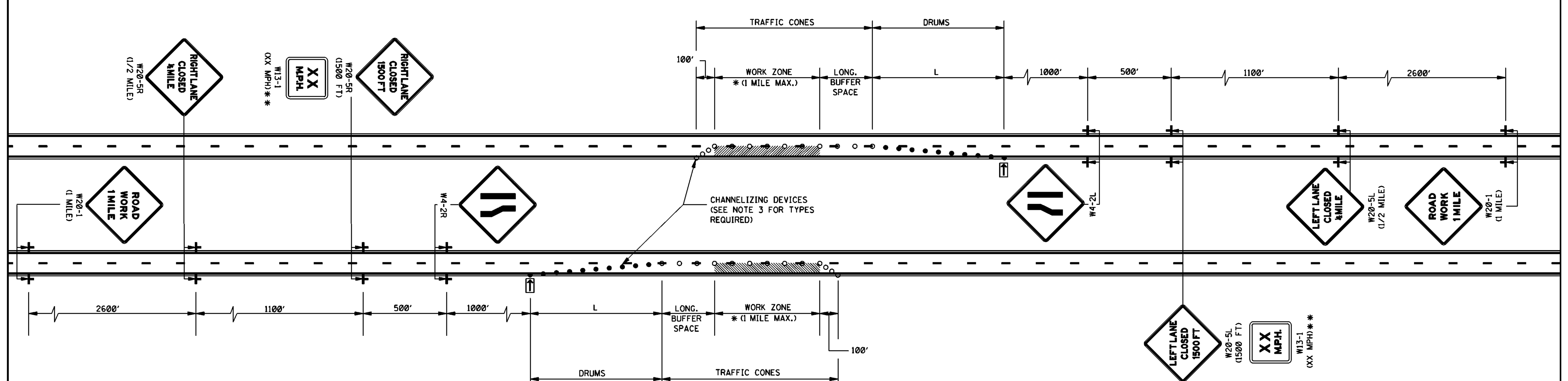

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
L = $WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. FLASHING ARROW PANEL SHALL BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICE TYPES FOR:
A. APPROACH TAPER- REFLECTORIZED PLASTIC DRUMS
B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT)
C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT)

4. WHEN THERE IS NO EXISTING HAZARD, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.

5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.

6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

7. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" X 48".

LEGEND

* OR AS SHOWN ELSEWHERE OF THE PLANS.
** THE LEGEND ON W13-1 (XX MPH) SUPPLEMENTAL PLATE SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT.
⇨ FLASHING ARROW PANEL (TYPE "C")
● REFLECTORIZED FREE-STANDING PLASTIC DRUMS
○ TRAFFIC CONES (28" HEIGHT)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH
(4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)

DEPARTMENT OF TRANSPORTATION MISSISSIPPI ENGLISH

WORKING NUMBER TCP-2
SHEET NUMBER 6251

BY | REVISION | DATE
ISSUE DATE: OCTOBER 1, 1998

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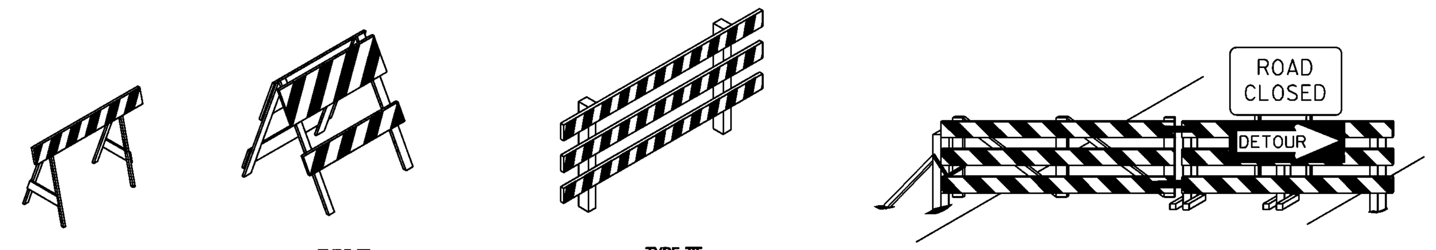
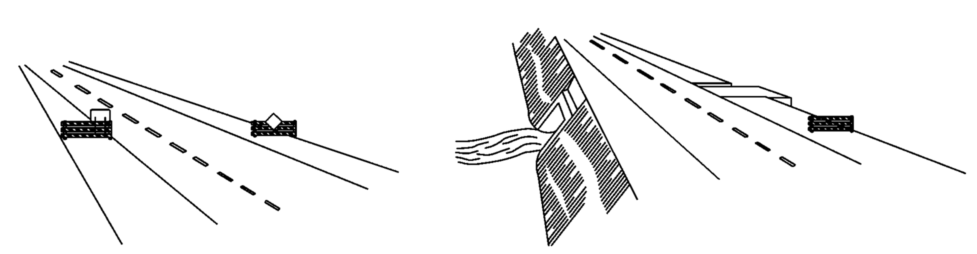




STANDARD BARRICADES

1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

BARRICADE CHARACTERISTICS

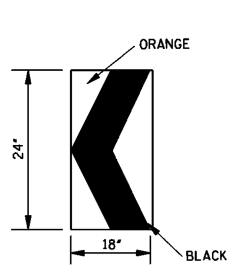
	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in^2 OF REFLECTIVE AREA FACING TRAFFIC.

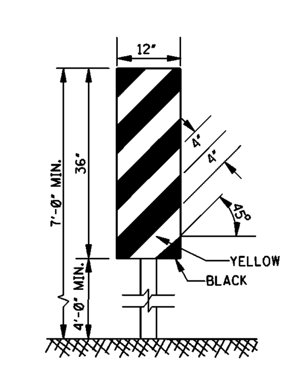
WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



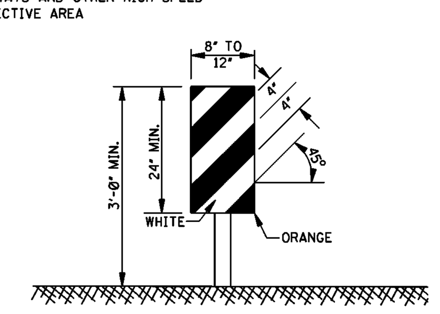
CHEVRON SIGN DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR RIGID SKID.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



TYPE 3 OBJECT MARKER
(OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

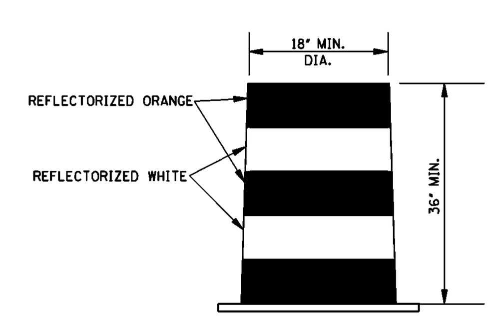


VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in^2 OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.



PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

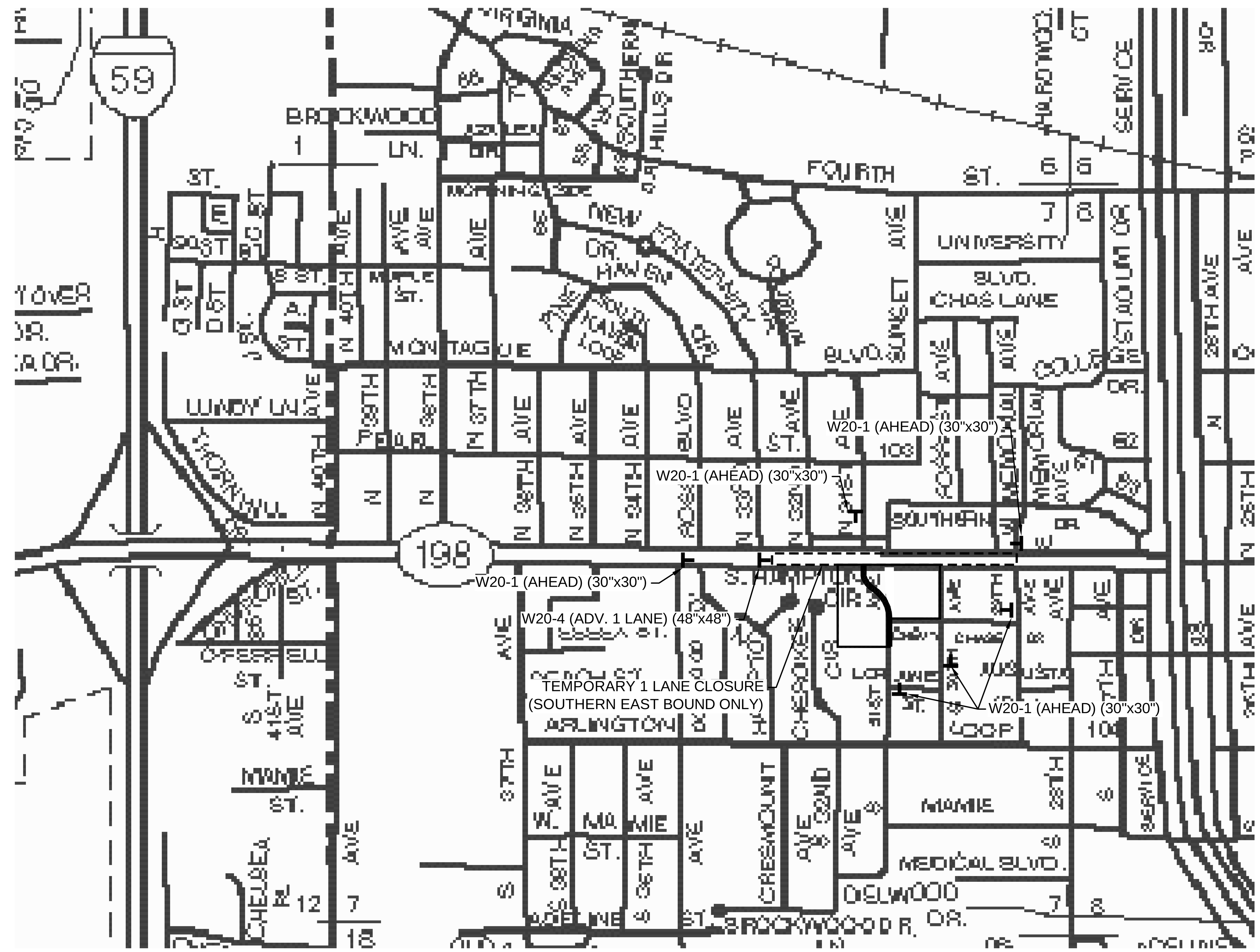
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

DEPARTMENT OF TRANSPORTATION MISSISSIPPI ENGLISH

WORKING NUMBER TCP-10
SHEET NUMBER 6259

BY | REVISION | DATE
ISSUE DATE: OCTOBER 1, 1998

RANGE 13 WEST



TOWNSHIP 4 NORTH

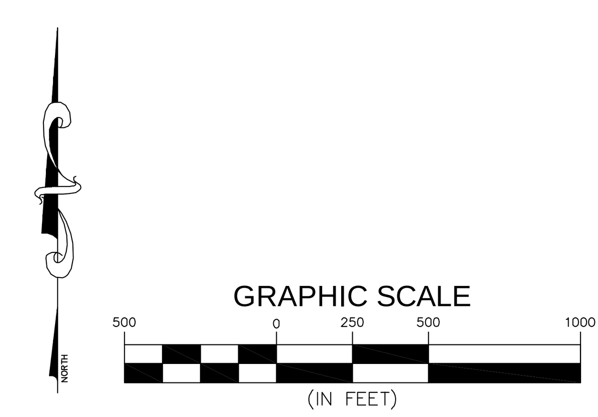
TRAFFIC CONTROL PLAN

GENERAL TRAFFIC CONTROL NOTES:

1. NOTIFICATIONS OF LANE AND/OR ROAD CLOSURES SHALL BE SUBMITTED TO THE CITY OF HATTIESBURG, MDOT AND THE ENGINEER IN WRITING, SEVEN (7) DAYS PRIOR TO CLOSURE. SPECIAL COORDINATION WITH EMERGENCY RESPONSE AGENCIES MAY BE REQUIRED (AT NO EXTRA COST TO THE PROJECT).
2. MDOT ROADWORK AND LANE CLOSURE PERMITS SHALL BE REQUIRED PRIOR TO CONSTRUCTION FOR ALL WORK PERFORMED ON AND ALONG HARDY STREET (SR 198). THE CONTRACTOR SHALL COORDINATE WORK TIMES WITH OFF-PEAK TRAFFIC TIMES TO MINIMIZE ROAD HAZARDS AND TRAFFIC DELAYS.
3. EXISTING SIGNS CONFLICTING WITH CONSTRUCTION SIGNS SHALL BE REMOVED AND/OR COVERED FOR THE DURATION OF THE CONSTRUCTION SIGN USAGE. ALL EXISTING SIGNS REMOVED AND/OR COVERED FOR THIS PROJECT SHALL BE RESET AND/OR UNCOVERED AT THE CONTRACTOR'S EXPENSE.
4. ALL CONSTRUCTION SIGNS AND BARRICADES SHALL BE REMOVED UPON COMPLETION OF THE PROJECT BUT PRIOR TO FINAL ACCEPTANCE.

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.



NO.	DATE	DESCRIPTION	BY

TRAFFIC CONTROL PLAN – HARDY STREET WORK

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

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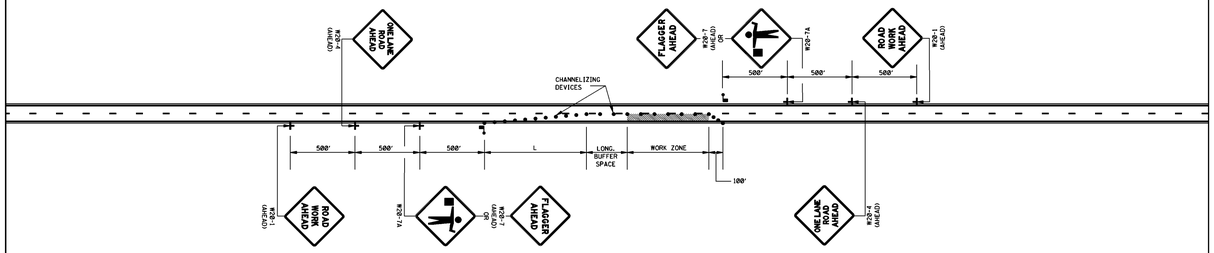

LEGEND

FLAGGER

CHANNELIZING DEVICES

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
L = WS²/60 FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 24" IN HEIGHT.
3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" x 48".
5. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
6. WHERE THE WORK ZONE IS STATIONARY, THE W20-7 (500 FT.)SIGN OR THE W20-7A SIGN TOGETHER WITH THE W20-7 (500 FT.)SUPPLEMENTAL PLATE SHOULD BE USED TO INDICATE THE DISTANCE TO THE FLAGGER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN WITH FLAGGER
(ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)

WORKING NUMBER TCP-1
SHEET NUMBER 6250

ISSUE DATE: OCTOBER 1, 1998

STATE	PROJECT NO.
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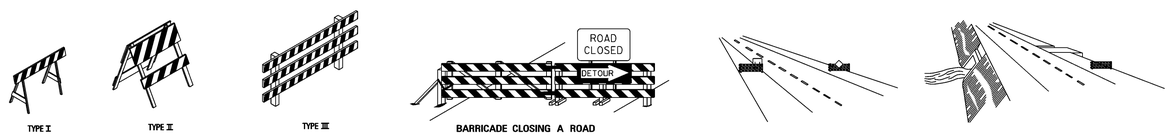


STANDARD BARRICADES

1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

BARRICADE CHARACTERISTICS

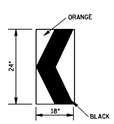
	I	II	III
WIDTH OF RAIL ✱✱	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL ✱✱	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE ✱	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

✱ 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

✱✱ 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in^2 OF REFLECTIVE AREA FACING TRAFFIC.

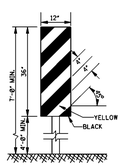
WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
   A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
   B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



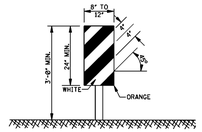
CHEVRON SIGN DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR RIGID SKID.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

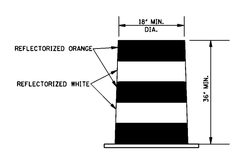


VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in^2 OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.



PLASTIC DRUM STRIPING DETAIL

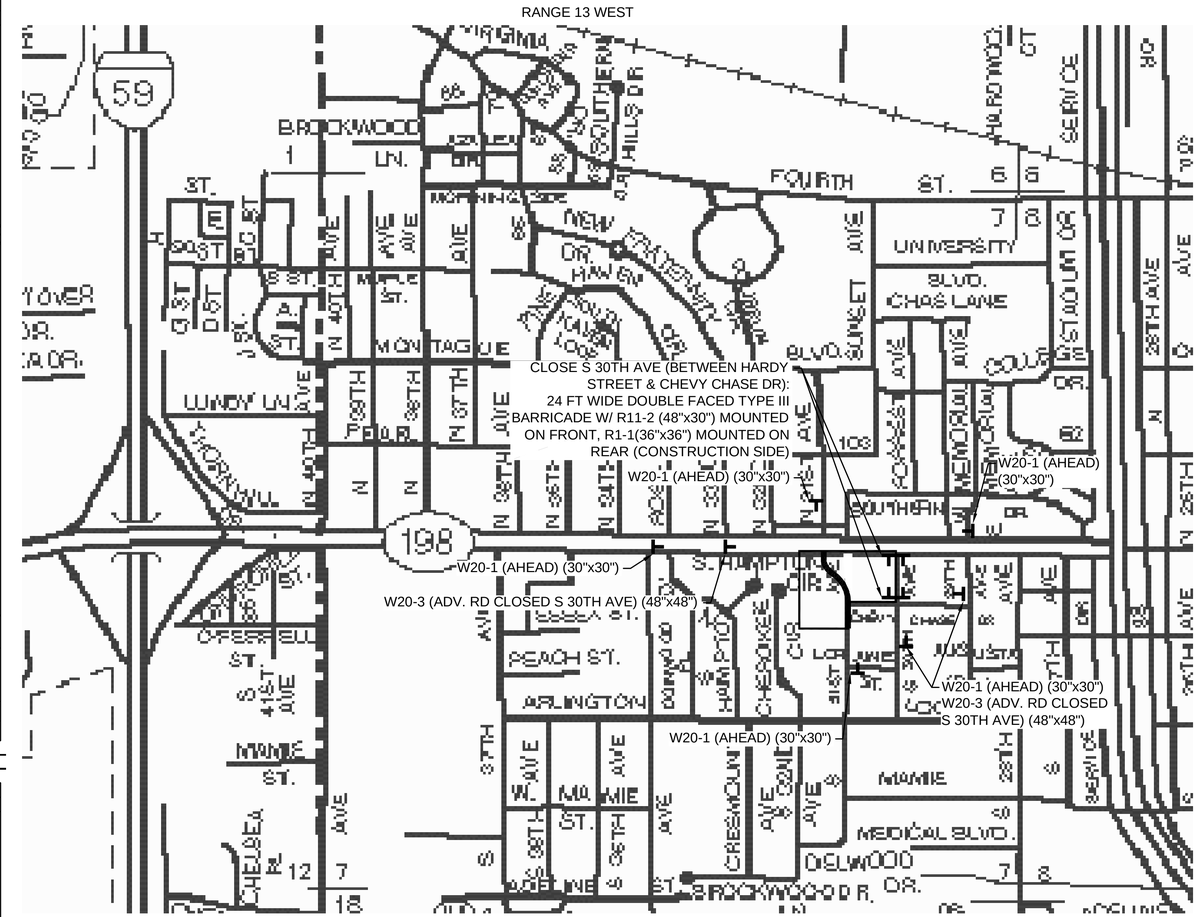
1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

WORKING NUMBER TCP-10
SHEET NUMBER 6259

ISSUE DATE: OCTOBER 1, 1998



TRAFFIC CONTROL PLAN

GENERAL TRAFFIC CONTROL NOTES:

1. NOTIFICATIONS OF LANE AND/OR ROAD CLOSURES SHALL BE SUBMITTED TO THE CITY OF HATTIESBURG, MDOT AND THE ENGINEER IN WRITING, SEVEN (7) DAYS PRIOR TO CLOSURE. SPECIAL COORDINATION WITH EMERGENCY RESPONSE AGENCIES MAY BE REQUIRED (AT NO EXTRA COST TO THE PROJECT).
2. MDOT ROADWORK AND LANE CLOSURE PERMITS SHALL BE REQUIRED PRIOR TO CONSTRUCTION FOR ALL WORK PERFORMED ON AND ALONG HARDY STREET (SR 198). THE CONTRACTOR SHALL COORDINATE WORK TIMES WITH OFF-PEAK TRAFFIC TIMES TO MINIMIZE ROAD HAZARDS AND TRAFFIC DELAYS.
3. EXISTING SIGNS CONFLICTING WITH CONSTRUCTION SIGNS SHALL BE REMOVED AND/OR COVERED FOR THE DURATION OF THE CONSTRUCTION SIGN USAGE. ALL EXISTING SIGNS REMOVED AND/OR COVERED FOR THIS PROJECT SHALL BE RESET AND/OR UNCOVERED AT THE CONTRACTOR'S EXPENSE.
4. ALL CONSTRUCTION SIGNS AND BARRICADES SHALL BE REMOVED UPON COMPLETION OF THE PROJECT BUT PRIOR TO FINAL ACCEPTANCE.
5. SOUTH 30TH AVENUE SHALL BE CLOSED FOR DRAINAGE AND UNDERGROUND UTILITY WORK. COORDINATE ACCESS WITH BUSINESSES PRIOR TO CLOSURE. DETOURS MAY BE REQUIRED AS DIRECTED BY THE CITY AND/OR THE ENGINEER (NOT SHOWN ON MAP ABOVE). PAVING AND CURB WORK SHALL BE COMPLETED UNDER TRAFFIC UTILIZING TEMPORARY ONE LANE CLOSURES.

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

GRAPHIC SCALE
500 0 250 500 1000
(IN FEET)

NO.	DATE	DESCRIPTION	BY

TRAFFIC CONTROL PLAN - SOUTH 30TH AVE

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: AS NOTED
Date: 01-30-2017	Working No. TCP2	
Drawing No.: 11241	Sheet No. C0.6	

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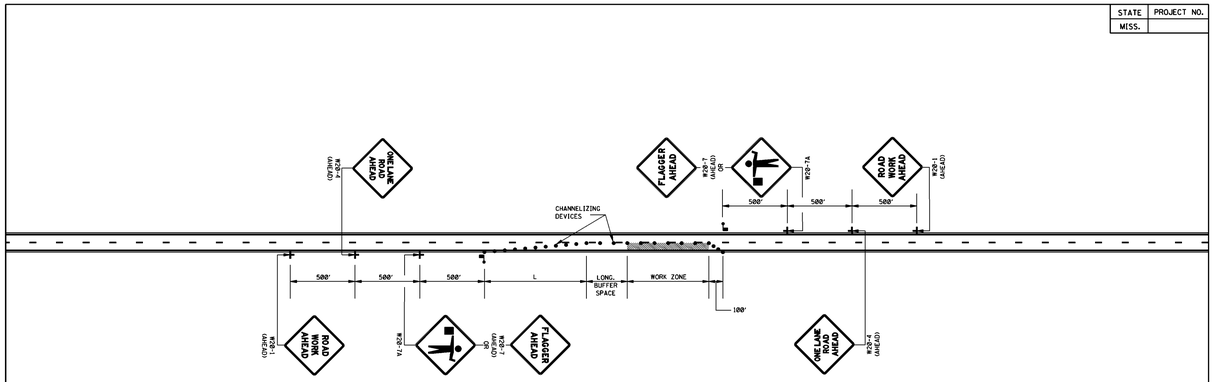
STATE	PROJECT NO.
MISS.	



LEGEND

FLAGGER

CHANNELIZING DEVICES

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
L = WS²/60 FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 24" IN HEIGHT.
3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" x 48".
5. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
6. WHERE THE WORK ZONE IS STATIONARY, THE W20-7 (500 FT.) SIGN OR THE W20-7A SIGN TOGETHER WITH THE W20-7 (500 FT.) SUPPLEMENTAL PLATE SHOULD BE USED TO INDICATE THE DISTANCE TO THE FLAGGER.

DATE	SECTION	REVISION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN WITH FLAGGER
(ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)

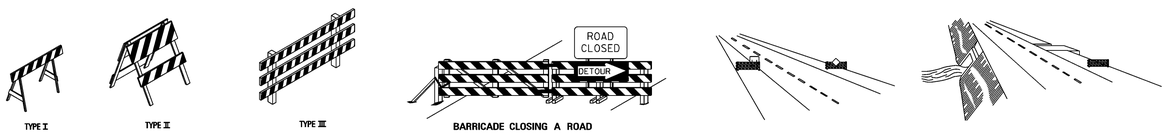
STATE OF MISSISSIPPI ENGLISH

WORKING NUMBER TCP-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6250

STATE	PROJECT NO.
MISS.	



TYPE I TYPE II TYPE III

BARRICADE CLOSING A ROAD

WING BARRICADES

STANDARD BARRICADES

1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

BARRICADE CHARACTERISTICS

	I	II	III
WIDTH OF RAIL ✱✱	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL ✱✱	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE ✱	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

✱ 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

✱✱ 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in^2 OF REFLECTIVE AREA FACING TRAFFIC.

WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
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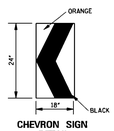
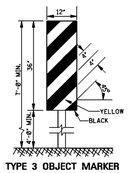
   A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
   B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



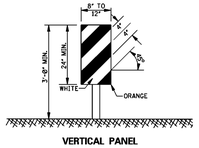
CHEVRON SIGN DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR RIGID SKID.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

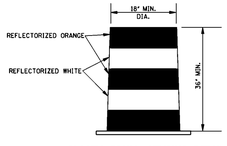


VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in^2 OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.



PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

DATE	SECTION	REVISION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

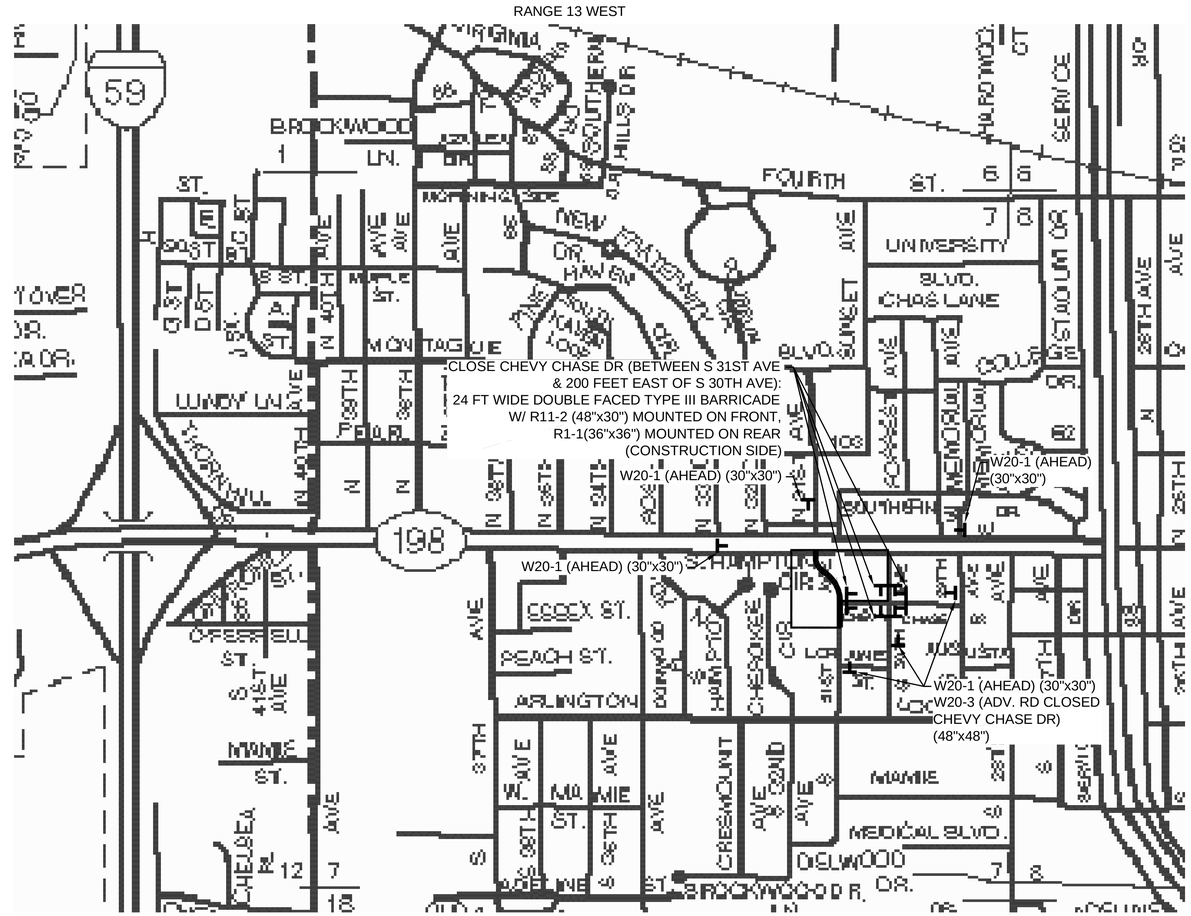
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

STATE OF MISSISSIPPI ENGLISH

WORKING NUMBER TCP-10

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6259



TRAFFIC CONTROL PLAN

GENERAL TRAFFIC CONTROL NOTES:

1. NOTIFICATIONS OF LANE AND/OR ROAD CLOSURES SHALL BE SUBMITTED TO THE CITY OF HATTIESBURG, MDOT AND THE ENGINEER IN WRITING, SEVEN (7) DAYS PRIOR TO CLOSURE. SPECIAL COORDINATION WITH EMERGENCY RESPONSE AGENCIES MAY BE REQUIRED (AT NO EXTRA COST TO THE PROJECT).
2. MDOT ROADWORK AND LANE CLOSURE PERMITS SHALL BE REQUIRED PRIOR TO CONSTRUCTION FOR ALL WORK PERFORMED ON AND ALONG HARDY STREET (SR 198). THE CONTRACTOR SHALL COORDINATE WORK TIMES WITH OFF-PEAK TRAFFIC TIMES TO MINIMIZE ROAD HAZARDS AND TRAFFIC DELAYS.
3. EXISTING SIGNS CONFLICTING WITH CONSTRUCTION SIGNS SHALL BE REMOVED AND/OR COVERED FOR THE DURATION OF THE CONSTRUCTION SIGN USAGE. ALL EXISTING SIGNS REMOVED AND/OR COVERED FOR THIS PROJECT SHALL BE RESET AND/OR UNCOVERED AT THE CONTRACTOR'S EXPENSE.
4. ALL CONSTRUCTION SIGNS AND BARRICADES SHALL BE REMOVED UPON COMPLETION OF THE PROJECT BUT PRIOR TO FINAL ACCEPTANCE.
5. CHEVY CHASE DRIVE SHALL BE CLOSED FOR CURB, PAVING, DRAINAGE AND UNDERGROUND UTILITY WORK. COORDINATE ACCESS WITH BUSINESSES PRIOR TO CLOSURE. DETOURS MAY BE REQUIRED AS DIRECTED BY THE CITY AND/OR THE ENGINEER (NOT SHOWN ON MAP ABOVE).

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

GRAPHIC SCALE
500 0 250 500 1000
(IN FEET)

NO.	DATE	DESCRIPTION	BY

TRAFFIC CONTROL PLAN – CHEVY CHASE DR

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: AS NOTED
Date: 01-30-2017	Working No. TCP3	
Drawing No.: 11241	Sheet No. C0.7	

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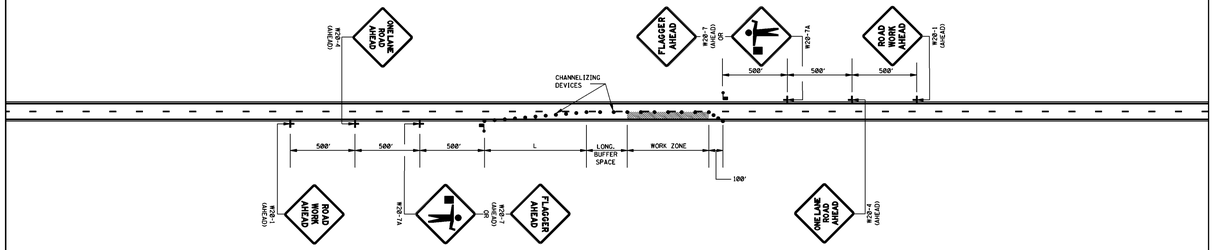
STATE	PROJECT NO.
MISS.	



LEGEND

FLAGGER

CHANNELIZING DEVICES

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
L = WS²/60 FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 24" IN HEIGHT.
3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" x 48".
5. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
6. WHERE THE WORK ZONE IS STATIONARY, THE W20-7 (500 FT.) SIGN OR THE W20-7A SIGN TOGETHER WITH THE W20-7 (500 FT.) SUPPLEMENTAL PLATE SHOULD BE USED TO INDICATE THE DISTANCE TO THE FLAGGER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

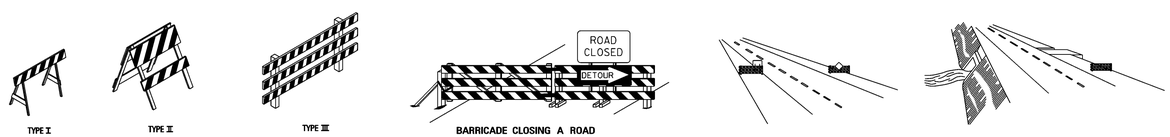
TRAFFIC CONTROL PLAN WITH FLAGGER
(ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)

WORKING NUMBER TCP-1
SHEET NUMBER 6250

ISSUE DATE: OCTOBER 1, 1998

NO.	DATE	REVISION

STATE	PROJECT NO.
MISS.	



STANDARD BARRICADES

1. A TYPE I BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE FRAME OR A LIGHT "A" FRAME. A TYPE I BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
2. A TYPE II BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "A" FRAME. TYPE II BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
3. TYPE I AND TYPE II BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS RELATIVELY SMALL AS, FOR EXAMPLE, ON CITY STREETS, OR FOR THE MORE OR LESS CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE.
4. A TYPE III BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A RIGID SKID, A HEAVY DEMOUNTABLE FRAME OR A HEAVY, HINGED "A" FRAME.
5. TYPE III BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS WING BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
6. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
7. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
8. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

BARRICADE CHARACTERISTICS

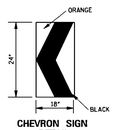
	I	II	III
WIDTH OF RAIL * *	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL * *	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS
TYPE OF FRAME	LIGHT	LIGHT "A" FRAME	POST OR SKID

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

* * 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in^2 OF REFLECTIVE AREA FACING TRAFFIC.

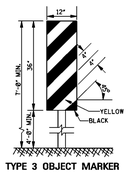
WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
   A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
   B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



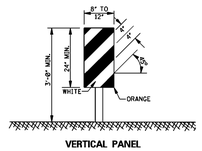
CHEVRON SIGN DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR RIGID SKID.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

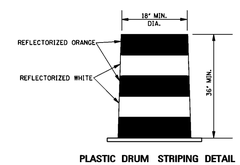


VERTICAL PANEL

1. VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
2. THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE PANELS SHALL BE MOUNTED WITH THE TOP A MINIMUM OF 36" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
3. VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 in^2 OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

GENERAL NOTES:

1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.



PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) REFLECTORIZED, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHALL BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

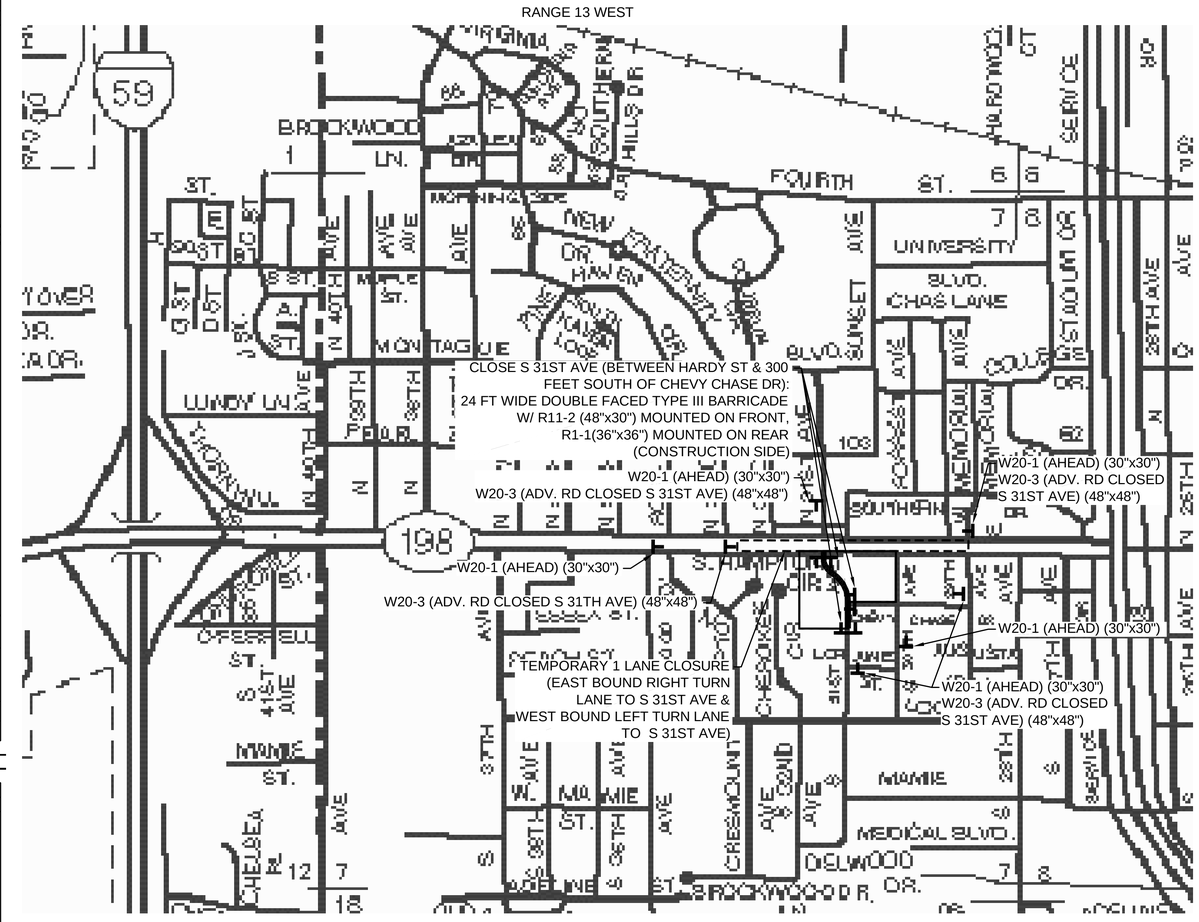
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

WORKING NUMBER TCP-10
SHEET NUMBER 6259

ISSUE DATE: OCTOBER 1, 1998

NO.	DATE	REVISION



TRAFFIC CONTROL PLAN

GENERAL TRAFFIC CONTROL NOTES:

1. NOTIFICATIONS OF LANE AND/OR ROAD CLOSURES SHALL BE SUBMITTED TO THE CITY OF HATTIESBURG, MDOT AND THE ENGINEER IN WRITING, SEVEN (7) DAYS PRIOR TO CLOSURE. SPECIAL COORDINATION WITH EMERGENCY RESPONSE AGENCIES MAY BE REQUIRED (AT NO EXTRA COST TO THE PROJECT).
2. MDOT ROADWORK AND LANE CLOSURE PERMITS SHALL BE REQUIRED PRIOR TO CONSTRUCTION FOR ALL WORK PERFORMED ON AND ALONG HARDY STREET (SR 198). THE CONTRACTOR SHALL COORDINATE WORK TIMES WITH OFF-PEAK TRAFFIC TIMES TO MINIMIZE ROAD HAZARDS AND TRAFFIC DELAYS.
3. EXISTING SIGNS CONFLICTING WITH CONSTRUCTION SIGNS SHALL BE REMOVED AND/OR COVERED FOR THE DURATION OF THE CONSTRUCTION SIGN USAGE. ALL EXISTING SIGNS REMOVED AND/OR COVERED FOR THIS PROJECT SHALL BE RESET AND/OR UNCOVERED AT THE CONTRACTOR'S EXPENSE.
4. ALL CONSTRUCTION SIGNS AND BARRICADES SHALL BE REMOVED UPON COMPLETION OF THE PROJECT BUT PRIOR TO FINAL ACCEPTANCE.
5. SOUTH 31ST AVENUE SHALL BE CLOSED FOR CURB, PAVING, DRAINAGE AND UNDERGROUND UTILITY WORK. DETOURS MAY BE REQUIRED AS DIRECTED BY THE CITY AND/OR THE ENGINEER (NOT SHOWN ON MAP ABOVE).

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

GRAPHIC SCALE
500 0 250 500 1000
(IN FEET)

NO.	DATE	DESCRIPTION	BY

TRAFFIC CONTROL PLAN – SOUTH 31ST AVE

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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Date: 01-30-2017	Working No. TCP4	
Drawing No.: 11241	Sheet No. C0.08	

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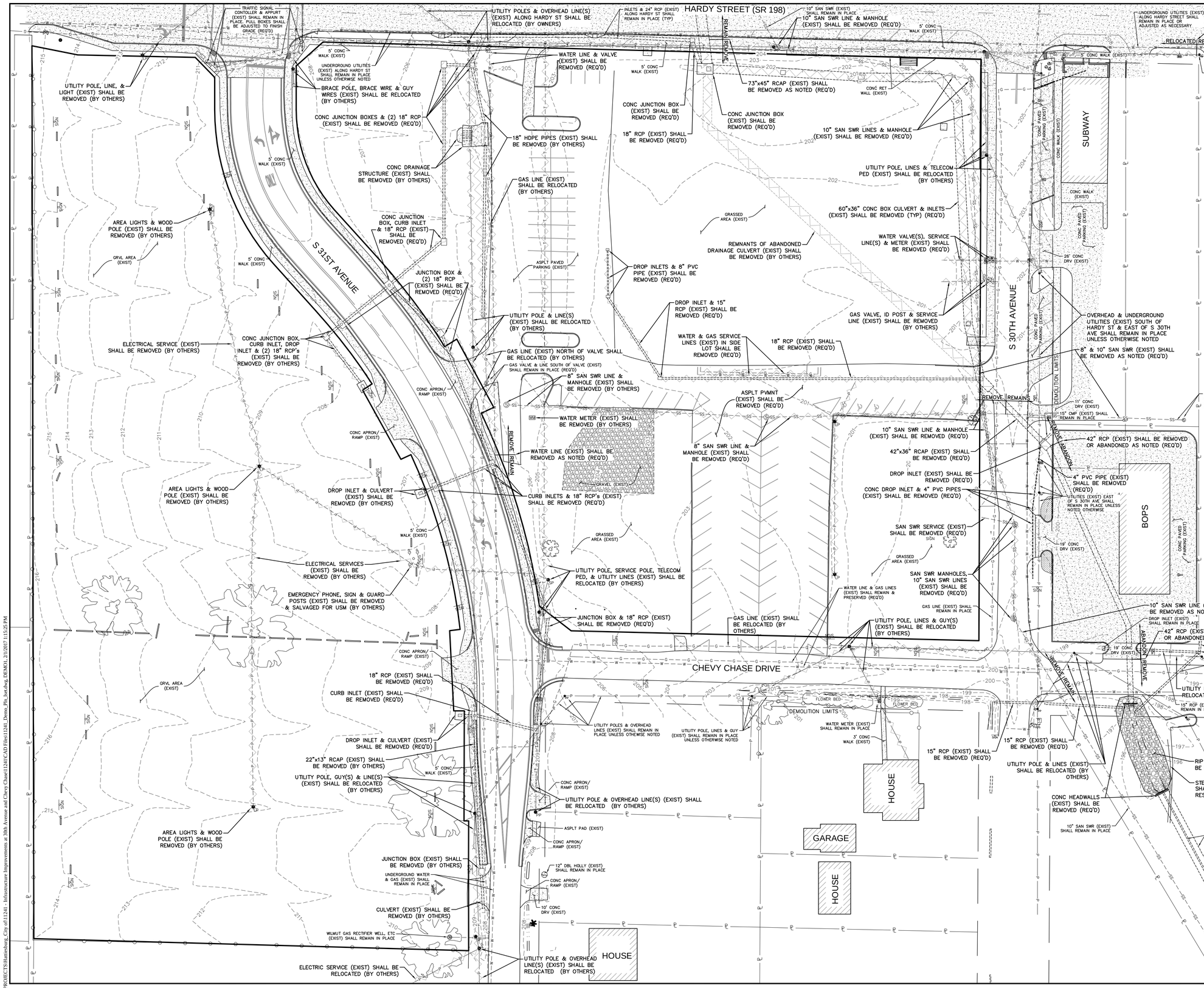

ABANDONMENT / REMOVAL NOTES:

1. ALL EXISTING SUBSURFACE STRUCTURES (SUCH AS MANHOLES & INLETS) NOTED TO BE REMOVED SHALL BE REMOVED ENTIRELY. REMOVED ITEMS SHALL BE DISPOSED OF APPROPRIATELY.
2. ALL EXISTING SUBSURFACE STRUCTURES (SUCH AS MANHOLES & INLETS) NOTED TO BE ABANDONED SHALL BE MODIFIED AS FOLLOWS:
   - 2.1. REMOVE AND DISPOSE OF ANY SANITARY WASTE.
   - 2.2. REMOVE COVER, FRAME AND THE TOP 24" (36" IF LOCATED IN ROADWAY) OF THE STRUCTURE. DISPOSE OF REMOVED ITEMS.
   - 2.3. FILL THE STRUCTURE WITH SAND.
   - 2.4. CAP THE STRUCTURE WITH 2500 PSI, NON-REINFORCED CONCRETE (6" DEPTH).
   - 2.5. BACKFILL WITH NATIVE SOIL MATERIAL AND/OR FILL MATERIAL (CL B9) AND COMPACT. GRADE TO DRAIN AS REQUIRED. GRASS DISTURBED AREA OR REPAIR PVMNT AREAS.
3. ALL EXISTING PIPES NOTED TO BE REMOVED, SHALL BE REMOVED ENTIRELY. REMOVED ITEMS SHALL BE DISPOSED OF APPROPRIATELY.
4. ALL EXISTING PIPES NOTED TO BE ABANDONED, SHALL BE MODIFIED AS FOLLOWS:
   - 4.1. REMOVE AND DISPOSE OF ANY SANITARY WASTE.
   - 4.2. FILL THE PIPE WITH FLOWABLE FILL.
   - 4.3. PLUG ENDS.
5. WHERE ABANDONED PIPES AND/OR SUBSURFACE STRUCTURES CONFLICT WITH THE NEW CONSTRUCTION, THE EXISTING PIPES AND/OR SUBSURFACE STRUCTURES SHALL BE REMOVED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR NOTED.
6. ALL UTILITY APPURTENANCES INSIDE THE LIMITS OF WORK THAT ARE NOT REMOVED SHALL BE ADJUSTED TO FINISH GRADE.

SPECIAL UTILITY NOTES:

1. PRIOR TO ANY DEMOLITION OPERATIONS, THE CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL POWER SYSTEM TO DETERMINE IF MODIFICATIONS ARE REQUIRED TO ENSURE CONTINUED ELECTRICAL POWER SERVICE TO THE ADJACENT STRUCTURES. THE CONTRACTOR SHALL SUBMIT A PLAN OF ACTION TO THE PROJECT ENGINEER FOR APPROVAL AND COORDINATE ANY INTERRUPTIONS WITH THE PROJECT OWNER AND THE STRUCTURES OWNER(S). THE CONTRACTOR SHALL GIVE THE OWNER(S) 24 HOURS NOTICE (MIN) OF ANY INTERRUPTIONS IN SERVICE.
2. PRIOR TO ANY DEMOLITION OPERATIONS, THE CONTRACTOR SHALL VERIFY THE EXISTING WATER AND SEWER SYSTEM TO DETERMINE IF MODIFICATIONS ARE REQUIRED TO ENSURE CONTINUED SERVICE TO THE ADJACENT STRUCTURES. THE CONTRACTOR SHALL SUBMIT A PLAN OF ACTION TO THE PROJECT ENGINEER FOR APPROVAL AND COORDINATE ANY INTERRUPTIONS WITH THE PROJECT OWNER AND THE STRUCTURES OWNER(S). THE CONTRACTOR SHALL GIVE THE OWNER(S) 24 HOURS NOTICE (MIN) OF ANY INTERRUPTIONS IN SERVICE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL UTILITY REMOVALS AND/OR RELOCATIONS.

NO.	DATE	DESCRIPTION	BY

DEMOLITION PLAN

THE DISTRICT AT MIDTOWN INFRASTRUCTURE IMPROVEMENTS HATTIESBURG, MISSISSIPPI

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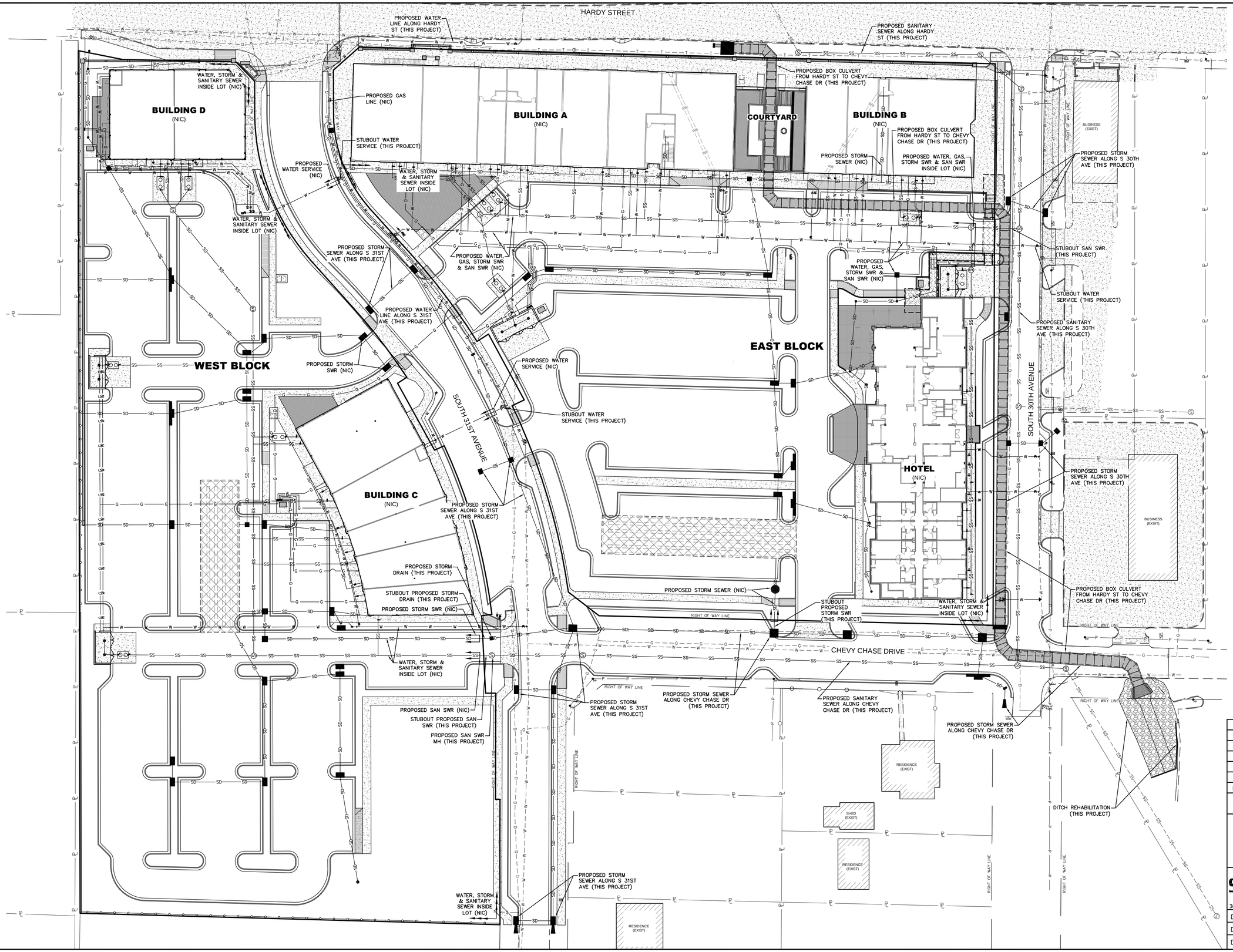

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MASTER SITE PLAN

THE DISTRICT AT MIDTOWN INFRASTRUCTURE IMPROVEMENTS HATTIESBURG, MISSISSIPPI

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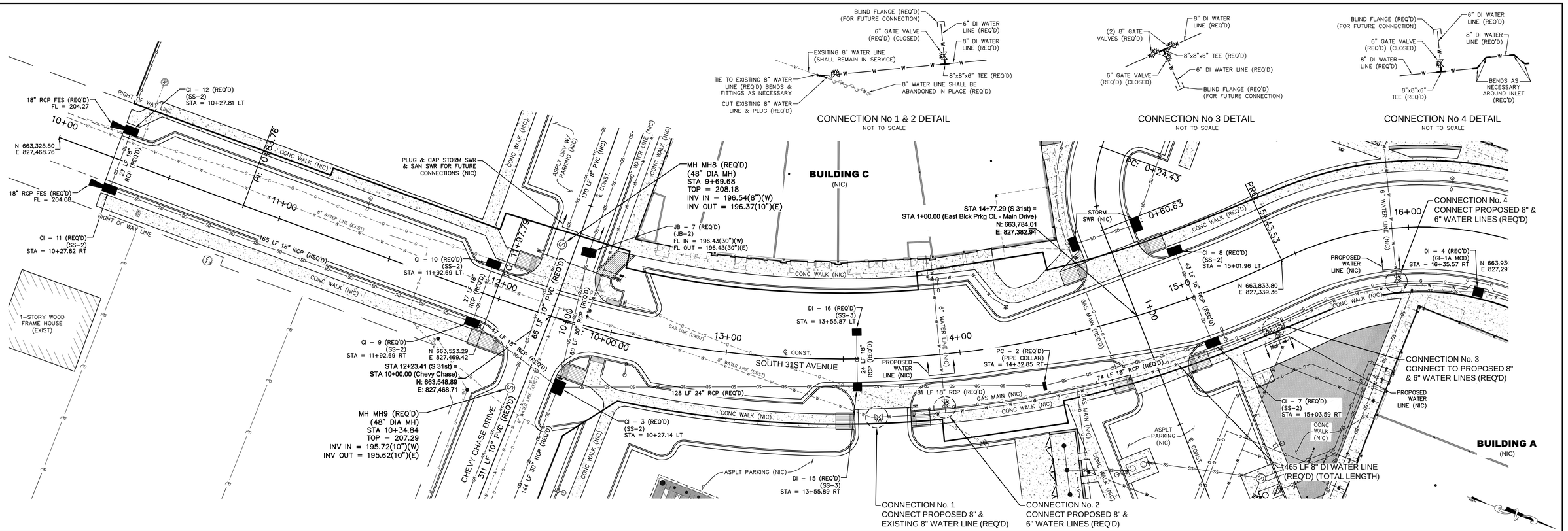

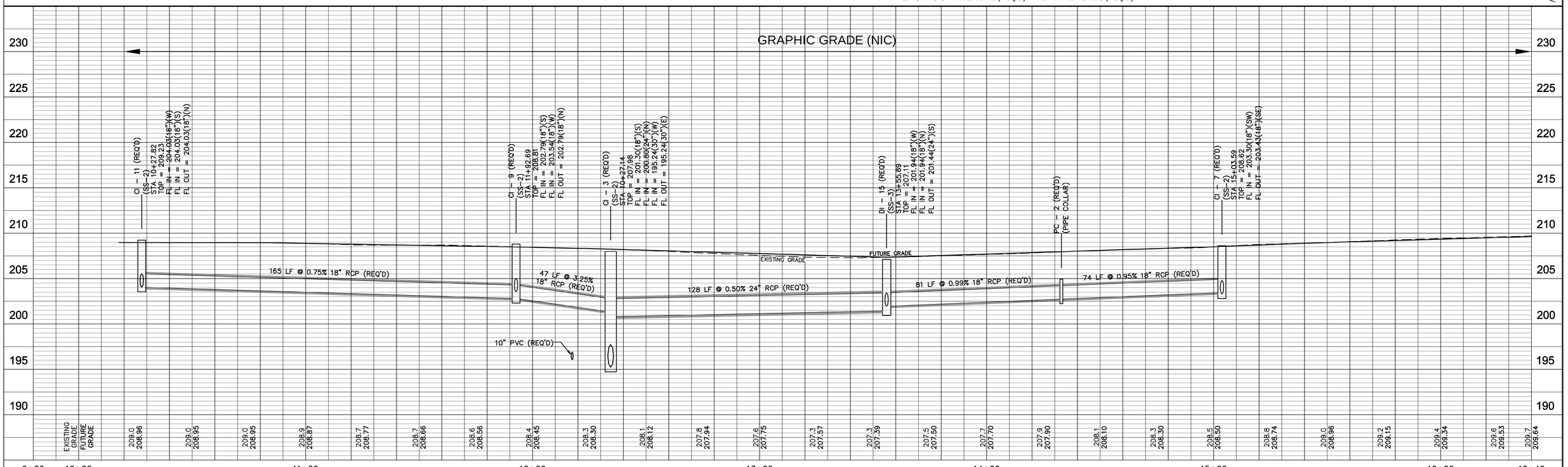

SOUTH 31ST AVENUE

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

DRAWN BY: RES
DATE: 01–30–2017
CHECKED BY: SEM
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WORKING No. PnP 1
SHEET NO. C1.1

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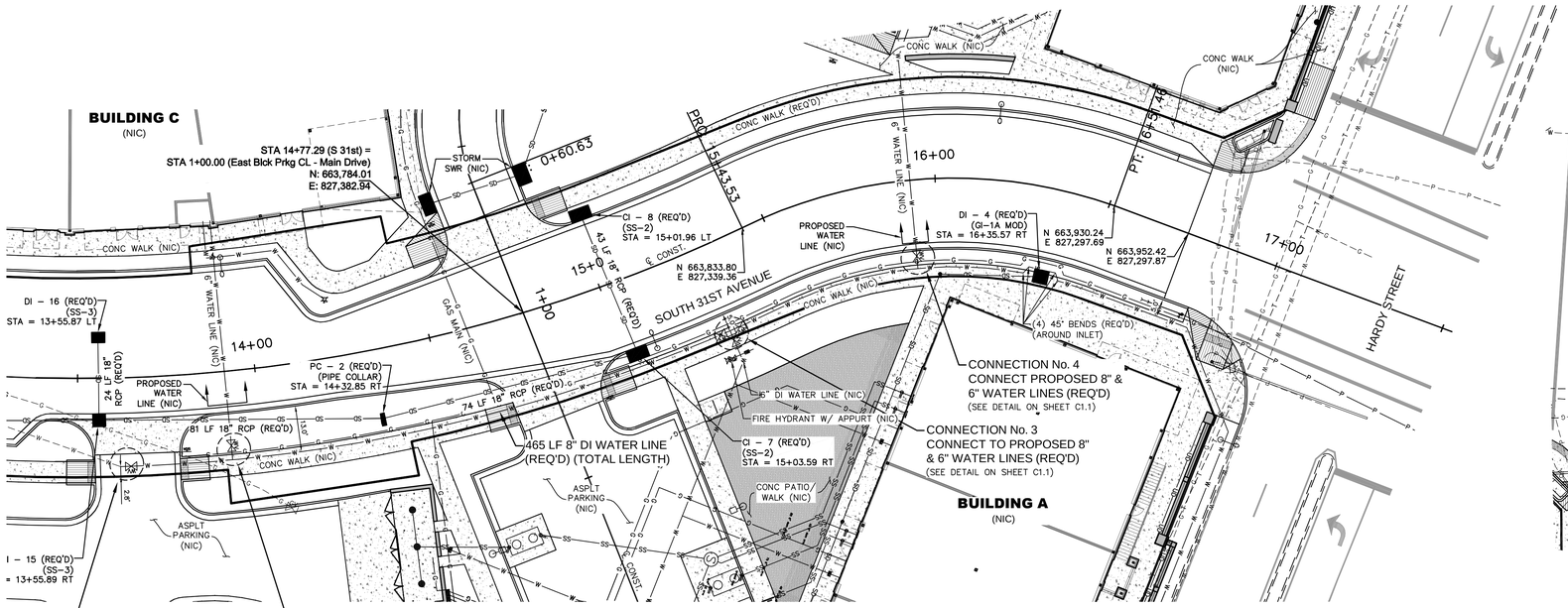

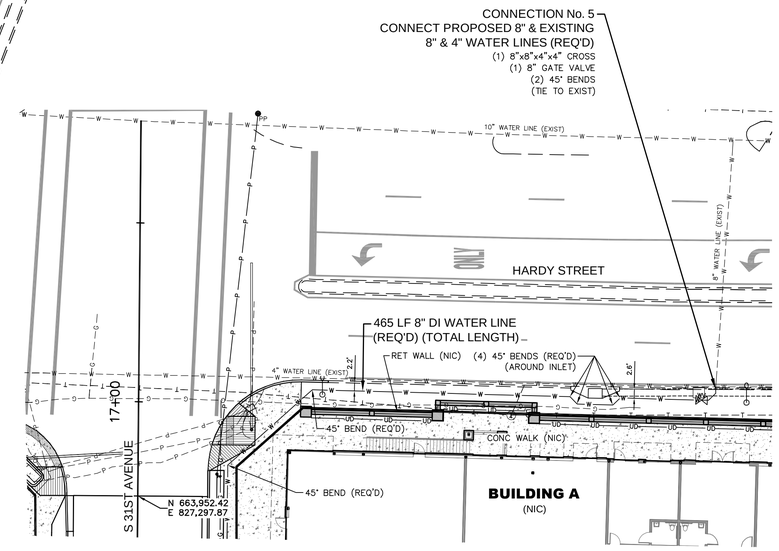

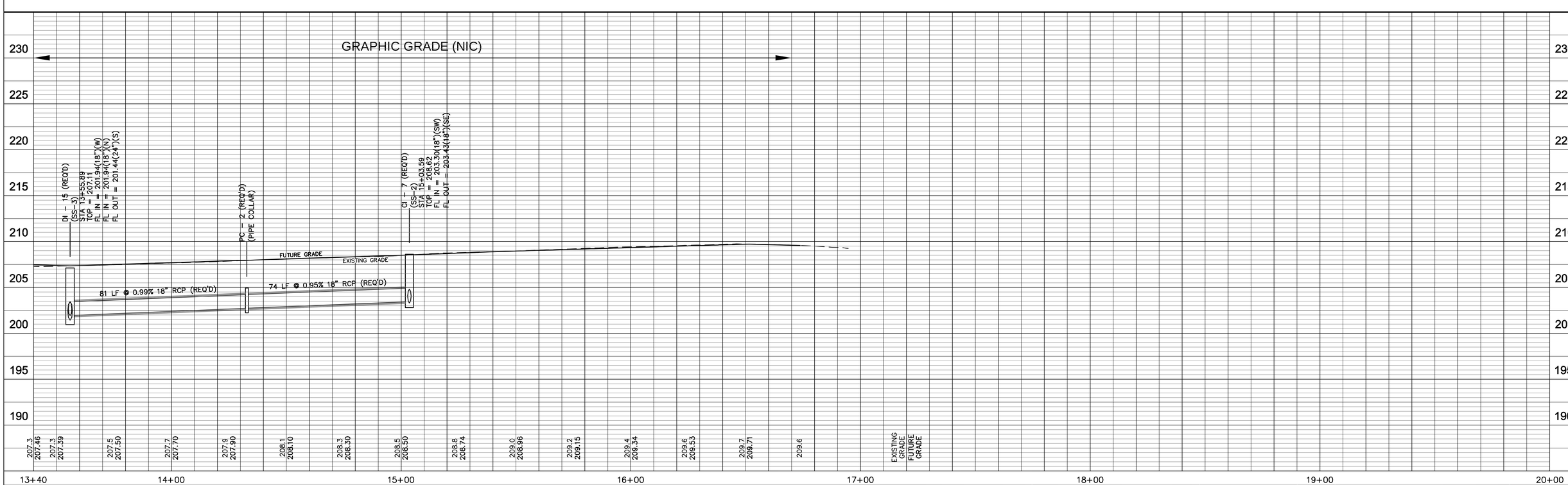

SOUTH 31ST AVENUE

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

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DATE: 01–30–2017
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SHEET NO. C1.2

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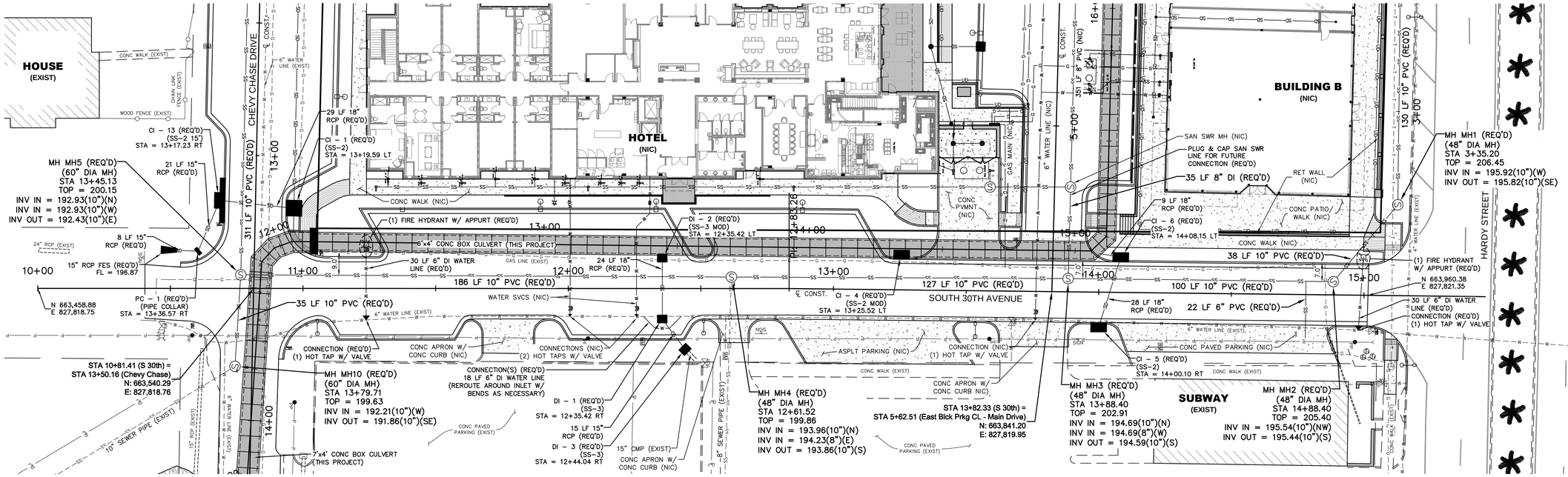

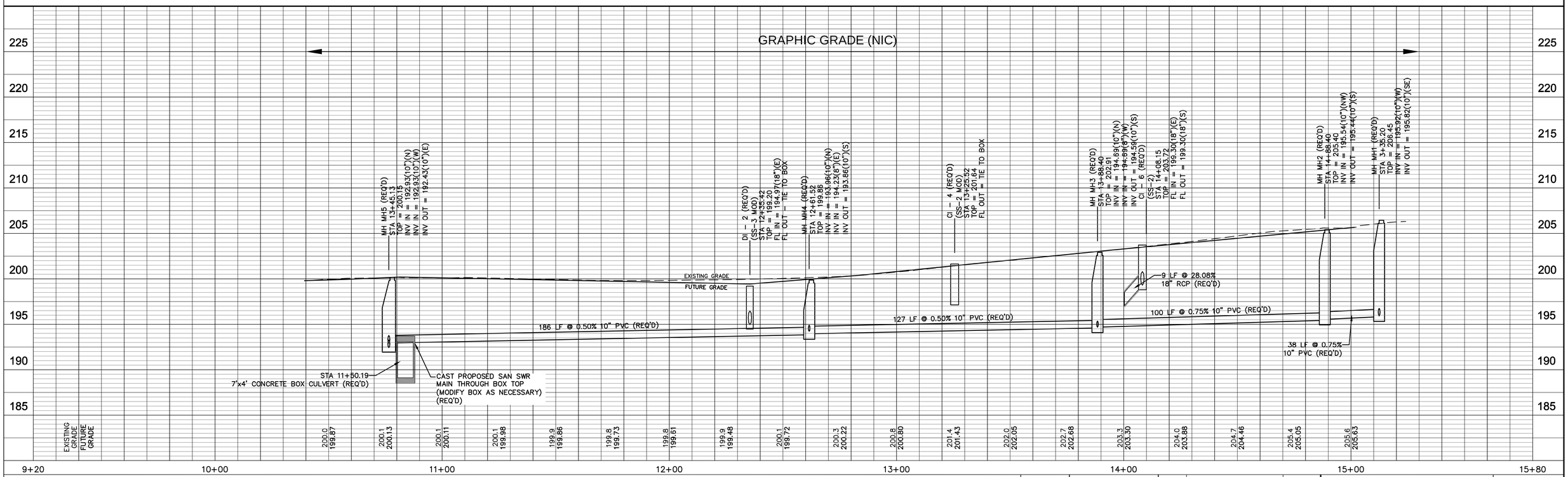

SOUTH 30TH AVENUE

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

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SHEET NO. C1.3

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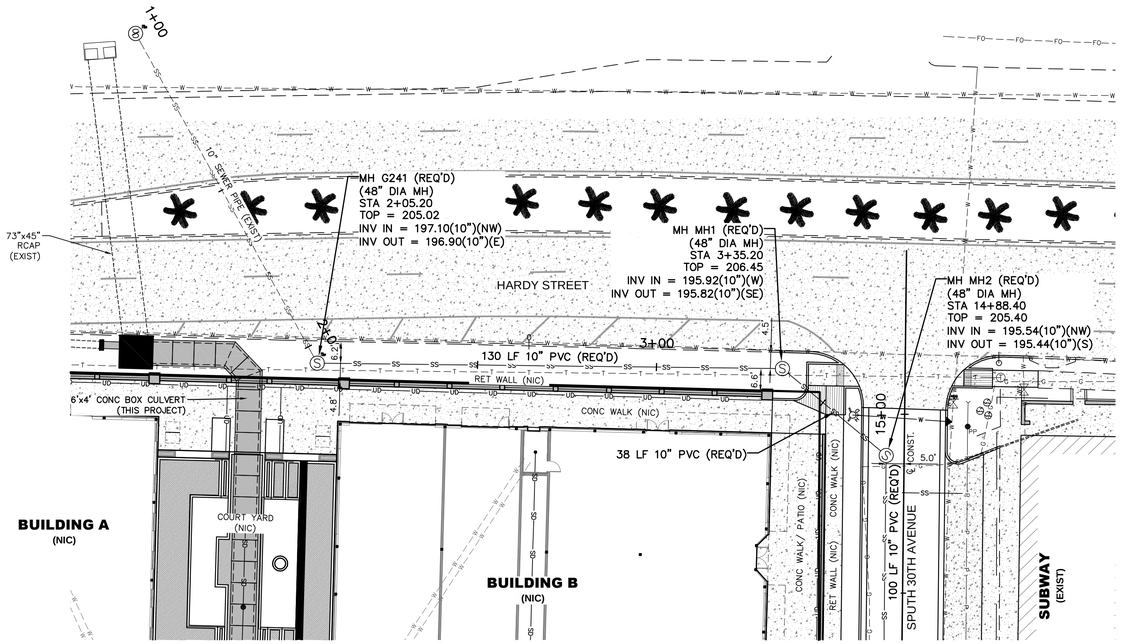

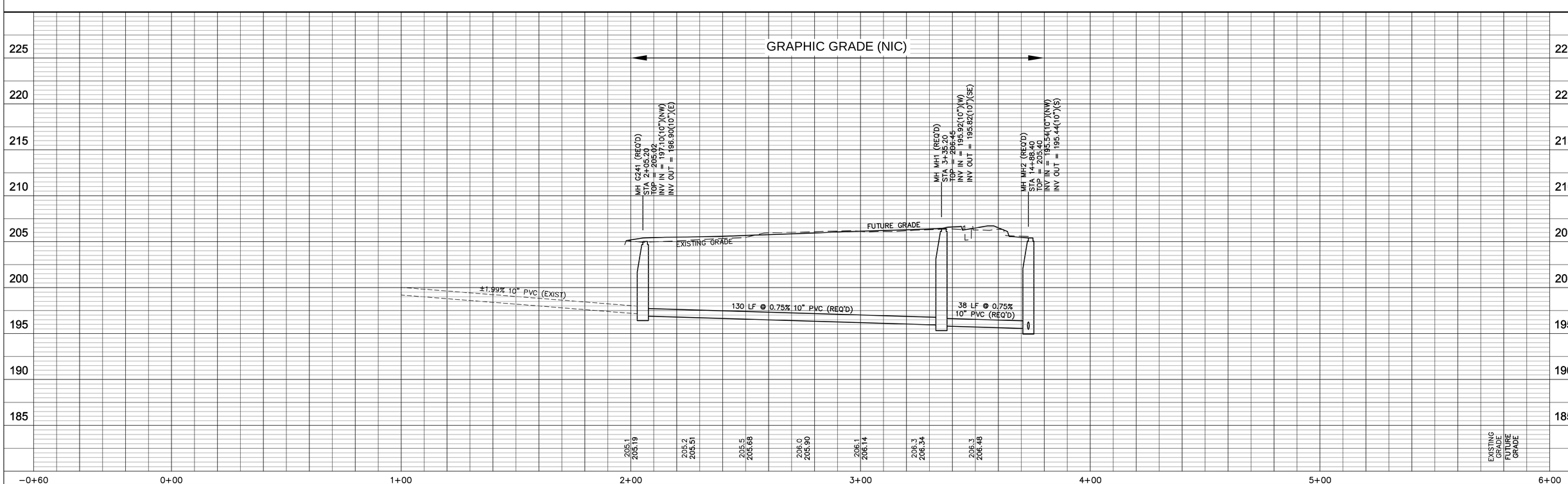

SANITARY SEWER ALONG HARDY STREET

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

DRAWN BY: RES
DATE: 01-30-2017
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WORKING No. PnP 4
SHEET NO. C1.4

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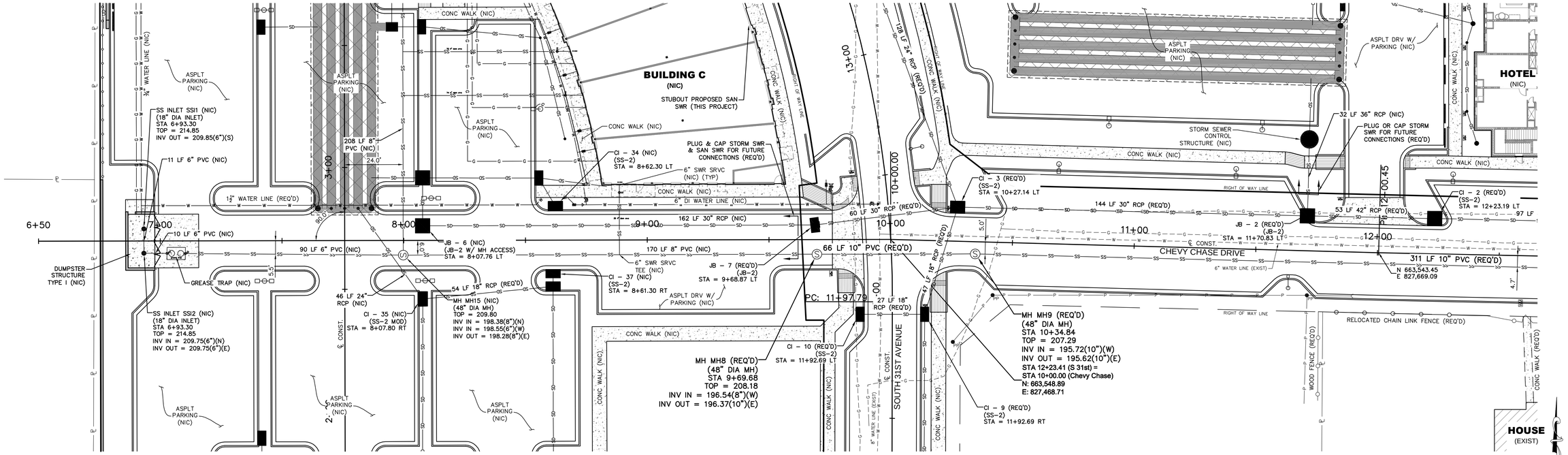

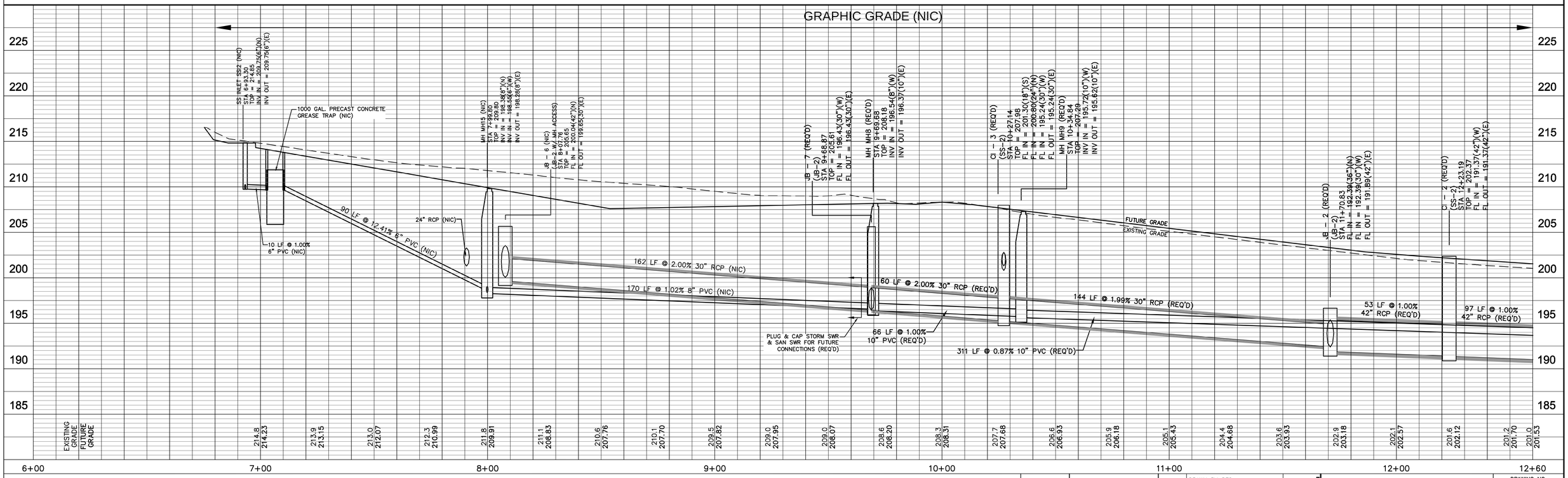

CHEVY CHASE DRIVE

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

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DATE: 01–30–2017
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SHEET NO. C1.5

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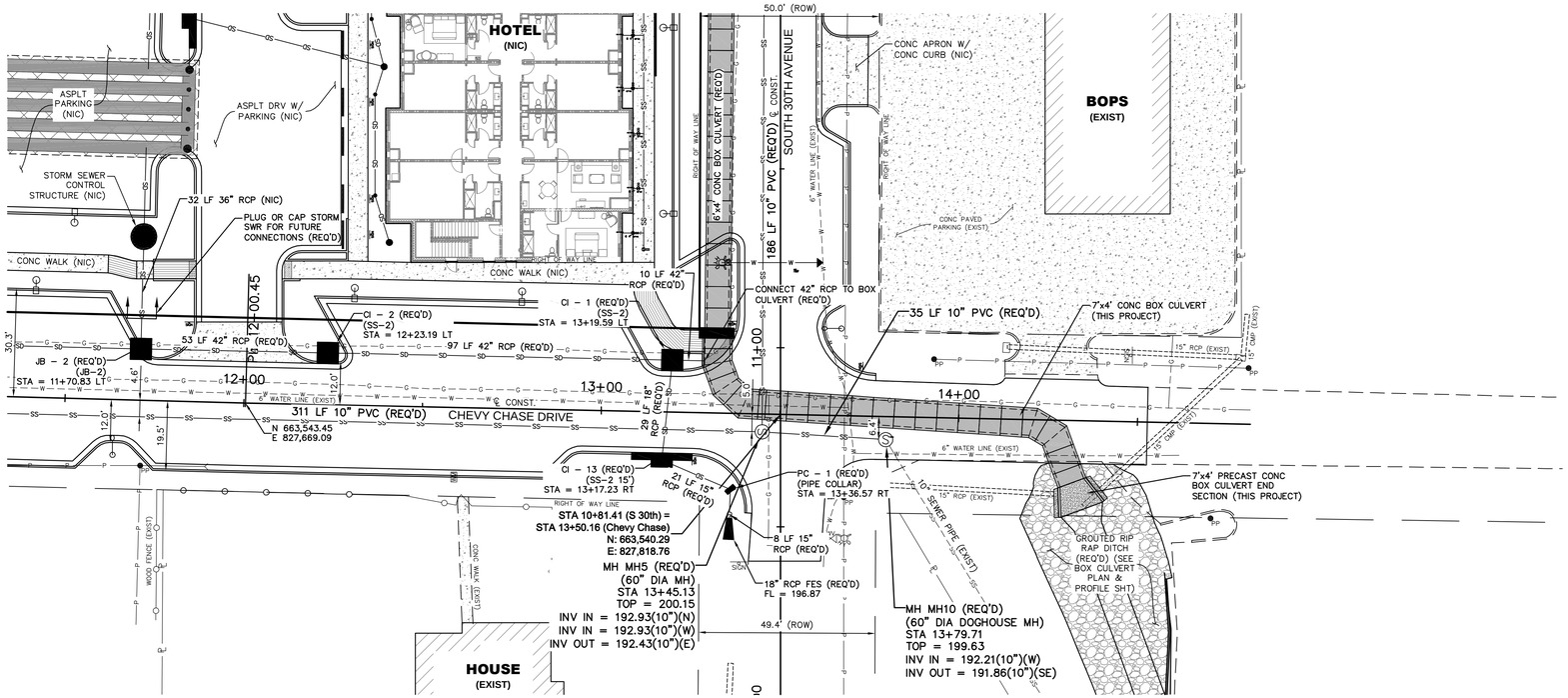

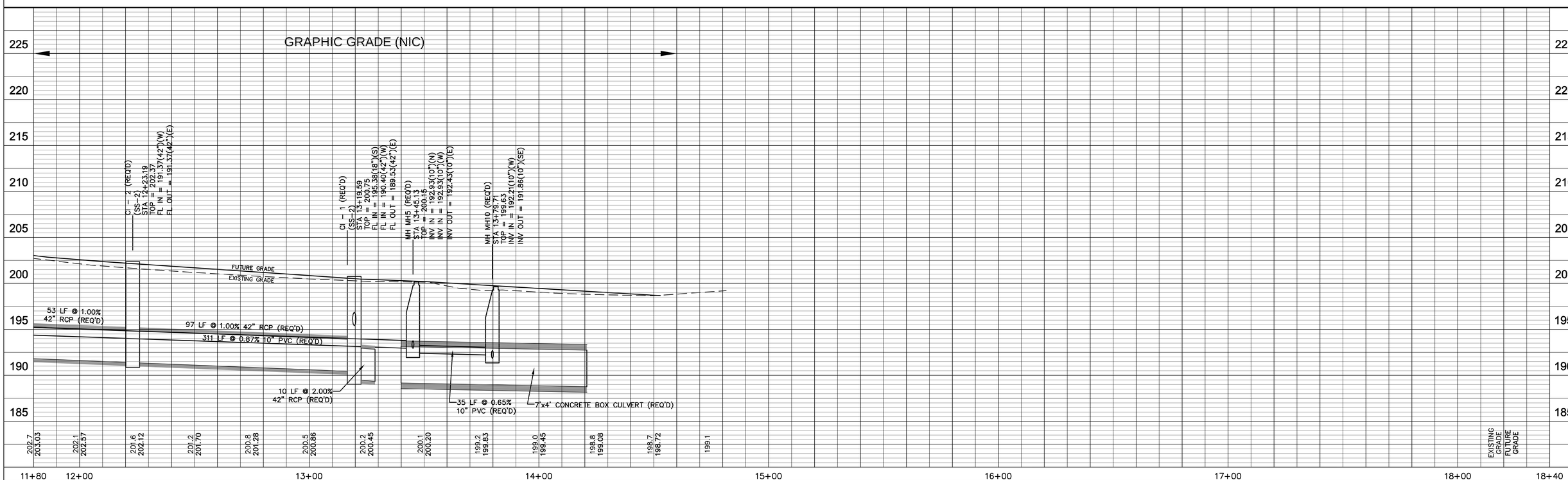

CHEVY CHASE DRIVE

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

DRAWN BY: RES
DATE: 01–30–2017
CHECKED BY: SEM
SCALE: 1"=20' H, 1"=5'V

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DRAWING NO. 11241
WORKING No. PnP 6
SHEET NO. C1.6

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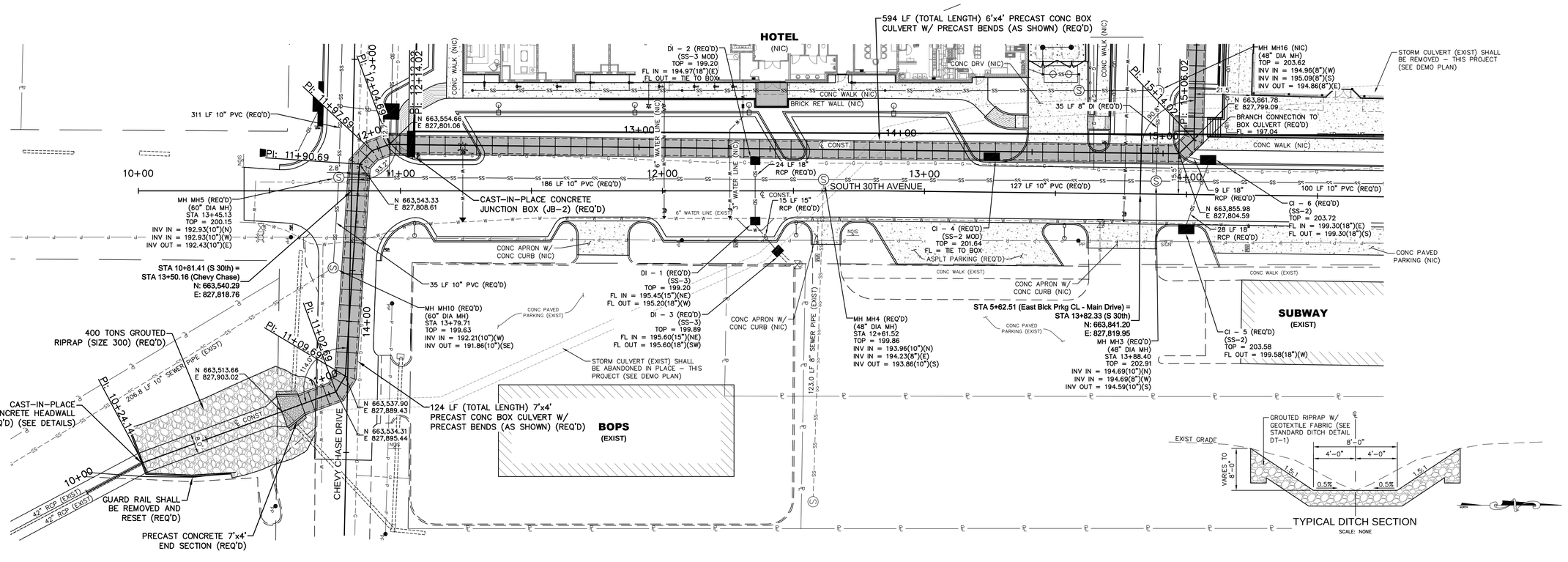

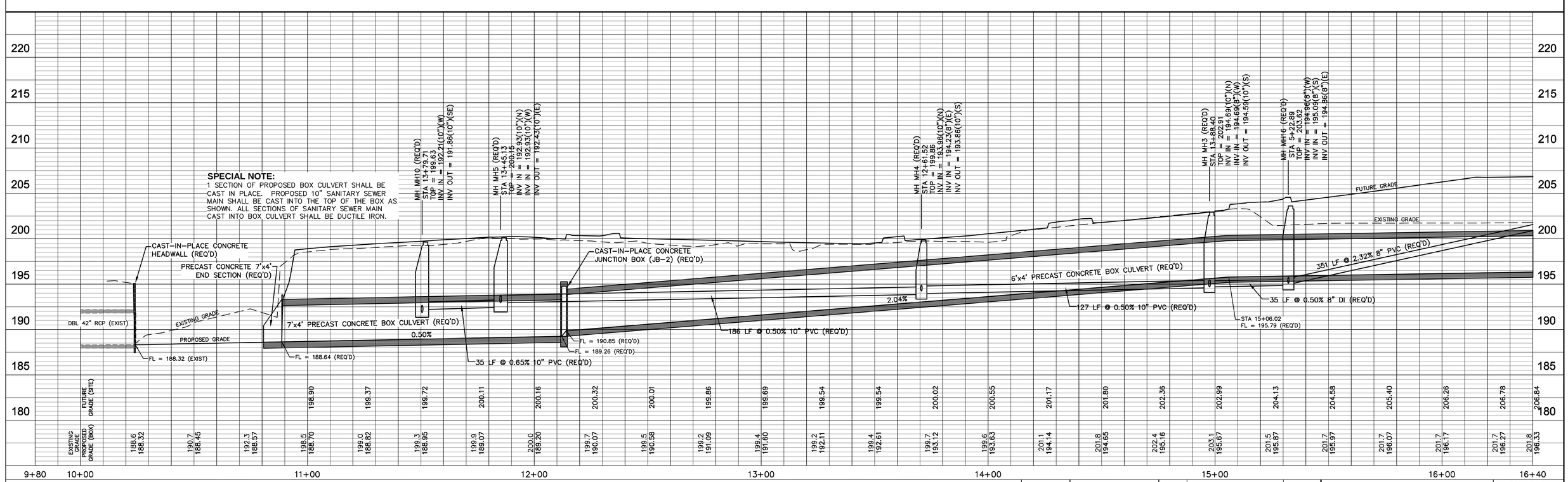

CONCRETE BOX CULVERT

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

DRAWN BY: RES
DATE: 01–30–2017
CHECKED BY: SEM
SCALE: 1"=20' H, 1"=5'V

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DRAWING NO. 11241
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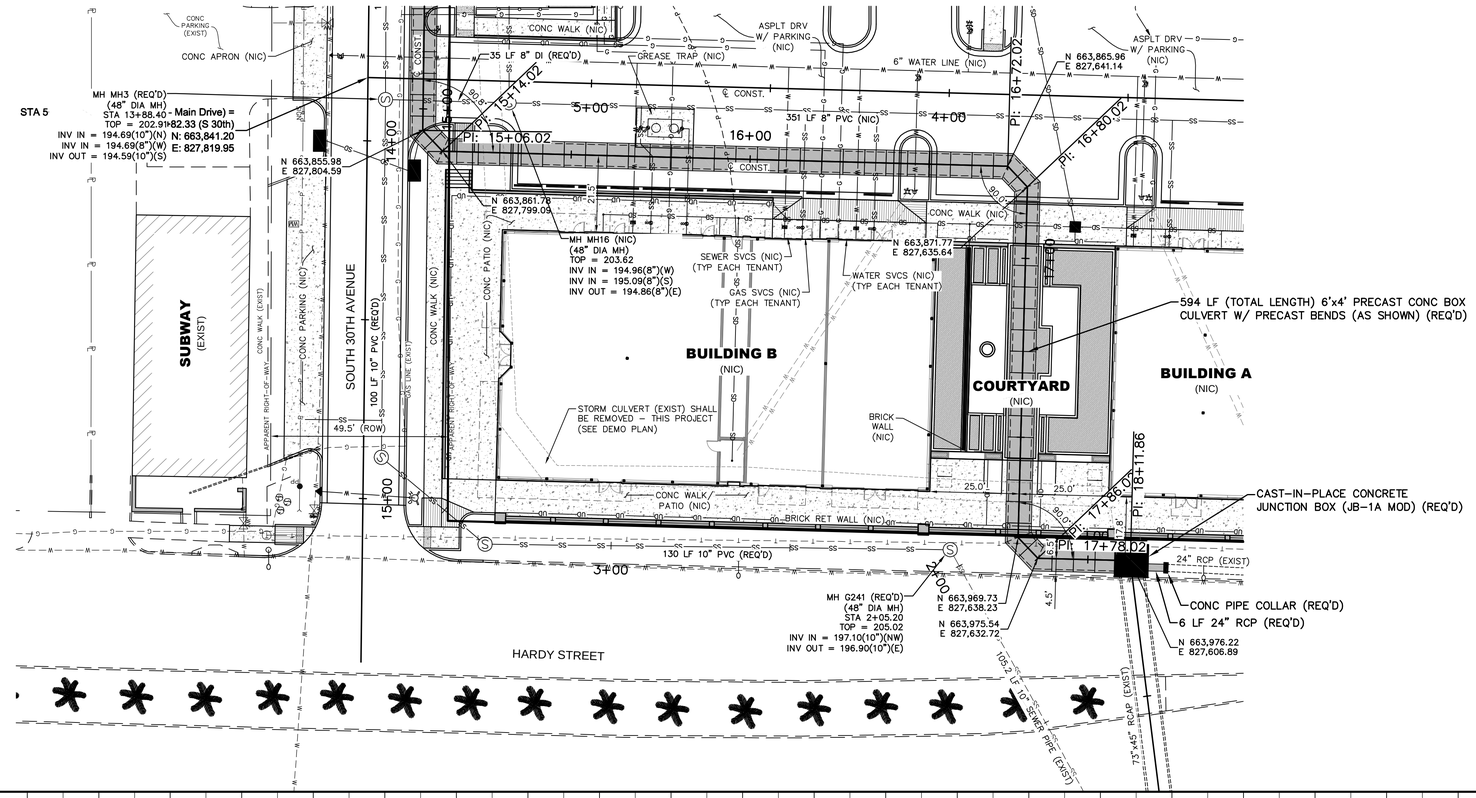

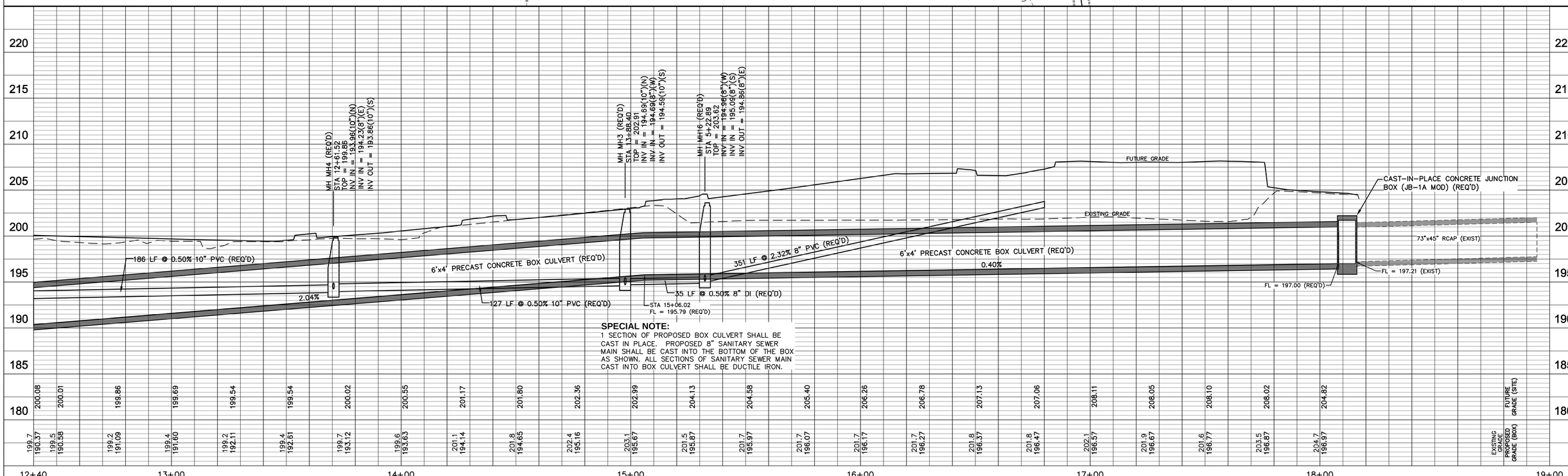

CONCRETE BOX CULVERT

THE DISTRICT AT MIDTOWN
HATTIESBURG, MISSISSIPPI

DATE	REVISION	BY

DRAWN BY: RES
DATE: 01-30-2017
CHECKED BY: SEM
SCALE: 1"=20' H, 1"=5'V

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DRAWING NO. 11241
WORKING No. PnP 8
SHEET NO. C1.8

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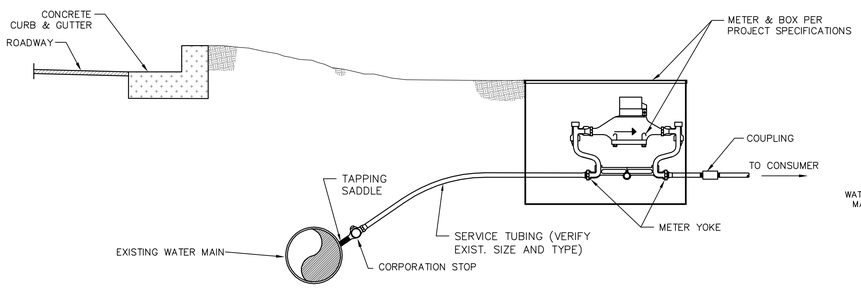
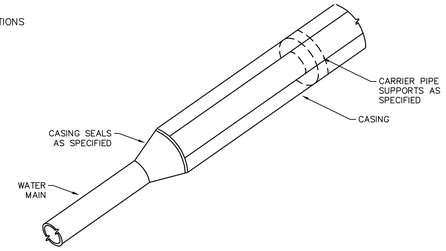
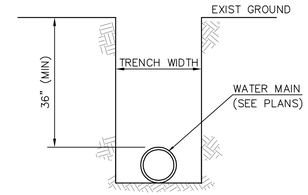


NOTE: THIS DETAIL SHALL BE USED FOR REPAIR OF EXISTING SERVICES DAMAGED DURING CONSTRUCTION.

TYPICAL METER SETTING WITH YOKE

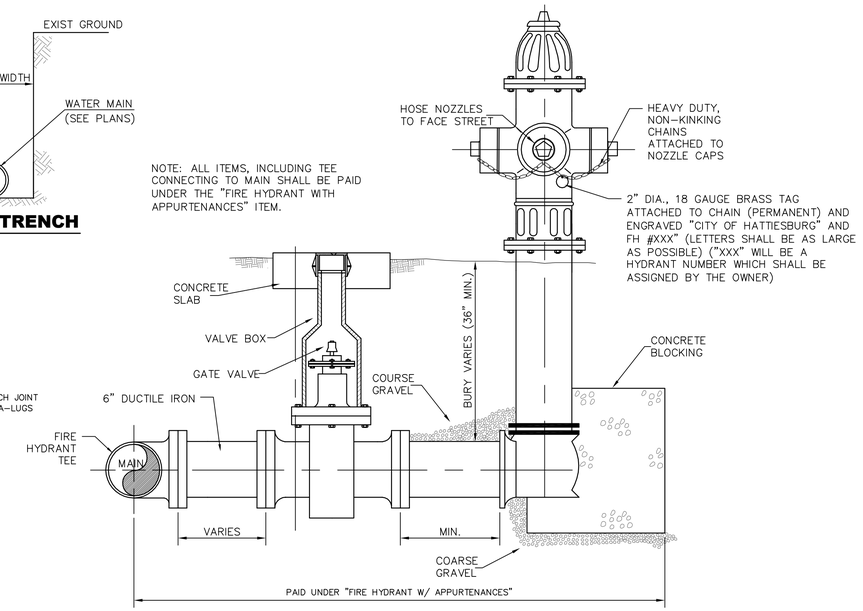


CASING END DETAIL

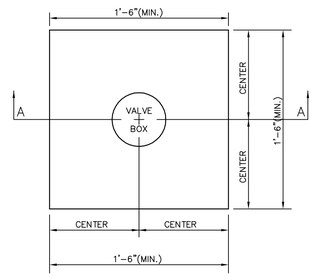


DETAIL OF TRENCH

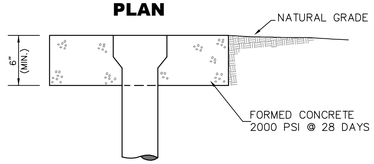
NOTE: ALL ITEMS, INCLUDING TEE CONNECTING TO MAIN SHALL BE PAID UNDER THE "FIRE HYDRANT WITH APPURTENANCES" ITEM.



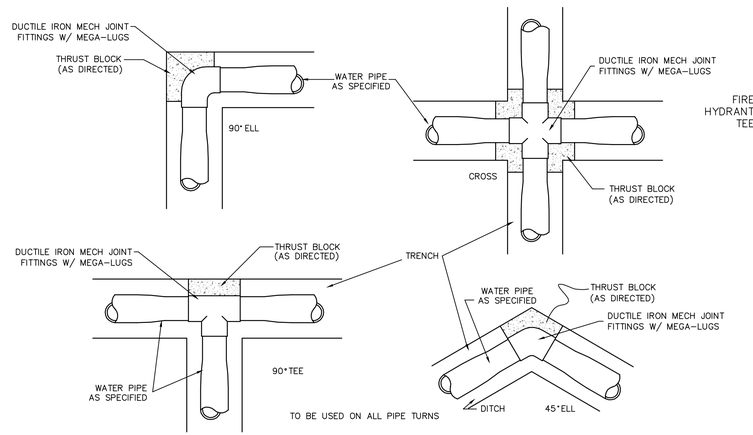
STANDARD 3-WAY FIRE HYDRANT



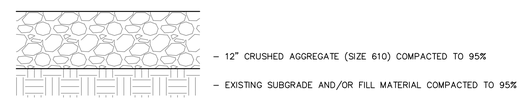
PLAN



SECTION A-A
VALVE LOCATION



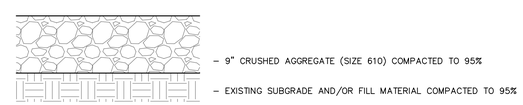
THRUST BLOCK DETAILS



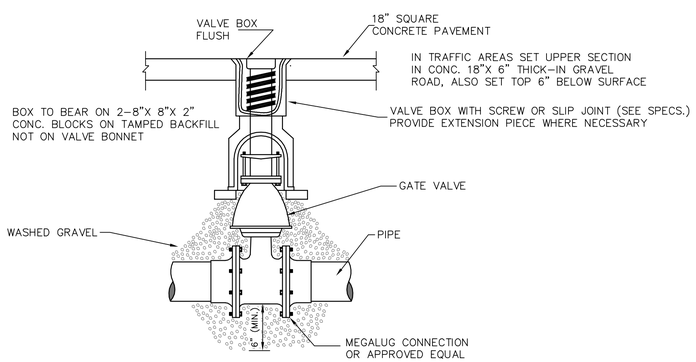
TYPICAL TRENCH REPAIR IN CONCRETE PAVED AREAS

TRENCH REPAIR NOTES:

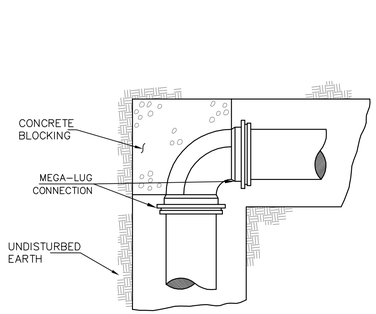
1. TRENCH REPAIR SHALL BE MEASURED BY THE LENGTH OF THE TRENCH IN THE PAVED AREA AND 5'-0" (MAX.) WIDTH AS MEASURED PERPENDICULAR TO THE INSTALLED WATER LINE.
2. TRENCHES SHALL HAVE A TEMPORARY SURFACE OF CRUSHED AGGREGATE (SIZE 610) TEMPORARY SURFACE INSTALLED AND MAINTAINED FOR THE DURATION OF THIS PROJECT. A PAVED SURFACE WILL INSTALLED DURING A FUTURE PROJECT (NO SEPARATE PAY)



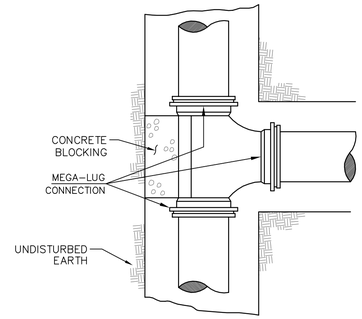
TYPICAL TRENCH REPAIR IN ASPHALT PAVED AREAS



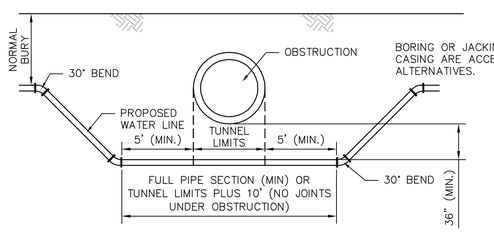
DETAIL OF VALVE & BOX



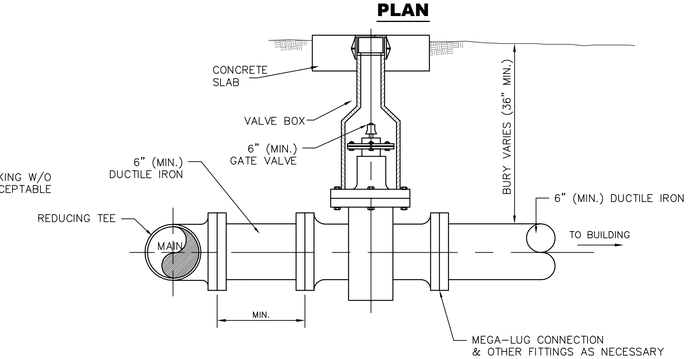
PLAN



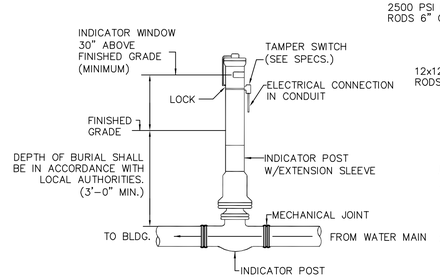
PLAN



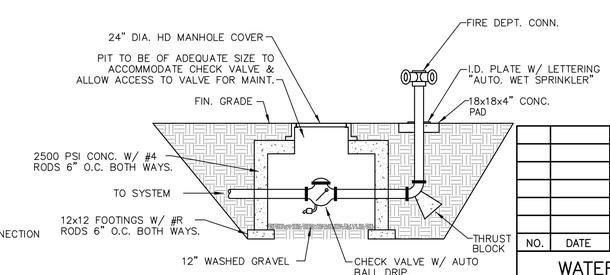
OBSTRUCTION CROSSING DETAIL



FIRE SUPPRESSION SYSTEM CONNECTION



POST INDICATOR VALVE DETAIL



FIRE DEPT. CONNECTION DETAIL

PIV NOTES:

1. POST INDICATOR VALVES SHALL BE REQUIRED AT ALL EXISTING STRUCTURES WHICH ARE BEING CONNECTED TO THE PROPOSED SYSTEM UNDER THIS PROJECT, IF THE EXISTING PIV IS DAMAGED AND/OR INOPERABLE OR IF NO PIV IS IN PLACE AT THE TIME OF CONNECTION.
2. LOCATIONS FOR PROPOSED PIV'S SHALL BE AS DIRECTED BY THE ENGINEER BUT SHALL BE AT LEAST 40 FEET FROM THE EXISTING STRUCTURE AND CLEARLY VISIBLE.
3. POST INDICATOR VALVES SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND AS DETAILED HERE.
4. ALL ITEMS, INCLUDING POSSIBLE INSTALLATION ON EXISTING FIRE LINE SHALL BE PAID UNDER THE "POST INDICATOR VALVE" ITEM.

NO.	DATE	DESCRIPTION	BY

WATER INSTALLATION DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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Drawn by: RES	Checked by: SEM	Scale: NONE
Date: 01-30-2017	Working No. WTR1	
Drawing No.: 11241	Sheet No. C1.9	

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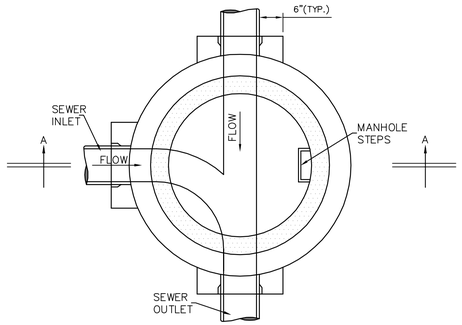
TABLE NO. 1 GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Q ANGLE	MIN. BASE DIAMETER	"R"*
8"THRU 12"	0°TO 90°	4'	1'-6"
15"	0°TO 60°	5'	1'-10"
15"	60°TO 90°	5'	1'-10"
18"	0°TO 90°	5'	2'-3"
18"	60°TO 90°	5'	1'-10"
21"	0°TO 90°	5'	2'-7"
21"	60°TO 90°	5'	2'-4"
24"	0°TO 45°	6'	3'-0"
24"	45°TO 90°	6'	2'-3"
30"	0°TO 60°	6'	3'-9"
30"	60°TO 90°	6'	2'-8"
36"	0°TO 30°	7'	4'-6"
36" AND LARGER	0°TO 90°	CAST IN PLACE MANHOLE BASE OR PRE-BED PIPE M.H. BASE AND ELBOW UNITS.	

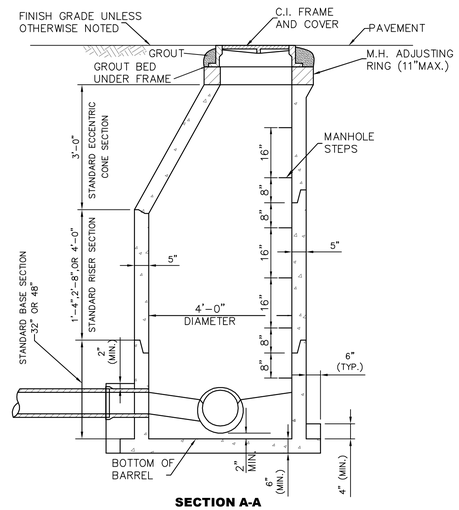
* SEE SECTIONAL PLAN, Std. PRECAST MANHOLE



SECTIONAL PLAN

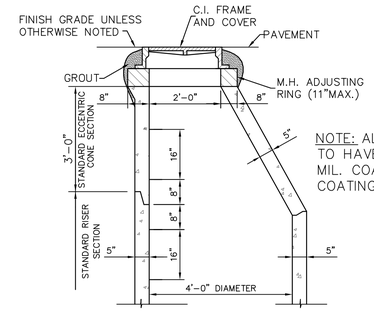
STANDARD PRECAST 4'-0" DIAMETER MANHOLE

NOTE: 5-0" & 6'-0" DIAMETER MANHOLE MAY BE SIMILAR DESIGN IF APPROVED BY THE ENGINEER. SHOWN WITH CLAY OR CONCRETE PIPE



SECTION A-A

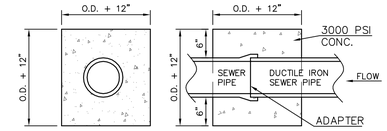
SHOWN WITH MANHOLE BOTTOM-PRECAST



NOTE: ALL MANHOLES TO HAVE A MIN. OF 16 MIL. COAL TAR EPOXY COATING ON INSIDE.

NOTE: DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTION A-A & B-B.

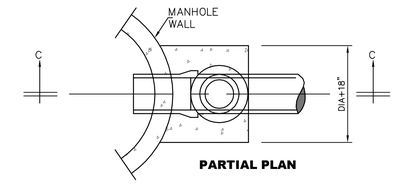
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES



SECTION **PLAN**

TYPICAL SEWER PIPE CONNECTION TO SAME SIZE DUCTILE IRON SEWER PIPE

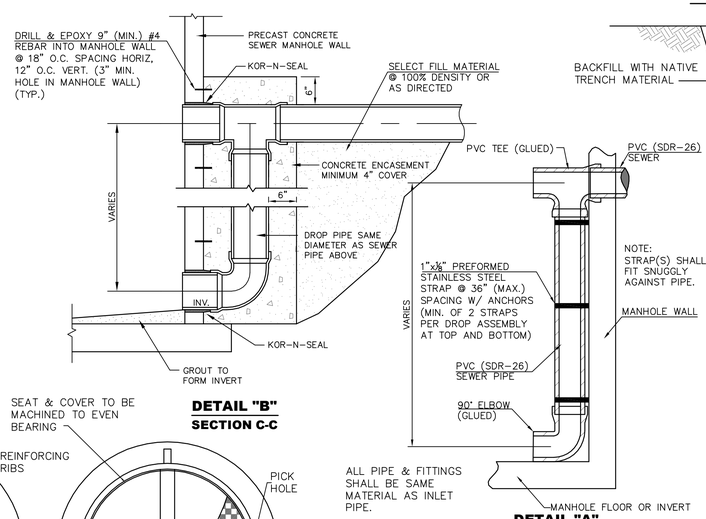
NOTE: DROP MANHOLE ASSEMBLY TO BE FORMED AND POURED USING 3,000psi CONC.



PARTIAL PLAN

TYPICAL DROP MANHOLE ASSEMBLY

NOTE: ALL MANHOLES SHALL BE STANDARD PRECAST WITH EXTENDED BASES, UNLESS OTHERWISE DIRECTED. FLEXIBLE INLET AND OUTLET CONNECTION BOOTS REQUIRED ON ALL PIPES AND FORCE MAINS.

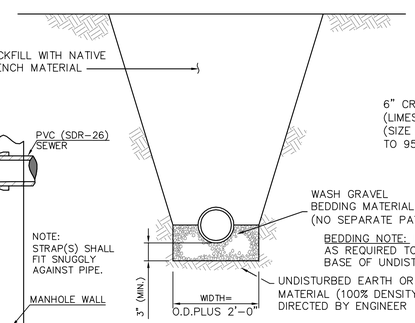


DETAIL "B"
SECTION C-C

DETAIL "A"
SECTION C-C

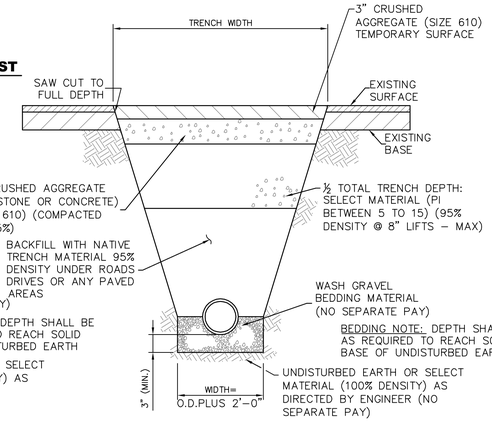
TYPICAL DROP MANHOLE ASSEMBLY

NOTES:
1. USE DETAIL "A" ONLY WHERE SINGLE DROP ASSEMBLY IS REQ'D. FOR MULTIPLE DROPS USE DETAIL "B" SHOWN ELSEWHERE ON THIS SHEET FOR 48" MANHOLE. FOR MULTIPLE DROP ASSEMBLIES IN LARGER MANHOLES, DROPS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
2. ALL HARDWARE SHALL BE STAINLESS STEEL.
3. ALL APPURTENANCES SHALL BE INCLUDED IN BID PRICE FOR DROP ASSEMBLIES.



TYPICAL TRENCH DETAIL

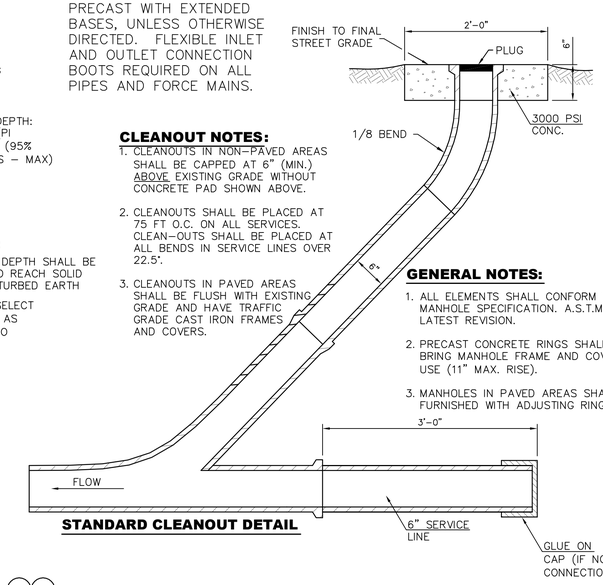
NOTE: ALL TESTING TO BE THE RESPONSIBILITY OF THE CONTRACTOR. (NO SEPARATE PAY)



TYPICAL TRENCH AT ROADWAY DETAIL

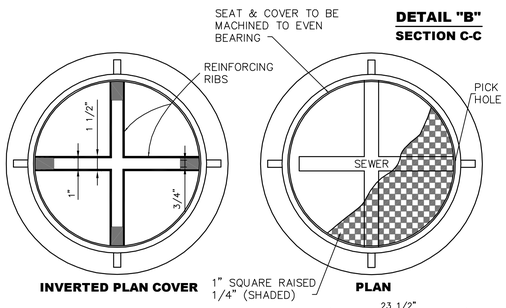
TRENCH REPAIR NOTES:
1. TRENCH REPAIR SHALL BE MEASURED BY THE LENGTH OF THE TRENCH IN THE PAVED AREA AND 12'-0" (MAX.) WIDTH AS MEASURED PERPENDICULAR TO THE INSTALLED SEWER LINE.
2. TRENCHES SHALL HAVE A TEMPORARY SURFACE OF CRUSHED AGGREGATE (SIZE 610) TEMPORARY SURFACE INSTALLED AND MAINTAINED FOR THE DURATION OF THIS PROJECT. A PAVED SURFACE WILL INSTALLED DURING A FUTURE PROJECT (NO SEPARATE PAY)

CLEANOUT NOTES:
1. CLEANOUTS IN NON-PAVED AREAS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE WITHOUT CONCRETE PAD SHOWN ABOVE.
2. CLEANOUTS SHALL BE PLACED AT 75 FT O.C. ON ALL SERVICES. CLEAN-OUTS SHALL BE PLACED AT ALL BENDS IN SERVICE LINES OVER 22.5'.
3. CLEANOUTS IN PAVED AREAS SHALL BE FLUSH WITH EXISTING GRADE AND HAVE TRAFFIC GRADE CAST IRON FRAMES AND COVERS.

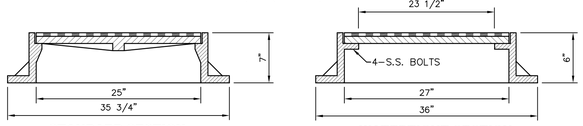


GENERAL NOTES:
1. ALL ELEMENTS SHALL CONFORM TO PRECAST MANHOLE SPECIFICATION. A.S.T.M. C-478 LATEST REVISION.
2. PRECAST CONCRETE RINGS SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO GRADE USE (11" MAX. RISE).
3. MANHOLES IN PAVED AREAS SHALL BE FURNISHED WITH ADJUSTING RINGS.

STANDARD CLEANOUT DETAIL



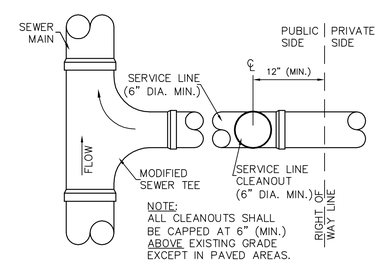
INVERTED PLAN COVER **PLAN**



STANDARD SECTION **WATERTIGHT SECTION**

STANDARD COVER & FRAME DF-25(7) J.S. OR V-1115 (HOLES IN VULCAN COVERS SHALL BE SEALED BY WELDING) ONLY
WATERTIGHT COVER & FRAME V-2357 OR DF-25(7)W.T. ONLY

STANDARD MANHOLE COVERS



NOTE:
ALL CLEANOUTS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE EXCEPT IN PAVED AREAS.

TYPICAL STUB OUT PLAN FOR SERVICE LINE

NO.	DATE	DESCRIPTION	BY

SEWER INSTALLATION DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
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Date: 01-30-2017	Working No. SWR1	
Drawn No.: 11241	Sheet No. C1.10	

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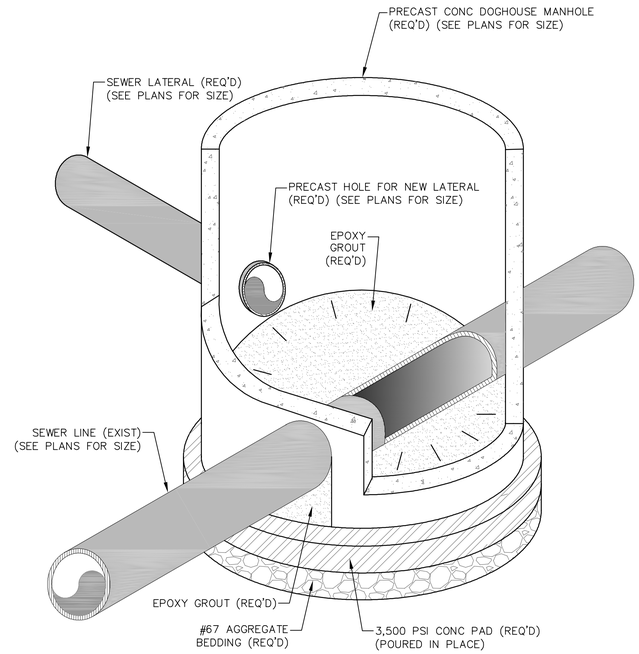
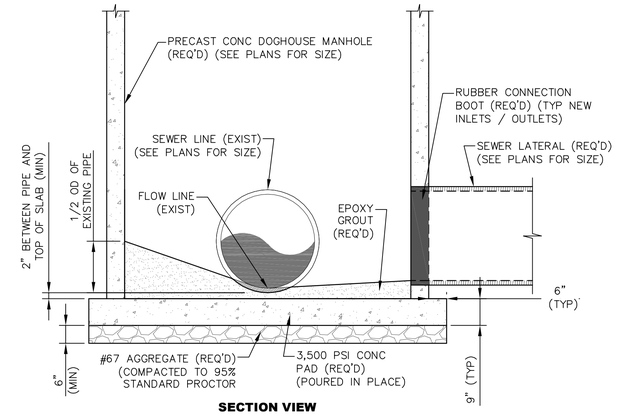
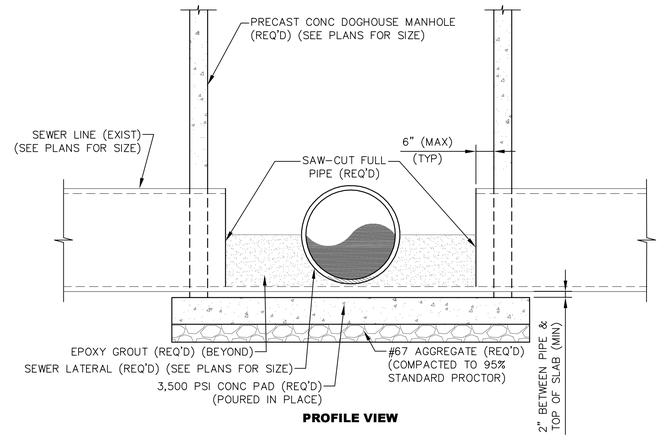


ISOMETRIC VIEW



SECTION VIEW



PROFILE VIEW

DOGHOUSE MANHOLE NOTES:

1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
2. THIS DETAIL SHALL BE USED WHEN A LATERAL NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
3. CONCRETE MANHOLE PAD SHALL BE POURED IN PLACE AND SHALL BE POURED UPON A #67 AGGREGATE BEDDING.
4. AGGREGATE BEDDING SHALL HAVE A MINIMUM DEPTH OF 6" AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR PRIOR TO CONSTRUCTION OF CONCRETE PAD.
5. ALL PARTS OF THE DOGHOUSE MANHOLE CONSTRUCTION, CONCRETE PAD, AGGREGATE BASE, GROUT, ETC, SHALL BE PAID UNDER 'DOGHOUSE' MANHOLE ITEM.

DOGHOUSE MAHOLE DETAIL

NOT TO SCALE

NO.	DATE	DESCRIPTION	BY

SEWER INSTALLATION DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: AS NOTED
Date: 01-30-2017	Working No. SWR2	
Drawing No.: 11241	Sheet No. C1.11	

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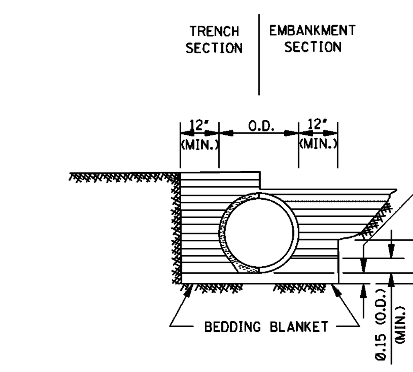
STATE	PROJECT NO.
MISS.	

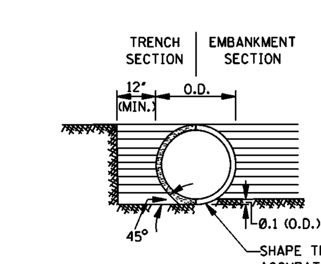
CORRUGATED STEEL AND ALUMINUM PIPE (ROUND) H-20 LOADING

PIPE DIAMETER (In)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE (In)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) — SHEET THICKNESS (In): 0.064 STEEL 0.060 ALUM. 16 GAGE	0.079 STEEL 0.075 ALUM. 14 GAGE	0.109 STEEL 0.105 ALUM. 12 GAGE	0.138 STEEL 0.135 ALUM. 10 GAGE	0.168 STEEL 0.164 ALUM. 8 GAGE
		2⅔" X ½" CORRUGATED STEEL / 3" X 1" OR 5" X 1" CORRUGATED STEEL / 2⅔" X ½" CORRUGATED ALUMINUM				
		RIVETED, WELDED OR HELICAL		RIVETED, WELDED, HELICAL OR BOLTED		RIVETED OR HELICAL
12"	12"	84' / - / 45'	91' / - / 45'	- / - / 78'	- / - / 81'	- / - / 84'
15"	12"	67' / - / -	73' / - / -	- / - / -	- / - / -	- / - / -
18"	12"	56' / - / 30'	61' / - / 30'	- / - / 52'	- / - / 54'	- / - / 56'
24"	12"	42' / - / 22'	46' / - / 22'	59' / - / 39'	- / - / 41'	- / - / 42'
30"	12"	34' / - / 18'	36' / - / 18'	47' / - / 31'	- / - / 32'	- / - / 34'
36"	12"	28' / 48' / 15'	30' / 60' / 15'	39' / 78' / 26'	41' / 89' / 27'	- / 101' / 28'
42"	12"	31' / 41' / -	43' / 51' / 26'	46' / 64' / 43'	48' / 71' / 43'	50' / 79' / 44'
48"	12"	27' / 36' / -	37' / 45' / -	45' / 57' / 40'	46' / 61' / 41'	47' / 66' / 43'
54"	12"	- / 32' / -	33' / 40' / -	43' / 52' / 35'	44' / 55' / 37'	45' / 59' / 38'
60"	12"	- / 29' / -	- / 36' / -	43' / 49' / -	43' / 51' / 33'	44' / 54' / 34'
66"	12"	- / 26' / -	- / 33' / -	42' / 47' / -	43' / 49' / 30'	43' / 51' / 31'
72"	12"	- / 24' / -	- / 30' / -	- / 44' / -	41' / 47' / -	43' / 49' / 29'
78"	12"	- / 22' / -	- / 28' / -	- / 41' / -	- / 46' / -	39' / 47' / -
84"	12"	- / 21' / -	- / 26' / -	- / 38' / -	- / 45' / -	35' / 46' / -
90"	12"	- / 19' / -	- / 24' / -	- / 35' / -	- / 43' / -	- / 45' / -
96"	12"	- / 18' / -	- / 22' / -	- / 33' / -	- / 40' / -	- / 44' / -
102"	24"	- / 17' / -	- / 21' / -	- / 31' / -	- / 38' / -	- / 42' / -
108"	24"	- / - / -	- / 20' / -	- / 30' / -	- / 35' / -	- / 39' / -
114"	24"	- / - / -	- / 19' / -	- / 28' / -	- / 34' / -	- / 37' / -
120"	24"	- / - / -	- / - / -	- / 27' / -	- / 32' / -	- / 35' / -

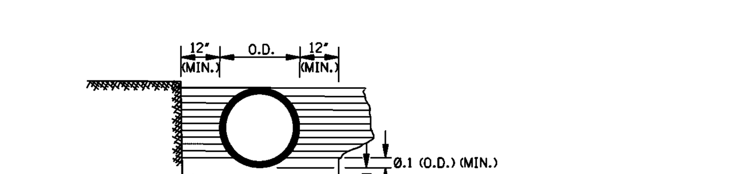
NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).



CLASS B



CLASS C



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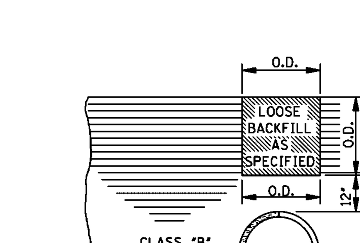
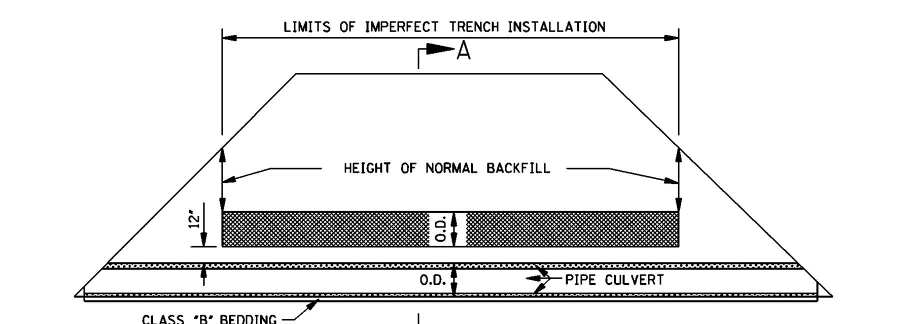


SECTION A-A



ELEVATION

IMPERFECT TRENCH INSTALLATION

CORRUGATED METAL PIPE ARCHES H-20 LOADING

EQUIV. DIAMETER (In)	PIPE DIMENSION (SPAN X RISE) (In)	MINIMUM CORNER RADIUS (In)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE FOR 2 tons/ft² (In)	STEEL: MINIMUM THICKNESS REQUIRED (In)	STEEL: MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR CORNER BEARING PRESSURE 2 tons/ft²	† 3 tons/ft²	ALUMINUM: MINIMUM THICKNESS REQUIRED (In)	ALUMINUM: MAXIMUM FILL HEIGHT 2 tons/ft²	† 3 tons/ft²
				2⅔" X ½" CORRUGATION RIVETED, WELDED OR HELICAL			2⅔" X ½" CORRUGATION RIVETED OR HELICAL		
15"	17" X 13"	3"	18"	0.064"	13'	15'+	0.060"	15'	-
18"	21" X 15"	3"	18"	0.064"	12'	15'+	0.060"	14'	-
24"	28" X 20"	3"	18"	0.064"	10'	15'	0.060"	10'	15'+
30"	35" X 24"	3"	18"	0.079"	9'	14'	0.060"	9'	14'
36"	42" X 29"	3½"	18"	0.079"	9'	13'	0.075"	9'	13'
42"	49" X 33"	4"	18"	0.079"	8'	12'	0.105"	8'	12'
48"	57" X 38"	5"	18"	0.109"	8'	12'	0.135"	8'	12'
54"	64" X 43"	6"	18"	0.109"	8'	12'	0.135"	8'	12'
60"	71" X 47"	7"	18"	0.138"	8'	12'	0.164"	8'	12'
66"	77" X 52"	8"	18"	0.168"	8'	12'			
72"	83" X 57"	9"	18"	0.168"	9'	13'			
				5" X 1" OR 3" X 1" CORRUGATION RIVETED, WELDED OR HELICAL					
36"	40" X 31"	5"	18"	0.079"	12'	15'+			
42"	46" X 36"	6"	18"	0.079"	12'	15'+			
48"	53" X 41"	7"	18"	0.079"	12'	15'+			
54"	60" X 46"	8"	18"	0.079"	12'	15'+			
60"	66" X 51"	9"	18"	0.079"	12'	15'+			
66"	73" X 55"	12"	18"	0.079"	15'+	-			
72"	81" X 59"	14"	18"	0.079"	15'	-			
78"	87" X 63"	14"	18"	0.079"	14'	15'+			
84"	95" X 67"	16"	18"	0.109"	13'	15'+			
90"	103" X 71"	16"	24"	0.109"	12'	15'+			
96"	112" X 75"	18"	24"	0.109"	11'	15'+			

NOTES:
1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

† 2. BEARING PRESSURES EXCEEDING 2 tons/ft² REQUIRED FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.

MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE

CLASS OF PIPE	TYPE OF BACKFILL	MAXIMUM COVER (ft) CLASS "C" BEDDING	CLASS "B" BEDDING
III	NORMAL	16'	-
IV	NORMAL	23'	28'
V	NORMAL	30'	36'
IV	IMPERFECT	-	90'
V	IMPERFECT	-	115'

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

MAXIMUM HEIGHT OF FILL OVER CLASS 2 NONREINFORCED CONCRETE PIPE, PERFORATED AND/OR PLAIN, FOR UNDERDRAINS

PIPE SIZE (In)	MAXIMUM COVER (ft) BEDDING CLASS "C"/CLASS "B" — TRENCH: B_d (In)	SAND & GRAVEL	DAMP CLAY	PROJECTING: POSITIVE p= 0.7; R_{sd} = 0.7
4"	2.00'	*	*	34'/42'
6"	2.00'	*	*	25'/30'
8"	2.25'	*	16'/ *	19'/24'
10"	2.50'	*	12'/20'	16'/19'
12"	2.75'	*	12'/18'	14'/17'

NOTES:
* 1. INDICATES NO LIMIT OF FILL HEIGHT (130 lbs/ft³).
2. TRENCH WIDTH (B_d) NO GREATER THAN 16" PLUS O.D.
3. FACTOR OF SAFETY IS 1.25 ON MINIMUM ULTIMATE STRENGTH.
4. MINIMUM COVER FOR HIGHWAY LOADS IS 18".
5. PERFORATED PIPE SHALL BE TYPE 1.

GENERAL NOTES:

1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.
2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.
3. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTORS EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PIPE CULVERT INSTALLATION

REVISION | BY | DATE

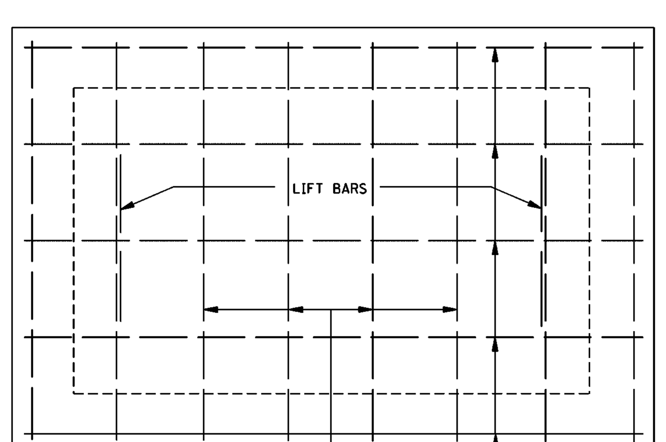
ENGLISH

WORKING NUMBER PI-1

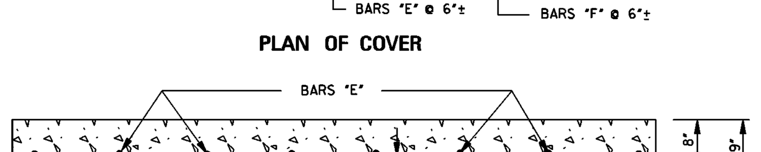
ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6300

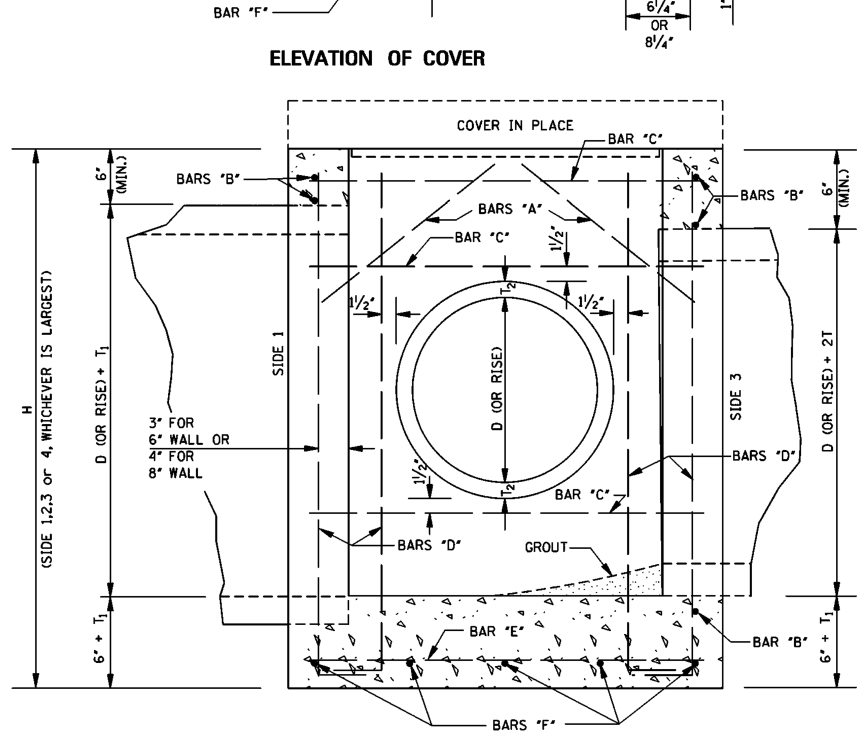
STATE	PROJECT NO.
MISS.	



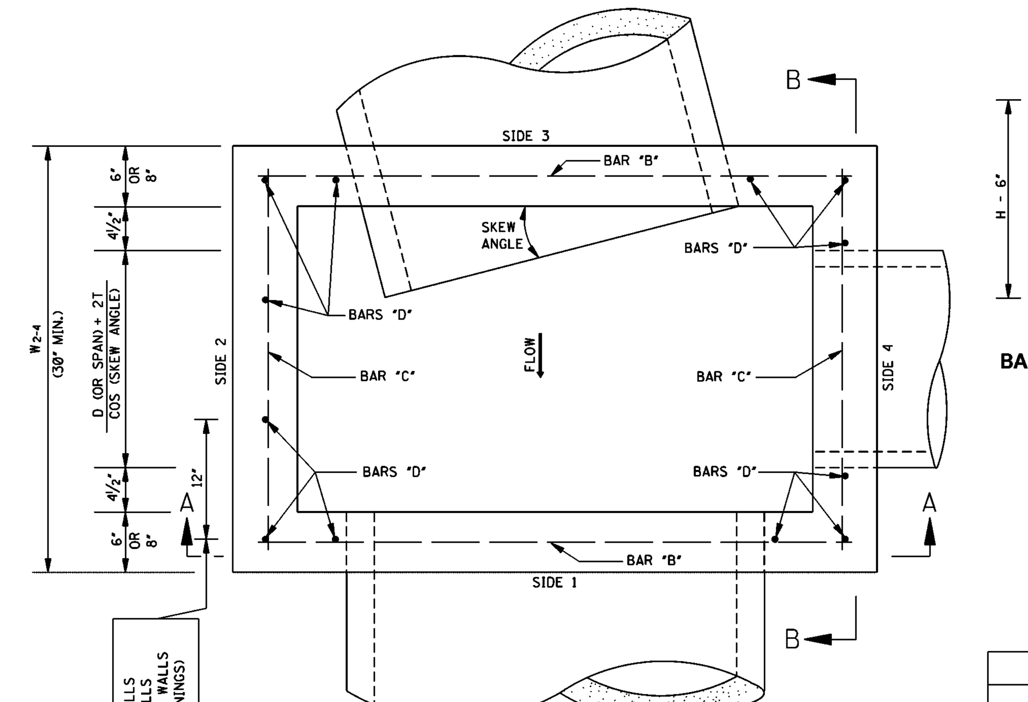
PLAN OF COVER



ELEVATION OF COVER



SECTION B-B



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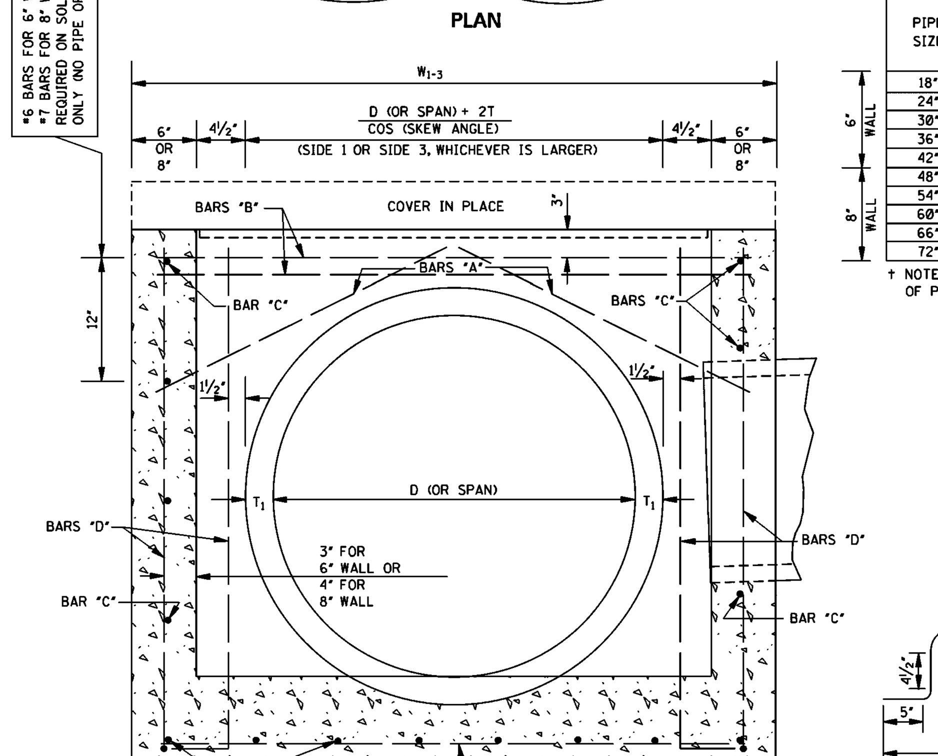


SECTION A-A

BAR "D"

REINFORCING BAR LIST

BAR	SIZE	NUMBER REQUIRED	LENGTH
"A"	*4	2 PER PIPE OPENING	$\sqrt{196" + (\frac{W^*}{2} + 2")^2}$
"B"	*6 FOR 6" WALL	2 + [2 PER OPENING SIDE 3] + [1 PER SIDE 1] + [12" O.C. FOR SOLID WALL]	W_{1-3} - 4"
"C"	*7 FOR 8" WALL	2 + [2 PER OPENING] + [12" O.C. FOR SOLID WALL]	W_{2-4} - 4"
"D"		4 + [2 PER OPENING] + [12" O.C. FOR SOLID WALL]	H
"E"	*6	$2\left[\left(\frac{W_{1-3}}{6"}\right)^{**} + 1\right]$	W_{2-4} - 4"
"F"	*6	$2\left[\left(\frac{W_{2-4}}{6"}\right)^{**} + 1\right]$	W_{1-3} - 4"

NOTE: VARIABLES AND DESIGNATIONS ARE AS FOLLOWS:
D (OR SPAN) = PIPE DIAMETER (OR SPAN)
W_{1-3} = WIDTH OF SIDE 1 & SIDE 3
W_{2-4} = WIDTH OF SIDE 2 & SIDE 4
W* = W_{1-3} OR W_{2-4} (SIDE OF ENTERING PIPE)
** = ROUND TO NEAREST WHOLE NUMBER

CL. "B" CONC. (yd³) = [(Q1 + Q2) / 46,656] - Σ PIPE OPENING DEDUCTIONS
WHERE: 6" WALL
Q1 = [8"$W_{1-3}W_{2-4}$] + [1"(W_{1-3} - 12.5")(W_{2-4} - 12.5")] + [(T_1 + 6")$W_{1-3}W_{2-4}$]
Q2 = 12"[H - (T_1 + 6")] [(W_{1-3} - 12") + W_{2-4}]
OR: 8" WALL
Q1 = [8"$W_{1-3}W_{2-4}$] + [1"(W_{1-3} - 16.5")(W_{2-4} - 16.5")] + [(T_1 + 6")$W_{1-3}W_{2-4}$]
Q2 = 16"[H - (T_1 + 6")] [(W_{1-3} - 16") + W_{2-4}]

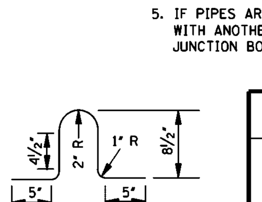
COMMON PIPE SIZE

WALL	CIRCULAR PIPE: PIPE SIZE	T	PIPE OPENING DEDUCTION (yd³) 6" WALL	†8" WALL	ARCH PIPE: PIPE SIZE	T	PIPE OPENING DEDUCTION (yd³) 6" WALL	†8" WALL	WALL
6" WALL	18"	2½"	0.053	0.071	22" X 13"	2½"	0.053	0.071	6" WALL
6" WALL	24"	3"	0.091	0.121	29" X 18"	3"	0.087	0.116	6" WALL
6" WALL	30"	3½"	0.138	0.184	36" X 23"	3½"	0.129	0.172	6" WALL
6" WALL	36"	4"	0.196	0.261	44" X 27"	4"	0.185	0.247	6" WALL
6" WALL	42"	4½"	0.263	0.350	51" X 31"	4½"	-	0.327	8" WALL
8" WALL	48"	5"	-	0.453	58" X 36"	5"	-	0.424	8" WALL
8" WALL	54"	5½"	-	0.569	65" X 40"	5½"	-	0.525	8" WALL
8" WALL	60"	6"	-	0.699	73" X 45"	6"	-	0.652	8" WALL
8" WALL	66"	6½"	-	0.840					
8" WALL	72"	7"	-	0.996					

† NOTE: IF ANY PIPE REQUIRING A 8" WALL IS USED, ALL WALLS SHALL BE 8" REGARDLESS OF PIPE SIZE.

GENERAL NOTES:

1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS, ASTM A 615, GRADE 60 OR AASHTO M 31, GRADE 60.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. IF PIPES ARE SKEWED MORE THAN 15° OR IF SKEWED PIPES PRODUCE CONFLICTS WITH ANOTHER OPENING, THE PIPE SHALL BE BROKEN BACK TO THE WALL OF THE JUNCTION BOX.



LIFT BAR

NOTE: LIFT BAR TO BE FABRICATED FROM A *4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

JUNCTION BOX TYPE 2 FOR TRAFFIC LOAD (MAXIMUM "W" = 9'-3")

REVISION | BY | DATE

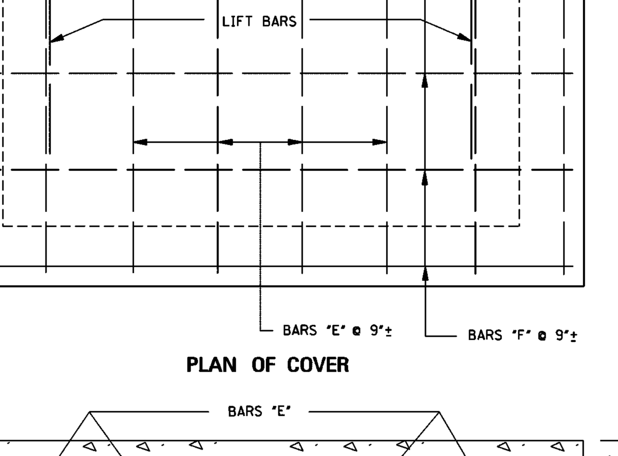
ENGLISH

WORKING NUMBER JB-2

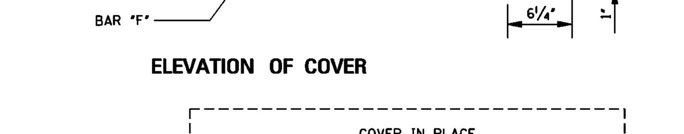
ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6304

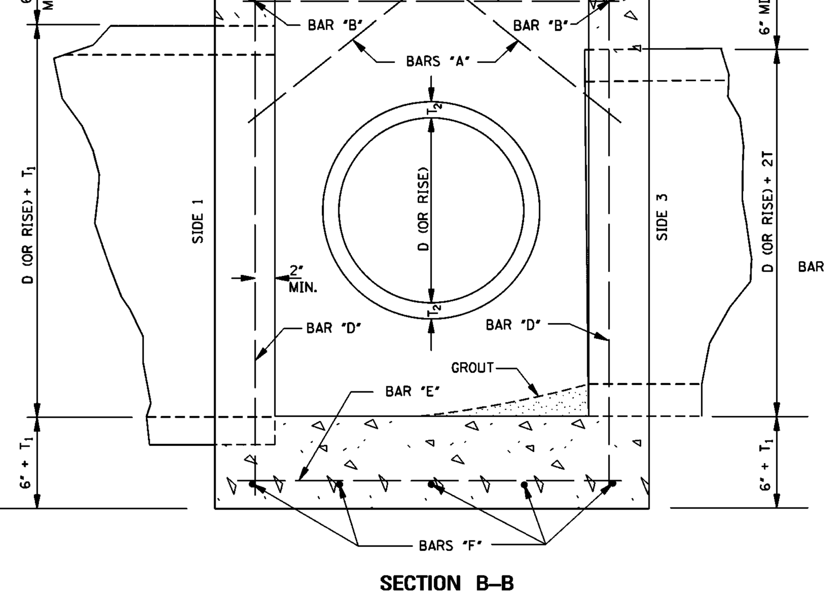
STATE	PROJECT NO.
MISS.	



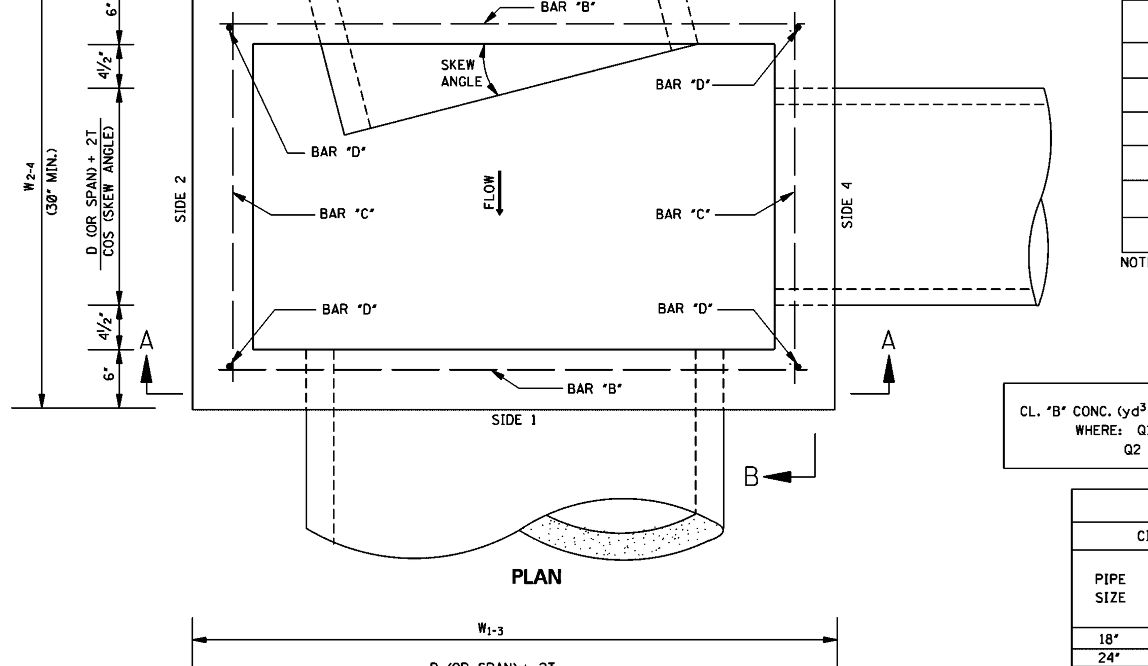
PLAN OF COVER



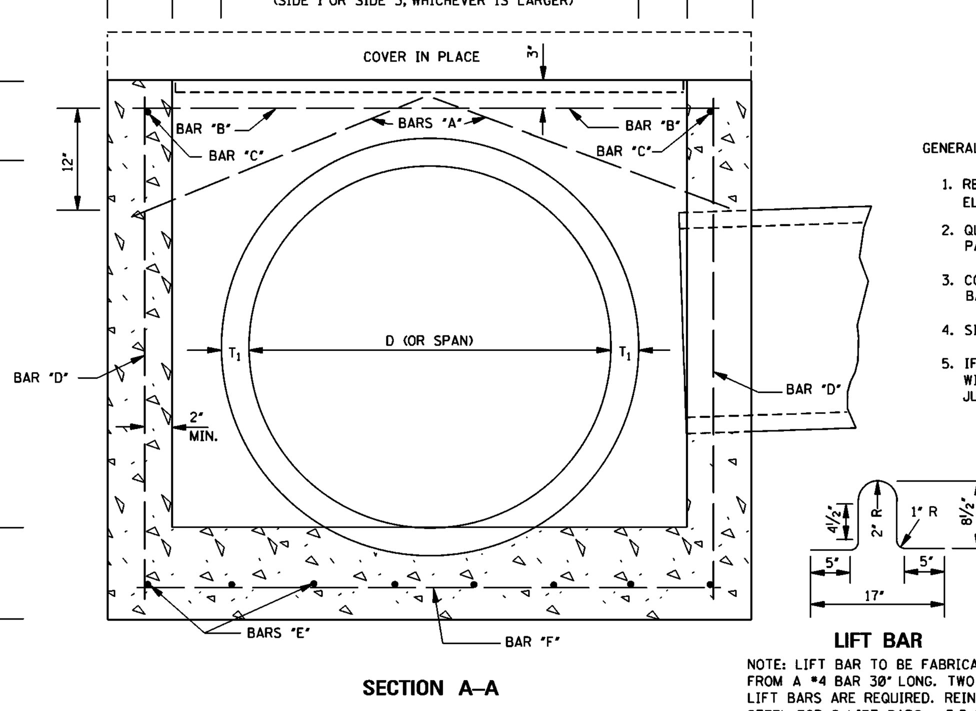
ELEVATION OF COVER



SECTION B-B



PLAN



SECTION A-A

REINFORCING BAR LIST

BAR	SIZE	NUMBER REQUIRED	LENGTH
A	*4	2 PER PIPE OPENING	$\sqrt{196" + (\frac{W^*}{2} + 2")^2}$
B	*4	2	W_{1-3} - 6"
C	*4	2	W_{2-4} - 6"
D	*4	4	H - 6"
E	*4	$2\left[\left(\frac{W_{1-3}}{9"}\right)^{**} + 1\right]$	W_{2-4} - 4"
F	*4	$2\left[\left(\frac{W_{2-4}}{9"}\right)^{**} + 1\right]$	W_{1-3} - 4"

NOTE: VARIABLES AND DESIGNATIONS ARE AS FOLLOWS:
D (OR SPAN) = PIPE DIAMETER (OR SPAN)
W_{1-3} = WIDTH OF SIDE 1 & SIDE 3
W_{2-4} = WIDTH OF SIDE 2 & SIDE 4
W* = W_{1-3} OR W_{2-4} (SIDE OF ENTERING PIPE)
** = ROUND TO NEAREST WHOLE NUMBER

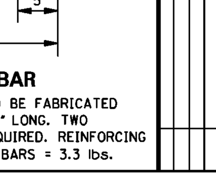
CL. "B" CONC. (yd³) = [(Q1 + Q2) / 46,656] - Σ PIPE OPENING DEDUCTIONS
WHERE: Q1 = [5"$W_{1-3}W_{2-4}$] + [1"(W_{1-3} - 12.5")X(W_{2-4} - 12.5")] + [(T_1 + 6")$W_{1-3}W_{2-4}$]
Q2 = 12"[H - (T_1 + 6")] [(W_{1-3} - 12") + W_{2-4}]

COMMON PIPE SIZE

CIRCULAR PIPE: PIPE SIZE	T	PIPE OPENING DEDUCTION (yd³)	ARCH PIPE: PIPE SIZE	T	PIPE OPENING DEDUCTION (yd³)
18"	2½"	0.053	22" x 13"	2½"	0.053
24"	3"	0.091	29" x 18"	3"	0.087
30"	3½"	0.138	36" x 23"	3½"	0.129
36"	4"	0.196	44" x 27"	4"	0.185
42"	4½"	0.263	51" x 31"	4½"	0.245
48"	5"	0.340	58" x 36"	5"	0.318
54"	5½"	0.427	65" x 40"	5½"	0.394
60"	6"	0.524	73" x 45"	6"	0.489
66"	6½"	0.630			
72"	7"	0.747			

GENERAL NOTES:

1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. IF PIPES ARE SKEWED MORE THAN 15° OR IF SKEWED PIPES PRODUCE CONFLICTS WITH ANOTHER OPENING, THE PIPE SHALL BE BROKEN BACK TO THE WALL OF THE JUNCTION BOX.



LIFT BAR

NOTE: LIFT BAR TO BE FABRICATED FROM A *4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

JUNCTION BOX FOR PIPE CULVERTS

REVISION | BY | DATE

ENGLISH

WORKING NUMBER JB-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6302

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

STORM SEWER DETAILS – JUNCTION BOX

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: NONE
Date: 01-30-2017		Working No. GD1
Drawing No.: 11241		Sheet No. C1.12

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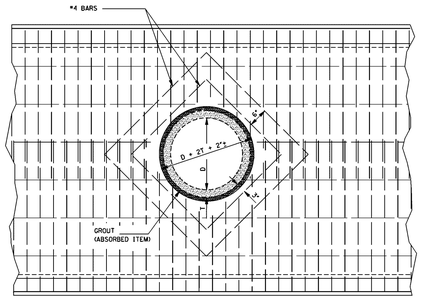
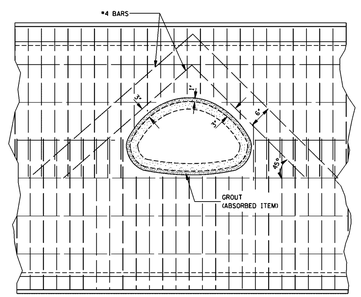
STATE	PROJECT NO.
MISS.	



ELEVATION SHOWING CIRCULAR PIPE STUBBED INTO BOX CULVERT BARREL OR WING-WALL



ELEVATION SHOWING ARCH PIPE STUBBED INTO BOX CULVERT BARREL OR WING-WALL

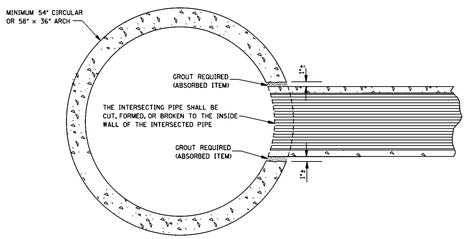
BAR LIST		
PIPE SIZE	*4 BARS	
	NO.	LGTH.
18"	4	2'-6"
	4	3'-6"
24"	4	3'-1"
	4	4'-1"
30"	4	3'-8½"
	4	4'-8½"
22" X 13"	2	3'-10"
	2	4'-9"
	1	5'-4"
29" X 18"	2	4'-6"
	2	5'-5"
	1	6'-3"

NOTE:

1. A 24" DIAMETER PIPE IS THE MAXIMUM SIZE THAT MAY BE STUBBED INTO A 54" DIAMETER PIPE.
2. A 60" DIAMETER PIPE IS THE MINIMUM SIZE THAT A 30" DIAMETER PIPE MAY BE STUBBED INTO.

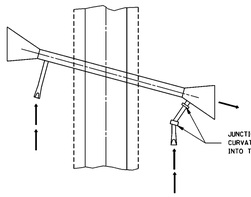
GENERAL NOTES:

1. PAYMENT FOR WORK AND MATERIALS FOR STUBBING A PIPE CULVERT INTO A BOX CULVERT OR CONCRETE PIPE SHALL BE PAID FOR AS A BRANCH CONNECTION OF THE APPROPRIATE SIZE, TYPE AND DESCRIPTION.
2. THE TABLE ON THIS SHEET INDICATES THE NUMBER AND LENGTHS OF ADDITIONAL REINFORCING STEEL BARS REQUIRED FOR BOX CULVERTS CONSTRUCTED. FOR A DOUBLE ROW OF REINFORCEMENT, DOUBLE THE NUMBER OF BARS SHOWN. THE ADDITIONAL REINFORCING STEEL SHALL BE INCLUDED IN THE COST FOR THIS TYPE OF BRANCH CONNECTION. THE QUANTITIES SHOWN IN THE TABLE ARE FOR THE MOST COMMON SIZES OF PIPE.
3. THE REINFORCEMENT OF THE INTERSECTED BOX OR PIPE SHALL BE CUT AS NECESSARY TO ACCOMMODATE THE STUBBED PIPE.
4. THE CONTRACTOR MAY INSERT THE INTERSECTING PIPE INTO THE FORM AT THE PROPER LOCATION IN LIEU OF FORMING BY BLOCKING OUT.



ELEVATION SHOWING PIPE CULVERT STUBBED INTO CONCRETE PIPE CULVERT

NOTE: TYPICAL INSTALLATION FOR MEDIAN STUB TO CROSSING DRAIN WITH MINIMUM COVER.



TYPICAL PLAN OF BRANCH CONNECTION TO BOX CULVERT WING-WALL

REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
DATE		**BRANCH CONNECTIONS**

ISSUE DATE: OCTOBER 1, 1998

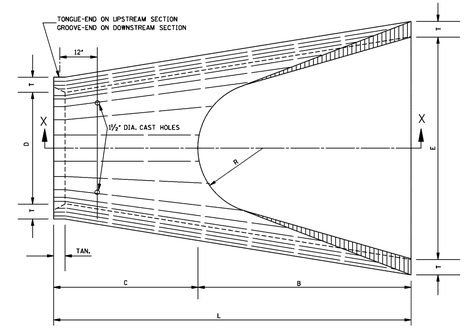
WORKING NUMBER BC-1

SHEET NUMBER 6305

STATE	PROJECT NO.
MISS.	

BELL AND SPIGOT END OPTION

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

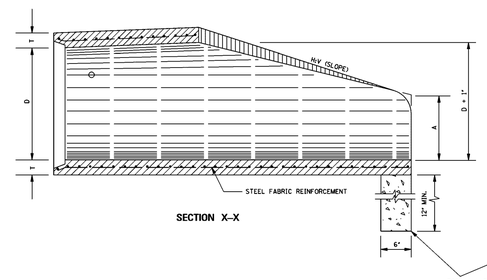


PLAN OF DOWNSTREAM END

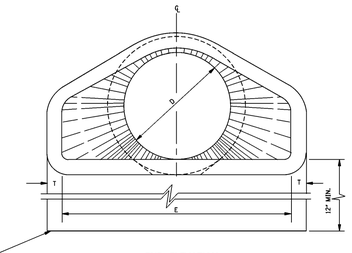
TABLE OF DIMENSIONS							
D	T	H:V	A	B	C	E	L
15"	2¼"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
18"	2½"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	3½"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4½"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5½"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
* 60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
* 66"	6½"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
* 72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

* NOTE: SEE GENERAL NOTE 2.

TOE WALL CONC. QUANTITY (yd³)
0.056
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.177
0.188



SECTION X-X



END ELEVATION

TOE WALL REQUIRED ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.

GENERAL NOTES:

1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
2. 2 - 1½" DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 - 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
3. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
4. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.
5. ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

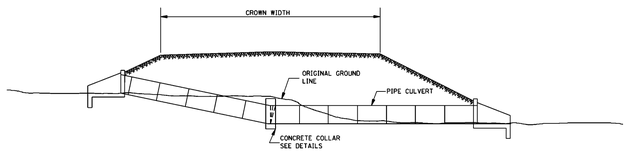
REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
DATE		**FLARED END SECTION FOR CONCRETE PIPE**

ISSUE DATE: OCTOBER 1, 1998

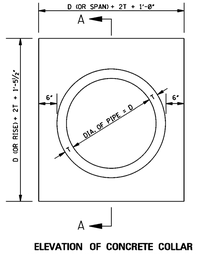
WORKING NUMBER FE-1

SHEET NUMBER 6328

STATE	PROJECT NO.
MISS.	

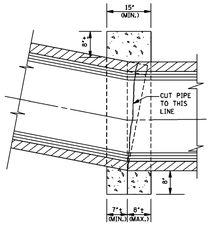


TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR

NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A-A

GENERAL NOTE:

1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd³)	SIZE OF PIPE	CLASS "B" CONCRETE (yd³)
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

REVISION	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
DATE		**CONCRETE PIPE COLLAR**

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER PC-1

SHEET NUMBER 6301

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

STORM SEWER DETAILS – PIPE & FES

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: NONE
Date: 01-30-2017	Working No. GD2	
Drawing No.: 11241	Sheet No. C1.13	

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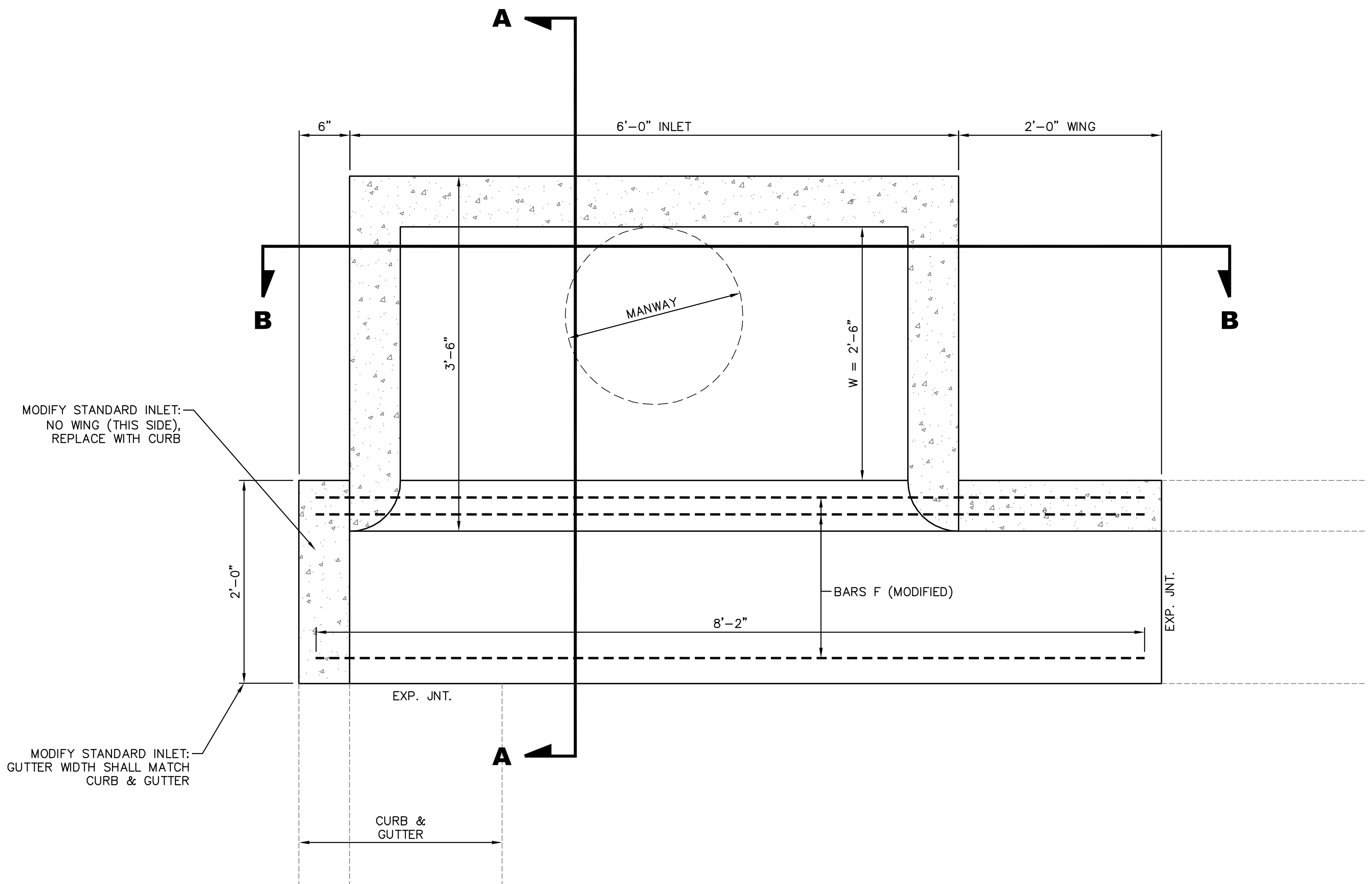


PLAN

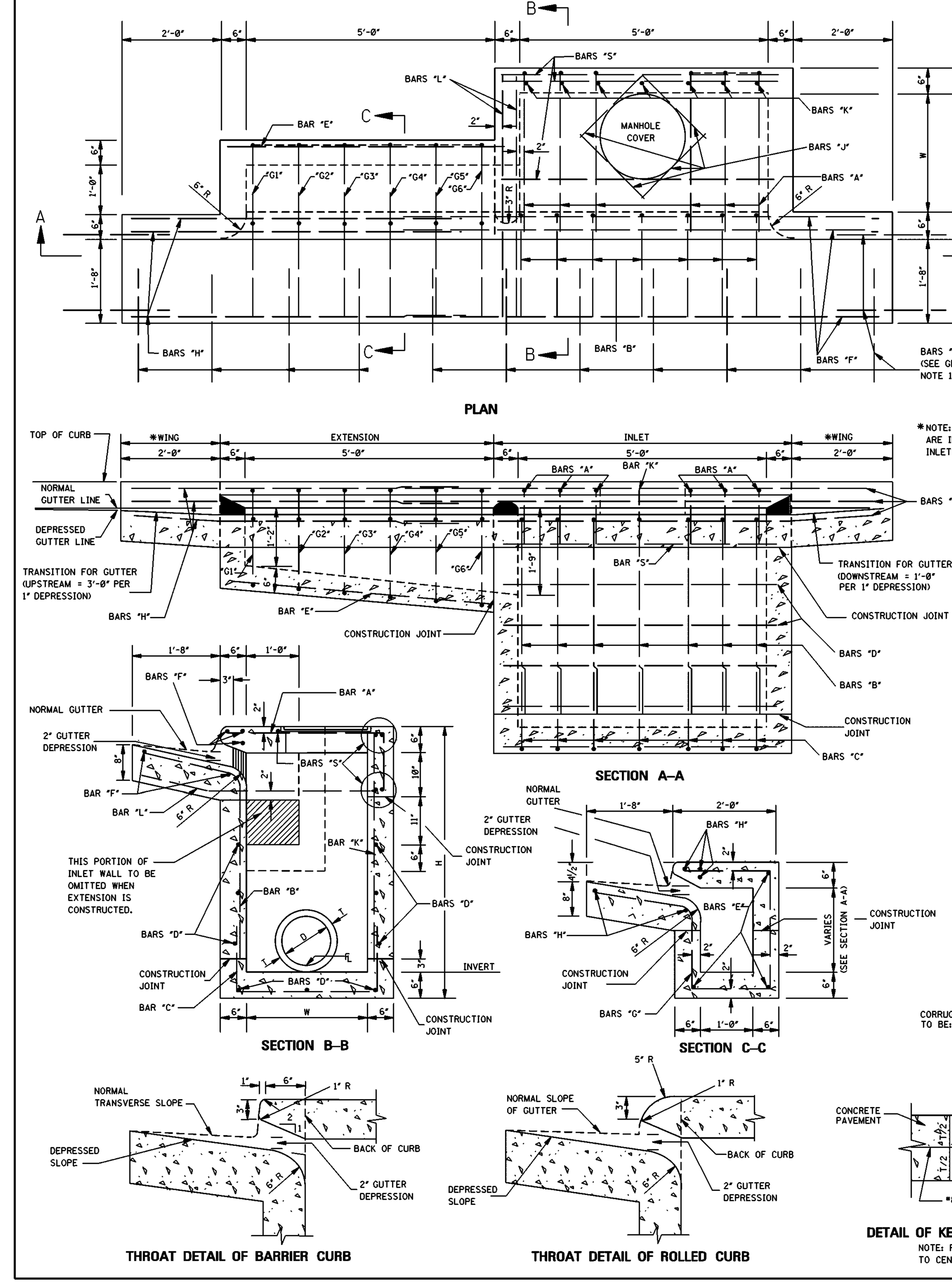
MODIFICATION NOTE (This Detail):

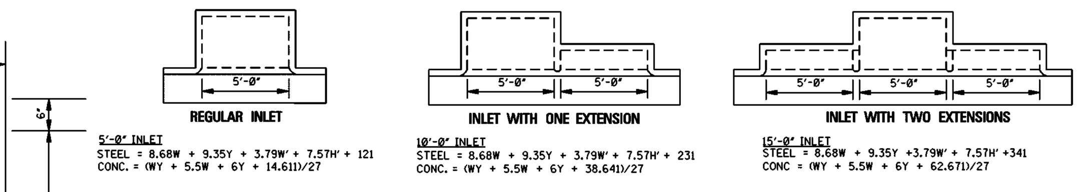
1. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH THE STANDARD SS–2 DETAIL "STORM SEWER STRUCTURE SS–2" (ABOVE). THIS DETAIL SHOWS ONLY THE MODIFICATIONS REQUIRED FOR THIS PROJECT. ALL OTHER ASPECTS OF THE ORIGINAL DETAIL SHALL REMAIN UNCHANGED AND IN FULL EFFECT AND VIRTUE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITY CALCULATION ADJUSTMENTS AS A RESULT OF THIS DETAIL.

3. EXTENSIONS ARE NOT SHOWN ON THIS DETAIL BUT MAY BE REQUIRED. SEE GRADING PLAN – NOTED AS 'SS–2 MOD.'

STATE	PROJECT NO.
MISS.	





5'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 121
CONC. = (WY + 5.5W + 6Y + 14.611)/27

10'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 231
CONC. = (WY + 5.5W + 6Y + 38.641)/27

15'-0" INLET
STEEL = 8.68W + 9.35Y +3.79W' + 7.57H' +341
CONC = (WY + 5.5W + 6Y + 62.671)/27

PLAN OF INLET AND EXTENSIONS

NOTES:
1. W AND H ARE EXPRESSED IN DECIMAL FEET.
2. W' = W ROUNDED TO NEAREST WHOLE FOOT.
3. Y = (H-0.5).
4. H'= (H - 2.08) ROUNDED TO NEAREST WHOLE FOOT.
5. NO DEDUCTIONS ARE MADE FOR PIPE OPENINGS IN FORMULAS.

ADD. CONCRETE PER FOOT OF H		ADD. CONCRETE PER FOOT OF W	
W	yd^3/ft	H	yd^3/ft
2'-6"	0.315	3'-6"	0.315
3'-0"	0.333	4'-0"	0.333
3'-6"	0.352	4'-6"	0.352
4'-0"	0.371	5'-0"	0.370
4'-6"	0.389	5'-6"	0.389
5'-0"	0.408	6'-0"	0.408
5'-6"	0.426	6'-6"	0.426
6'-0"	0.445	7'-0"	0.445
6'-6"	0.463	7'-6"	0.463
7'-0"	0.481	8'-0"	0.482
		8'-6"	0.500

QUANTITIES FOR ONE EXTENSION

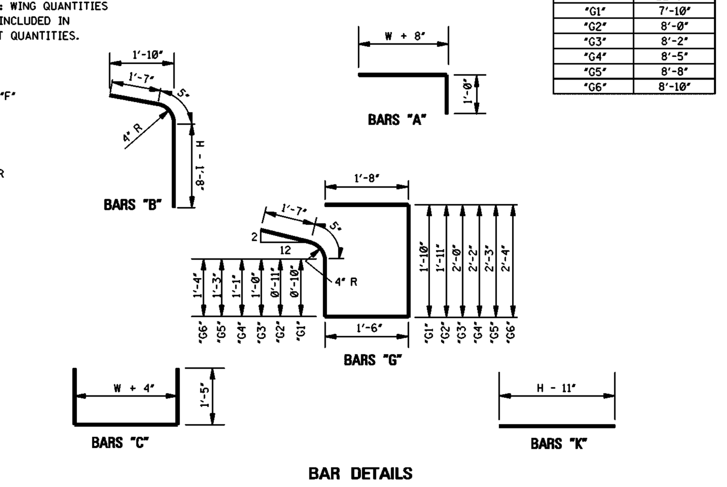
BAR	SIZE	LENGTH	SPACING	NUMBER	†WEIGHT
"E"	#4	5'-8"	AS SHOWN	3	11
"G"	#4	SEE SCHEDULE	0'-11"	6	34
"H"	#6	6'-9"	AS SHOWN	5	51
"L"	#6	4'-9"	AS SHOWN	2	14
TOTAL STEEL FOR ONE EXTENSION = 110 lbs					
TOTAL CONCRETE FOR ONE EXTENSION = 0.89 yd^3					

†NOTE: WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 lbs OF STEEL FOR BARS "M".

BAR "G" SCHEDULE

BAR "G"	LENGTH
"G1"	7'-10"
"G2"	8'-0"
"G3"	8'-2"
"G4"	8'-5"
"G5"	8'-8"
"G6"	8'-10"

*NOTE: WING QUANTITIES ARE INCLUDED IN INLET QUANTITIES.



BAR DETAILS

W=2'-6" BILL OF REINFORCING STEEL FOR 1-5'-0" INLET

H	BAR "A" L = 4'-2" #4 @ 9" NO.	lbs	BAR "C" L = 5'-8" #4 @ 9" NO.	lbs	BAR "S" L = 5'-8" #4 @ 12" NO.	lbs	BAR "D" L = 5'-8" #4 @ 12"± NO.	lbs	BAR "F" L=9'-8" #6 NO.	lbs	BAR "J" L=2'-3" #4 NO.	lbs	BAR "B" #4 @ 9" LGTH.	NO.	lbs	BAR "K" #4 @ 9"± LGTH.	NO.	lbs	*TOTAL STEEL lbs	TOTAL CONC. yd^3
3'-6"	6	17	7	27	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	190	1.99
4'-0"	6	17	7	27	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	202	2.15
4'-6"	6	17	7	27	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	207	2.31
5'-0"	6	17	7	27	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	219	2.47
5'-6"	6	17	7	27	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	224	2.62
6'-0"	6	17	7	27	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	238	2.78
6'-6"	6	17	7	27	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	240	2.94
7'-0"	6	17	7	27	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	253	3.10
7'-6"	6	17	7	27	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	257	3.25

W=3'-0" BILL OF REINFORCING STEEL FOR 1-5'-0" INLET

H	BAR "A" L = 4'-8" #4 @ 9" NO.	lbs	BAR "C" L = 6'-2" #4 @ 9" NO.	lbs	BAR "S" L = 5'-8" #4 @ 12" NO.	lbs	BAR "D" L = 5'-8" #4 @ 12"± NO.	lbs	BAR "F" L=9'-8" #6 NO.	lbs	BAR "J" L=2'-3" #4 NO.	lbs	BAR "B" #4 @ 9" LGTH.	NO.	lbs	BAR "K" #4 @ 9"± LGTH.	NO.	lbs	*TOTAL STEEL lbs	TOTAL CONC. yd^3
3'-6"	6	19	7	29	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	194	2.15
4'-0"	6	19	7	29	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	206	2.32
4'-6"	6	19	7	29	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	211	2.49
5'-0"	6	19	7	29	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	223	2.65
5'-6"	6	19	7	29	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	228	2.82
6'-0"	6	19	7	29	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	240	2.99
6'-6"	6	19	7	29	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	245	3.15
7'-0"	6	19	7	29	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	257	3.32
7'-6"	6	19	7	29	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	262	3.49

W=3'-6" BILL OF REINFORCING STEEL FOR 1-5'-0" INLET

H	BAR "A" L = 5'-2" #4 @ 9" NO.	lbs	BAR "C" L = 6'-8" #4 @ 9" NO.	lbs	BAR "S" L = 5'-8" #4 @ 12" NO.	lbs	BAR "D" L = 5'-8" #4 @ 12"± NO.	lbs	BAR "F" L=9'-8" #6 NO.	lbs	BAR "J" L=2'-3" #4 NO.	lbs	BAR "B" #4 @ 9" LGTH.	NO.	lbs	BAR "K" #4 @ 9"± LGTH.	NO.	lbs	*TOTAL STEEL lbs	TOTAL CONC. yd^3
3'-6"	6	21	7	31	5	19	6	23	5	73	4	6	3'-10"	7	18	2'-7"	7	12	202	2.31
4'-0"	6	21	7	31	5	19	8	30	5	73	4	6	4'-4"	7	20	3'-1"	7	14	214	2.49
4'-6"	6	21	7	31	5	19	8	30	5	73	4	6	4'-10"	7	23	3'-7"	7	17	219	2.66
5'-0"	6	21	7	31	5	19	10	38	5	73	4	6	5'-4"	7	25	4'-1"	7	19	231	2.84
5'-6"	6	21	7	31	5	19	10	38	5	73	4	6	5'-10"	7	27	4'-7"	7	21	236	3.01
6'-0"	6	21	7	31	5	19	12	45	5	73	4	6	6'-4"	7	30	5'-1"	7	24	248	3.19
6'-6"	6	21	7	31	5	19	12	45	5	73	4	6	6'-10"	7	32	5'-7"	7	26	253	3.37
7'-0"	6	21	7	31	5	19	14	53	5	73	4	6	7'-4"	7	34	6'-1"	7	28	265	3.54
7'-6"	6	21	7	31	5	19	14	53	5	73	4	6	7'-10"	7	37	6'-7"	7	31	270	3.72

* NOTE: WHERE INLET IS USED WITH CONCRETE PAVEMENT, ADD 73 lbs OF STEEL FOR BARS "M".

GENERAL NOTES:

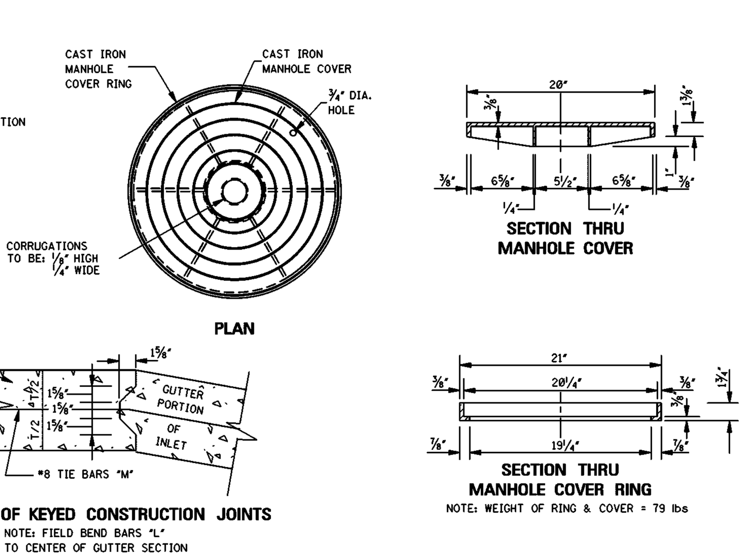
1. WHERE INLET OR INLET WITH EXTENSION(S) IS USED WITH CONCRETE PAVEMENT WITH INTERGRAL CURB, THE PAVEMENT IS TO BE BLOCKED OUT TO THE DIMENSIONS AS SHOWN FOR THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S). THE PORTION BLOCKED OUT SHALL BE PLACED INTEGRAL WITH THE TOP OF THE INLET OR INLET WITH EXTENSION(S). #8 DEFORMED BARS 30" LONG SHALL BE PLACED ON 18" CENTERS AT THE CENTER OF THE PAVEMENT. THESE BARS SHALL EXTEND INTO THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S) 15". THE CONSTRUCTION JOINT BETWEEN THE CONCRETE PAVEMENT AND THE INLET OR INLET WITH EXTENSION(S) SHALL BE A KEYED JOINT AS SHOWN. A SMOOTH CONSTRUCTION JOINT WILL NOT BE PERMITTED. QUANTITIES FOR BLOCKED OUT AREA OF PAVEMENT SHALL BE INCLUDED IN QUANTITIES FOR INLET OR INLET WITH EXTENSION(S).

2. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL APPLY TO ALL ITEMS ON THIS SHEET.

3. THE QUANTITIES SHOWN, MINUS VOLUMETRIC DISPLACEMENT OF CONCRETE BY PIPE CULVERTS THROUGH INLET WALLS, WILL BE USED AS THE BASIS OF FINAL PAYMENT UNLESS THIS PLAN IS MODIFIED.

4. FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLE ARE INCREMENTS OF 6". BUT ANY DEPTHS OTHER THAN THESE SHOWN MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS, FALLING WITHIN THE LIMITS OF THE TABLE, MAY BE FOUND BY INTERPOLATION.

5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER. NO DEDUCTIONS ARE TO BE MADE IN STEEL QUANTITIES.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

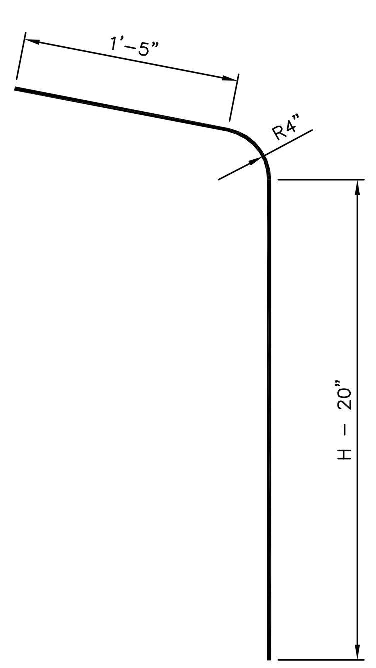
STORM SEWER STRUCTURE TYPE SS–2

ENGLISH

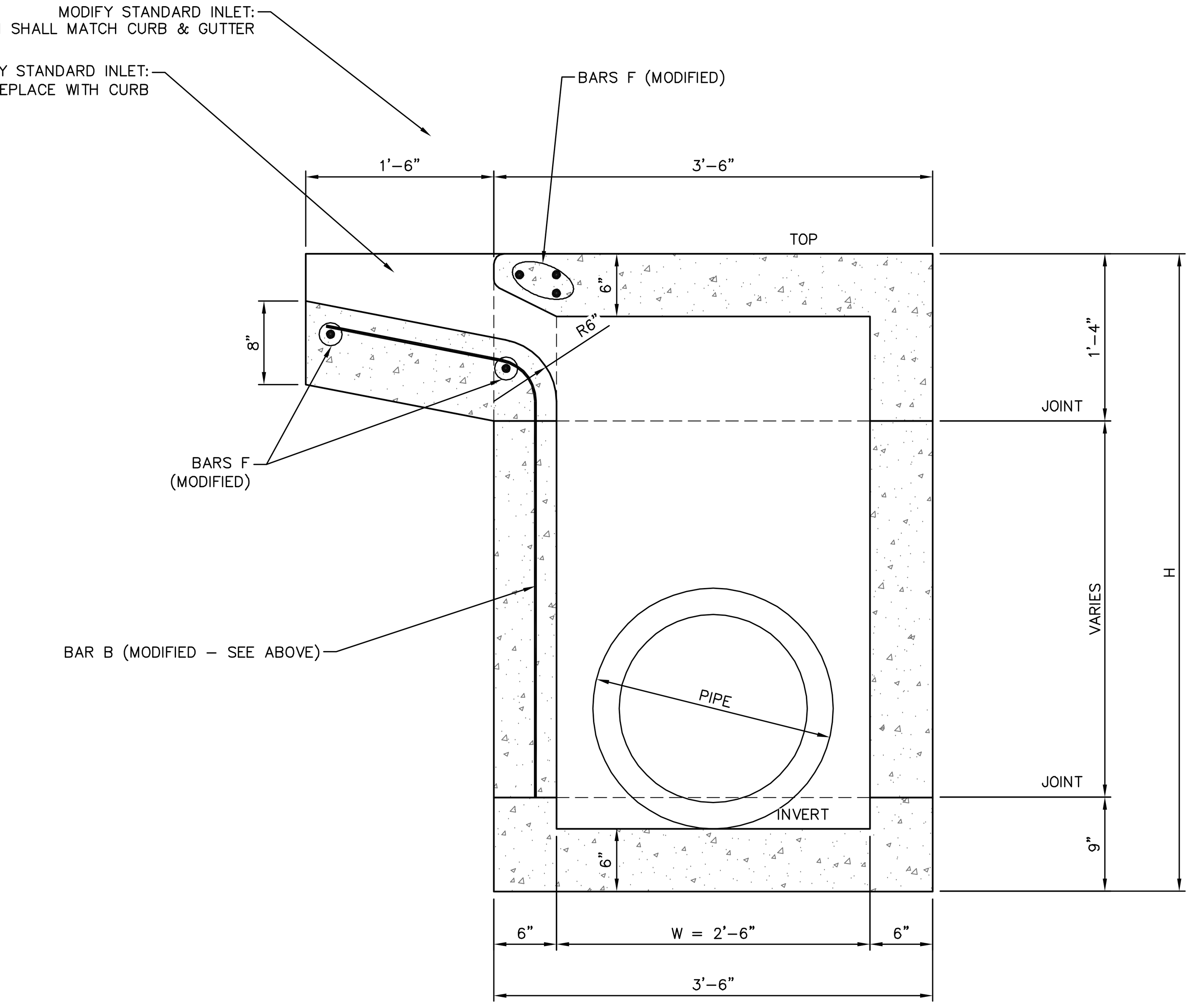
WORKING NUMBER SS-2
SHEET NUMBER 6322
ISSUE DATE: OCTOBER 1, 1998

SPECIAL GENERAL NOTE:

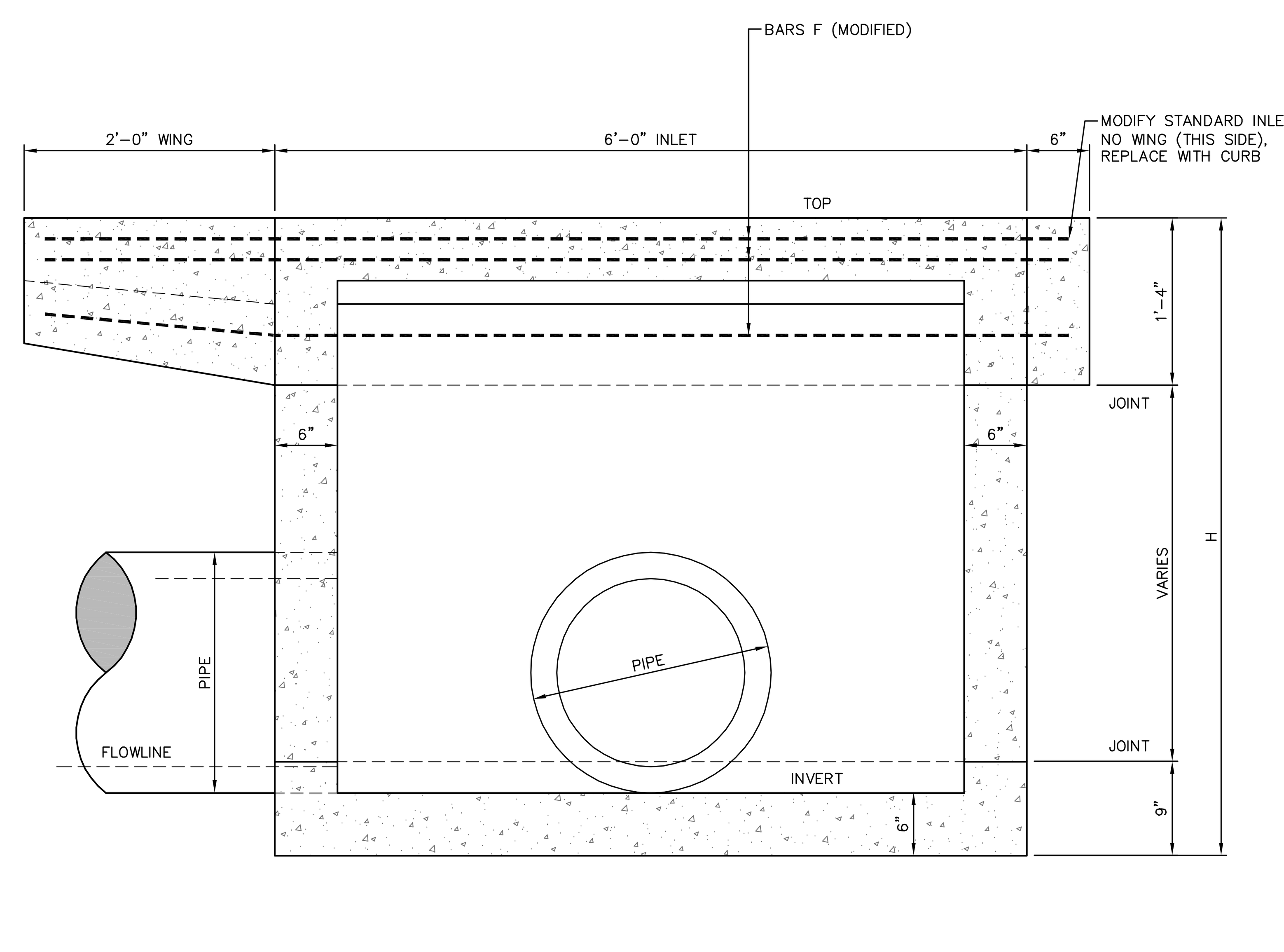
ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.



BAR B
MODIFIED



SECTION 'A-A'



SECTION 'B-B'

SPECIAL DESIGN SS-2 MODIFIED DETAIL
SCALE: 1" = 1'

NO.	DATE	DESCRIPTION	BY

STORM SEWER DETAILS – SS–2 INLET

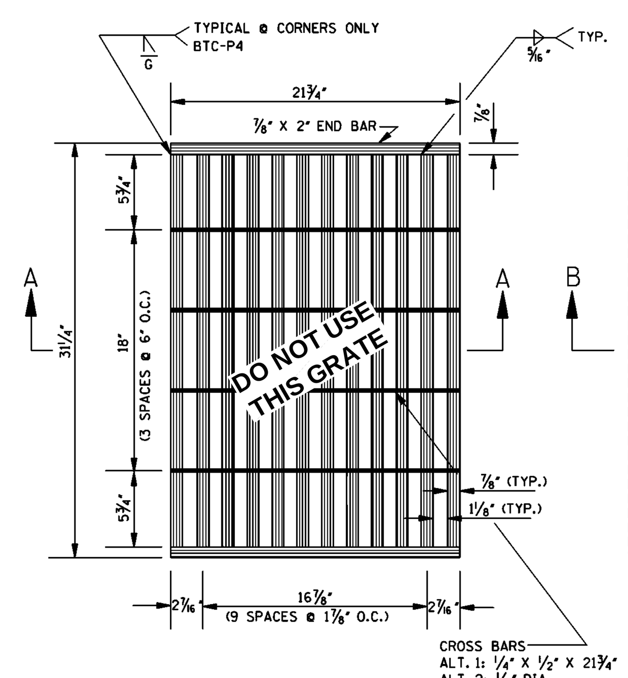
THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: AS NOTED
Date: 01–30–2017		Working No. GD3
Drawing No.: 11241		Sheet No. C1.14

G:\PROJECTS\Hattiesburg_City of\11241 - Infrastructure Improvements at 30th Avenue and Chevy Chase\11241\CAD Files\11241_Grading_dtls_lset.dwg, GD3, 2/1/2017 9:41:21 AM

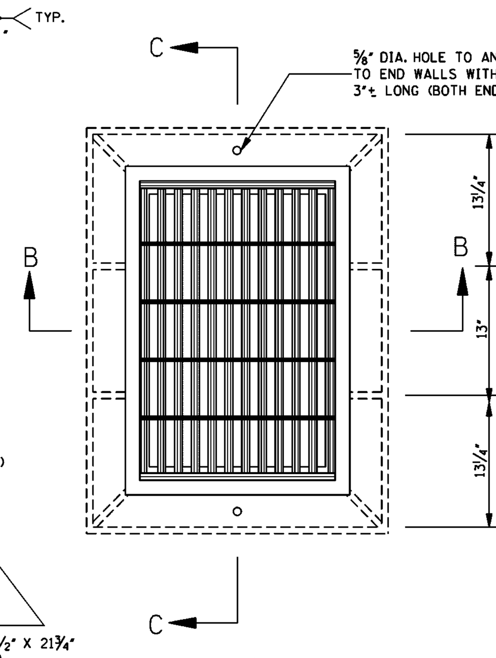
STATE	PROJECT NO.
MISS.	



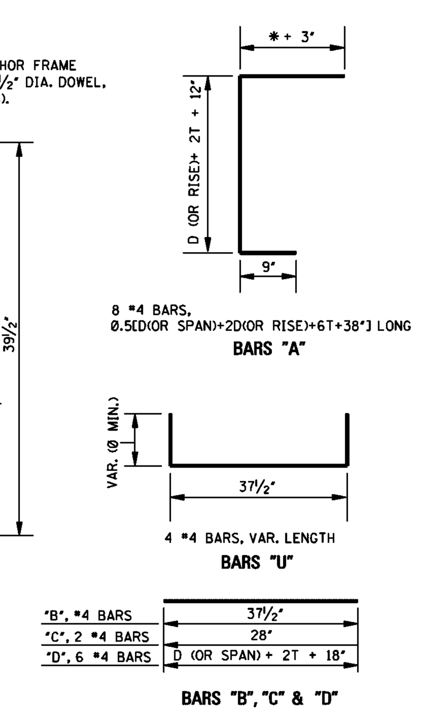
PLAN OF GRATE NO.1

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.

GRATE NOTE:
USE GRATE No. 2 (MDOT IG-2 – SEE BELOW)



PLAN OF INLET



8 #4 BARS, 0.5[D(OR SPAN)+2D(OR RISE)+6T+38"] LONG
BARS "A"

4 #4 BARS, VAR. LENGTH
BARS "U"

"B", #4 BARS 37½"; "C", 2 #4 BARS 28"; "D", 6 #4 BARS D (OR SPAN) + 2T + 18"
BARS "B", "C" & "D"

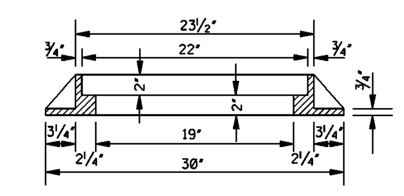
*NOTE: * [D (OR SPAN) + 2T − 10"] / 2

BAR DETAILS

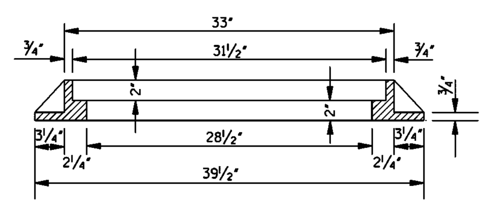
QUANTITIES

PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET CONC. (yd³)	MIN. DEPTH INLET STEEL (lbs)	PIPE OPENING DEDUCTION (yd³)	T	"A" #4 NO. @ LGTH.	"B" #4 NO. @ LGTH.	"C" #4 NO. @ LGTH.	"D" #4 NO. @ LGTH.	"U" #4 NO. @ LGTH.
18"	2.792'	0.869	76	0.053	2½"	8 @ 4'-5½"	12 @ 3'-1½"	2 @ 2'-4"	6 @ 3'-5"	4 @ 3'-9½"
24"	3.334'	1.117	87	0.091	3"	8 @ 5'-4"	14 @ 3'-1½"	2 @ 2'-4"	6 @ 4'-0"	4 @ 3'-9½"
30"	3.875'	1.385	94	0.138	3½"	8 @ 6'-2½"	14 @ 3'-1½"	2 @ 2'-4"	6 @ 4'-7"	4 @ 3'-9½"
36"	4.417'	1.671	105	0.196	4"	8 @ 7'-1"	16 @ 3'-1½"	2 @ 2'-4"	6 @ 5'-2"	4 @ 3'-9½"
42"	4.959'	1.978	116	0.263	4½"	8 @ 7'-11½"	18 @ 3'-1½"	2 @ 2'-4"	6 @ 5'-9"	4 @ 3'-9½"
48"	5.500'	2.305	123	0.340	5"	8 @ 8'-10"	18 @ 3'-1½"	2 @ 2'-4"	6 @ 6'-4"	4 @ 3'-9½"
54"	6.042'	2.650	135	0.427	5½"	8 @ 9'-8½"	20 @ 3'-1½"	2 @ 2'-4"	6 @ 6'-11"	4 @ 3'-9½"
60"	6.583'	3.016	146	0.524	6"	8 @ 10'-7"	22 @ 3'-1½"	2 @ 2'-4"	6 @ 7'-6"	4 @ 3'-9½"
66"	7.125'	3.402	153	0.630	6½"	8 @ 11'-5½"	22 @ 3'-1½"	2 @ 2'-4"	6 @ 8'-1"	4 @ 3'-9½"
72"	7.667'	3.806	164	0.747	7"	8 @ 12'-4"	24 @ 3'-1½"	2 @ 2'-4"	6 @ 8'-8"	4 @ 3'-9½"
22" X 13"	2.417'	0.855	76	0.053	2½"	8 @ 4'-3"	12 @ 3'-1½"	2 @ 2'-4"	6 @ 3'-9"	4 @ 3'-9½"
29" X 18"	2.833'	1.085	83	0.087	3"	8 @ 5'-0¼"	12 @ 3'-1½"	2 @ 2'-4"	6 @ 4'-4½"	4 @ 3'-9½"
36" X 23"	3.250'	1.358	94	0.129	3½"	8 @ 5'-10"	14 @ 3'-1½"	2 @ 2'-4"	6 @ 5'-1"	4 @ 3'-9½"
44" X 27"	3.635'	1.631	101	0.185	4"	8 @ 6'-7½"	14 @ 3'-1½"	2 @ 2'-4"	6 @ 5'-10"	4 @ 3'-9½"
51" X 31"	4.068'	1.942	113	0.245	4½"	8 @ 7'-5½"	16 @ 3'-1½"	2 @ 2'-4"	6 @ 6'-6"	4 @ 3'-9½"
58" X 36"	4.500'	2.269	120	0.318	5"	8 @ 8'-3"	16 @ 3'-1½"	2 @ 2'-4"	6 @ 7'-2½"	4 @ 3'-9½"
65" X 40"	4.875'	2.575	130	0.394	5½"	8 @ 9'-0"	18 @ 3'-1½"	2 @ 2'-4"	6 @ 7'-10"	4 @ 3'-9½"
73" X 45"	5.333'	2.966	139	0.489	6"	8 @ 9'-10½"	18 @ 3'-1½"	2 @ 2'-4"	6 @ 8'-7"	4 @ 3'-9½"
88" X 54"	6.167'	3.765	156	0.688	7"	8 @ 11'-6"	20 @ 3'-1½"	2 @ 2'-4"	6 @ 10'-0"	4 @ 3'-9½"

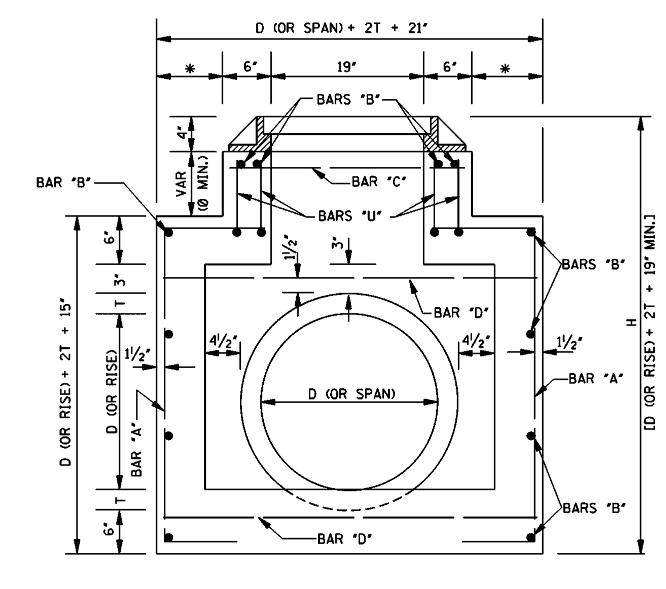
NOTES:
1. ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.
2. FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.184 yd³ CLASS "B" CONCRETE AND 17 lbs REINFORCING STEEL.
3. 4 BARS "B" AND 2 BARS "C" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT.
4. WEIGHT OF FRAME CASTING = 244 lbs. WEIGHT OF GRATE = SEE SHEET IG-2.



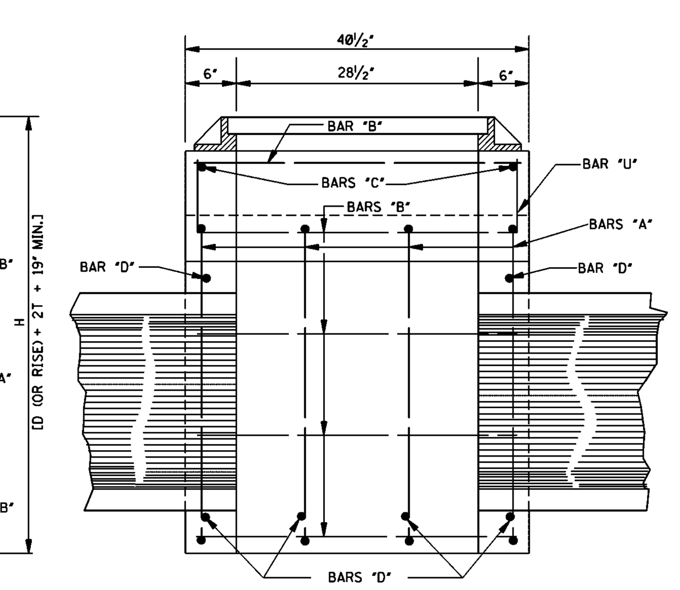
SECTION B–B (FRAME)



SECTION C–C (FRAME)



SECTION B–B



SECTION C–C

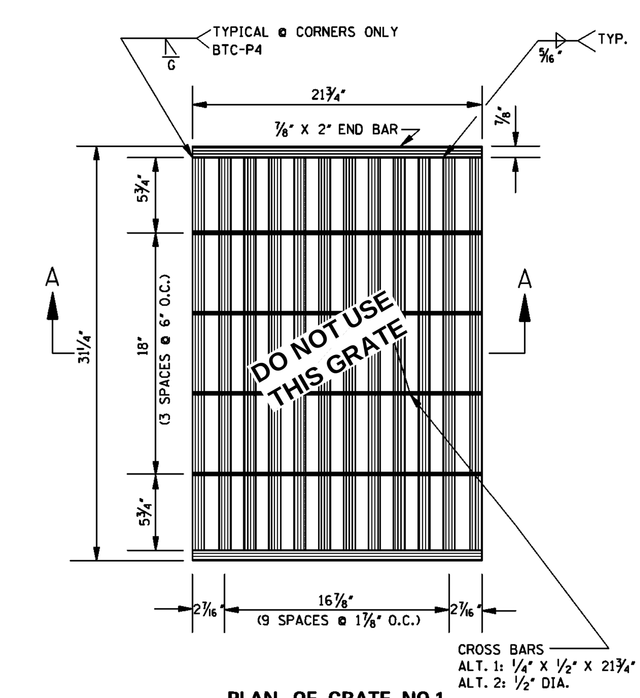
GENERAL NOTES:
1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
3. THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
4. FRAME TO BE GRAY IRON CASTING. (AASHTO M 105, CLASS 30).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

STORM SEWER INLET TYPE SS-3

ENGLISH
WORKING NUMBER SS-3
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6323

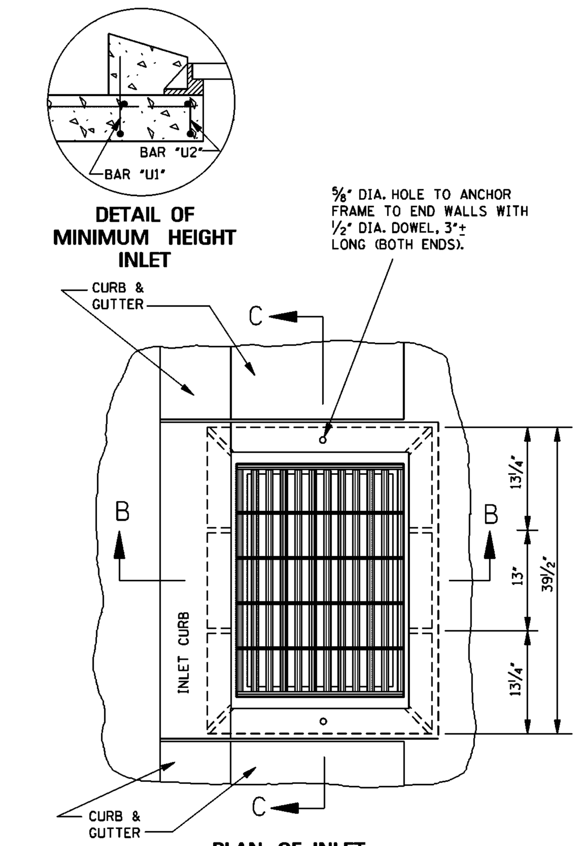
STATE	PROJECT NO.
MISS.	



PLAN OF GRATE NO.1

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.

GRATE NOTE:
USE GRATE No. 2 (MDOT IG-2 – SEE BELOW)



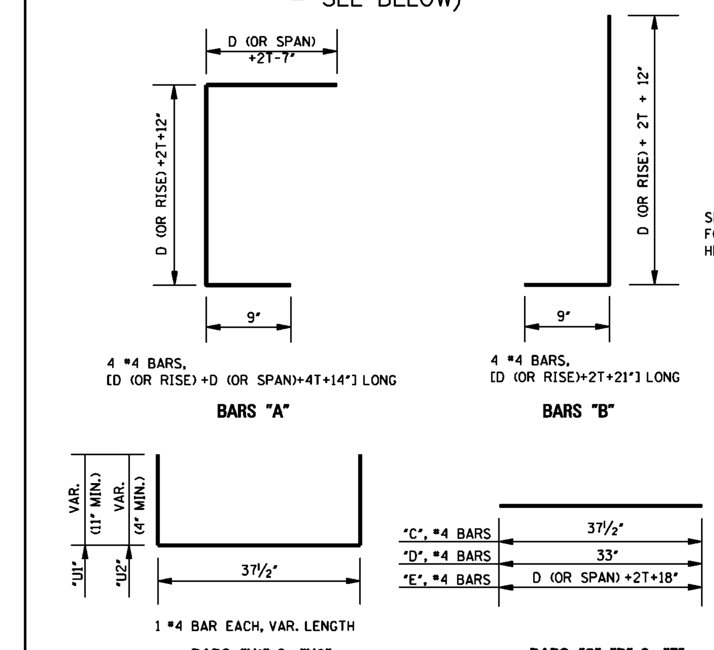
DETAIL OF MINIMUM HEIGHT INLET

PLAN OF INLET

QUANTITIES

PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET CONC. (yd³)	MIN. DEPTH INLET STEEL (lbs)	PIPE OPENING DEDUCTION (yd³)	T	"A" #4 NO. @ LGTH.	"B" #4 NO. @ LGTH.	"C" #4 NO. @ LGTH.	"D" #4 NO. @ LGTH.	"E" #4 NO. @ LGTH.	"U1" #4 NO. @ LGTH.	"U2" #4 NO. @ LGTH.
18"	2.792'	0.973	67	0.053	2½"	4 @ 5'-0"	4 @ 3'-8"	10 @ 3'-1½"	2 @ 2'-9"	6 @ 3'-5"	1 @ 4'-11½"	1 @ 3'-9½"
24"	3.333'	1.259	78	0.091	3"	4 @ 6'-2"	4 @ 4'-3"	12 @ 3'-1½"	2 @ 2'-9"	6 @ 4'-0"	1 @ 4'-11½"	1 @ 3'-9½"
30"	3.875'	1.574	88	0.138	3½"	4 @ 7'-4"	4 @ 4'-10"	13 @ 3'-1½"	2 @ 2'-9"	6 @ 4'-7"	1 @ 4'-11½"	1 @ 3'-9½"
36"	4.417'	1.918	101	0.196	4"	4 @ 8'-6"	4 @ 5'-5"	16 @ 3'-1½"	2 @ 2'-9"	6 @ 5'-2"	1 @ 4'-11½"	1 @ 3'-9½"
42"	4.958'	2.292	112	0.263	4½"	4 @ 9'-8"	4 @ 6'-0"	18 @ 3'-1½"	2 @ 2'-9"	6 @ 5'-9"	1 @ 4'-11½"	1 @ 3'-9½"
48"	5.500'	2.695	121	0.340	5"	4 @ 10'-10"	4 @ 6'-7"	19 @ 3'-1½"	2 @ 2'-9"	6 @ 6'-4"	1 @ 4'-11½"	1 @ 3'-9½"
54"	6.042'	3.128	132	0.427	5½"	4 @ 12'-0"	4 @ 7'-2"	21 @ 3'-1½"	2 @ 2'-9"	6 @ 6'-11"	1 @ 4'-11½"	1 @ 3'-9½"
60"	6.583'	3.591	146	0.524	6"	4 @ 13'-2"	4 @ 7'-9"	24 @ 3'-1½"	2 @ 2'-9"	6 @ 7'-6"	1 @ 4'-11½"	1 @ 3'-9½"
66"	7.125'	4.082	159	0.630	6½"	4 @ 14'-4"	4 @ 8'-4"	27 @ 3'-1½"	2 @ 2'-9"	6 @ 8'-1"	1 @ 4'-11½"	1 @ 3'-9½"
72"	7.667'	4.604	168	0.747	7"	4 @ 15'-6"	4 @ 8'-11"	28 @ 3'-1½"	2 @ 2'-9"	6 @ 8'-8"	1 @ 4'-11½"	1 @ 3'-9½"
22" X 13"	2.417'	0.991	67	0.053	2½"	4 @ 4'-11½"	4 @ 3'-3½"	10 @ 3'-1½"	2 @ 2'-9"	6 @ 3'-9"	1 @ 4'-11½"	1 @ 3'-9½"
29" X 18"	2.833'	1.222	82	0.087	3"	4 @ 6'-1/2"	4 @ 3'-9"	13 @ 3'-1½"	2 @ 2'-9"	6 @ 4'-5"	1 @ 4'-11½"	1 @ 3'-9½"
36" X 23"	3.250'	1.537	90	0.129	3½"	4 @ 7'-3"	4 @ 4'-2½"	14 @ 3'-1½"	2 @ 2'-9"	6 @ 5'-1½"	1 @ 4'-11½"	1 @ 3'-9½"
44" X 27"	3.667'	1.877	97	0.185	4"	4 @ 8'-5"	4 @ 4'-8"	14 @ 3'-1½"	2 @ 2'-9"	6 @ 5'-10"	1 @ 4'-11½"	1 @ 3'-9½"
51" X 31"	4.068'	2.237	110	0.245	4½"	4 @ 9'-7"	4 @ 5'-1½"	17 @ 3'-1½"	2 @ 2'-9"	6 @ 6'-6"	1 @ 4'-11½"	1 @ 3'-9½"
58" X 36"	4.500'	2.637	120	0.318	5"	4 @ 10'-8½"	4 @ 5'-7"	18 @ 3'-1½"	2 @ 2'-9"	6 @ 7'-2½"	1 @ 4'-11½"	1 @ 3'-9½"
65" X 40"	4.875'	3.020	132	0.394	5½"	4 @ 11'-9"	4 @ 6'-0"	21 @ 3'-1½"	2 @ 2'-9"	6 @ 7'-10"	1 @ 4'-11½"	1 @ 3'-9½"
73" X 45"	5.333'	3.505	140	0.489	6"	4 @ 13'-0"	4 @ 6'-6"	21 @ 3'-1½"	2 @ 2'-9"	6 @ 8'-7"	1 @ 4'-11½"	1 @ 3'-9½"
88" X 54"	6.167'	4.504	163	0.688	7"	4 @ 15'-4"	4 @ 7'-5"	25 @ 3'-1½"	2 @ 2'-9"	6 @ 10'-0"	1 @ 4'-11½"	1 @ 3'-9½"

NOTES:
1. NO PIPE OPENINGS HAVE BEEN DEDUCTED FROM QUANTITY SHOWN.
2. FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.238 yd³ CLASS "B" CONCRETE AND 13 lbs REINFORCING STEEL.
3. 3 BARS "C" AND 2 BARS "D" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT. LENGTH OF BARS "B" WILL INCREASE WITH ADDITIONAL HEIGHT.
4. WEIGHT OF FRAME CASTING = 244 lbs. WEIGHT OF GRATE = SEE SHEET IG-2.



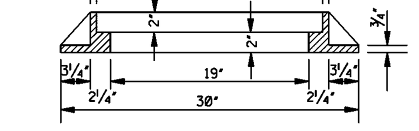
4 #4 BARS, [D (OR RISE) + D (OR SPAN)+4T+14"] LONG
BARS "A"

4 #4 BARS, [D (OR RISE)+2T+21"] LONG
BARS "B"

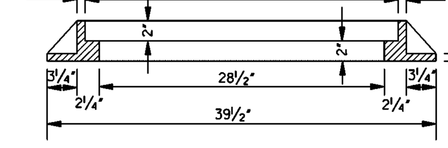
1 #4 BAR EACH, VAR. LENGTH
BARS "U1" & "U2"

"C", #4 BARS 37½"; "D", #4 BARS 33"; "E", #4 BARS D (OR SPAN) +2T+18"
BARS "C", "D" & "E"

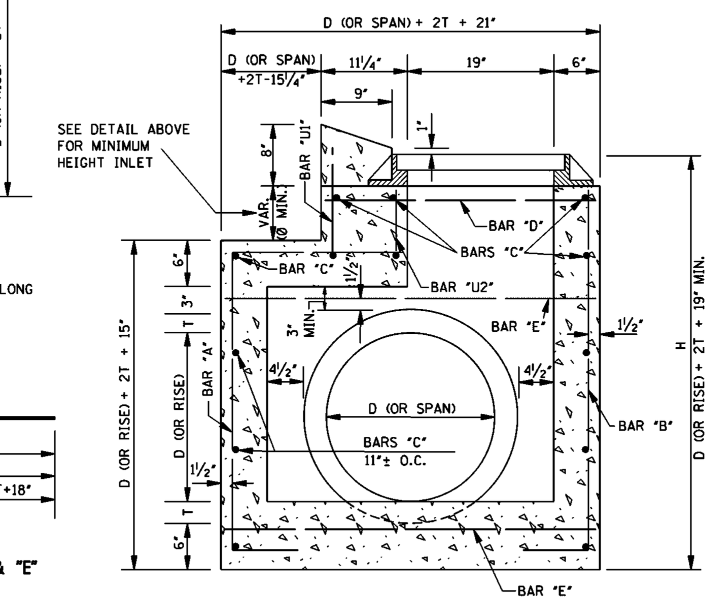
BAR DETAILS



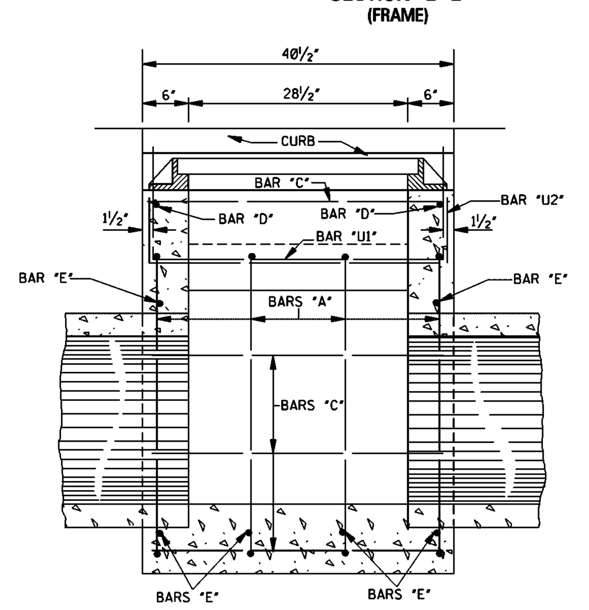
SECTION B–B (FRAME)



SECTION C–C (FRAME)



SECTION B–B



SECTION C–C

GENERAL NOTES:
1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
3. THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
4. FRAME TO BE GRAY IRON CASTING. (AASHTO M 105, CLASS 30).

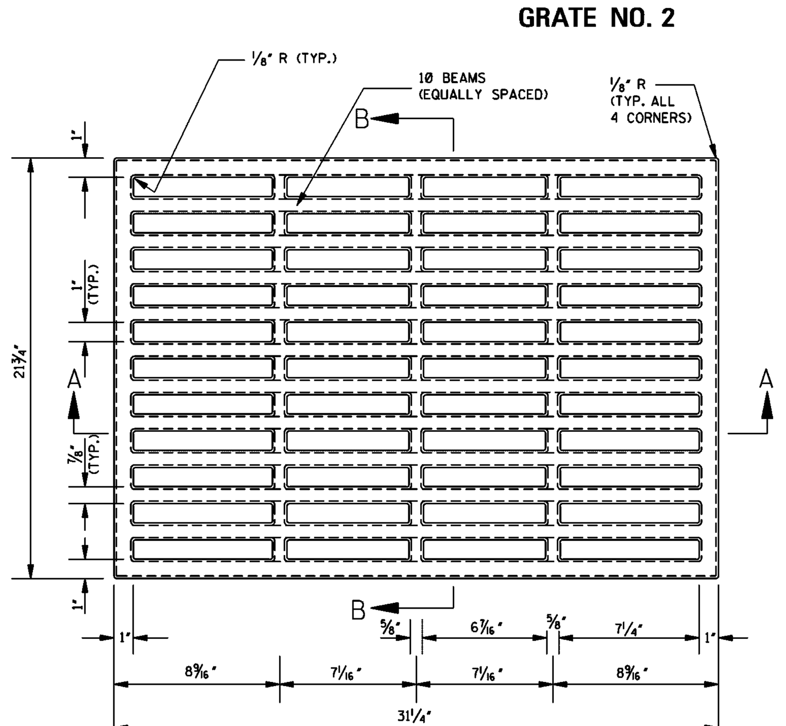
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

GUTTER INLET FOR TYPE 2 CURB STORM SEWER ALONG ROADWAY

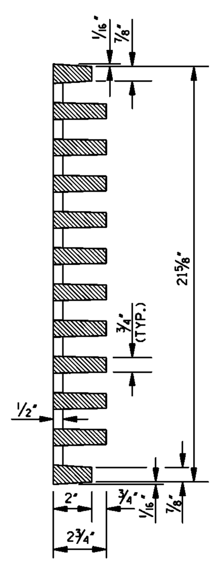
ENGLISH
WORKING NUMBER GI-1A
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6317

STATE	PROJECT NO.
MISS.	

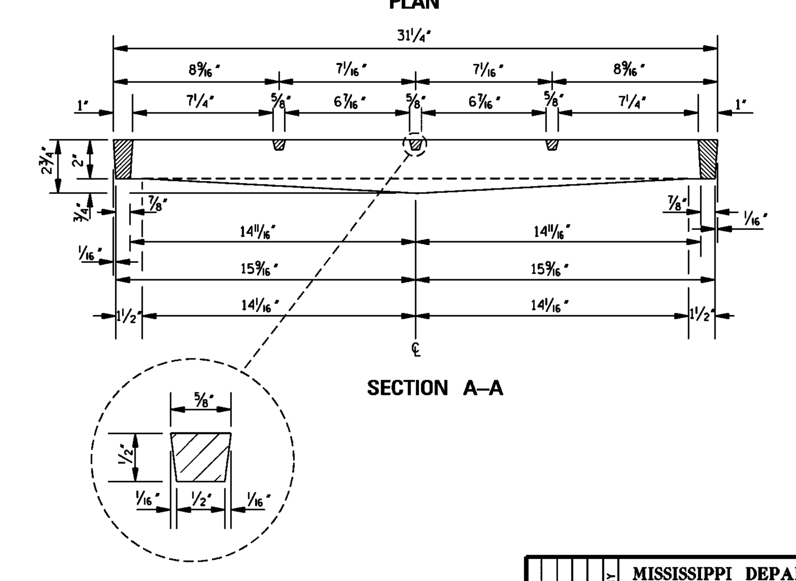
GRATE NO. 2



PLAN



SECTION B–B



SECTION A–A

GENERAL NOTES:
1. BASIS OF PAYMENT WILL BE 200 lbs OF GRATING FOR EITHER GRATE.
2. GRATE NO. 1
THE GRATE MAY BE WELDED STEEL (ASTM A 588) OR STEEL CASTING (AASHTO M 192, CLASS 90).
3. GRATE NO. 2
THE GRATE SHALL BE DUCTILE IRON (ASTM A 536, GRADE 80-55-06).

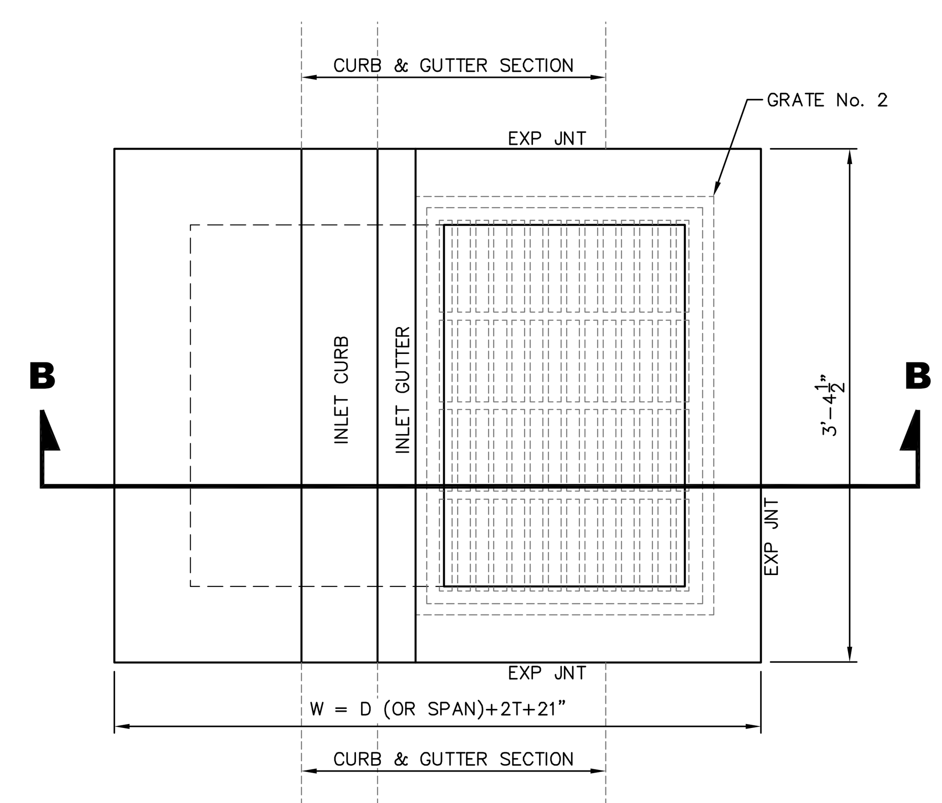
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF GRATES FOR GUTTER INLETS

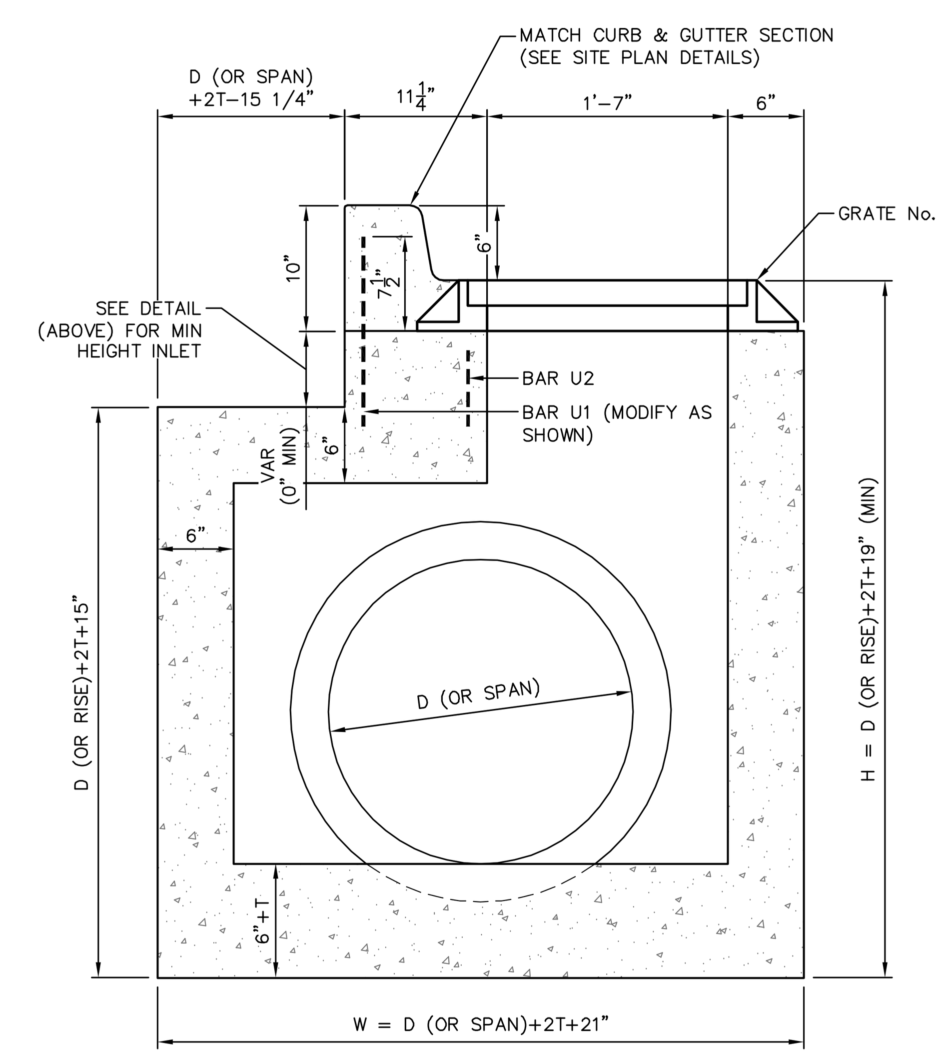
ENGLISH
WORKING NUMBER IG-2
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6315

MODIFICATION NOTE (This Detail):

1. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH THE STANDARD GI-1A DETAIL "GUTTER INLET FOR TYPE 2 CURB STORM SEWER ALONG ROADWAY" (ABOVE). THIS DETAIL SHOWS ONLY THE MODIFICATIONS REQUIRED FOR THIS PROJECT. ALL OTHER ASPECTS OF THE ORIGINAL DETAIL SHALL REMAIN UNCHANGED AND IN FULL EFFECT AND VIRTUE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITY CALCULATION ADJUSTMENTS AS A RESULT OF THIS DETAIL.
3. SEE GRADING PLAN – NOTED AS 'GI-1A MOD.'



PLAN



SECTION 'B-B'

SPECIAL DESIGN GI-1A MODIFIED DETAIL
SCALE: 1" = 1'

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

STORM SEWER DETAILS – GUTTER INLET

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES | Checked by: SEM | Scale: AS NOTED
Date: 01–30–2017 | Working No. GD4
Drawing No.: 11241 | Sheet No. C1.15

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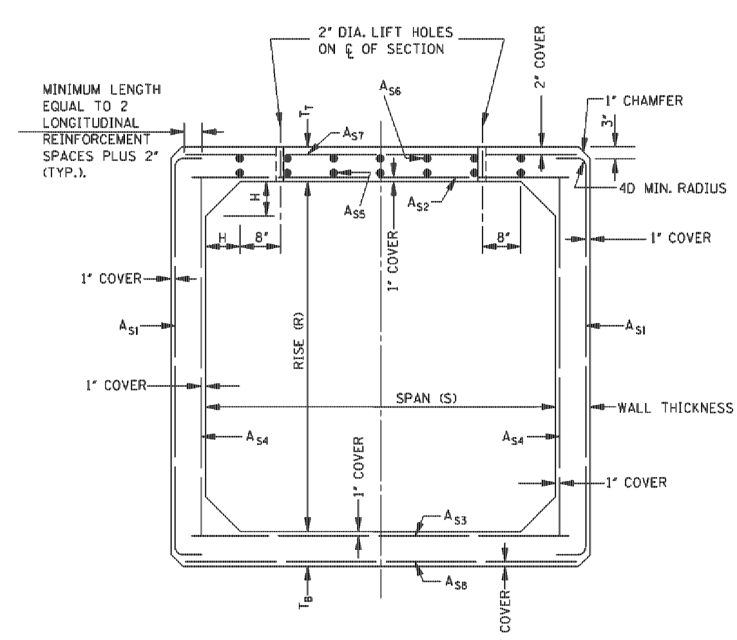
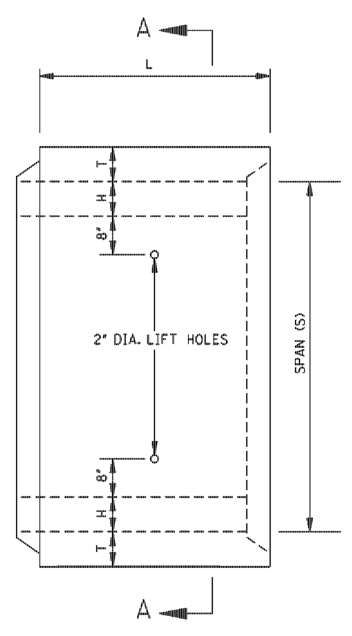
STATE	PROJECT NO.
MISS.	



SECTION A–A

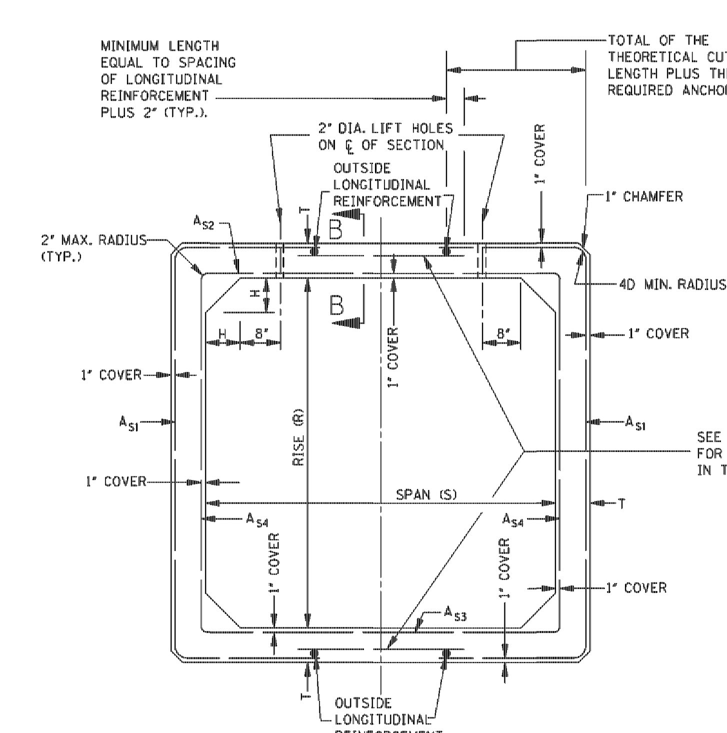


PLAN

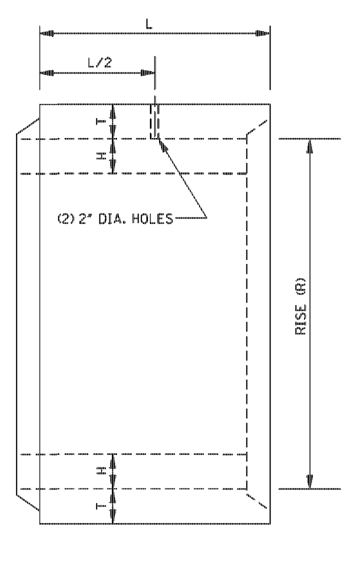
ASTM C 850 (AASHTO M 273) DESIGN FOR LESS THAN 2' OF COVER

SPAN (FT.)	RISE (FT.)	COVER EQUAL TO OR LESS THAN 2 FEET ASTM C 850 DESIGN (AASHTO M 273) TABLE 1 — MINIMUM THICKNESS (INCHES): TOP SLAB (T_T)	BOTTOM SLAB (T_B)	WALL (T_S)	COVER OF 2 FEET TO MAXIMUM AS SHOWN ASTM C 789 DESIGN (AASHTO M 259) TABLE 1 — TOP, BOTTOM & WALL THICKNESS (T) (INCHES)	MAXIMUM FILL HEIGHT TO TOP OF BOX (FEET)
4	2	7½	6	5	5	18
6	4	8	7	7	7	18
8	4	8	8	8	8	14
* 10	4	10	10	10	10	5
6	5	8	7	7	7	18
8	5	8	8	8	8	12
10	5	10	10	10	10	14
6	6	8	7	7	7	18
8	6	8	8	8	8	12
10	6	10	10	10	10	14
8	8	8	8	8	8	12
10	8	10	10	10	10	12

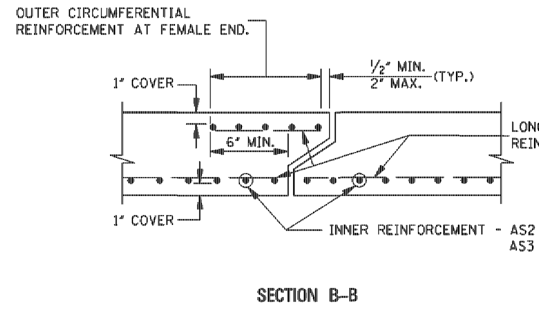
*NOTE: SPECIAL DESIGN (SEE NOTE 3).



SECTION A–A



ELEVATION



SECTION B–B

NOTE: TOP SLAB REINFORCEMENT SHOWN. BOTTOM SLAB REINFORCEMENT SIMILAR.

ASTM C 789 (AASHTO M 259) DESIGN FOR 2' OR MORE COVER

GENERAL NOTES:

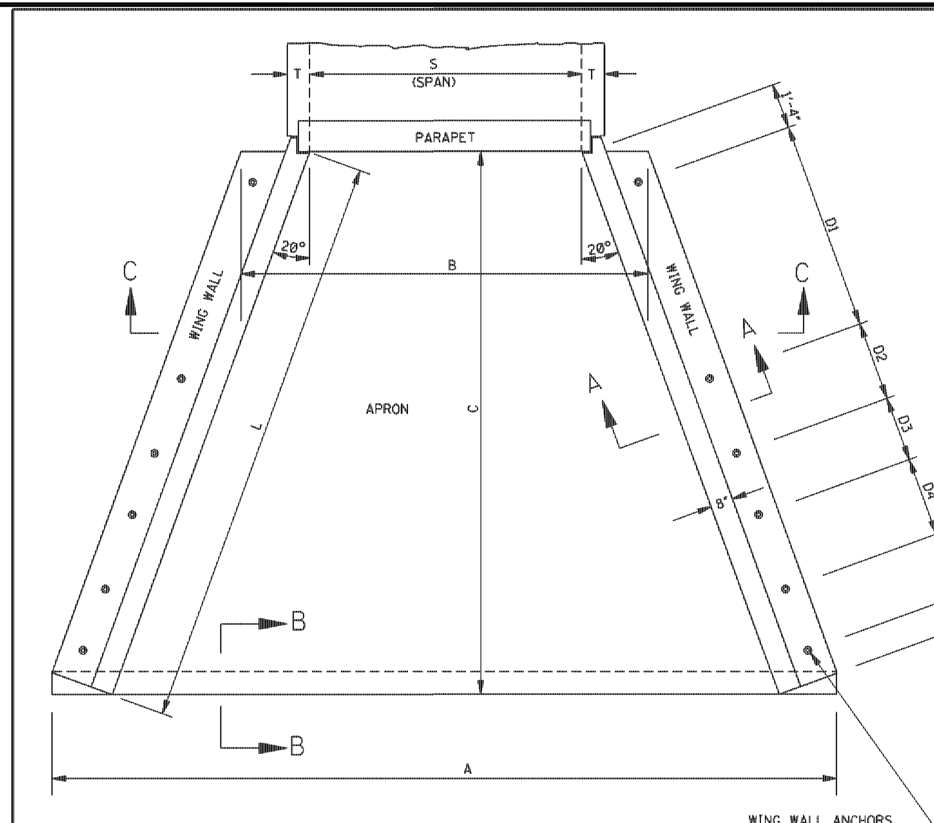
1. THE PRECAST REINFORCED CONCRETE BOX SECTION, EXCLUDING SPECIAL DESIGNS, SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATION OF ASTM C 850 (AASHTO M 273) (TABLE 1) FOR LESS THAN 2 FEET OF COVER SUBJECTED TO HIGHWAY LOADING OR ASTM C 789 (AASHTO M 259) (TABLE 1) FOR 2 FEET OR MORE EARTH COVER.
2. THE HAUNCH DIMENSION ("H") IS EQUAL TO THE WALL THICKNESS.
3. CONCRETE BOXES THAT ARE INDICATED AS SPECIAL DESIGNS HAVE BEEN APPROVED AND ARE ON FILE AT THE ROADWAY DESIGN AND MATERIALS DIVISION OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION, AND SHALL BE MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATIONS OF ASTM C 850 (AASHTO M 273) (TABLE 1) FOR LESS THAN 2 FEET OF COVER SUBJECTED TO HIGHWAY LOADING OR ASTM C 789 (AASHTO M 259) (TABLE 1) FOR 2 FEET OR MORE EARTH COVER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

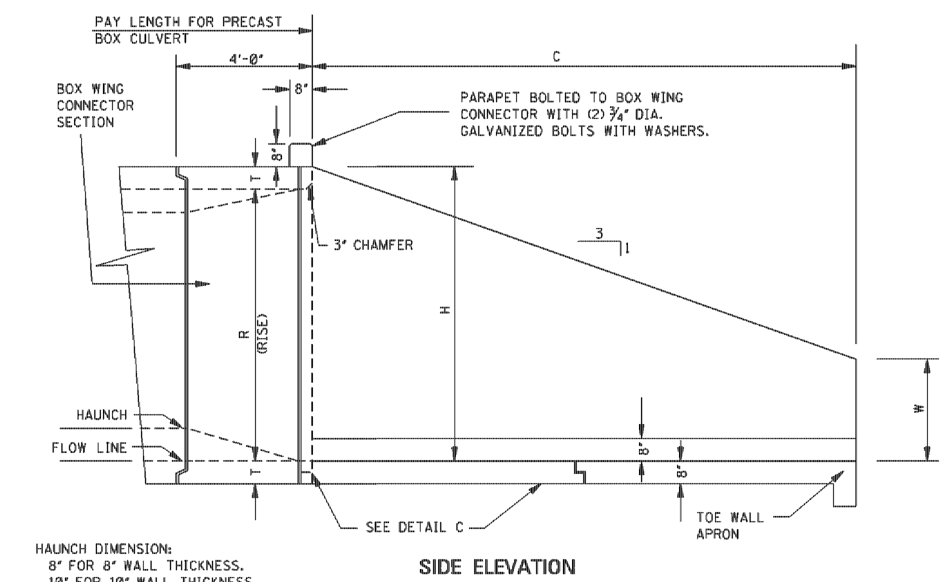
PRECAST CONCRETE BOX CULVERT

WORKING NUMBER PBC-1
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6353

STATE	PROJECT NO.
MISS.	



PLAN



SIDE ELEVATION

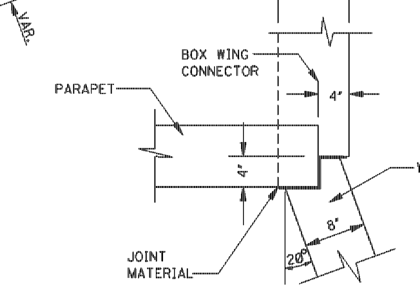
HAUNCH DIMENSION:
8" FOR 8" WALL THICKNESS.
10" FOR 10" WALL THICKNESS.

APRONS: FOR 4' & 5' RISE (ONE APRON UNIT REQUIRED): TOE WALL APRON LENGTH = 8'-0"; INSIDE APRON UNIT NOT REQUIRED.
FOR 6' RISE (TWO APRON UNITS REQUIRED): INSIDE APRON LENGTH = 8'-0"; TOE WALL APRON LENGTH = 4'-0".
FOR 8' RISE (THREE APRON UNITS REQUIRED): INSIDE APRON LENGTH = 8'-0"; MIDDLE APRON LENGTH = 4'-0"; TOE WALL APRON LENGTH = 4'-0".

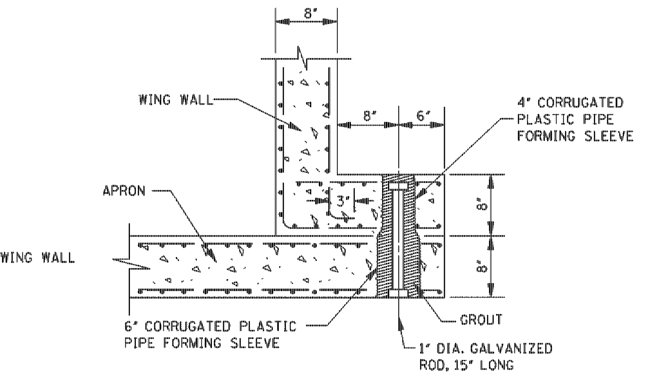
TABLE OF DIMENSIONS

SPAN S	RISE R	WALL THICKNESS T	APRON WIDTH A	APRON WIDTH B	APRON LENGTH C	WEIGHTS: INSIDE APRON TONS	MIDDLE APRON TONS	TOE WALL APRON TONS	WING HEIGHT H	WING LENGTH L	WING HEIGHT W	WEIGHT TONS	WING WALL ANCHORS: D1	D2	D3	D4	D5	REINFORCING STEEL*: S1	S2	S3	S4	S5	S6
4'	2'					NOT AVAILABLE																	
4'	4'					NOT AVAILABLE																	
6'	4'	8"	15'-3¼"	9'-11"	8'-0"	-	-	5.7	4'-8"	8'-4"	1'-10"	1.9	6'-2"	-	-	-	-	.10	.10	.10	.10	.10	.10
8'	4'	8"	17'-3¼"	11'-11"	8'-0"	-	-	6.5	4'-8"	8'-4"	1'-10"	1.9	6'-2"	-	-	-	-	.10	.10	.10	.10	.10	.10
10'	4'	10"	19'-3¼"	13'-11"	8'-0"	-	-	7.3	4'-8"	8'-4"	1'-10"	1.9	6'-2"	-	-	-	-	.10	.10	.10	.10	.10	.10
6'	5'	8"	15'-3¼"	9'-11"	8'-0"	-	-	5.7	5'-8"	8'-4"	2'-10"	2.3	6'-2"	-	-	-	-	.12	.10	.10	.10	.10	.10
8'	5'	8"	17'-3¼"	11'-11"	8'-0"	-	-	6.5	5'-8"	8'-4"	2'-10"	2.3	6'-2"	-	-	-	-	.12	.10	.10	.10	.10	.10
10'	5'	10"	19'-3¼"	13'-11"	8'-0"	-	-	7.3	5'-8"	8'-4"	2'-10"	2.3	6'-2"	-	-	-	-	.12	.10	.10	.10	.10	.10
6'	6'	8"	18'-2"	9'-11"	12'-0"	5.1	-	4.0	6'-8"	12'-7"	2'-5"	3.6	6'-2"	2'-4"	1'-11"	-	-	.20	.10	.10	.10	.10	.10
8'	6'	8"	20'-2"	11'-11"	12'-0"	5.9	-	4.5	6'-8"	12'-7"	2'-5"	3.6	6'-2"	2'-4"	1'-11"	-	-	.20	.10	.10	.10	.10	.10
10'	6'	10"	22'-2"	13'-11"	12'-0"	6.7	-	5.0	6'-8"	12'-7"	2'-5"	3.6	6'-2"	2'-4"	1'-11"	-	-	.20	.10	.10	.10	.10	.10
8'	8'	8"	23'-1"	11'-11"	16'-0"	5.9	3.8	5.2	8'-8"	16'-11"	3'-0"	5.9	6'-2"	2'-4"	1'-11"	2'-4"	1'-11"	.45	.10	.10	.10	.10	.10
10'	8'	10"	25'-1"	13'-11"	16'-0"	6.7	4.2	5.6	8'-8"	16'-11"	3'-0"	5.9	6'-2"	2'-4"	1'-11"	2'-4"	1'-11"	.45	.10	.10	.10	.10	.10

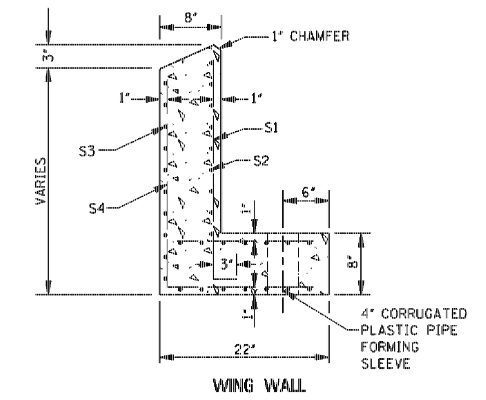
*REINFORCING STEEL SCHEDULE - SQUARE INCHES OF STEEL PER LINEAR FOOT OF WING.



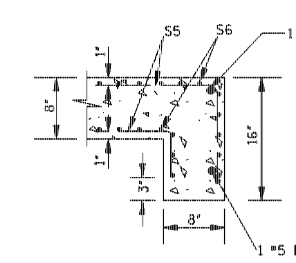
DETAIL A



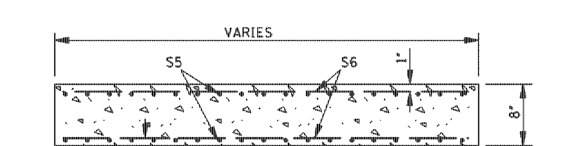
DETAIL B



WING WALL SECTION A–A



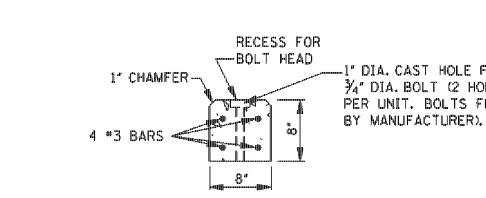
TOE WALL SECTION B–B



APRON SECTION C–C

GENERAL NOTES:

1. THE BOX WING CONNECTOR SECTION SHALL MEET THE DESIGN REQUIREMENT OF THE PRECAST CONCRETE BOX CULVERT TO WHICH IT IS ATTACHED. SEE SHEET PBC-1 FOR BOX CULVERT DETAILS.
2. CONCRETE DESIGN STRENGTH: 5000 PSI
3. REINFORCED STEEL: 75,000 LBS. YIELD STRENGTH.
4. GALVANIZATION FOR REQUIRED HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M 111.



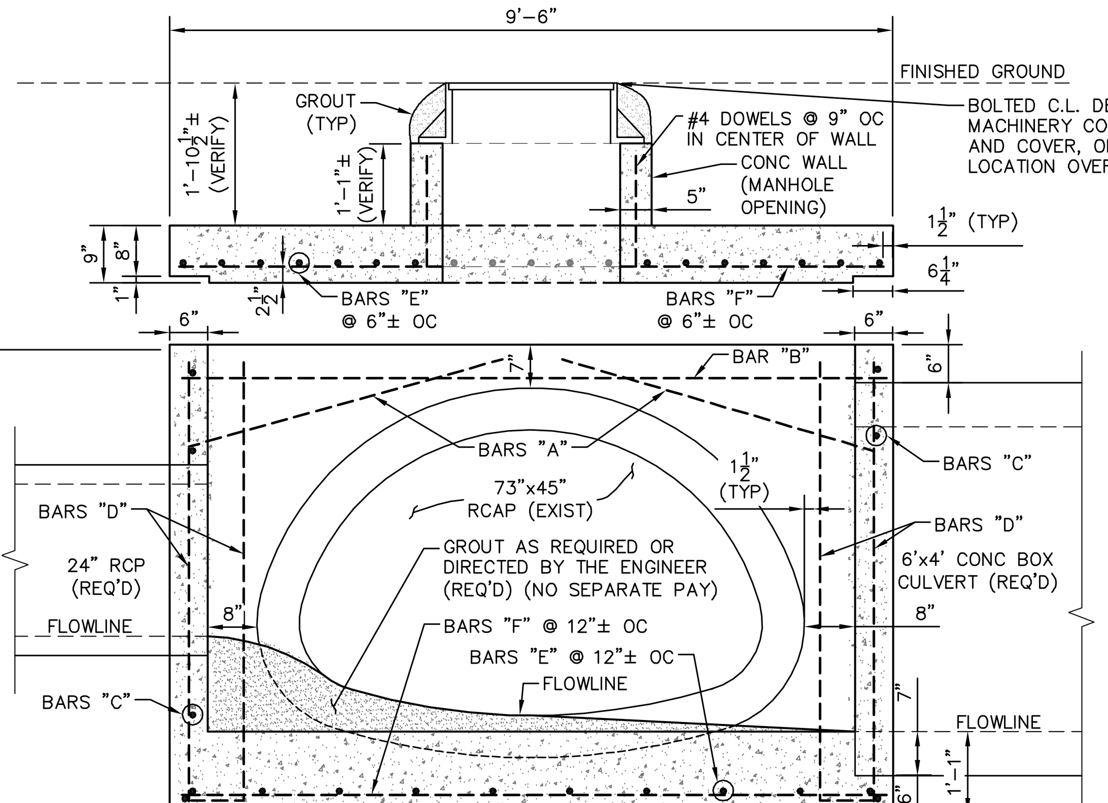
PARAPET DETAIL

TYPICAL APRON JOINT DETAIL C

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

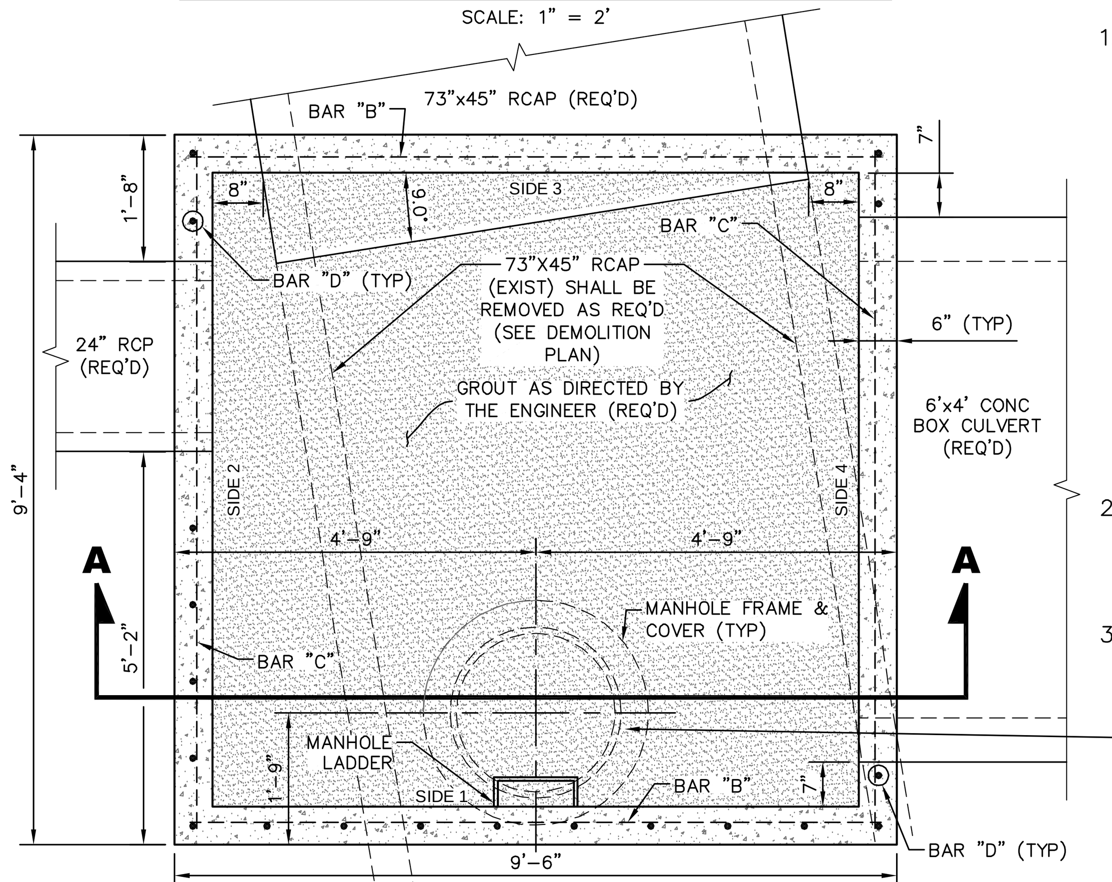
PRECAST CONCRETE BOX CULVERT END SECTIONS

WORKING NUMBER PBC-2
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6354



JUNCTION BOX (MODIFIED JB-1A) - SECTION A-A

SCALE: 1" = 2'



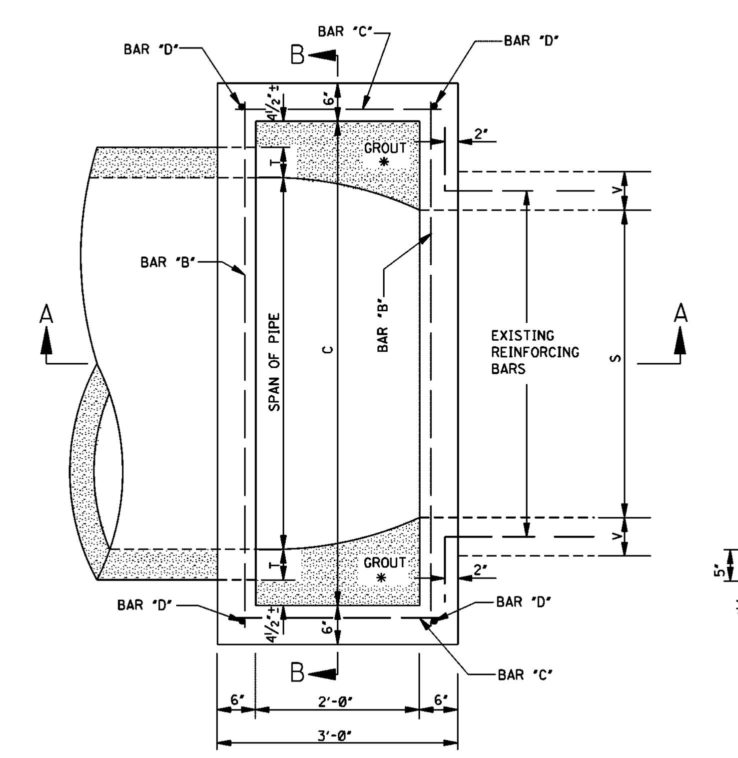
JUNCTION BOX (MODIFIED JB-1A) DETAIL PLAN VIEW

SCALE: 1" = 2'

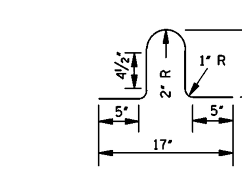
MODIFICATION NOTE (This Detail):

1. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH THE STANDARD JB–1A DETAIL "JUNCTION BOX FOR BOX CULVERT TO CONCRETE ARCH PIPE" (THIS SHEET). THIS DETAIL ALSO REQUIRES THE TOP FROM STANDARD JB–2 DETAIL "JUNCTION BOX FOR TRAFFIC LOAD" (FOUND ELSEWHERE IN THESE PLANS) THIS DETAIL SHOWS ONLY THE MODIFICATIONS REQUIRED FOR THIS PROJECT. ALL OTHER ASPECTS OF THE ORIGINAL DETAIL SHALL REMAIN UNCHANGED AND IN FULL EFFECT AND VIRTUE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITY CALCULATION ADJUSTMENTS AS A RESULT OF THIS DETAIL.
3. SEE GRADING PLAN – NOTED AS 'JB–1A MOD.'

STATE	PROJECT NO.
MISS.	

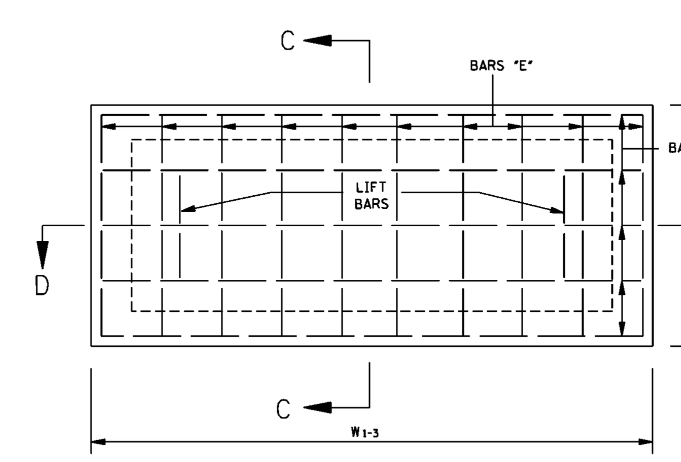


PLAN

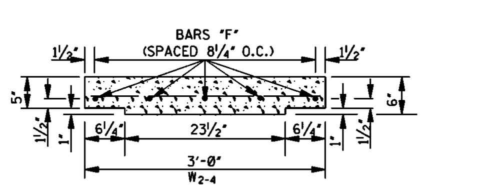


LIFT BAR

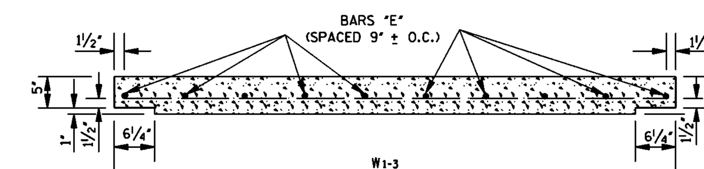
NOTE: LIFT BAR TO BE FABRICATED FROM A #4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.



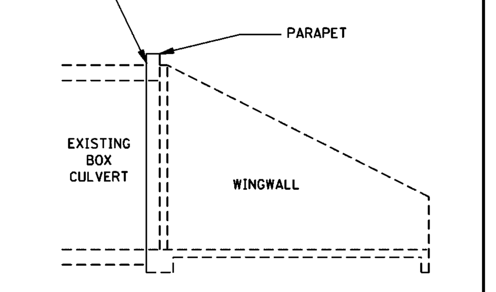
PLAN OF COVER



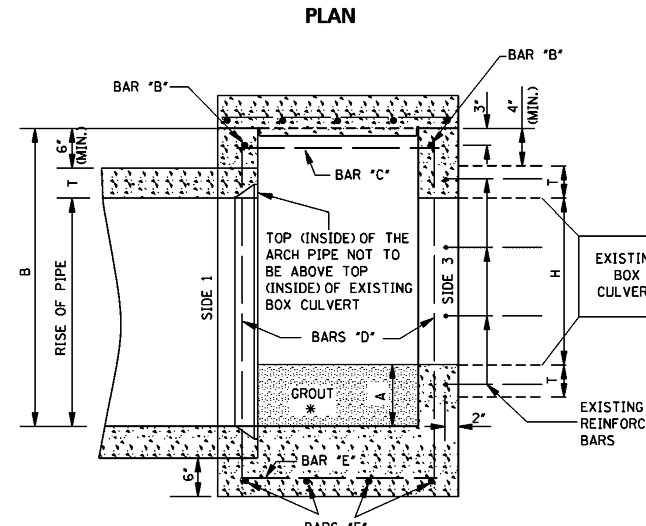
SECTION C–C



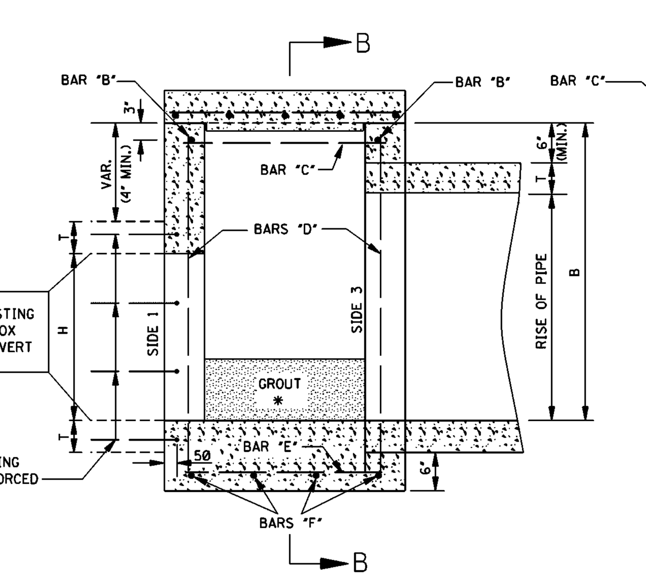
SECTION D–D



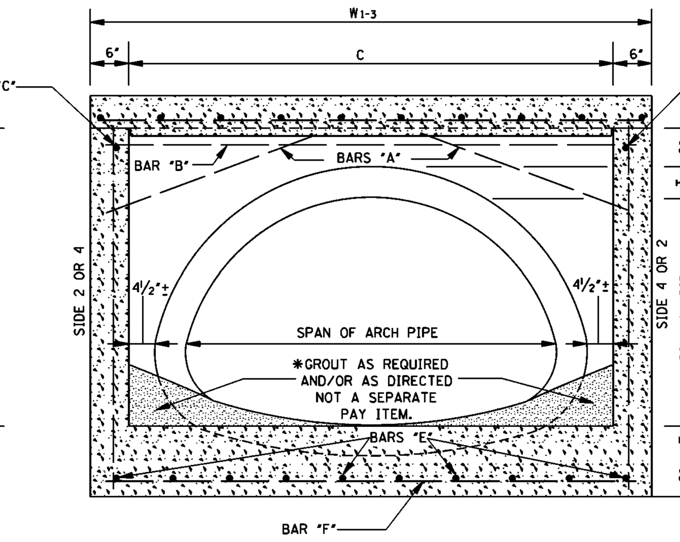
HEADWALL REMOVAL DETAILS



SECTION A–A DOWNSTREAM



SECTION A–A UPSTREAM



SECTION B–B

GENERAL NOTES:

1. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL APPLY TO ITEMS UNLESS OTHERWISE SPECIFIED.
2. THE QUANTITIES SHOWN WILL BE USED AS THE BASIS FOR PAYMENT UNLESS THIS DRAWING IS MODIFIED.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE SIZE #4 DEFORMED BARS.
4. SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
5. ESTIMATE AN ADDITIONAL 3.3 lbs. FOR 2 LIFT BARS.
6. CONCRETE QUANTITIES SHOWN HAVE BEEN ADJUSTED FOR BOX & PIPE OPENING DEDUCTIONS.

DIMENSIONS OF EXISTING BOX CULVERT: S	H	T	V	DIMENSIONS OF JUNCTION BOX REQUIRED: A	B	C	DIMENSIONS OF PRECAST COVER: W_{1-3}	W_{2-4}	DIMENSIONS OF ARCH PIPE REQUIRED: S	R	L	T	CLASS "B" STRUCTURAL CONCRETE (yd^3)	REINFORCING STEEL (lbs)	BAR LIST: "A"	"B"	"C"	"D"	"E"	"F"
2'	2'	6"	6"	0"	32½"	52"	5'-4"	3'	36"	23"	6'	3½"	1.532	78	2 @ 3'-1"	2 @ 4'-10"	2 @ 2'-6"	4 @ 3'-3"	16 @ 2'-6"	9 @ 4'-10"
3'	2'	6½"	6"	3"	37"	61"	6'-1"	3'	44"	27"	8'	4"	1.764	89	2 @ 3'-5"	2 @ 5'-7"	2 @ 2'-6"	4 @ 3'-8"	18 @ 2'-6"	9 @ 5'-7"
4'	2'	7"	6"	7"	41½"	69"	6'-9"	3'	51"	31"	8'	4½"	1.996	99	2 @ 3'-9"	2 @ 6'-3"	2 @ 2'-6"	4 @ 4'-1"	20 @ 2'-6"	9 @ 6'-3"
5'	2'	7½"	6"	12"	47"	77"	7'-5"	3'	58"	36"	8'	5"	2.258	105	2 @ 4'-1"	2 @ 6'-11"	2 @ 2'-6"	4 @ 4'-7"	20 @ 2'-6"	9 @ 6'-11"
3'	3'	6½"	6"	0"	45½"	69"	6'-9"	3'	51"	31"	8'	4½"	1.995	99	2 @ 3'-9"	2 @ 6'-3"	2 @ 2'-6"	4 @ 4'-5"	20 @ 2'-6"	9 @ 6'-3"
4'	3'	7"	6"	0"	47"	77"	7'-5"	3'	58"	36"	8'	5"	2.238	105	2 @ 4'-1"	2 @ 6'-11"	2 @ 2'-6"	4 @ 4'-7"	20 @ 2'-6"	9 @ 6'-11"
5'	3'	7½"	6½"	4"	51½"	85"	8'-1"	3'	65"	40"	8'	5½"	2.469	115	2 @ 4'-4"	2 @ 7'-7"	2 @ 2'-6"	4 @ 5'-0"	22 @ 2'-6"	9 @ 7'-7"
6'	3'	8"	6½"	9"	57"	94"	8'-10"	3'	73"	45"	8'	6"	2.767	126	2 @ 4'-9"	2 @ 8'-4"	2 @ 2'-6"	4 @ 5'-6"	24 @ 2'-6"	9 @ 8'-4"

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

JUNCTION BOX FOR BOX CULVERT TO CONCRETE ARCH PIPE

WORKING NUMBER JB-1A
ISSUE DATE: OCTOBER 1, 1998
SHEET NUMBER 6303

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

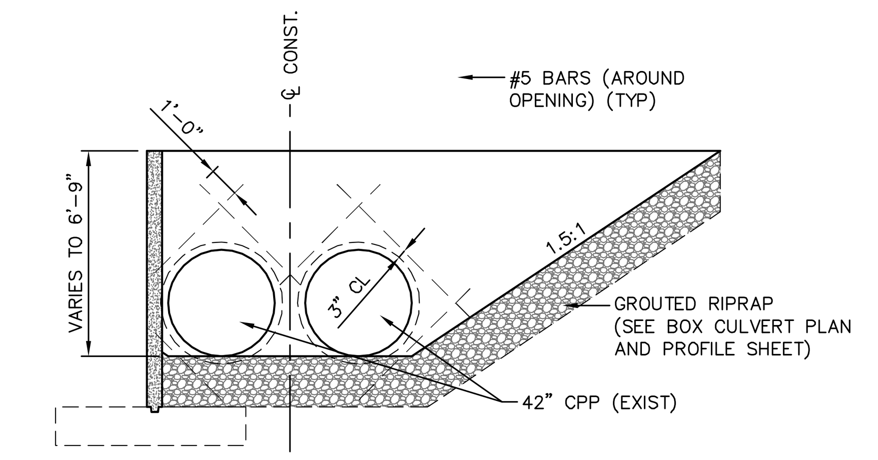
STORM SEWER DETAILS – BOX CULVERT

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

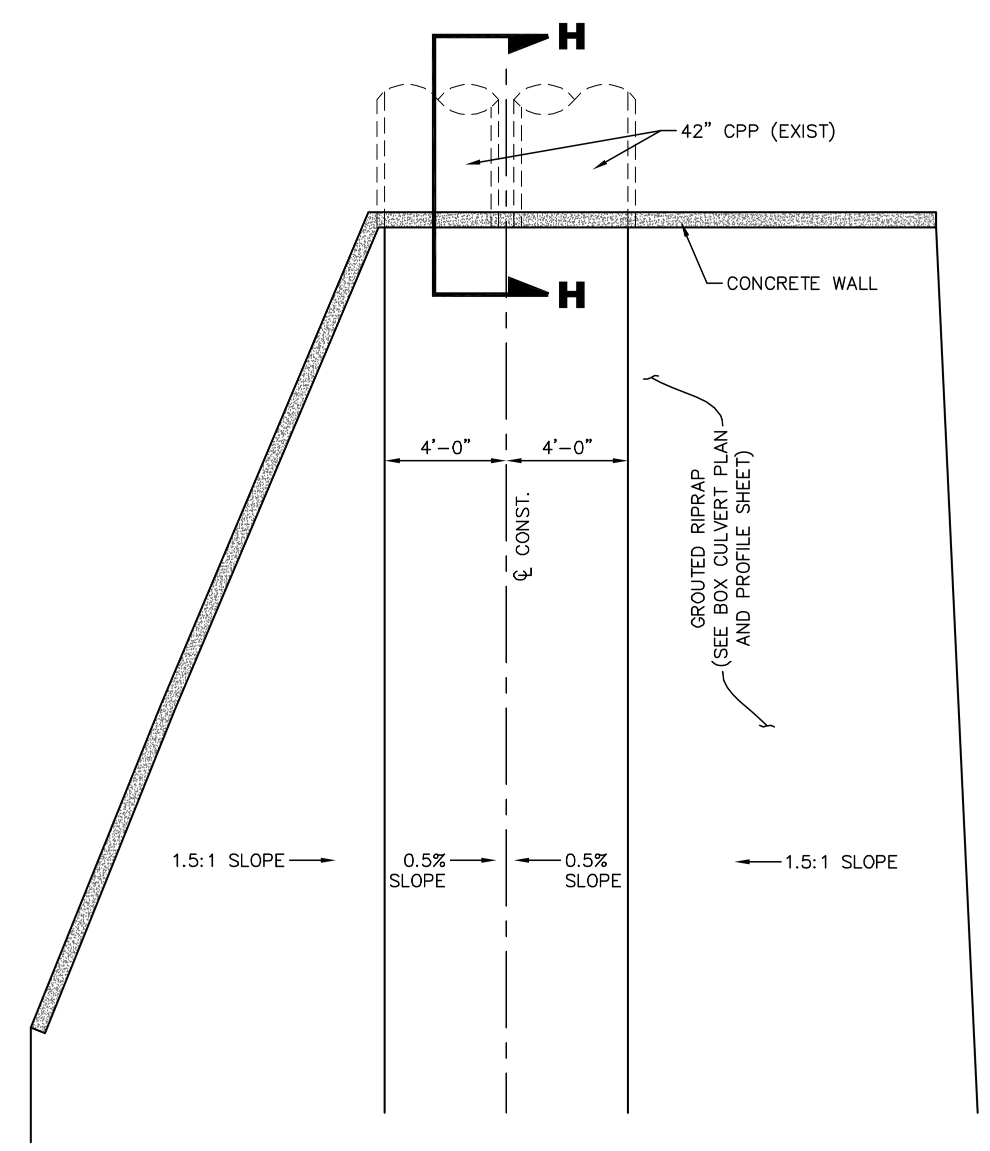
Drawn by: RES | Checked by: SEM | Scale: AS NOTED
Date: 01–30–2017 | Working No. GD5
Drawing No.: 11241 | Sheet No. C1.16

G:\PROJECTS\Hattiesburg_City of\11241 - Infrastructure Improvements at 30th Avenue and Chevy Chase\11241\CAD Files\11241_Grading_dtls_lset.dwg, GD5, 2/1/2017 9:41:32 AM



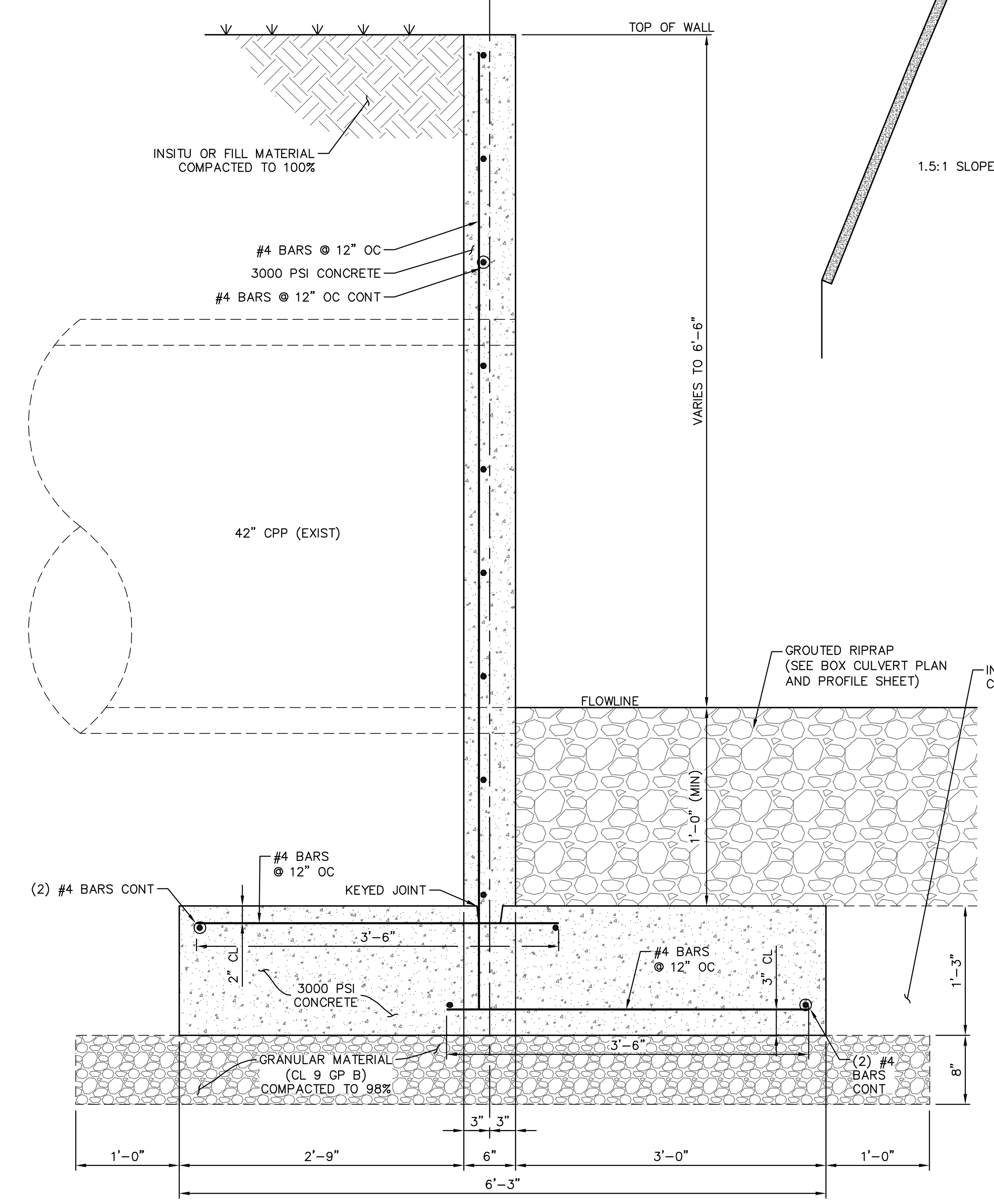
ELEVATION

SCALE: 1" = 5'



PLAN

SCALE: 1" = 5'

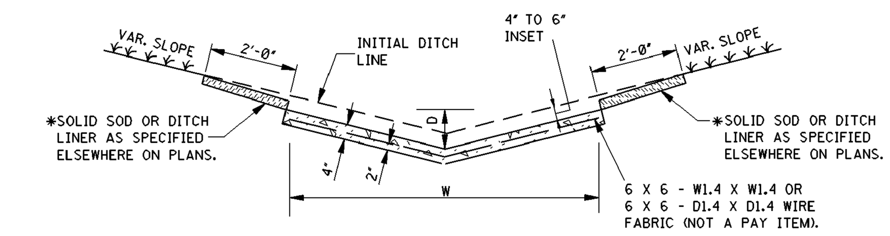


SECTION 'H-H'

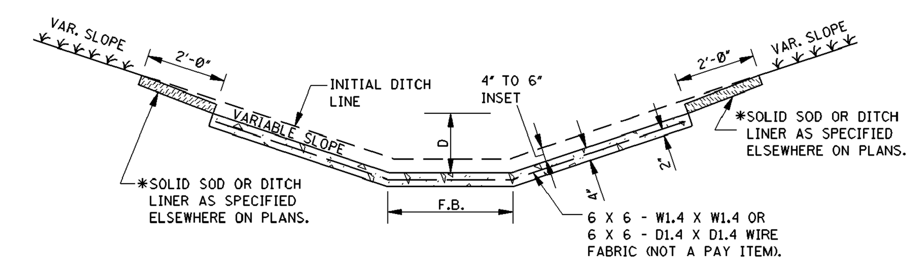
SCALE: 1" = 5'

CONCRETE HEADWALL DETAILS

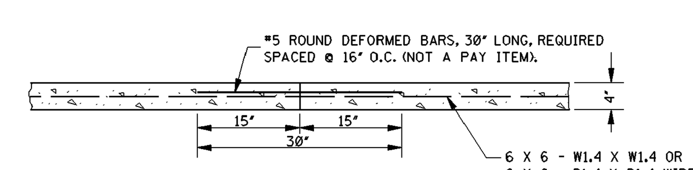
SCALE: AS NOTED



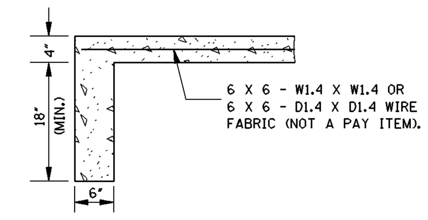
"V" TYPE SECTION



FLAT BOTTOM SECTION



DETAIL OF CONSTRUCTION JOINT



DETAIL OF TOE WALL

NOTE: TOE WALL REQUIRED UPSTREAM AND DOWNSTREAM.

CONCRETE PAVED DITCH

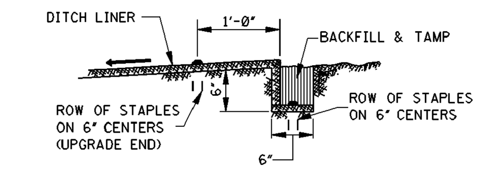
NOTES:

1. CONCRETE PAVED DITCHES SHALL BE GROOVED AT 20'-0" INTERVALS. THE GROOVES SHALL BE CUT TO A DEPTH OF NOT LESS THAN 1".
2. DIMENSIONS D & W ARE AS FOLLOWS:
   D(MINIMUM) = 6"
   D(NOMINAL) = 9"
   W(MINIMUM) = 24"
3. CHAIR SUPPORTS FOR THE WIRE MESH WILL NOT BE REQUIRED. HOWEVER, THE CONTRACTOR SHALL PLACE THE WIRE MESH IN A SATISFACTORY AND WORKMANLIKE MANNER TO ENSURE THAT THE FINAL POSITION IS REASONABLY NEAR THE POSITION INDICATED.

*4. CENTER ROW OF STAPLES MAY BE OMITTED ON DITCH LINER.

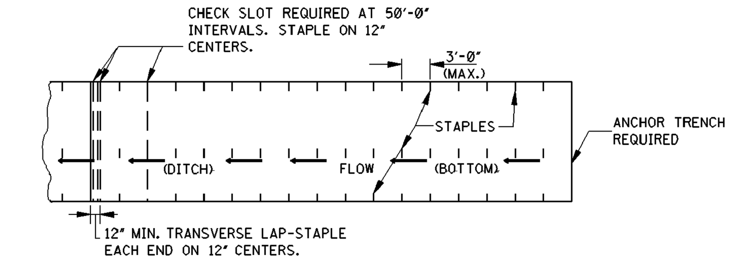
PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/20/2010 9:53 AM DT-1.DGN

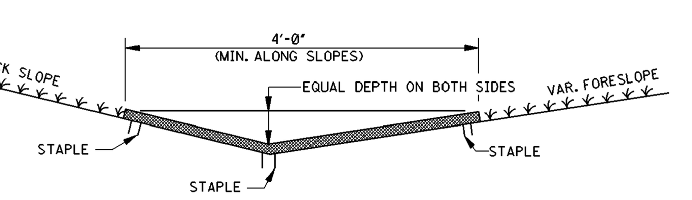


ANCHOR TRENCH DETAIL

NOTE: ANCHOR TRENCH REQUIRED AT THE BEGINNING AND ENDING OF EACH AREA TO BE COVERED, EXCEPT DOWNSTREAM END ADJOINING A STRUCTURE.



PLAN



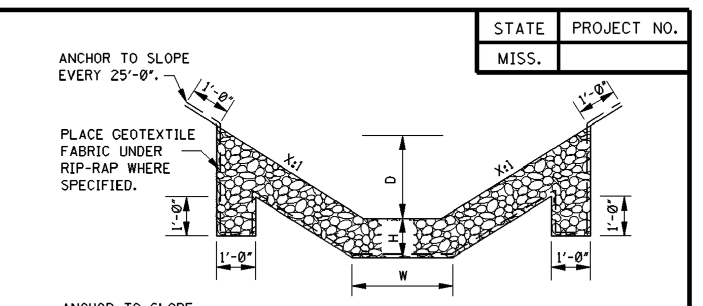
SECTION

DITCH LINER TREATMENT

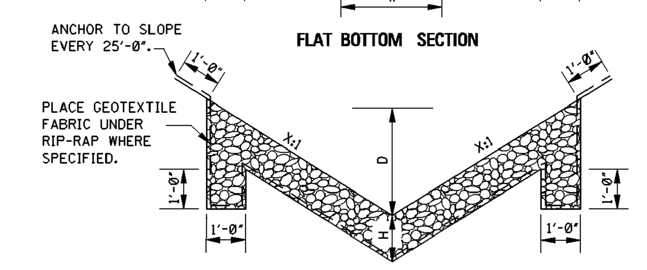
(EXCELSIOR BLANKET, JUTE MESH OR EROSION CONTROL FABRIC)

NOTE: DITCHES TREATED WITH DITCH LINER WILL BE VEGETATED PRIOR TO TREATMENT, UNLESS OTHERWISE INDICATED.

STATE	PROJECT NO.
MISS.	



FLAT BOTTOM SECTION



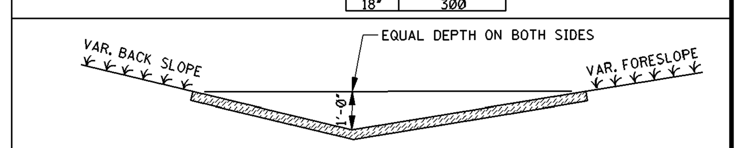
"V" TYPE SECTION

RIP-RAP TREATMENT

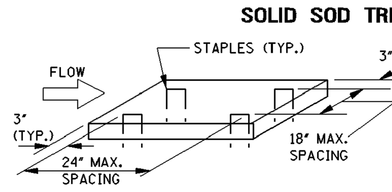
NOTES:

1. DIMENSIONS D, W AND X ARE VARIABLE AND ARE SHOWN ELSEWHERE ON THE PLANS.
2. THE RIP-RAP SIZE AND MINIMUM DEPTH "H" FOR RIP-RAP TREATMENT ARE AS FOLLOWS.

RIP-RAP SIZE & MINIMUM DEPTH "H"	
H (In)	RIP-RAP SIZE (lbs)
12"	100
18"	300



SOLID SOD TREATMENT



NOTE: SOLID SOD (STRIPS OR BLOCKS) ARE TO BE STAPLED, PINNED, PEGGED OR STAKED AT THE FOUR CORNERS OR AT THE MAXIMUM SPECIFIED SPACING.

GENERAL NOTE:

1. FOR LOCATION OF APPROPRIATE DITCH TREATMENTS, SEE PLAN SHEETS AS DENOTED BY THE FOLLOWING LEGEND OR AS DIRECTED BY THE ENGINEER:
   - DITCH LINER
   - SOLID SOD
   - CONCRETE PAVED DITCH
   - RIP-RAP

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF TYPICAL DITCH TREATMENTS

BY | REVISION | DATE

WORKING NUMBER DT-1

SHEET NUMBER

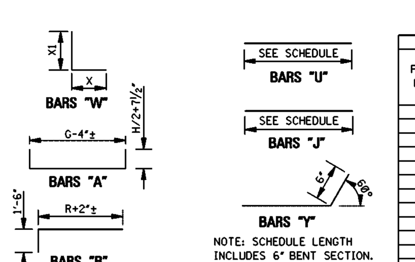
FILENAME: EROSION CONTROL\DT-1.DGN

DESIGN TEAM ____ CHECKED ____ DATE ____

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

STATE	PROJECT NO.
MISS.	



BAR BENDING DETAILS

NOTE: WHENEVER THE COMPUTED LENGTH OF BAR EXCEEDS 30', THE SCHEDULED LENGTH INCLUDES A 12" LAP. ALL BARS ARE #4 EXCEPT BARS "W". SEE SCHEDULE FOR SIZE OF BARS "W".

DIMENSIONS AND REINFORCING COMMON TO FLARED HEADWALLS FOR SINGLE, DOUBLE AND TRIPLE LINE PIPE CULVERTS

PIPE DIA	MIN THK "T"	C	H	R	S1	S2	U	W	U NO	U LGTH	W1 NO	W1 SIZE	W1 X	W1 X1	W1 LGTH	W2 NO	W2 SIZE	W2 X	W2 X1	W2 LGTH	W3 NO	W3 SIZE	W3 X	W3 X1	W3 LGTH	W4 NO	W4 SIZE	W4 X	W4 X1	W4 LGTH
15	2¼	7	2-5	2-7	2-8¼	2-11¾	6	0-8	4	2-6	4	#4	1-1	1-8	2-9	4	#4	1-0	1-0	2-0										
18	2½	7	2-9½	3-0	3-2¼	3-5⅝	6	0-10	4	3-2	4	#4	1-3	2-0	3-3	4	#4	1-0	1-0	2-0										
24	3	7	3-4½	3-10	4-1⅜	4-5⅛	6	1-0	4	4-2	4	#4	1-8	2-7	4-3	4	#4	1-4	1-7	2-11	2	#4	1-1	1-2	2-3					
30	3½	7	3-11½	4-6	4-10⅜	5-2⅜	6	1-3	4	4-11	4	#4	2-1	3-2	5-3	4	#4	1-7	2-2	3-9	2	#4	1-1	1-2	2-3					
36	4	7½	4-6½	5-3	5-9¼	6-0¾	6	1-5	4	5-10	4	#5	2-5	3-9	6-2	4	#4	2-0	2-9	4-9	6	#4	1-5	1-9	3-2					
42	4½	7½	5-1½	5-11	6-6½	6-10	6	1-8	4	6-7	4	#5	2-11	4-4	7-3	4	#4	2-3	3-4	5-7	4	#4	1-7	2-4	3-11	4	#4	1-3	1-10	3-1
48	5	7½	5-8½	6-8	7-4⅛	7-8⅞	6	1-10½	4	7-5	4	#5	3-1	4-10	7-11	4	#5	2-8	3-10	6-6	4	#4	2-0	2-10	4-10	4	#4	1-3	1-10	3-1
54	5½	8	6-3½	7-4	8-2⅛	8-5⅝	6	2-1	4	8-3	4	#5	3-6	5-4	8-10	4	#5	3-0	4-4	7-4	4	#4	2-3	3-4	5-7	6	#4	1-8	2-4	4-0
60	6	8	6-10½	8-2	9-1¾	9-5⅛	6	2-3	4	9-2	4	#5	3-10	5-11	9-9	4	#5	3-3	4-11	8-2	4	#5	2-6	3-11	6-5	6	#4	1-10	2-11	4-9
66	6½	8	7-7	9-2	10-3¼	10-7	6½	2-6½	4	10-3	4	#6	4-3	6-8	10-11	4	#5	3-8	5-8	9-4	4	#5	3-2	4-8	7-10	6	#5	2-7	3-8	6-3
72	7	8	8-2	9-10	11-0¼	11-4¼	7	2-9	4	10-9	4	#6	4-9	7-5	12-2	4	#6	4-2	6-5	10-7	4	#5	3-6	5-5	8-11	6	#5	2-10	4-5	7-3
84	8	8	9-4	11-2	12-6⅛	12-10⅞	8	3-2	4	12-6	4	#6	5-5	8-7	14-0	4	#6	5-2	7-7	12-9	4	#6	4-6	6-7	11-1	6	#5	3-9	5-7	9-4
96	9	8	10-5	12-7	14-1¾	14-6⅜	8	3-7	4	14-2	4	#7	5-7	9-6	15-1	4	#7	5-7	8-6	14-1	4	#6	5-0	7-6	12-6	6	#5	4-4	6-6	10-10
108	10	8	11-7	14-1	15-10	16-3⅛	9	4-0	4	15-10	4	#7	6-5	10-9	17-2	6	#7	6-5	9-9	16-2	4	#7	5-10	8-9	14-7	6	#6	5-2	7-9	12-11

PIPE DIA	W5 NO	W5 SIZE	W5 X	W5 X1	W5 LGTH	W6 NO	W6 SIZE	W6 X	W6 X1	W6 LGTH	W7 NO	W7 SIZE	W7 X	W7 X1	W7 LGTH	W8 NO	W8 SIZE	W8 X	W8 X1	W8 LGTH
15																				
18																				
24																				
30																				
36																				
42																				
48																				
54																				
60	2	#4	1-7	2-5	4-0															
66	4	#4	1-10	2-8	4-6															
72	4	#4	2-0	3-5	5-5	2	#4	1-8	2-5	4-1										
84	4	#5	3-2	4-7	7-9	4	#5	2-6	3-7	6-1										
96	2	#5	3-8	5-6	9-2	4	#5	3-0	4-6	7-6	4	#5	2-5	3-6	5-11					
108	4	#5	4-6	6-9	11-3	4	#5	3-10	5-9	9-7	2	#5	3-2	4-9	7-11	4	#5	2-8	3-9	6-5

PIPE DIA	Y1 NO	Y1 LGTH	Y2 NO	Y2 LGTH	Y3 NO	Y3 LGTH	Y4 NO	Y4 LGTH	Y5 NO	Y5 LGTH	Y6 NO	Y6 LGTH	Y7 NO	Y7 LGTH	Y8 NO	Y8 LGTH
15	2	2-7	2	3-8												
18	2	2-7	2	4-2												
24	2	2-7	2	4-7												
30	2	2-7	2	4-7	2	5-9										
36	2	2-7	2	4-7	4	6-7										
42	2	2-7	2	4-7	2	6-7	2	7-7								
48	2	2-7	2	4-7	2	6-7	4	8-5								
54	2	2-7	2	4-7	2	6-7	6	9-3								
60	2	2-7	2	4-7	2	6-7	2	9-7	4	10-5						
66	2	2-7	2	4-7	2	6-7	2	9-7	6	11-4						
72	2	2-7	2	4-7	2	6-7	2	9-7	2	11-7	4	12-2				
84	2	2-7	2	4-7	2	6-7	2	9-7	2	11-7	8	13-8				
96	2	2-7	2	4-7	2	6-7	2	9-7	2	11-7	2	13-4	6	15-2		
108	2	2-4	2	4-7	2	6-7	2	9-7	2	11-7	2	14-1	2	15-4	6	16-10

GENERAL NOTES:

1. SPECIFICATIONS: MISSISSIPPI DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
2. ALL CONCRETE SHALL BE CLASS "B".
3. ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
4. EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE MDOT SPECIFICATIONS.
5. ALL LENGTHS AND QUANTITIES IN THE TABLES HEREON ARE BASED ON CONCRETE PIPE.
6. QUANTITIES SHOWN SHALL BE THE BASIS FOR FINAL PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR SINGLE LINE PIPE CULVERT

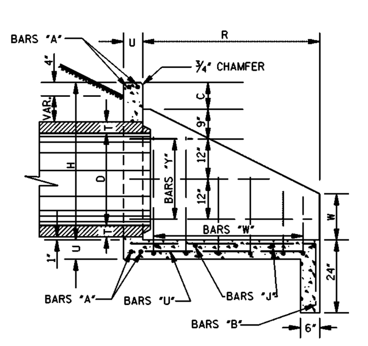
PIPE DIA	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH	J13 NO	J13 LGTH	J14 NO	J14 LGTH	PAY QTY 1-HEADWALL CONC CU YDS	STEEL LBS
15	-	-	-	3-4⅞	5-2¾	2-3	-	4	6-8	4	4-3	2	2-8	2	1-10	1	3-9	1	4-11	1	5-6																							0.67	73
18	-	-	-	3-7⅞	5-11⅝	2-6	-	4	7-3	5	4-8	2	3-0	2	2-0	1	3-11	1	5-1	1	6-3	1	6-3																					0.84	88
24	-	-	-	4-2⅞	7-6⅛	3-1	-	4	8-5	5	5-6	2	3-7	2	2-3	1	4-6	1	5-8	1	6-10	1	8-0	1	7-9																			1.19	114
30	-	-	-	4-10⅜	8-10⅞	3-8½	-	4	9-8	6	6-2	2	4-2	2	2-6	1	5-2	1	6-4	1	7-6	1	8-8	1	9-0																			1.58	140
36	-	-	-	5-4⅞	10-3¾	4-3	-	4	10-9	7	6-11	2	4-9	2	2-9	1	5-8	1	6-10	1	8-0	1	9-2	1	10-4	1	10-6																	2.02	181
42	-	-	-	5-11⅞	11-8	4-10	-	4	11-11	7	7-7	2	5-4	2	3-0	1	6-3	1	7-5	1	8-7	1	9-9	1	10-11	1	12-1	1	11-9															2.50	234
48	-	-	-	6-6⅞	13-1⅜	5-5	-	4	13-1	8	8-4	2	5-11	2	3-3	1	6-10	1	8-0	1	9-2	1	10-4	1	11-6	1	12-8	1	13-3															3.07	271
54	-	-	-	7-2⅞	14-6⅝	6-1	-	4	14-4	8	9-0	2	6-6	2	3-6	1	7-6	1	8-8	1	9-10	1	11-0	1	12-2	1	13-4	1	14-6	1	14-9													3.65	336
60	-	-	-	7-9⅞	16-1⅛	6-8	-	4	15-6	9	9-10	2	7-1	2	3-9	1	8-1	1	9-3	1	10-5	1	11-7	1	12-9	1	13-11	1	15-1	1	16-3	1	16-3											4.35	397
66	-	-	-	8-6	17-10	7-3	-	4	16-11	9	10-10	2	7-10	2	4-3	1	8-9	1	10-0	1	11-2	1	12-4	1	13-6	1	14-7	1	15-9	1	16-11	1	18-0	1	18-0									5.71	513
72	-	-	-	9-2⅛	19-2¼	7-10	-	4	18-2	10	11-6	2	8-6	2	4-7	1	9-5	1	10-7	1	11-9	1	12-11	1	14-1	1	15-3	1	16-5	1	17-7	1	18-8	1	19-6									7.01	594
84	4-0	17-0	2-0	10-6½	21-10¾	9-0	-	4	20-8	11	12-10	2	9-8	2	5-3	1	10-9	1	11-11	1	13-1	1	14-3	1	15-5	1	16-7	1	17-9	1	18-11	1	20-1	1	21-3	2	22-4							9.82	801
96	4-3	18-2	2-0	11-7	24-8⅜	10-2	-	4	22-11	12	14-3	2	10-9	2	5-9	1	12-0	1	13-2	1	14-4	1	15-6	1	16-8	1	17-10	1	19-0	1	20-2	1	21-4	1	22-6	1	23-8	1	24-10	1	24-11			12.16	980
108	4-10	20-10	2-0	12-11⅛	27-7⅛	11-4	-	4	25-5	14	15-9	2	12-0	2	6-4	1	13-2	1	14-4	1	15-6	1	16-8	1	17-10	1	19-0	1	20-2	1	21-4	1	22-6	1	23-8	1	24-10	1	26-0	1	27-2	1	27-10	16.66	1333

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR DOUBLE LINE PIPE CULVERT

PIPE DIA	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH	J13 NO	J13 LGTH	J14 NO	J14 LGTH	PAY QTY 1-HEADWALL CONC CU YDS	STEEL LBS
15	-	-	-	5-11⅞	7-9¾	4-10	1-0	4	9-3	7	4-3	3	2-8	4	1-10	1	6-3	1	7-5	1	8-1																							0.97	98
18	-	-	-	6-5⅞	8-9⅝	5-4	1-0	4	10-1	8	4-8	3	3-0	4	2-0	1	6-9	1	7-11	1	9-1	1	9-1																					1.20	117
24	-	-	-	7-7⅞	10-11⅛	6-6	1-0	4	11-10	9	5-6	3	3-7	4	2-3	1	7-11	1	9-1	1	10-3	1	11-5	1	11-2																			1.69	155
30	-	-	-	9-1⅞	13-2⅜	8-0	1-3	4	13-11	10	6-2	4	4-2	4	2-6	1	9-6	1	10-8	1	11-9	1	12-11	1	13-3																			2.28	191
36	-	-	-	10-5⅞	15-4¾	9-4	1-6	4	15-10	12	6-11	4	4-9	4	2-9	1	10-9	1	11-11	1	13-1	1	14-3	1	15-5	1	15-7																	2.94	249
42	-	-	-	11-10⅞	17-7	10-9	1-9	4	17-10	13	7-7	4	5-4	4	3-0	1	12-2	1	13-4	1	14-6	1	15-8	1	16-10	1	18-0	1	17-8															3.68	319
48	-	-	-	13-3⅞	19-10⅜	12-2	2-0	4	19-10	15	8-4	4	5-11	4	3-3	1	13-7	1	14-9	1	15-11	1	17-1	1	18-3	1	19-5	1	20-0															4.54	372
54	-	-	-	14-10⅞	22-2⅝	13-9	2-3	4	22-0	16	9-0	5	6-6	4	3-6	1	15-2	1	16-4	1	17-6	1	18-8	1	19-10	1	21-0	1	22-2	1	22-5													5.44	464
60	-	-	-	16-3⅞	24-7⅛	15-2	2-6	4	24-0	17	9-10	5	7-1	4	3-9	1	16-7	1	17-9	1	18-11	1	20-1	1	21-3	1	22-5	1	23-7	1	24-9	1	24-9											6.51	543
66	-	-	-	17-10	27-2	16-7	2-9	4	26-3	18	10-10	5	7-10	4	4-3	1	18-1	1	19-3	1	20-4	1	21-6	1	22-8	1	23-10	1	25-0	1	26-2	2	27-4											8.52	685
72	-	-	-	19-4⅛	29-4¼	18-0	3-0	4	28-4	20	11-6	5	8-6	4	4-7	1	19-7	1	20-9	1	21-11	1	23-1	1	24-3	1	25-5	1	26-7	1	27-9	1	28-10	1	29-8									10.49	789
84	3-0	28-10	13-10	22-4½	33-8¾	21-10	3-6	4	33-6	23	12-10	6	9-8	4	5-3	1	22-7	1	23-9	1	24-11	1	26-1	1	27-3	1	28-5	1	29-7	1	31-9	1	32-11	1	34-1	2	35-2							14.34	1070
96	3-0	31-8	15-6	25-1	38-2⅜	23-8	4-0	4	37-5	26	14-3	7	10-9	4	5-9	1	25-6	1	26-8	1	27-10	1	29-0	1	31-2	1	32-4	1	33-6	1	34-8	1	35-10	1	37-0	1	38-2	1	39-4	1	39-5			17.79	1319
108	3-0	36-0	17-2	28-1⅛	42-9⅛	26-6	4-6	4	41-7	29	15-9	7	12-0	4	6-4	1	28-4	1	29-6	1	31-8	1	32-10	1	34-0	1	35-2	1	36-4	1	37-6	1	38-8	1	39-10	1	41-0	1	42-2	1	43-4	1	44-0	24.00	1733

DIMENSIONS AND REINFORCING FOR FLARED HEADWALL FOR TRIPLE LINE PIPE CULVERT

PIPE DIA	A	B	E	G	X	Y	Z	A NO	A LGTH	B NO	B LGTH	C NO	C LGTH	D NO	D LGTH	J1 NO	J1 LGTH	J2 NO	J2 LGTH	J3 NO	J3 LGTH	J4 NO	J4 LGTH	J5 NO	J5 LGTH	J6 NO	J6 LGTH	J7 NO	J7 LGTH	J8 NO	J8 LGTH	J9 NO	J9 LGTH	J10 NO	J10 LGTH	J11 NO	J11 LGTH	J12 NO	J12 LGTH	J13 NO	J13 LGTH	J14 NO	J14 LGTH	PAY QTY 1-HEADWALL CONC CU YDS	STEEL LBS
15	-	-	-	8-6⅞	10-4¾	7-5	1-0	4	11-10	10	4-3	4	2-8	6	1-10	1	8-9	1	9-11	1	10-6																							1.27	122
18	-	-	-	9-3⅞	11-7⅝	8-2	1-0	4	12-11	11	4-8	4	3-0	6	2-0	1	9-7	1	10-9	1	11-11	1	11-11																					1.56	146
24	-	-	-	11-0⅞	14-4⅛	9-11	1-0	4	15-3	13	5-6	4	3-7	6	2-3	1	11-4	1	12-6	1	13-8	1	14-10	1	14-7																			2.19	195
30	-	-	-	13-5⅜	17-5⅞	12-3½	1-3	4	18-3	14	6-2	6	4-2	6	2-6	1	13-9	1	14-11	1	16-1	1	17-2	1	17-4																			2.98	242
36	-	-	-	15-6⅞	20-5¾	14-5	1-6	4	20-11	17	6-11	6	4-9	6	2-9	1	15-10	1	17-0	1	18-2	1	19-4	1	20-6	1	20-8																	3.86	312
42	-	-	-	17-9⅞	23-6	16-8	1-9	4	23-9	19	7-7	6	5-4	6	3-0	1	18-1	1	19-3	1	20-5	1	21-7	1	22-9	1	23-11	1	23-7															4.86	404
48	-	-	-	20-0⅞	26-7⅜	18-11	2-0	4	26-7	22	8-4	6	5-11	6	3-3	1	20-4	1	21-6	1	22-8	1	23-10	1	25-0	1	26-2	1	26-9															6.01	473
54	-	-	-	22-6⅞	29-10⅝	21-5	2-3	4	29-8	24	9-0	8	6-6	6	3-6	1	22-10	1	24-0	1	25-2	1	26-4	1	27-6	1	28-8	1	29-10	1	31-1													7.23	592
60	-	-	-	24-9⅞	33-1⅛	23-8	2-6	4	33-6	25	9-10	8	7-1	6	3-9	1	25-1	1	26-3	1	27-5	1	28-7	1	29-9	1	31-11	1	33-1	1	34-3													8.67	691
66	-	-	-	27-2	36-6	25-11	2-9	4	36-7	27	10-10	8	7-10	6	4-3	1	27-7	1	28-9	1	29-11	1	32-2	1	33-4	1	34-6	1	35-8	1	36-10	2	37-8											11.33	853
72	-	-	-	29-6⅛	39-6¼	28-2	3-0	4	39-6	30	11-6	8	8-6	6	4-7	1	29-9	1	31-11	1	33-1	1	34-3	1	35-5	1	36-7	1	37-9	1	38-11	1	40-0	1	40-10									13.97	993
84	3-0	40-8	25-8	34-2½	45-6¾	32-8	3-6	4	45-4	35	12-10	10	9-9	6	5-3	1	35-5	1	36-7	1	37-9	1	38-11	1	40-1	1	41-3	1	42-5	1	43-7	1	44-9	1	45-11	2	47-0							18.92	1337
96	3-0	45-2	29-0	38-7	51-8⅜	37-2	4-0	4	50-11	39	14-3	12	10-9	6	5-9	1	40-0	1	41-2	1	42-4	1	43-6	1	44-8	1	45-10	1	47-0	1	48-2	1	49-4	1	50-6	1	51-8	1	52-10	1	52-11			23.51	1642
108	3-0	51-2	32-4	43-3⅛	57-11⅛	41-8	4-6	4	56-9	44	15-9	12	12-0	6	6-4	1	44-6	1	45-8	1	46-10	1	48-0	1	49-2	1	50-4	1	51-6	1	52-8	1	53-10	1	55-0	1	56-2	1	57-4	1	58-6	1	59-2	31.54	2123



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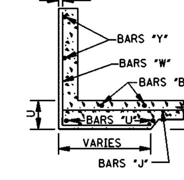

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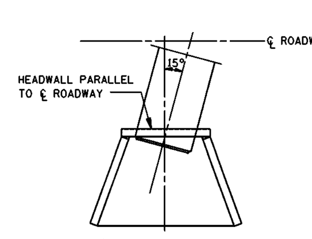
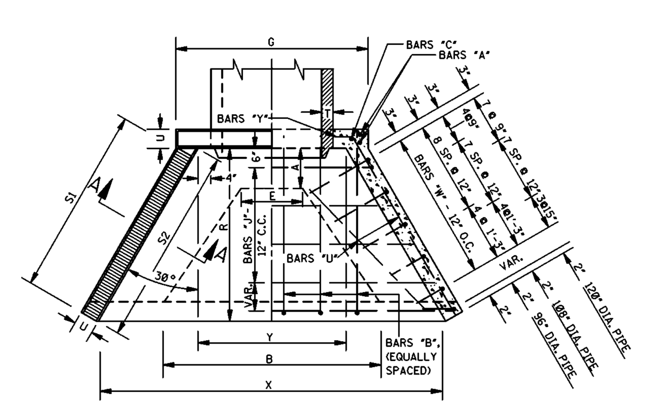
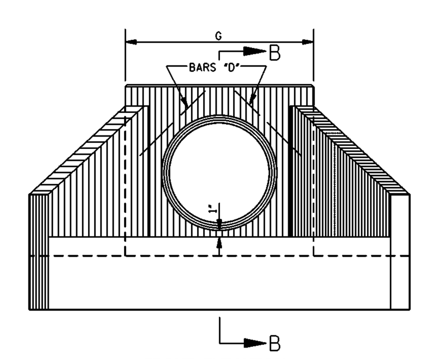


15° SKEW INSTALLATION

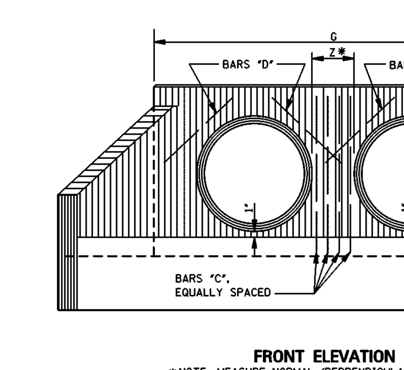
PLAN



PLAN



FRONT ELEVATION



FRONT ELEVATION

*NOTE: MEASURE NORMAL (PERPENDICULAR) TO PIPE.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

HEADWALLS FOR CONCRETE PIPE 2:1 SLOPE – 0°– 15°SKEW

BY | REVISION | DATE

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER HW-2100

SHEET NUMBER 6340

NO.	DATE	DESCRIPTION	BY

STORM SEWER DETAILS – HEADWALL, TRENCH & DITCH TREATMENT

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

sdw Engineering Progress

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: RES	Checked by: SEM	Scale: NONE
Date: 01-30-2017	Working No. GD6	
Drawing No.: 11241	Sheet No. C1.17	

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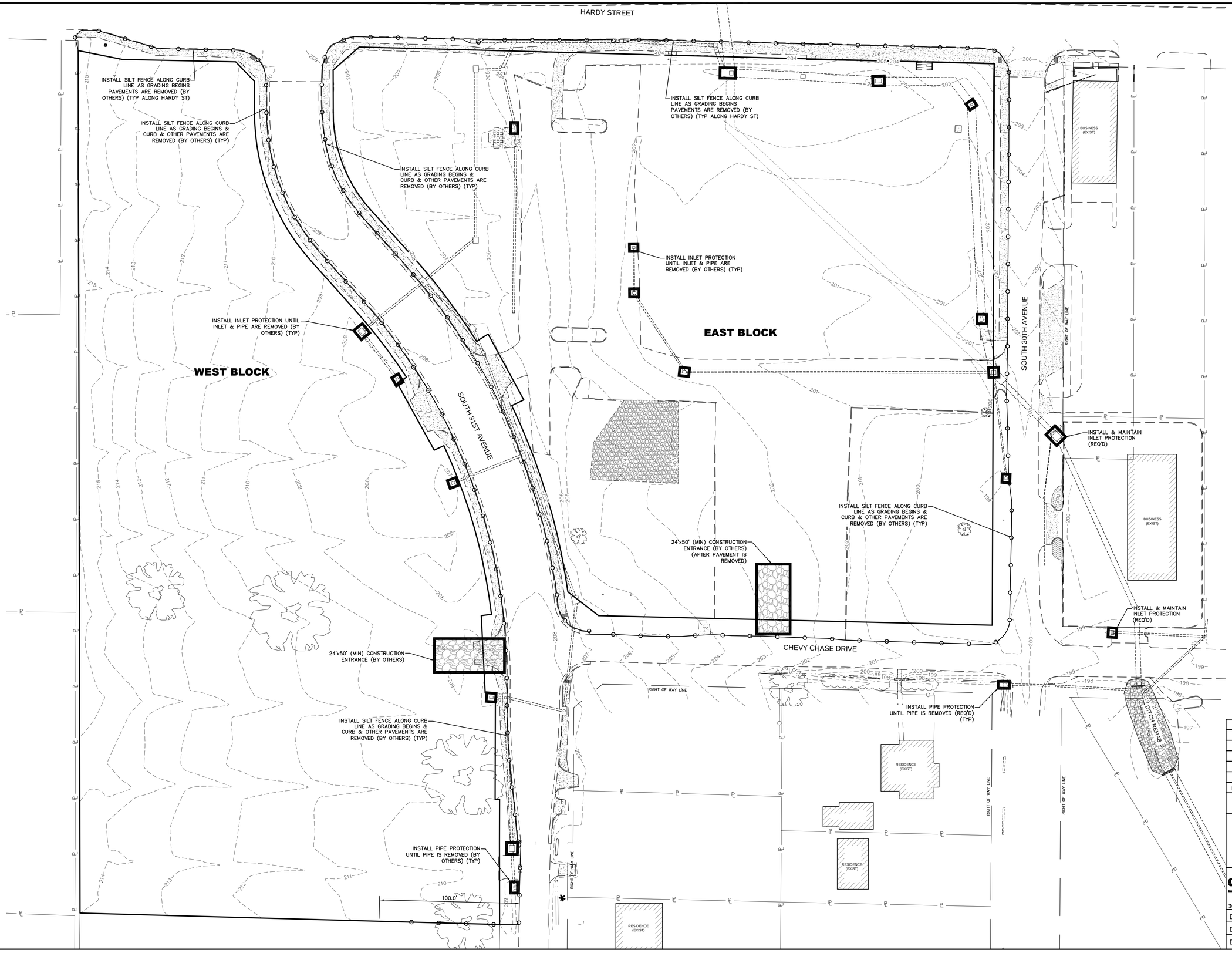

PHASE 1 SWPPP NOTES:

1. INSTALL TEMPORARY EROSION CONTROLS PRIOR TO THE START OF DEMOLITION AND GRADING OPERATIONS AND MAINTAIN THROUGHOUT SAID OPERATIONS.
2. SWPPP PHASE 1: EXISTING STREET PAVEMENTS WILL REMAIN IN PLACE AND INTACT EXCEPT AS REMOVED TO PERFORM SUBSURFACE CONSTRUCTION.
3. ADDITIONAL TEMPORARY EROSION CONTROLS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER, ARCHITECT, OWNER AND/OR THE CITY OF HATTIESBURG (NO SEPARATE PAY).
4. ITEMS NOTED AS "BY OTHERS" SHALL BE INSTALLED ON THE ADJACENT PROJECT BY THE CONTRACTOR FOR SAID PROJECT. COORDINATION SHALL BE REQUIRED (NO SEPARATE PAY).

NO.	DATE	DESCRIPTION	BY

SWPPP – PHASE 1

THE DISTRICT AT MIDTOWN INFRASTRUCTURE IMPROVEMENTS HATTIESBURG, MISSISSIPPI

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Drawing No.: 11241	Sheet No. C2.0	

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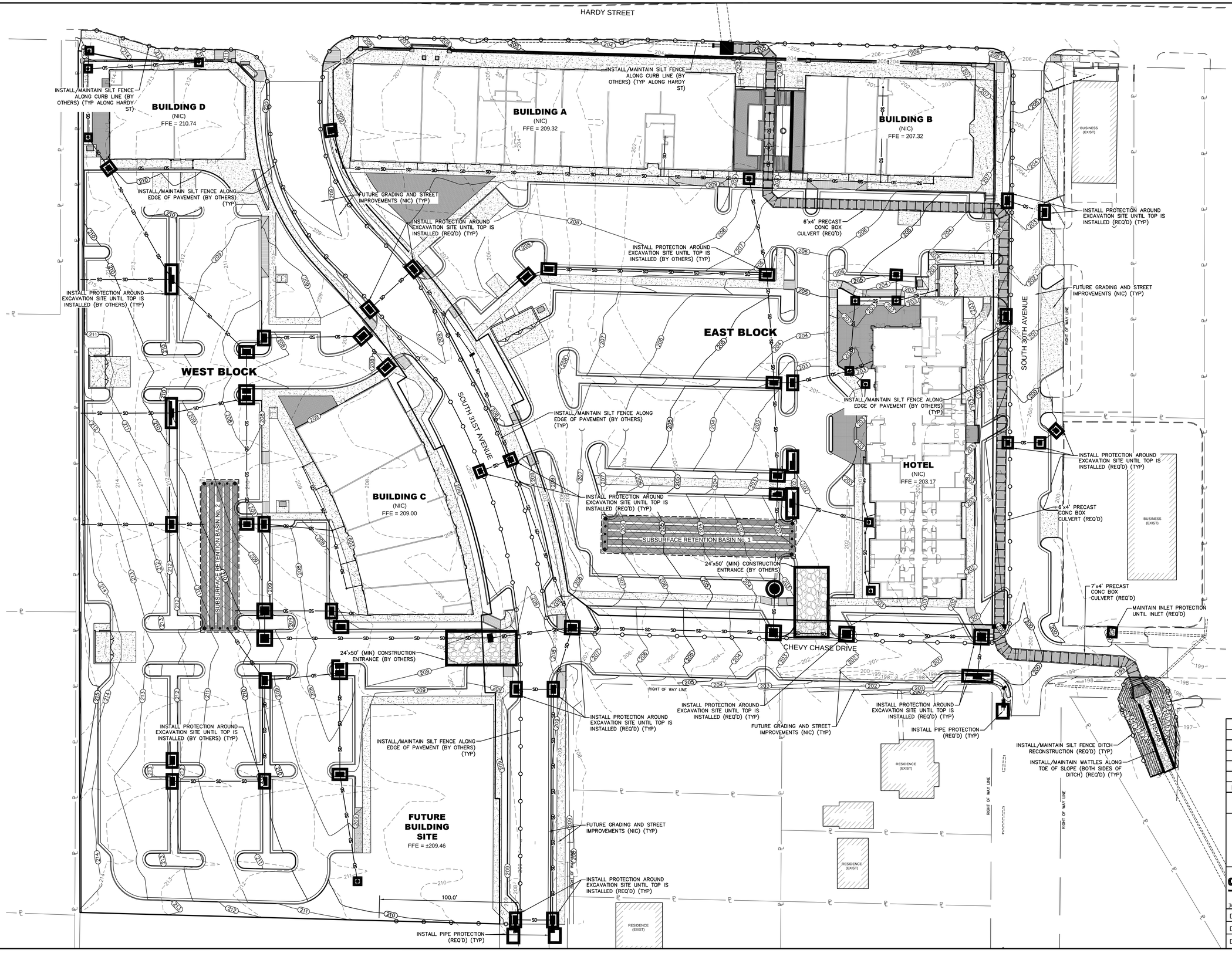

PHASE 2 SWPPP NOTES:

1. INSTALL, MODIFY AND MAINTAIN TEMPORARY EROSION CONTROLS THROUGHOUT THE GRADING OPERATIONS AND INSTALLATION OF SUBSURFACE STRUCTURES AND UTILITIES.
2. SWPPP PHASE 2: REMAINING STREET PAVEMENTS WILL REMAIN IN PLACE AND INTACT; TRENCHES HAVE TEMPORARY AND/OR AGGREGATE SURFACE.
3. SWPPP PHASE 2: DEMOLITION OPERATIONS ARE COMPLETE; GRADING IS CONTINUING; CONSTRUCTION OF RETAINING WALLS HAS BEGUN; CONSTRUCTION OF SUBSURFACE STRUCTURES AND UTILITIES IS ON GOING.
4. ADDITIONAL TEMPORARY EROSION CONTROLS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER, ARCHITECT, OWNER AND/OR THE CITY OF HATTIESBURG (NO SEPARATE PAY).
4. ITEMS NOTED AS "BY OTHERS" SHALL BE INSTALLED ON THE ADJACENT PROJECT BY THE CONTRACTOR FOR SAID PROJECT. COORDINATION SHALL BE REQUIRED (NO SEPARATE PAY).

NO.	DATE	DESCRIPTION	BY

SWPPP – PHASE 2

THE DISTRICT AT MIDTOWN INFRASTRUCTURE IMPROVEMENTS HATTIESBURG, MISSISSIPPI

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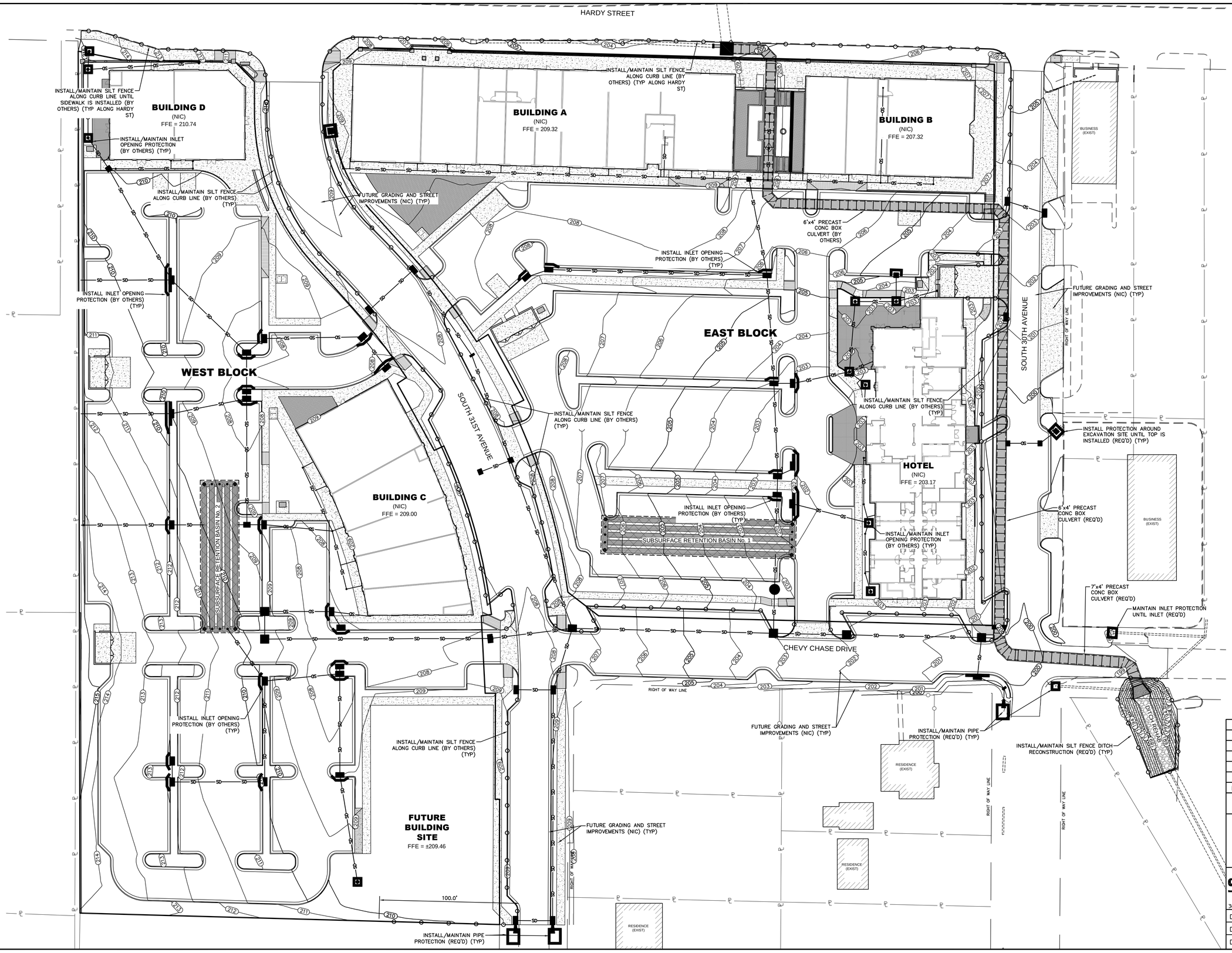

PHASE 3 SWPPP NOTES:

1. INSTALL, MODIFY AND MAINTAIN TEMPORARY EROSION CONTROLS THROUGHOUT THE CONSTRUCTION PROCESS.
2. SWPPP PHASE 3: REMAINING STREET PAVEMENTS ARE BEING MODIFIED AND RECONSTRUCTED; TRENCHES HAVE TEMPORARY AND/OR AGGREGATE SURFACE.
3. SWPPP PHASE 3: GRADING LARGELY COMPLETE; BUILDING FOUNDATIONS (OTHERS) HAVE BEEN CONSTRUCTED, CONSTRUCTION OF RETAINING WALLS (OTHERS) IS COMPLETE; CONSTRUCTION OF SUBSURFACE STRUCTURES AND UTILITIES IS COMPLETE; INSTALLATION OF CURBS, PAVEMENTS, INLET AND JUNCTION BOX TOPS (OTHERS) HAS BEGUN; DITCH RECONSTRUCTION INCLUDING RIPRAP INSTALLATION IS COMPLETE.
4. THIS PHASE SHALL BE MAINTAINED UNTIL PERMANENT GRASSING HAS BEEN ESTABLISHED OR OTHER LANDSCAPING HAS BEEN INSTALLED (SEE LANDSCAPING SHEETS).
5. ADDITIONAL TEMPORARY EROSION CONTROLS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER, ARCHITECT, OWNER AND/OR THE CITY OF HATTIESBURG (NO SEPARATE PAY).
6. ITEMS NOTED AS "BY OTHERS" SHALL BE INSTALLED ON THE ADJACENT PROJECT BY THE CONTRACTOR FOR SAID PROJECT. COORDINATION SHALL BE REQUIRED (NO SEPARATE PAY).

NO.	DATE	DESCRIPTION	BY

SWPPP – PHASE 3

THE DISTRICT AT MIDTOWN INFRASTRUCTURE IMPROVEMENTS HATTIESBURG, MISSISSIPPI

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Drawing No.: 11241	Sheet No. C2.2	

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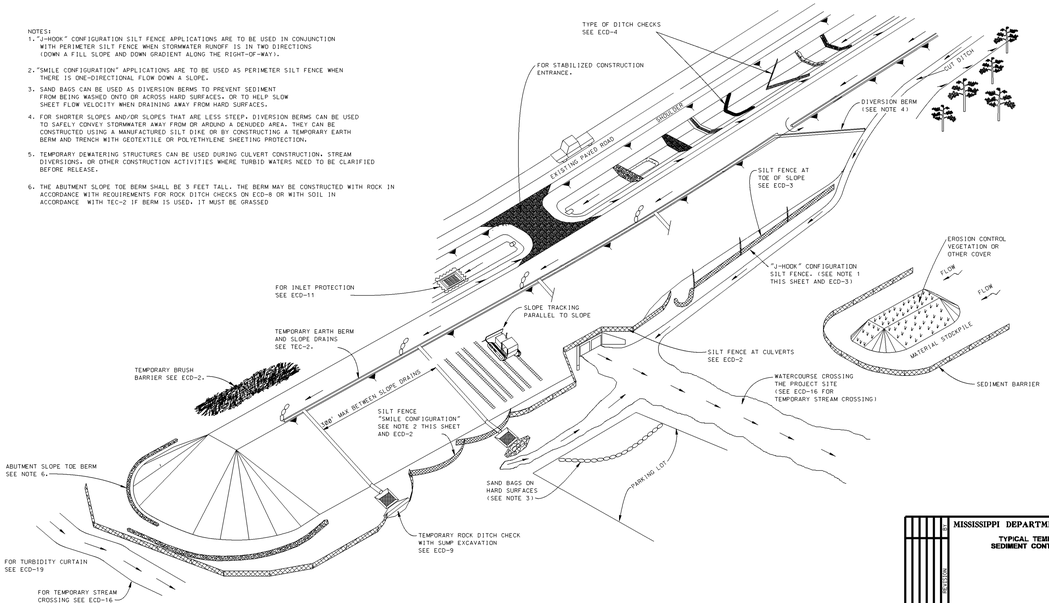
STATE	PROJECT NO.
MISS.	

NOTES:
1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES. OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP. DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING A MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION. STREAM DIVERSIONS. OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FEET TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON ECD-8 OR WITH SOIL IN ACCORDANCE WITH TEC-2 IF BERM IS USED. IT MUST BE GRASSED



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL TEMPORARY EROSION/ SEDIMENT CONTROL APPLICATIONS

REVISION

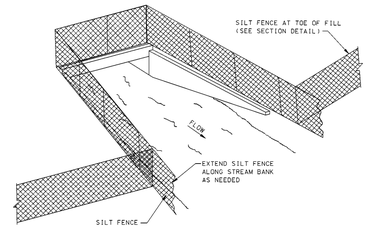
WORKING NUMBER ECD-1

FILENAME: EROSION CONTROL\ECD-1.DGN

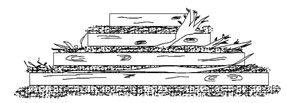
DESIGN TEAM CHECKED DATE

SHEET NUMBER

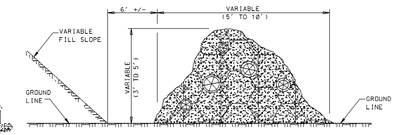
STATE	PROJECT NO.
MISS.	



SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION

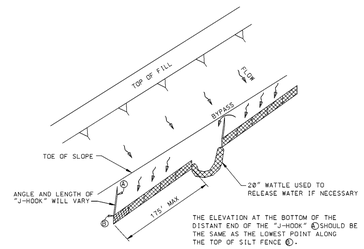


SIDE ELEVATION

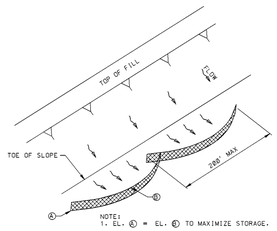
TEMPORARY BRUSH BARRIER

NOTES:
1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH. LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER. INTERMINGLE THE BRUSH. LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC.
5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPERATE PAYMENT

NOTE:
1. ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON ECD-3

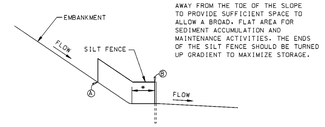


"J-HOOK" SILT FENCE APPLICATION



NOTE:
1. EL. A = EL. B TO MAXIMIZE STORAGE.

"SMILE-CONFIGURATION" SILT FENCE APPLICATION



* SILT FENCE SHOULD BE LOCATED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD. FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.

SILT FENCE SECTION AT TOE OF FILL

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF SEDIMENT BARRIER APPLICATIONS

REVISION

WORKING NUMBER ECD-2

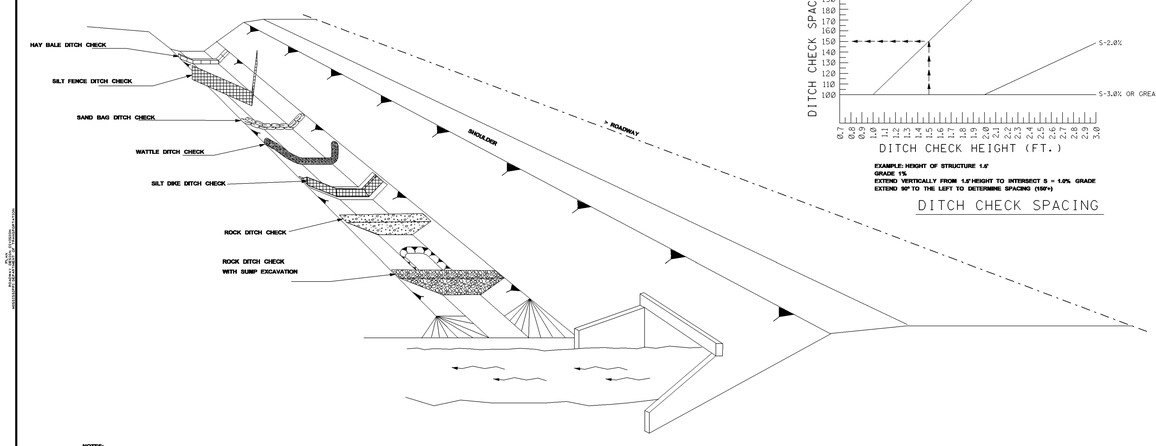
FILENAME: EROSION CONTROL\ECD-2.DGN

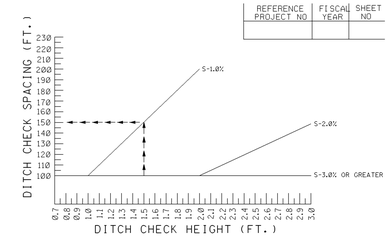
DESIGN TEAM CHECKED DATE

SHEET NUMBER

STATE	PROJECT NO.
MISS.	

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO





EXAMPLE: HEIGHT OF STRUCTURE 1.5'
GRADE 1%
EXTEND VERTICALLY FROM 1.5' HEIGHT TO INTERSECT S = 1.0% GRADE
EXTEND 90' TO THE LEFT TO DETERMINE SPACING (150'+)

DITCH CHECK SPACING

NOTES:
1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED.DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES 1/3 THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN 1/2 THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.
7. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED.AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHALL NOT EXCEED 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. IN GENERAL, DITCH CHECKS SHOULD NOT BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS

REVISION

WORKING NUMBER ECD-4

FILENAME: EROSION CONTROL\ECD-4.DGN

DESIGN TEAM CHECKED DATE

SHEET NUMBER

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

EROSION CONTROL DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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Date: 01-30-2017	Working No. ECD1	
Drawing No.: 11241	Sheet No. C2.3	

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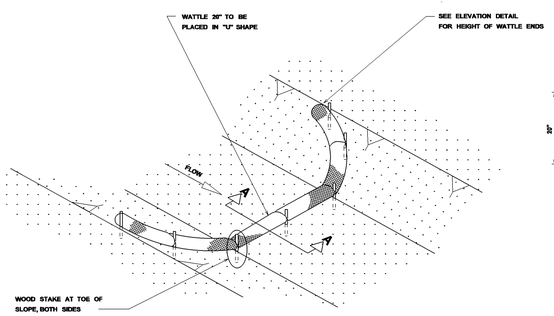
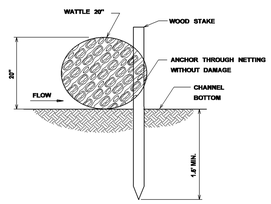
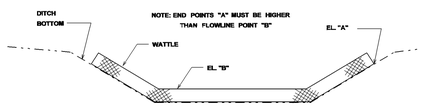


DETAIL (DITCH CHECK)



SECTION A-A

NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.



ELEVATION DETAIL

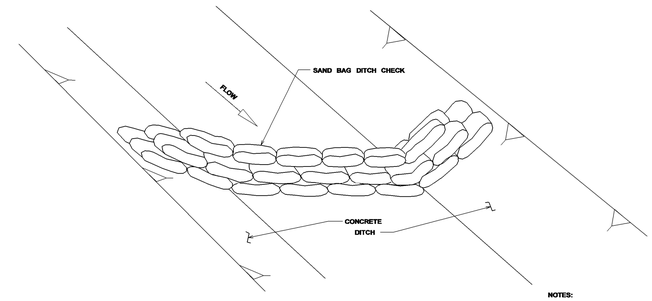
WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DETAILS OF EROSION CONTROL
WATTLE DITCH CHECK

WORKING NUMBER ECD-6
SHEET NUMBER
FILENAME: EROSION CONTROL\ECD-6.DGN
DESIGN TEAM CHECKED DATE

STATE	PROJECT NO.
MISS.	

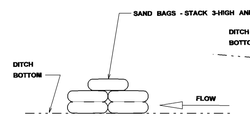


DETAIL (DITCH CHECK)

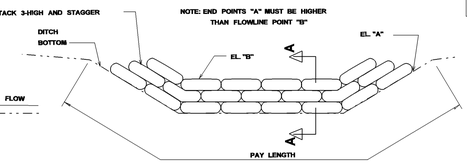
NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN SAND BAG DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4.
2. PREVENTING SEDIMENT FROM ENTERING A PAVED DITCH IS PREFERABLE TO CAPTURING SEDIMENT WITHIN PAVED DITCH.

SAND BAG DITCH CHECK SELECTION GUIDELINES

SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.



SECTION A-A

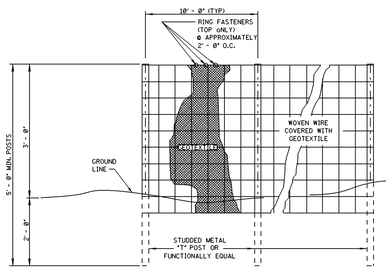


ELEVATION DETAIL

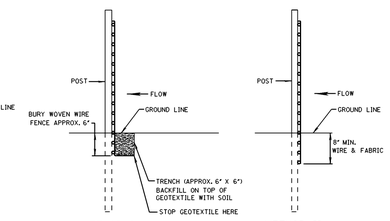
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DETAILS OF EROSION CONTROL
SANDBAG DITCH CHECK

WORKING NUMBER ECD-20
SHEET NUMBER
FILENAME: EROSION CONTROL\ECD-20.DGN
DESIGN TEAM CHECKED DATE

STATE	PROJECT NO.
MISS.	



ELEVATION VIEW

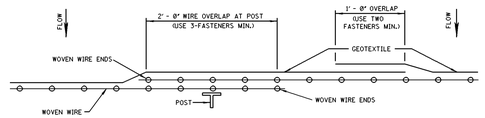


METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

NOTES:
1. SILT FENCES SHALL BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHEREVER POSSIBLE SILT FENCE SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
7. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE.



PLAN VIEW

REQUIRED LAPPING

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DETAILS OF SILT FENCE INSTALLATION

WORKING NUMBER ECD-3
SHEET NUMBER
FILENAME: EROSION CONTROL\ECD-3.DGN
DESIGN TEAM CHECKED DATE

SPECIAL GENERAL NOTE:

ALL REFERENCE TO PAY ITEM NUMBERS SHALL BE USED FOR REFERENCE TO THE SPECIFICATION ONLY. PAY FOR ITEMS SHOWN ON THIS SHALL BE AS NOTED IN THE BID PROPOSAL.

NO.	DATE	DESCRIPTION	BY

EROSION CONTROL DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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Drawing No.: 11241	Sheet No. C2.4	

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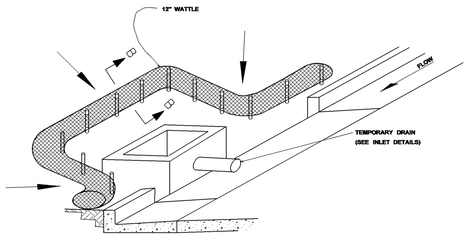
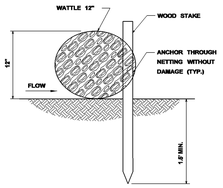
STATE	PROJECT NO.
MISS.	

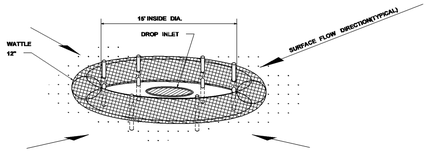
NOTE:
SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION.
HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET

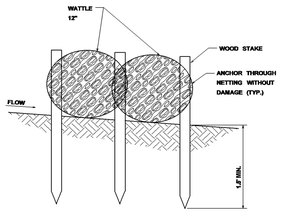


SECTION B-B



DROP INLET PROTECTION

NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1'MIN.,5'MAX.).
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.



SECTION A-A

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
INLET PROTECTION DETAILS
OF WATTLES

WORKING NUMBER
ECD-12
SHEET NUMBER

FILENAME: EROSION CONTROL\ECD-12.DGN
DESIGN TEAM CHECKED DATE

STATE	PROJECT NO.
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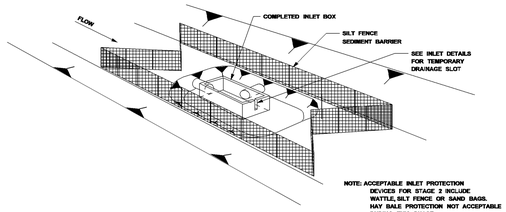
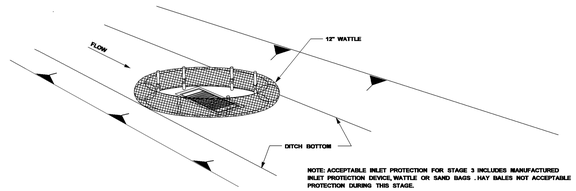


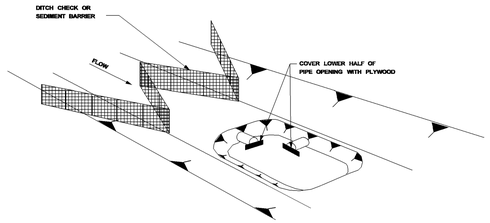
NOTE: ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE WATTLE, SILT FENCE OR SAND BAGS. HAY BALE PROTECTION NOT ACCEPTABLE DURING THIS PHASE.

STAGE 2
INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED

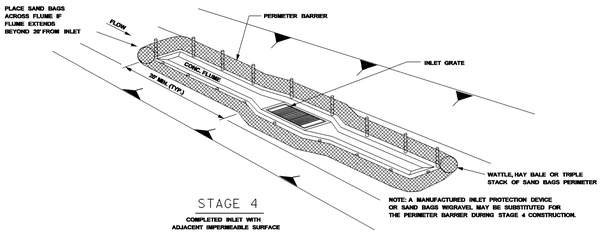


NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, WATTLE OR SAND BAGS . HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE.

STAGE 3
INLET CONSTRUCTED AND BACKFILLED



STAGE 1
INLET/JUNCTION BOX LOCATION EXCAVATED



NOTE: A MANUFACTURED INLET PROTECTION DEVICE OR SAND BAGS W/GRAVEL MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION.

STAGE 4
COMPLETED INLET WITH
ADJACENT IMPERMEABLE SURFACE

DITCH INLET CONSTRUCTION STAGES

NOTES:
1. FOUNDATION BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL, OR INSTALLATION CHALLENGES.
3. DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
INLET PROTECTION
TYPICAL APPLICATIONS AND DETAILS

WORKING NUMBER
ECD-10
SHEET NUMBER

FILENAME: EROSION CONTROL\ECD-10.DGN
DESIGN TEAM CHECKED DATE

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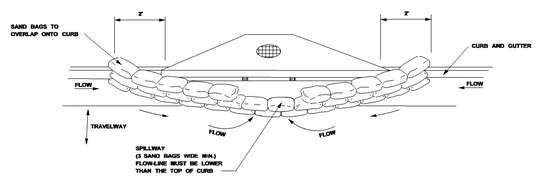
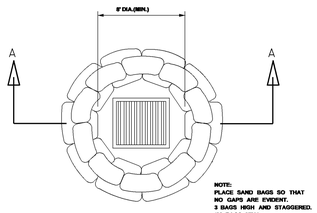
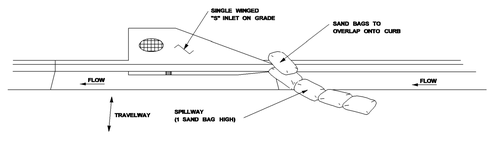


TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG

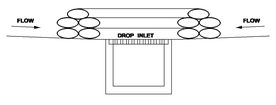


NOTE:
PLACE SAND BAGS SO THAT
NO GAPS ARE EVIDENT.
2 BAGS HIGH AND STAGGERED.
(80 BAGS MIN.)

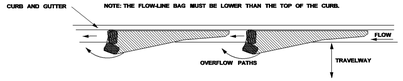
DROP INLET
PLAN VIEW



TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE



SECTION A-A
SAND BAG BARRIER



CURB AND GUTTER SEDIMENT
CONTAINMENT SYSTEM

CURB INLET PROTECTION NOTES:
1. THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION.
2. BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY.
3. SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
4. REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
5. IF DENUDED AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND ITS PERIMETER TO CONTROL SEDIMENT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
INLET PROTECTION
DETAILS OF SAND BAG

WORKING NUMBER
ECD-14
SHEET NUMBER

FILENAME: EROSION CONTROL\ECD-14.DGN
DESIGN TEAM CHECKED DATE

SPECIAL GENERAL NOTE:

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NO.	DATE	DESCRIPTION	BY

EROSION CONTROL DETAILS

THE DISTRICT AT MIDTOWN
INFRASTRUCTURE IMPROVEMENTS
HATTIESBURG, MISSISSIPPI

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Date: 01-30-2017	Working No. ECD3	
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SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

FOR THE

CITY OF HATTIESBURG
FORREST COUNTY
MISSISSIPPI

MARCH 2017

sdw Engineering Progress

STEVEN E. MENEASE
LICENSED PROFESSIONAL ENGINEER
16793
STATE OF MISSISSIPPI
3/10/17

PREPARED BY:

SHOWS, DEARMAN & WAITS, INC.
CONSULTING ENGINEERS
301 SECOND AVENUE
HATTIESBURG, MISSISSIPPI 39401
(601) 544-1821

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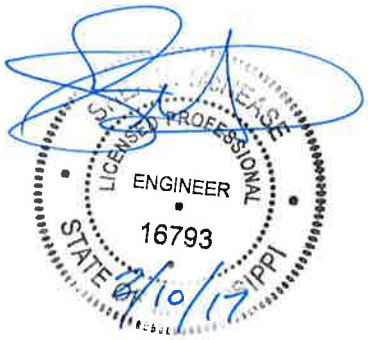


ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **March 23, 2017** in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements for the following:

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the _____ day of_____A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on February 22, 2017 and March 1, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

INFORMATION FOR BIDDERS

BIDS will be received by the CITY OF HATTIESBURG, MISSISSIPPI herein called the "OWNER", at City Hall until 10:00 a.m. on March 23, 2017 and then at said office publicly opened and read aloud.

Each BID must be submitted in sealed envelope, addressed to City of Hattiesburg. Each sealed envelope containing a BID must be plainly marked on the outside as BID for **INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET** and the envelope should bear on the outside the BIDDER'S name, address, and license number if applicable, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed addressed to the Owner at P. O. Box 1898, Hattiesburg, MS 39403

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be completed and executed when submitted. Only one copy of the BID form is required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS prior to BIDDING, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID BOND payable to the OWNER for five percent

(5%) of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BONDS of all except the three lowest responsive, responsible BIDDERS. When the Agreement is executed the BONDS of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the PAYMENT BOND and PERFORMANCE BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of 100 percent (100%) of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or PAYMENT BONDS and PERFORMANCE BONDS must file with each BOND a certified and effective dated copy of their Power of Attorney.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the PERFORMANCE BOND and PAYMENT BOND within ten (10) calendar days from the date when NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the Agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period; the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out

the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER.

All applicable Laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

FURTHER, the BIDDER agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the SUPPLEMENTAL GENERAL CONDITIONS.

The low BIDDER shall supply the names and addresses of major material SUPPLIERS and SUBCONTRACTORS when required to do so by the OWNER.

The ENGINEER is SHOWS, DEARMAN & WAITS, INC. The address of the ENGINEER is 301 2nd Avenue, Hattiesburg, MS 39401.

PROPOSAL FORM

I(we) agree to begin work within ten (10) calendar days after the issuance of the "Work Order," and to complete the work within __75_____ calendar days thereafter.

It is understood that the quantities of work listed for unit prices bid are approximate and are intended to merely indicate the general scope of the various items entering into the complete work. It is further understood and agreed that the Owner may increase or decrease the quantities listed in the proposal to an extent equivalent to thirty percent (30%) of the bid price (in dollars) and that no change in the unit prices proposed shall be occasioned thereby.

The undersigned further agrees that the unit and lump sum prices quoted include all items of work required or necessary for the accomplishment of the projected work and that these items include all work indicated on the plans and specifications for which no specific pay items have been established.

The undersigned certifies that the bid prices contained herein have been carefully checked and are submitted as correct and final.

If within thirty (30) days the scheduled closing time for receipt of bids, this proposal is accepted, the undersigned will execute a formal contract within seven (7) days after official notification thereof, will deliver a surety bond for the faithful performance of this contract, and will complete the work within the time specified from the date of execution of the contract.

Respectfully Submitted,

_____
Name of Firm or Bidder

by: _____

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

CITY of HATTIESBURG

Infrastructure Improvements - Participating					
ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	Clearing and Grubbing	1	Lump Sum		
2	Removal of Storm Pipe (All Sizes)	676	Lin. Ft.		
3	Abandonment of Storm Pipe (All Sizes)	161	Lin. Ft.		
4	Removal of Storm Inlet and Grate &/or Junction Box	13	Each		
5	Removal of Concrete Box Culvert (All Sizes)	130	Lin. Ft.		
6	Removal of Concrete Headwalls (All Heights)	20	Lin. Ft.		
7	Removal of Riprap	160	Sq.Yd.		
8	Removal of Water Main (All Sizes)	380	Lin. Ft.		
9	Removal of Water Appurtenance	4	Each		
10	Removal of Sanitary Sewer Manhole	4	Each		
11	Removal of Sanitary Sewer Main (All Depths)	429	Lin. Ft.		
12	Remove and Reset Guardrail	58	Lin. Ft.		
13	Temporary Grassing	1.0	Acre		
14	Temporary Erosion Control Measures, Per Plans	1	Lump Sum		
15	Grouted RipRap (Incl Grout, Riprap & Geotextile)	213	Sq. Yd.		
16	Granular Material (LVM) (Class 9, Group B)	710	Cu.Yd.		
17	Select Fill Mterial for Trench Repair	2,650	Cu.Yd.		
18	Crushed Aggregate for Trench Repair (Size 610)	1,920	Cu.Yd.		
19	Class "B" Structural Concrete - Minor Structures	75	Cu.Yd.		
20	Reinforcing Steel	6,300	Lbs.		
21	6'x4' Precast Concrete Box Culvert (Incl. Precast Bends, Special Cast-In-Place Section, Bedding & Excavation)	300	Lin. Ft.		

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
22	7'x4' Precast Concrete Box Culvert (Incl. Precast Bends, Special Cast-In-Place Section, Bedding & Excavation)	124	Lin. Ft.		
23	7'x4' Precast Concrete Box Culvert End Section (Incl. Bedding & Excavation)	1	Lin. Ft.		
24	15" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	44	Lin. Ft.		
25	18" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	578	Lin. Ft.		
26	24" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	128	Lin. Ft.		
27	30" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	204	Lin. Ft.		
28	42" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	160	Lin. Ft.		
29	15" Reinforced Concrete Pipe Flared End Section (Incl Bedding & Excavation)	1	Lin. Ft.		
30	18" Reinforced Concrete Pipe Flared End Section (Incl Bedding & Excavation)	2	Lin. Ft.		
31	Gratings	1,000	Lbs		
32	Castings	1,027	Lbs		
33	6" PVC Sewer, SDR 26 (All Depths, Max 10') (Incl Bedding & Excavation)	22	Lin. Ft.		
34	8" PVC Sewer, SDR 26 (All Depths, Max 10') (Incl Bedding & Excavation)	20	Lin. Ft.		
35	8" DI Sewer, (All Depths, Max 10') (Incl Bedding & Excavation)	36	Lin. Ft.		
36	10" PVC Sewer, SDR 26 (All Depths, Max 10') (Incl Bedding & Excavation)	802	Lin. Ft.		
37	10" DI Sewer, (All Depths, Max 10') (Incl Bedding & Excavation)	56	Lin. Ft.		
38	48" Diameter Precast Concrete Manhole (All Depths, Max 10') (Incl Bedding & Excavation)	4	Each		
39	60" Diameter Precast Concrete Manhole (All Depths, Max 10') (Incl Bedding & Excavation)	1	Each		
40	60" Diameter Precast Concrete Doghouse Manhole (All Depths, Max 10') (Incl Bedding & Excavation)	1	Each		
41	6" PVC Cleanout	1	Each		

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
42	6" Service Connection to 10" PVC Main	1	Each		
43	6" Class 350 Ductile Iron Water Line	80	Lin. Ft.		
44	8" Class 350 Ductile Iron Water Line	465	Lin. Ft.		
45	6" Gate Valve	3	Each		
46	8" Gate Valve	4	Each		
47	Connection: Proposed 8" DI to Existing 8" Water Line (Straight)	1	Each		
48	Connection: Proposed 8" DI to Existing 8"& 4" Water Lines (Cross)	1	Each		
49	Connection: Proposed 8" DI to Proposed 6" DI (Tee)	3	Each		
50	Connection: Proposed 6" DI to Existing 6" Water Line (Straight)	2	Each		
51	Connection: Proposed 6" DI to Existing 6" Water Line (Hot Tap w/ Valve)	2	Each		
52	3-Way Fire Hydrant with Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe & Other Fittings, Etc)	2	Each		
53	Construction Staking	1	Lump Sum		
54	Maintenance of Traffic	1	Lump Sum		
55	Mobilization	1	Lump Sum		
				Project Subtotal	

Infrastructure Improvements - Non-Participating

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	Removal of Storm Inlet and Grate &/or Junction Box	2	Each		
2	Removal of Concrete Box Culvert (All Sizes)	272	Lin. Ft.		
3	Class "B" Structural Concrete - Minor Structures	5	Cu.Yd.		
4	Reinforcing Steel	590	Lbs.		
5	6'x4' Precast Concrete Box Culvert (Incl. Precast Bends, Special Cast-In-Place Section, Bedding & Excavation)	294	Lin. Ft.		
6	24" Reinforced Concrete Pipe, Class III (Incl Bedding & Excavation)	8	Lin. Ft.		
7	10" PVC Sewer, SDR 26 (All Depths, Max 10') (Incl Bedding & Excavation)	234	Lin. Ft.		
8	48" Diameter Precast Concrete Manhole (All Depths, Max 10') (Incl Bedding & Excavation)	3	Each		
9	Construction Staking	1	Lump Sum		
10	Maintenance of Traffic	1	Lump Sum		
11	Mobilization	1	Lump Sum		
				Project Subtotal	
				Project Total	

BID BOND

KNOW ALL MEN BY THESE PRESENTS: that we, the under signed,_____Principal, and _____as Surety, are hereby held and firmly bound unto_____as Owner in the penal sum of_____ for payment of which, well and truly made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 20__.

The Condition of the above obligation is such that whereas the Principal has submitted to a center BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year

set forth above.

_____ (L.S.)
PRINCIPAL

_____
SURETY

BY: _____

IMPORTANT: Surety companies executing BONDS must appear on the Treasure Department's most current line (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this ___day of_____, 20___ by and between_____hereinafter called the CONTRACTOR, **CITY OF HATTIESBURG** hereinafter called the OWNER, Witnesseth that the Contractor and the OWNER, for the consideration hereafter named and agrees as follows.

ARTICLE 1: SCOPE OF WORK

The Contractor agrees to furnish all tools, labor, equipment, materials, and supplies required to be furnished, and perform all work required under and in accordance with the plans entitled

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

which are on file at the office of the OWNER, and the Specifications, Proposals, General and Special Conditions, attached hereto and made a part hereof as fully as though copied herein, under the direct supervision and to the entire satisfaction of the OWNER and in accordance with the Laws of the State of Mississippi.

ARTICLE 2: THE CONTRACT SUM

It is further agreed and understood by and between the parties hereunto that the OWNER agrees to pay and the Contractor agrees to accept full and final compensation for all work done under this agreement, the lump sum amount adjusted for variation of quantities at the unit prices named in the Proposal, which is hereto attached, such payment to be made in lawful money of the United States, at the time and in the manner hereinafter set forth.

ARTICLE 3: TIME OF COMPLETION

The Contractor agrees, for the consideration above expressed, to begin and complete the work within the time specified in the Proposal. If the Contractor fails to complete the work in the time specified, he shall pay the OWNER as **liquidated damages**, ascertained and agreed, and not in the nature of a penalty, the sum of **$ 300.00** for each day delayed, which shall be deducted from the final amount to be paid under the contract; provided that the extension of time with the waiver of liquidation damages may be granted as provided for in the Specifications.

ARTICLE 4: PROGRESS PAYMENTS

The owner agrees to make progress payments during the construction as provided herein as follows:

The ENGINEER will on or before the tenth (10th) day of each month make an estimate of the value of the work done, based on contract prices.

The OWNER agrees to pay the CONTRACTOR 100% of the value of the work done each month, less ten percent (10%) retainage until final acceptance of the work has been made).

ARTICLE 5: ACCEPTANCE AND FINAL PAYMENT

Upon receipt of written notice that the work is ready for final acceptance and inspection, the Engineer shall promptly make such inspection, and when he finds the work acceptable under the contract, and the contract fully performed, he shall promptly issue a final certificate, over his own signature, stating that the work provided for in this Contract has been completed and is accepted by him under the terms and conditions thereof. Then, the entire balance shall be due the Contractor within thirty (30) days the date of said final acceptance.

Before issuance of final certificate, the Contractor shall submit evidence satisfactory to the ENGINEER that all payrolls, materials, bills, and other indebtedness connected with the work have been paid.

The making and acceptance of the final payment shall constitute a waiver of all claims by the OWNER, other than those arising from unsettled liens, from faulty work or materials appearing within one (1) year after payment, or claims previously made and still unsettled.

If, after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor, and the Engineer, so certifies, the OWNER shall, upon certificate of the Engineer and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

ARTICLE 6: THE PERFORMANCE BOND

The Contractor agrees to furnish a bond, with an approved surety thereon guaranteeing the performance of this contract, in no less than one hundred percent (100%) of the amount of the Contract. Said Bond shall be conditioned on full and complete performance of the Contract, and for the payment of all labor and materials for a period

of one (1) year after completion. The Surety on said Bond shall be a surety company of financial resources satisfactory to the OWNER and authorized to do business in the State of Mississippi.

ARTICLE 7: INSURANCE

The Contractor agrees to also carry Public Liability Insurance, Property Damage Insurance, and Workman's Compensation Insurance in amounts as required by the Specifications.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first written above.

OWNERS:

SEAL

City of Hattiesburg _____

BY _____

Title _____ ATTEST _____

CONTRACTOR:

SEAL

_____

BY _____

Title _____ ATTEST _____

PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: THAT WE, the Undersigned (hereinafter called the Principal), a corporation, partnership or individual duly unauthorized by law to do business as a construction contractor in the State of Mississippi, and _____of (herein called the Surety), a corporation duly authorized to do a surety business under the laws of the State of Mississippi, are held and firmly bound unto _____, (hereinafter called the Obligee), a _____Corporation existing under the laws of the State of Mississippi, in the penal sum of _____Dollars (_____) lawful money of the United States, for the payment of which well and truly to be made, the said Principal and the said Surety do hereby bind ourselves, our heirs, executors, administrators and assigns, jointly and severally, by these presents, as follows:

The Condition of this obligation is such that; whereas Principal by an instrument In writing attached here-to and bearing date of _____ has agreed with said Obligee to do all work necessary and to furnish labor, materials, tools, supplies and services to construct **INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET** as shown on Plans and specified thereby in the Specifications, Proposal and other Contract Documents hereto attached.

NOW THEREFORE, if said Principal shall well and truly in good, sufficient and workmanlike manner, and to the satisfaction of Obligee perform and complete the work required, and shall defend, indemnify and save harmless said Obligee against all damages, claims, demands, expense and charge of every kind (including claims of patent infringement) arising out of injury or damage to persons or property by reason or arising from any act, omission or neglect of said Principal, his agent, servants or employees with relation to said work; and shall pay all cost, charges, rentals and expenses for labor, material, supplies and equipment and deliver the said improvement to Obligee completed and ready for occupancy or operation, and free from all liens, encumbrances or claims for labor, material or otherwise; and shall pay all other expenses lawfully chargeable to Obligee by reason of any default or neglect of the said Principal in the relation of said agreement and said work, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said surety for value received hereby stipulates and agrees that no charge, extension of time, alteration or addition to the terms of the Contract, or the work to be performed hereunder, or the Specifications accompanying the same, shall in any way affect its obligation on this bond and does hereby waive notice of any change, extension of time, alteration or addition to the terms of the Contract, or to the work, or to the Specifications.

PROVIDEDFURTHER, that if Principal, his or its subcontractor or subcontractors fail to duly pay for any labor, materials, team hire, sustenance provisions or any other supplies or materials used or consumed by such Principal or his, their or its subcontractors in performance of the work contracted to be done, the Surety will pay the same in any amount not exceeding the sum specified in the bond, together with interest as provided by law.

IN WITNESS THEREOF: Said Principal and surety have hereunto set their hands and seals at _____ this _____ day of _____, 20__.

(SEAL)

_____
PRINCIPAL

WITNESSES:

_____
_____

_____
ADDRESS

_____
Name of person executing for Principal

_____
TITLE

_____
SURETY

_____
_____
ADDRESS

WITNESSES:

_____
_____

_____
Name of person executing for Surety

_____
TITLE

NOTICE OF AWARD

TO: _____

_____

_____

Project: **INFRASTRUCTURE IMPROVEMETNS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET**

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated_____, 20__, and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of $_____.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND, Payment BOND, and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 20__.

CITY OF HATTIESBURG
OWNER

BY: _____

TITLE: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by
This the _____ day of _____, 20___.
Title:_____
Name:_____

NOTICE TO PROCEED

TO: _____ DATE: _____

_____

_____

Project: **INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET**

You are hereby notified to commence WORK in accordance with the Agreement dated _____, 20__ on or before _____, 20__, and you are to complete the WORK within _____ consecutive calendar days thereafter. The date of completion of all WORK is therefore _____, 20__.

CITY OF HATTIESBURG
OWNER

BY: _____

TITLE: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

_____This the____ day of _____, 20___.

Title:_____

Name: _____

SANITARY SEWERAGE SYSTEMS

1.0 GENERAL

This item shall consist of furnishing all of the necessary materials, supervision, labor, tools, equipment and incidentals, and the installation of various types and sizes of sewer pipe and related items in accordance with the Contract Drawings and Specifications, as stated in the Proposal.

2.0 APPLICABLE PUBLICATIONS

The following publications form a part of this Specifications and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

A 139/139M Electric-Fusion (Arc) Welded Steel Pipe (HPS 4 inch and over).

A 252 Welded and Seamless Steel Pipe Piles.

C 31/C 31M Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field.

C 33 Specifications for Concrete Aggregate

C 39/C 39M Compressive Strength of Cylindrical Concrete Specimens.

D 1248 Polyethylene Plastics Extrusion Materials for Wire and Cable

D 1784 Rigid Poly(Vinyl Chloride)(PVC) Compounds and Chlorinated Poly (Vinyl Chloride)(CPVC) Compounds.

D 2412 Determination of External Loading Characteristics of Plastic Pipe by Parallel Plate Loading.

D 2922 Density of Soil and Soil Aggregate in place by Nuclear Methods (Shallow Depths).

D 3034 Specifications for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.

D 3212 Joints for Drain and Sewer Plastic Pipes using Flexible Elastomeric Seals.

F 477 Specifications for Elastomeric Seals (Gaskets) for Joining Plastic Pipe.

GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS

Wherever used in these General Conditions or in the other Contract Documents, the following terms shall have the meaning indicated which shall be applicable to both the singular and plural thereof.

ACCEPTANCE: By the OWNER of the Work as being fully complete in accordance with the Contract Documents.

AGREEMENT: The written agreement between the OWNER and the CONTRACTOR covering the Work to be performed: the Contract Documents are attached to and made a part of the Agreement. Also designated as the Contract.

ADDENDA: Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawings and Specifications, by addition, deletions, clarifications or corrections.

APPLICATION FOR PAYMENT: The form furnished by the ENGINEER which is to be used by the CONTRACTOR in requesting progress payments and an affidavit of the CONTRACTOR that progress payments theretofore received from the OWNER on account of the WORK have been applied by the CONTRACTOR to discharge in full all of the CONTRACTOR'S obligations stated in prior Applications for Payment.

APPROVAL: Accept as satisfactory.

BID: The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

BIDDER: Any person, firm or corporation submitting a Bid for the Work.

BONDS: Bid, performance and payment bonds and other instruments of security furnished by the CONTRACTOR and his surety in accordance with the Contract Documents and in accordance with the law of the place of the project.

CHANGE ORDER: A written order to the CONTRACTOR signed by the OWNER authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time issued after execution of the Agreement.

CONTRACT DOCUMENTS: The Agreement, Addenda, Instruction's to Bidders, CONTRACTOR'S BID, the Bonds, the Notice of Award, these General Conditions, the Supplementary conditions, Special Conditions, Technical Conditions, the Specifications, Drawings and Modifications, and Notice to Proceed.

CONTRACT PRICE: The total moneys payable to the CONTRACTOR under the Contract Documents.

CONTRACT TIME: The number of calendar days stated in the Agreement for the completion of the Work.

CONTRACTING OFFICER: The owner (Grantee) - The individual who is authorized to sign the contract documents on behalf of the owner's governing body.

CONTRACTOR: The person, firm or corporation with whom the OWNER has executed the Agreement.

DAY: A calendar day of twenty-four hours measured from midnight to the next midnight.

DRAWINGS: The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by the ENGINEER and are referred to in the Contract Documents.

ENGINEER: The person, firm or corporation named as such in the Contract Documents.

FIELD ORDER: A written order issued by the ENGINEER which clarifies or interprets the Contract Documents in accordance with Paragraph 9.3 or orders minor changes in the Work in accordance with paragraph 10.2.

MODIFICATION: (a) A written amendment of the Contract Documents signed by both parties, (b) a Change Order (c) a written clarification or interpretation issued by the ENGINEER in accordance with paragraph 9.3 or (d) a written order for a minor change or alteration in the Work issued by the ENGINEER pursuant to paragraph 10.2. A modification may only be issued after execution of the Agreement.

NOTICE OF AWARD: The written notice by OWNER to the apparent successful Bidder stating that upon compliance with the conditions precedent to be fulfilled by him within the time specified, OWNER will execute and deliver the Agreement to him.

NOTICE TO PROCEED: A written notice given by OWNER to CONTRACTOR (with a copy to ENGINEER) fixing the date on which the Contract Time will commence to run and on which CONTRACTOR shall start to perform his obligations under the Contract Documents.

OWNER: A public body or authority, corporation, association, partnership, or individual for whom the Work is to be performed.

PROJECT: The entire construction to be performed as provided in the Contract Documents.

CONSTRUCTION OBSERVER
RESIDENT INSPECTOR
CONSTRUCTION INSPECTOR
PROJECT REPRESENTATIVE: An authorized representative of the ENGINEER assigned to observe the Work performed and materials furnished by the CONTRACTOR or such other person as may be appointed by the OWNER as his representative. The CONTRACTOR shall be notified in writing of the identity of this representative.

SHOP DRAWINGS: All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a Subcontractor, manufacturer, supplier or distributor and which illustrate the equipment, material or some portion of the Work and as required by the Contract Documents.

SAMPLES: Physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

SPECIFICATIONS: Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work.

SUBCONTRACTOR: An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.

SUBSTANTIAL COMPLETION: The stage in construction when a project can be utilized for the purposes for which it was intended. At substantial completion, minor items and items that are seasonally restricted need not be completed, but the items that affect operational integrity and function of the facility must be capable of continuous use.

SUPPLEMENTARY GENERAL CONDITIONS: Federal Conditions in effect at time of submission of Bid.

SUPPLIER: Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.

SPECIAL CONDITIONS: When included as a part of the Contract Documents, Special Conditions refer only to the Work under this Contract.

SURETY: The corporate body which is bound with the CONTRACTOR and which engages to be responsible for the CONTRACTOR and his acceptable performance of the Work.

WORK: Any and all obligations, duties and responsibilities necessary to the successful completion of the Project assigned to or undertaken by CONTRACTOR under the Contract Documents, including all labor, materials, equipment and other incidentals, and the furnishing thereof.

WRITTEN NOTICE: The term "Notice" as used herein shall mean and include all written notices, demands, instructions, claims, approvals, and disapprovals required to obtain compliance with Contract requirements. Written notice shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or to an authorized representative of such individual, firm or corporation, or if delivered at or sent by registered mail to the last business address known to him who gives the notice. Unless otherwise stated in writing, any notice to or demand upon the OWNER under this Contract shall be delivered to the OWNER through the ENGINEER.

ARTICLE 2 - PRELIMINARY MATTERS:

AWARD:

2.1 The award of the Contract, if it is awarded, will be to the lowest responsible, responsive Bidder. No Notice of Award will be given until the OWNER has concluded such investigations as he deems necessary to establish the responsibility, qualifications, and financial ability of the Bidders to do the Work in accordance with the Contract Documents to the satisfaction of the OWNER within the time prescribed. The OWNER reserves the right to reject the BID of any Bidder who does not pass such investigation to the OWNER'S satisfaction. In analyzing Bids, the OWNER may take into consideration alternates and unit prices, if requested by the Bid Form. If the Contract is awarded, the OWNER will issue the NOTICE of AWARD and give the successful Bidder a contract for execution within sixty (60) days after the opening of Bids.

EXECUTION OF AGREEMENT:

2.2 At least three counterparts of the Agreement and such other Contract Documents will be executed and delivered by CONTRACTOR to the OWNER within 10 working days or 15 calendar days of receipt from the OWNER.

FORFEITURE OF BID SECURITY:

2.3 Failure of the successful Bidder to execute and deliver the Agreement and deliver the required Bonds as stipulated in paragraph 2.2 shall be just cause for the OWNER to annul the Notice of Award and declare the Bid and any security therefore forfeited.

CONTRACTOR'S PRE-START REPRESENTATIONS:

2.4 CONTRACTOR represents that he has familiarized himself with, and assumes full responsibility for having familiarized himself with, the nature and extent of the Contract Documents, Work, Locality, and local conditions and will obey all federal, state, and local laws, ordinances, rules and regulations that may in any manner affect performance of the Work, and represents that he has correlated his study and observations with the requirements of the Contract Documents. CONTRACTOR also represents that he has studied all surveys and investigation reports of subsurface and latent physical conditions referred to in the Specifications and made such additional surveys and investigations as he deems necessary for the performance of the Work at the Contract Price in accordance with the requirements of the Contract Documents and that he has correlated the results of all such data with the requirements of the Contract Documents.

COMMENCEMENT OF CONTRACT TIME:

2.5 The Contract Time will commence to run no less than the 15 days after receipt by the CONTRACTOR of the Notice to Proceed.

STARTING THE PROJECT:

2.6 CONTRACTOR shall start to perform his obligations under the Contract Documents on the date when the Contract Time commences to run. No Work shall be done at the site prior to the date on which the Contract Time commences to run, except with the written consent of the OWNER.

BEFORE STARTING CONSTRUCTION:

2.7 Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. He shall at once report in writing to ENGINEER any conflict, error or discrepancy which he may discover; however, he shall be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Drawings or Specifications.

SCHEDULE OF COMPLETION:

2.8 Within ten (10) days after delivery of the Notice to Proceed by OWNER to CONTRACTOR, CONTRACTOR shall submit to ENGINEER an estimated progress schedule with earnings indicating the starting and completion dates of the various stages of the Work, and a preliminary schedule of Shop Drawing submissions. See paragraphs 6.22 through 6.26. The ENGINEER shall review and return this schedule or require revisions thereto within 14 days of its submittal. If there is more than one CONTRACTOR involved in a project, the responsibility for coordinating the Work of all CONTRACTORS shall be as provided in the Special Conditions.

2.9 Within twenty (20) days after delivery of the executed agreement by OWNER to CONTRACTOR, but before starting the Work at the site, a preconstruction conference will be held to review the above schedules, to establish procedures for handling shop drawings and other submissions and for processing Applications for Payment, and to establish a working understanding between the parties as to the project. Present at the conference will be the OWNER or his representative, ENGINEER, Resident Project Representatives, CONTRACTOR and his Superintendent.

QUALIFICATION OF SUBCONTRACTORS MATERIALMEN AND SUPPLIERS:

2.10 Within ten (10) working days after bid opening, the CONTRACTOR will (if required) submit to the OWNER and the ENGINEER for acceptance a list of the names of Subcontractors and such other persons and organizations (including those who are to furnish principal items of material or equipment) proposed for those portions of the Work as to which the identity of the Subcontractors and other person and organizations must be submitted as specified in the Contract Documents. Within thirty (30) working days after receiving the list, the ENGINEER will notify the CONTRACTOR in writing if either the OWNER or the ENGINEER, after due investigation, has reasonable objection to any Subcontractor, person or organization on such list. The failure of the OWNER or the ENGINEER to make objection to any Subcontractor, person or organization on the list within thirty days of receipt shall constitute an acceptance of such Subcontractor, person or organization. Acceptance of any such Subcontractor, person or organization shall not constitute a waiver of any right of the OWNER or the ENGINEER to reject defective Work, material or equipment, or Work, material or equipment not in conformance with the requirements of the Contract Documents.

ARTICLE 3 - CORRELATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS:

3.1 It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between the OWNER and the CONTRACTOR. They may be altered only by a Modification.

3.2 The Contract Documents are complementary; what is called for by one is as binding as if called for by all. If CONTRACTOR finds a conflict, error or discrepancy in the Contract Documents, he shall call it to the ENGINEER'S attention in writing at once and before proceeding with the Work affected thereby; however, he shall not be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Specifications or Drawings. The various Contract Documents shall be given precedence, in case of conflict, error or discrepancy, as follows: Agreement Modifications, Addenda, Special Conditions, and Instruction's to Bidders, General Conditions, Technical Specifications and Drawings.

3.3 The words "furnish, "furnish and install", "install", and "provide" or words with similar meaning shall be interpreted, unless otherwise specifically stated, to mean

"furnish and install complete in place and ready for service.

3.4 Miscellaneous items and accessories which are not specifically mentioned, but which are essential to produce a complete and properly operating installation, or usable structure or plant providing the indicated function, shall be furnished and installed without change in the Contract Price. Such miscellaneous items and accessories shall be of the same quality standards including material, style, finish, strength, class, weight and other applicable characteristics, as specified for the major component of which the miscellaneous item or accessory is an essential part, and shall be approved by the ENGINEER before installation. The above requirement is not intended to include major components not covered by or inferable from the Drawings and Specifications.

3.5 The Work of all trades under this Contract shall be coordinated by the CONTRACTOR in such a manner as to obtain the best workmanship possible for the entire Project, and all components of Work shall be installed or erected in accordance with the best practices of the particular trade.

3.6 Manufacturer's literature, when referenced, shall be dated and numbered and is intended to establish the minimum requirements acceptable. Whenever reference is given to codes or standard specifications or other data published by regulating agencies or accepted organizations, including but not limited to National Electrical Code, applicable State Building Code, Federal Specifications, ASTM Specifications, various institute specifications, and the like, it shall be understood that such reference is to the latest edition including addenda in effect on the date of Bid.

3.7 Brand names where used in the Technical Specifications, are intended to denote the standard of quality required for the particular material or product. The use of a brand name item is to set a standard of quality and is not intended to restrict the Contractor from offering an equal item from other source(s) of supply. The term "equal" or "equivalent" when used in connection with brand names, shall be interpreted to mean a material or product that is similar and equal in type, quality, size, capacity, composition, finish, color and other applicable characteristics to the material or product specified by trade name, and that is for the same use and capable of performing the same function, in the opinion of the ENGINEER, as the material or product so specified. Proposed equivalent items must be approved by ENGINEER before they are purchased or incorporated in the Work.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE CONDITIONS; REFERENCE POINTS:

Availability of Lands

4.1 The OWNER will furnish, as indicated in Contract Documents the lands upon which the Work is to be done, rights-of-way for access thereto, and such other lands which are designated for use of the CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the OWNER,

unless otherwise specified in the Contract Documents. Other access to such lands or rights-of-way for the CONTRACTOR'S convenience shall be the responsibility of the CONTRACTOR. The CONTRACTOR will provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.2 The OWNER will, upon request, furnish to the BIDDERS copies of all available boundary surveys.

Subsurface Conditions:

4.3 The CONTRACTOR acknowledges that he has investigated prior to bidding and satisfied himself as to the conditions affecting the Work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electric power, roads and uncertainties of weather, river stages, tides, water tables or similar physical conditions at the site, the conformation and conditions of the grounds, the character of equipment and facilities needed preliminary to and during prosecution of the Work. The CONTRACTOR further acknowledges that he has satisfied himself as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done on behalf of the OWNER on the site or any contiguous site, as well as from information presented by the Drawings and Specifications made a part of this Contract, or any other information made available to him prior to receipt of Bids. Any failure by the CONTRACTOR to acquaint himself with the available information will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the Work. The OWNER assumes no responsibility for any conclusions or interpretations made by the CONTRACTOR on the basis of the information made available by the OWNER.

Differing Site Conditions

4.4 (a) The CONTRACTOR shall promptly, and before such conditions are disturbed, notify the OWNER in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this contract, or (2) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract. The OWNER shall promptly investigate the conditions, and if he finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the contract modified in writing accordingly.

(b) No claim of the CONTRACTOR under this clause shall be allowed unless the CONTRACTOR has given the notice required in (a) above.

(c) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

ARTICLE 5 - BONDS AND INSURANCE:

Performance and Payment Bonds:

5.1 The contractor's attention is directed to the Information for Bidders.

Contractor's Liability Insurance:

5.2 The CONTRACTOR shall provide the OWNER with insurance certificates certifying that all required insurance is in force; and such insurance certificates shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without giving the OWNER advance notice by registered mail.

5.3 The CONTRACTOR agrees that if any part of the Work under the contract is sublet, he will require the Subcontractor(s) to carry insurance as required, and that he will require the Subcontractor(s) to furnish to him insurance certificates similar to those required by the OWNER in 5.1 above.

5.4 The CONTRACTOR agrees to add ENGINEER to insurance policy as additional insured.

Owner's Liability Insurance

5.4 The OWNER will be responsible for purchasing and maintaining his own liability insurance and, at his option, may purchase and maintain such insurance as will protect him against claims which may arise from operations under the Contract Documents.

Fire and Extended Coverage Insurance (Builders' Risk):

5.5 The CONTRACTOR shall maintain, as applicable, in an Insurance Company or Insurance Companies acceptable to the OWNER, Fire, Extended Coverage and Vandalism & Malicious Mischief Insurance on buildings and structures, while in the course of construction, including foundations, additions, attachments and all permanent fixtures belonging to and constituting a part of said buildings or structures. The policy or policies shall also cover machinery, if the cost of machinery is included in the Contract. The amount of insurance should at all times be at least equal to the actual cash value of the insured property. The policy shall be in the name of the OWNER and the CONTRACTOR, as their interests may appear, and shall also cover the interests of all Subcontractors performing work.

5.6 The CONTRACTOR shall provide the OWNER with satisfactory evidence certifying that the foregoing insurance is in force; and such evidence shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without

giving the OWNER advance notice by registered mail.

Cancellation and Re-Insurance:

5.7 If any insurance should be canceled or changed by the insurance company or should any insurance expire during the period of this Contract, the CONTRACTOR shall be responsible for securing other acceptable insurance to provide the coverage specified in this section to maintain continuous coverage during the life of this Contract.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES:

Supervision and Superintendence:

6.1 The CONTRACTOR will supervise and direct the Work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work. (Copies of written communications given to the Superintendent shall be mailed to the Contractor's home or office.)

Labor, Materials and Equipment:

6.2 The CONTRACTOR will provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. He will at all times maintain good discipline and order at the site.

6.3 The CONTRACTOR will furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, local telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of the Work.

6.4 All materials and equipment will be new, except as otherwise provided in the Contract Documents. When special makes or grades of material which are normally packaged by the supplier or manufacturer are specified or approved, such materials shall be delivered to the site in their original packages or container with seals unbroken and labels intact.

6.5 All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator or processors, except as otherwise provided in the Contract Documents.

Materials, Equipment, Products and Substitutions:

6.6 Materials, equipment and products incorporated in the Work must be approved for use before being purchased by the CONTRACTOR. The CONTRACTOR shall submit to the ENGINEER a list of proposed materials, equipment or products, together with such samples as may be necessary for him to determine their acceptability and obtain his approval, within ninety (90) calendar days after award of Contract. No request for payment for "or equal" equipment will be approved until this list has been received and approved by the ENGINEER.

6.6.1 Whenever a material, article or piece of equipment is identified on the drawings or Specifications by reference to brand names or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the Contract Documents by reference to brand names or catalog number, and if, in the opinion of the ENGINEER, such material, article, or piece of equipment is of equal substance and function to that specified, the ENGINEER may approve its substitution and use by the CONTRACTOR. Incidental charges or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the Contract Price, or Contract Time.

6.6.2 No substitute shall be ordered or installed without the written approval of the ENGINEER who shall be the judge of equality.

6.6.3 Delay caused by obtaining approvals for substitute materials will not be considered justifiable grounds for an extension of construction time.

6.6.4 Should any work or materials, equipment or products not conform to requirements of the Drawings and Specifications or become damaged during the process of the Work, such Work or materials shall be removed and replaced, together with any work disarranged by such alterations, at any time before completion and acceptance of the Project. All such work shall be done at the expense of the CONTRACTOR. (See paragraph 7.10)

6.6.5 No materials or supplies for the Work shall be purchased by the CONTRACTOR or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the Seller. The CONTRACTOR warrants that he has good title to all materials and supplies used by him in the Work.

Concerning Subcontractors:

6.7 The CONTRACTOR will not employ any Subcontractor, other person or organization of the types referred to in paragraph 2.10 (whether initially or as a

substitute) against whom the OWNER or the ENGINEER may have reasonable objection, not will the CONTRACTOR be required to employ any Subcontractor against whom he has reasonable objection. The CONTRACTOR will not make any substitution for any Subcontractor who has been accepted by the OWNER and the ENGINEER, unless the ENGINEER determines that there is good cause for doing so.

6.8 The CONTRACTOR shall be fully responsible for all acts and omissions of his Subcontractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relationship between OWNER or ENGINEER and any Subcontractor or other person or organization having a direct contract with CONTRACTOR, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any Subcontractor or other person or organization, except as may otherwise be required by law. OWNER or ENGINEER may furnish to any Subcontractor or other person or organization, to the extent practicable, evidence of amounts paid to CONTRACTOR on account of specific Work done in accordance with the schedule of values.

6.9 The divisions and sections of the Specifications and the identifications of any drawings shall not control the CONTRACTOR in dividing the work among Subcontractors or delineating the Work to be performed by any specific trade.

6.10 The CONTRACTOR agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the OWNER.

6.11 All Work performed for the CONTRACTOR by a Subcontractor shall be pursuant to an appropriate agreement between the CONTRACTOR and the Subcontractor.

6.12 The CONTRACTOR shall be responsible for the coordination of the trades, Subcontractors and material men engaged upon his Work.

6.12.1 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the CONTRACTOR by the terms of these General Conditions and other Contract Documents insofar as applicable to the Work of Subcontractors, and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWNER may exercise over the CONTRACTOR under any provisions of the Contract Documents.

6.12.2 The OWNER or ENGINEER will not undertake to settle any differences between the CONTRACTOR and his Subcontractors or between Subcontractors.

6.12.3 If in the opinion of the ENGINEER, any Subcontractor on the project proves to be incompetent or otherwise unsatisfactory, he shall be replaced if and when directed in writing.

Patent Fees and Royalties:

6.13 The CONTRACTOR will pay all license fees and royalties and assume all costs incident to the use of any invention, design, process or device which is the subject of patent rights or copyrights held by others. He will indemnify and hold harmless the OWNER and ENGINEER and anyone directly or indirectly employed by either of them from and against all claims, damages, losses, and expenses (including attorneys' fees) arising out of any infringement of such rights during or after completion of the Work, and shall defend all such claims in connection with any alleged infringement of such rights.

6.14 The CONTRACTOR shall be responsible for determining the application of patent rights and royalties on materials, appliances, articles or systems prior to bidding. However, he shall not be responsible for such determination on systems which do not involve purchase by him of materials, appliances, and articles.

Permits:

6.15 The CONTRACTOR will secure and pay for all construction permits and licenses and will pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of his Bid. When such charges are normally made by the OWNER, there will be no charges to the CONTRACTOR. The OWNER shall assist the CONTRACTOR, when necessary, in obtaining such permits and licenses. The CONTRACTOR will also pay all public utility charges.

Laws and Regulations:

6.16 The CONTRACTOR will give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work. If the CONTRACTOR observes that the Specifications or Drawings are at variance therewith, he will give the ENGINEER prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate Modification. If the CONTRACTOR performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the ENGINEER, he will bear all costs arising wherefrom; however, it shall not be his primary responsibility to make certain that the Drawings and Specifications are in accordance with such laws, ordinances, rules and regulations.

Taxes:

6.17 Cost of all sales and other taxes for which the CONTRACTOR is liable under the Contract shall be included in the Contract Price stated by the CONTRACTOR.

Record Drawings:

6.18 The CONTRACTOR will keep one record copy of all Specifications, Drawings,

Addenda, Modifications, and Shop Drawings at the site in good order and annotated to show all changes made during the construction process. These shall be available to the Engineer and shall be delivered to him for the OWNER upon completion of the Project. It shall be used for this purpose only.

Safety and Protection:

6.19 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to:

6.19.1 All employees on the work and other persons who may be affected thereby.

6.19.2 All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site.

6.19.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

6.20 The CONTRACTOR will designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the CONTRACTOR'S superintendent unless otherwise designated in writing by the CONTRACTOR to the OWNER.

Emergencies:

6.21 In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the CONTRACTOR, without special instruction or authorization from the ENGINEER or OWNER, is obligated to act, at his discretion, to prevent threatened damage, injury or loss. He will give the ENGINEER prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved. If the CONTRACTOR believes that additional work done by him in an emergency which arose from causes beyond his control entitles him to an increase in the Contract Price or an extension of the Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

Shop Drawing and Samples:

6.22 After checking and verifying all field measurements, the CONTRACTOR will submit to the ENGINEER for review, in accordance with the accepted schedule of Shop Drawing submissions (see paragraph 2.9) copies (or at the ENGINEER'S option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of the CONTRACTOR. The data shown on the Shop Drawings will be

complete with respect to dimensions, design criteria, materials of construction and the like to enable the ENGINEER to review the information as required.

6.23 The CONTRACTOR will also submit to the ENGINEER for review, with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and stamped with the approval of the CONTRACTOR, identified clearly as to material, manufacturer, any pertinent catalog numbers and the use for which intended.

6.24 At the time of each submission, the CONTRACTOR will in writing call the ENGINEER'S attention to any deviations that the Shop Drawings or sample may have from the requirements of the Contract Documents.

6.25 The ENGINEER will review with reasonable promptness Shop Drawings and samples, but his review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The review of a separate item as such will not indicate review of the assembly in which the item functions. The CONTRACTOR will make any corrections required by the ENGINEER and will return the required number of corrected copies of Shop Drawings and resubmit new samples until the review is satisfactory to the ENGINEER. The CONTRACTOR shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections called for by the ENGINEER on previous submissions. The CONTRACTOR'S stamp of approval on any Shop Drawings or sample shall constitute a representative to the OWNER and the ENGINEER that the CONTRACTOR has either determined and verified all quantities, dimensions, field construction criteria, materials, catalogue numbers and similar data or he assumes full responsibility for doing so, and that he has reviewed or coordinated each Shop Drawings or sample with the requirements of the Work and the Contract Documents.

6.26 No Work requiring a Shop Drawing or sample submission shall be commenced until the submission has been reviewed by the ENGINEER. A copy of each Shop Drawing and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER.

6.27 The ENGINEER'S review of Shop Drawings or samples shall not relieve the CONTRACTOR from his responsibility for any deviations from the requirements of the Contract Documents unless the CONTRACTOR has in writing called the ENGINEER'S attention to such deviation at the time of submission and the ENGINEER has given written approval to the specific deviation, nor shall any review by the ENGINEER relieve the CONTRACTOR from responsibility for errors or omission in the Shop Drawings.

<u>Cleaning Up:</u>

6.28 Site. The CONTRACTOR shall clean up behind the Work as much as is reasonably possible as the Work progresses. Upon completion of the Work, and before acceptance of and final payment for the Project by the owner, the CONTRACTOR shall

remove all his surplus and discarded materials excavated material and rubbish from the roadways, sidewalks, parking areas, lawns and all adjacent property; shall clean his portion of Work involved in any building under this Contract, so that no further cleaning by the OWNER is necessary prior to his occupancy; shall restore all property, both public and private, which has been disturbed or damaged during the prosecution of the Work; and shall leave the whole in a neat and presentable condition.

6.29 Clean-up operations shall consistently be carried on by the CONTRACTOR at all times to keep the premises free from accumulation of waste materials and rubbish. Upon completion of the Work he shall remove all rubbish, tools, scaffolding, surplus materials, etc., and shall leave his work "broom clean", or its equivalent, unless more exactly specified elsewhere in the Contract. The General CONTRACTOR shall do the following special cleaning for all trades upon completion of the Work:

6.30 General. In case of dispute, the OWNER may remove the rubbish and charge the cost to the several contractors as the ENGINEER shall determine to be just.

Public Convenience and Safety:

6.31 The CONTRACTOR shall, at all times, conduct the Work in such a manner as to insure the least practicable obstruction to public travel. The convenience of the general public and of the residents along and adjacent to the area of the Work shall be provided for in a satisfactory manner, consistent with the operation and local conditions. "Street Closed" signs shall be placed immediately adjacent to the Work, in a conspicuous position at such locations as traffic demands. At any time that streets are required to be closed, the CONTRACTOR shall notify law enforcement agencies, fire departments, and parties operating emergency vehicles before the street is closed and again as soon as it is opened. Access to fire hydrants and other fire extinguishing equipment shall be provided and maintained at all times.

Sanitary Provisions:

6.32 The General CONTRACTOR shall furnish necessary toilet conveniences, secluded from public observation, for use of all personnel on the Work, whether or not in his employ. They shall be kept in a clean and sanitary condition and shall comply with the requirements and regulations of the Public Authorities having jurisdiction. He shall commit no public nuisance. Temporary sanitary facilities shall be removed upon completion of the Work and the premises shall be left clean.

Indemnification:

6.33 The CONTRACTOR will indemnify and hold harmless the OWNER and the ENGINEER and their agents and employees from and against all claims, damages, losses, and expenses including attorneys' fees arising out of or resulting from the performance of the Work, provided that any such claim, damage, loss, or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible

property (other than Work itself) including the loss of use resulting wherefrom and (b) is caused in whole or in part by any negligent act or omission of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

6.34 In any and all claims against the OWNER or the ENGINEER or any of their agents or employees, by any employee of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.33 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workmen's compensation acts, disability benefit acts or other employee benefit acts.

6.35 The obligations of the CONTRACTOR under paragraph 6.33 shall not extend to the liability of the Engineer's negligent acts, errors or omissions or those of his employees or agents.

Responsibility for Connecting to Existing Work:

6.36 It shall be the express responsibility of the CONTRACTOR to connect his Work to each part of the existing work or work previously installed as required by the Drawings and Specifications to provide a complete installation.

Work in Street, Highway and Other Rights-of-Way:

6.37 Excavation, grading, fill, storm drainage, paving and any other construction or installations in rights-of-way of streets, highways, public carrier lines, utility lines (either aerial, surface or subsurface), etc., shall be done in accordance with requirements of the special conditions. The OWNER will be responsible for obtaining all permits necessary for the work. Upon completion of the Work, CONTRACTOR shall present to ENGINEER certificates, in triplicate, from the proper authorities stating that the Work has been done in accordance with their requirements.

6.37.1 The OWNER will cooperate with the CONTRACTOR in obtaining action from any utilities or public authorities involved in the above requirements.

6.37.2 The ENGINEER shall be responsible for obtaining elevations of curbs and gutters, pavement, storm drainage structures, and other such items which must be established by governmental departments as soon as grading operations are begun on the site and, in any case, sufficiently early in the construction period to prevent any adverse effect on the Project.

Cooperation with Governmental Departments, Public Utilities, Etc:

6.38 The OWNER shall be responsible for making all necessary arrangements with governmental departments, public utilities, public carriers, service companies and

corporations owning or controlling roadways, railways, water, sewer, gas, electrical, telephone, and telegraph facilities such as pavements, tracks, piping, wires, cables, conduits, poles, guys, etc., including incidental structure connected therewith, that are encountered in the work in order that such items may be properly shored, supported and protected, or the CONTRACTOR may relocate them if he so desires. The CONTRACTOR shall give all proper notices, shall comply with requirements of such parties in the performance of his Work, shall permit entrance of such parties on the Project in order that they may perform their necessary work, and shall pay all charges and fees made by such parties for this work.

6.38.1 The CONTRACTOR'S attention is called to the fact that there may be delays on the Project due to work to be done by governmental departments, public utilities, and others in repairing or moving poles, conduits, etc. The CONTRACTOR shall cooperate with the above parties, in every way possible, so that the construction can be completed in the least possible time.

6.38.2 The CONTRACTOR shall have made himself familiar with all codes, laws, ordinances and regulations which in any manner affect those engaged or employed in the Work, or materials and equipment used in or upon the Work, or in any way affect the conduct of the Work, and no plea of misunderstanding will be considered on account of his ignorance thereof.

Use of Premises:

6.39 CONTRACTOR shall confine his apparatus, storage of materials, and operations of his workmen to limits indicated by law, ordinances, permits, and directions of ENGINEER and OWNER, and shall not unnecessarily encumber any part of site.

6.39.1 CONTRACTOR shall not overload or permit any part of any structure to be loaded with such weight as will endanger its safety, nor shall he subject any part of the Work to stresses or pressures that will endanger it.

6.39.2 CONTRACTOR shall enforce OWNER'S instructions in connection with signs, advertisements, fires and smoking.

6.39.3 CONTRACTOR shall arrange and cooperate with OWNER in routing and parking of automobiles of his employees, subcontractors and other personnel and in routing material delivery trucks and other vehicles to the Project Site.

Protection of Existing Property Improvements:

6.40 Any existing surface or subsurface improvements, such as pavements, curbs, sidewalks, pipes or utilities, footings or structures (including portions thereof), trees, and shrubbery not indicated on the Drawings or noted in the Specifications as being removed or altered shall be protected from damage during construction of the Project. Any such improvements damaged during construction of the Project shall be restored to a

condition equal to that existing at time of award of Contract.

Temporary Heat:

6.41 The General CONTRACTOR shall provide heat, fuel and services as necessary to protect all work and materials, within all habitable areas of permanent building construction, for all contracts against injury from dampness and cold until final acceptance of all work and materials for the Project, unless building is fully occupied by the OWNER prior to such acceptance, in which case the OWNER shall assume all expenses of heating from date of full occupancy. In areas outside those covered above, each prime contractor shall be responsible for providing such temporary heat, fuel and services as required to protect his work or shall make all necessary arrangements with the General CONTRACTOR for providing such temporary heat, fuel and services. Unless otherwise specifically permitted by Special Conditions, the permanent heating system shall not be used to provide temporary heat. CONTRACTOR'S proposed methods of heating shall be submitted for approval.

ARTICLE 7 - WORK BY OTHERS:

7.1 The OWNER may perform additional work related to the Project by himself, or he may let other direct contracts therefore which shall contain General Conditions similar to these. The CONTRACTOR will afford the other contractors who are parties to such direct contracts (or the OWNER, if he is performing the additional work himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of work, and shall properly connect and coordinate his Work with theirs.

7.2 If any part of the CONTRACTOR'S work depends for proper execution or results upon the work of any such other CONTRACTOR (or the OWNER), the CONTRACTOR will promptly report to the ENGINEER in writing any defects or deficiencies in such work that render it unsuitable for such proper execution and results.

7.3 The CONTRACTOR will do all cutting, fitting, and patching of his Work that may be required to make its several parts come together properly and fit it to receive or be received by such other work. The CONTRACTOR will not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of the ENGINEER and of the other contractors whose work will be affected.

7.4 If the performance of additional work by other contractors or the OWNER is not noted in the Contract Documents prior to the execution of the Contract, written notice thereof shall be given to the CONTRACTOR prior to starting any such additional work. If the CONTRACTOR believes that the performance of such additional work by the OWNER or others involves him in additional expense or entitles him to an extension of the Contract Time, he may make a claim therefore as provide in Articles 11 and 12.

7.5 Where practicable, the General CONTRACTOR shall build around the work of other

separate contractors or shall leave chases, slots and holes as required to receive and to conceal within the general construction work the work of such other separate contractors as directed by them. Where such chases, slots, etc., are impracticable, the work shall require specific approval of the ENGINEER.

7.6 Necessary chases, slots and holes not built or left by the General CONTRACTOR shall be cut by the separate contractor requiring such alterations after approval of the General CONTRACTOR. The General CONTRACTOR shall do all patching and finishing of his Work where cut by other contractors at the expense of such other contractors.

7.7 Cooperation is required in the use of site facilities and in the detailed execution of the Work. Each CONTRACTOR shall coordinate his operations with those of the other contractors for the best interest of the Work in order to prevent delay in the execution thereof.

7.8 Each CONTRACTOR shall keep himself informed of the progress of the work of other contractors. Should lack of progress or defective workmanship on the part of other contractors interfere with his operations, the CONTRACTOR shall notify the ENGINEER immediately. Lack of such notice to the ENGINEER will be construed as acceptance by the CONTRACTOR of the status of the work of other contractors as being satisfactory for proper coordination of his own work.

7.9 Each CONTRACTOR shall give notices of the progress of his work so as to allow other contractors adequate opportunity to properly direct and coordinate their work. The General Contractor shall give notices of the progress of his Work so that work of other contractors, when required to be concealed, may be placed before the general construction Work. All such notices shall be submitted to the ENGINEER with copies to other prime contractors on the Project sufficiently ahead of job progress to permit adequate time for the other prime contractors to coordinate their work.

7.10 The cost of extra work resulting from lack of notices, untimely notices, failure to respond to notices, defective work or lack of coordination shall be borne by the CONTRACTOR responsible for such lack of notices, etc.

ARTICLE 8 - OWNER'S RESPONSIBILITIES:

8.1 The OWNER will issue all communications to the CONTRACTOR through the ENGINEER.

8.2 In case of termination of the employment of the ENGINEER, the OWNER will appoint an engineer against whom the CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER. Any dispute in connection with such appointment shall be subject to arbitration, if mutually agreeable.

8.3 The OWNER will furnish the data required of him under the Contract Documents

promptly and shall make payments to the CONTRACTOR promptly after they are due as provided in Article 14.

8.4 OWNER'S duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1, 4.4 and the Special Conditions. Paragraphs 4.2 and 4.3 refer to OWNER'S identifying and making available to CONTRACTOR copies of surveys and investigation reports of subsurface and latent physical conditions at the site or otherwise affecting performance of the Work which have been relied upon by ENGINEER in preparing the Drawings and Specifications.

8.5 The OWNER'S responsibilities in respect of liability and property insurance are set forth in paragraph 5.4.

8.6 In addition to his rights to request changes in the Work in accordance with Article 10, the OWNER (especially in certain instances as provided in paragraph 10.4) will be obligated to execute Change Orders.

8.7 In connection with the OWNER'S right to stop Work or suspend Work; see paragraph 15.1. Paragraph 15.3 deals with the OWNER'S right to terminate services of the CONTRACTOR under certain circumstances.

8.8 The OWNER shall have the right to take possession of and use any completed or partially completed portions of the Work, notwithstanding the fact that the time for completing the entire Work or any portion thereof may not have expired; but such taking possession and use shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the Work, the CONTRACTOR shall be entitled to such extra compensation or extension of time or both, except by prior agreement, as the ENGINEER may determine. See paragraph 14.11.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION:

Owner's Representative:

9.1 The ENGINEER shall be the OWNER'S representative during the construction period. The duties and responsibilities and the limitations of authority of the ENGINEER as the OWNER'S representative during construction are set forth in Articles 1 through 17 of these General Conditions and shall not be extended without written consent of the OWNER and the ENGINEER.

9.1.1 The ENGINEER'S decision, in matters relating to aesthetics shall be final, if within the terms of the Contract Documents.

9.1.2 Except as may be otherwise provided in this contract all claims, counter-claims, disputes and other matters in question between the OWNER and the CONTRACTOR

arising out of or relating to this agreement or the breach thereof will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the State in which the OWNER is located.

Visits to Site:

9.2 The ENGINEER will make periodic visits to the site to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents. He will not be required to make continuous on-site observations to check the quality or quantity of the Work. His efforts will be directed toward ascertaining on behalf of the OWNER that the completed Project will conform to the requirements of the Contract Documents. On the basis of his on-site observations as an experienced and qualified design professional, he will keep the OWNER informed of the progress of the Work and will endeavor to guard the OWNER against defects and deficiencies in the Work of contractors.

Clarifications and Interpretations:

9.3 The ENGINEER will issue with reasonable promptness such written clarification or interpretations of the Contract Documents (in the form of Drawings or otherwise) as he may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. If the Contractor believes that a written clarification and interpretation entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

Measurement of Quantities:

9.4 All Work completed under the Contract will be measured by the ENGINEER according to the United States Standard Measures. All linear surface measurements will be made horizontally or vertically as required by the item measured.

Rejecting Defective Work:

9.5 The ENGINEER will have authority to disapprove or reject Work which is "defective" (which term is hereinafter used to describe Work that is unsatisfactory, faulty or defective, or does not meet the requirements of any inspection, test or approval or has been damaged prior to final acceptance). He will also have authority to require special inspection or testing of the Work whether or not the Work is fabricated, installed or completed.

Shop Drawings, Change Orders and Payments:

9.6 In connection with the ENGINEER'S responsibility as to Shop Drawings and samples, see paragraphs 6.22 through 6.27, inclusive.

9.7 In connection with the ENGINEER'S responsibility for Change Orders; see Articles 10, 11, and 12.

9.8 In connection with the ENGINEER'S responsibilities in respect of Application for Payment, etc., see Article 14.

Resident Project Representative:

9.9 The OWNER or the ENGINEER will provide on-site representation sufficient to guarantee that construction is in general compliance with the construction drawings and the contract specifications.

Decisions on Disagreements:

9.10 The ENGINEER will be the initial interpreter of the terms and conditions of the Contract Documents and the judge of the performance hereunder. In his capacity as interpreter and judge, he will exercise his best efforts to insure faithful performance by both the OWNER and the CONTRACTOR. He will not show partiality to either and shall not be liable for the result of any interpretation or decision rendered in good faith. Claims, disputes and other matters relating to the execution and progress of the Work or the interpretation of or performance under the Contract Documents shall be referred initially to the ENGINEER for decision; which he shall render in writing within a reasonable time.

9.11 Either the OWNER or the CONTRACTOR, if the other agrees, may request legal action with respect to any such claim, dispute or other matter that has been referred to the ENGINEER, except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.11, such legal action to be in accordance with Article 16. However, no request for legal action of any such claim, dispute or other matter shall be made until the earlier of (a) the date on which the ENGINEER has rendered his decision or (b) the tenth day after the parties have presented their evidence to the ENGINEER if he has not rendered his written decision before that date. No request for legal action shall be made later than thirty (30) days after the date on which the ENGINEER rendered his written decision in respect of the claim, dispute or other matter as to which legal action is sought; and the failure to request legal action within said thirty (30) days period shall result in the ENGINEER'S decision being final and binding upon the OWNER and the CONTRACTOR. If the ENGINEER renders a decision after legal proceedings have been initiated, such decision may be entered as evidence but shall not supersede the legal proceedings, except where the decision is acceptable to the parties concerned.

Limitations on Engineer's Responsibilities:

9.12 Neither the ENGINEER'S authority to act under this Article 9 nor any decision made by him in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the ENGINEER to the CONTRACTOR, any Subcontractor,

any of their agents or employees or any other person performing any of the Work.

9.13 The ENGINEER will not be responsible for the construction means, methods, techniques, sequences or procedures, or the safety precautions and programs incident thereto, and he will not be responsible for the CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

9.14 The ENGINEER will not be responsible for the acts or omissions of the CONTRACTOR, or any Subcontractors, or any of his or their agents or employees, or any other person performing any of the Work.

ARTICLE 10 - CHANGES IN THE WORK:

10.1 Without invalidating the Agreement, the OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work; these will be authorized by Change Orders. Upon receipt of a Change Order, the CONTRACTOR will proceed with the Work involved. All such Work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, an equitable adjustment will be made as provided in Article 11 or Article 12. A Change Order signed by the CONTRACTOR indicates his agreement therewith.

10.2 The ENGINEER may authorize minor changes or alterations in the Work not involving extra cost and not inconsistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order. If the CONTRACTOR believes that any minor change or alteration authorized by the ENGINEER entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

10.3 Additional Work performed by the CONTRACTOR without authorization of a Change Order will not entitle him to an increase in the Contract Price or an extension of the Contract Time, except in the case of an emergency as provided in paragraph 6.21 and except as provided in paragraph 10.2.

10.4 The OWNER will execute appropriate Change Orders prepared by the ENGINEER covering changes in the Work to be performed as provided in paragraph 4.4, and Work performed in an emergency as provided in paragraph 6.21 and any other claim of the CONTRACTOR for a change in the Contract Time or the Contract Price which is approved by the ENGINEER.

10.5 It is the CONTRACTOR'S responsibility to notify his surety of any changes affecting the general scope of the Work or change in the Contract Price and the amount of the applicable bonds shall be adjusted accordingly. The CONTRACTOR will furnish proof of such adjustment to the OWNER.

ARTICLE 11 - CHANGE OF CONTRACT PRICE:

11.1 The Contract Price constitutes the total compensation payable to the CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the CONTRACTOR shall be at his expense without changing the Contract Price.

11.2 (a) The OWNER may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make any change in the Work within the general scope of the contract, including but not limited to changes:

(1) In the specifications (including drawings and designs);
(2) In the method or manner of performance of the work;
(3) In the Owner-furnished facilities, equipment, materials, services, or site; or
(4) Directing acceleration in the performance of the work.

(b) Any other written order or an oral order (which terms as used in this paragraph (b) shall include direction, instruction, interpretation or determination) from the OWNER, which causes any such change, shall be treated as a change order under this clause, provided that the CONTRACTOR gives the OWNER written notice stating the date, circumstances, and source of the order and that the CONTRACTOR regards the order as a change order.

(c) Except as herein provided, no order, statement, or conduct of the OWNER shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment hereunder.

(d) If any change under this clause causes an increase or decrease in the CONTRACTOR'S cost of, or the time required for, the performance of any part of the work under this contract, whether or not changed by any order, an equitable adjustment shall be made and the contract modified in writing accordingly: PROVIDED, HOWEVER, that except for claims based on defective specifications, no claim for any change under (b) above shall be allowed for any costs incurred more than 20 days before the CONTRACTOR gives written notice as therein required. And provided further, that in the case of defective specifications for which the OWNER is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the CONTRACTOR in attempting to comply with such defective specifications.

(e) If the CONTRACTOR intends to assert a claim for an equitable adjustment under this clause, he must, within 30 days after receipt of a written change order under (a) above or the furnishing of a written notice under (b) above, submit to the OWNER a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the OWNER. The statement of claim hereunder may be included in the notice under (b) above.

(f) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

11.3 The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

11.3.1 Where the Work involved is covered by unit prices contained in the Contract

Documents by application of unit prices to the quantities of the items involved. Should the Work (by quantity) be increased or decreased by 15 per cent from that stipulated in the Contract Documents, the OWNER and the CONTRACTOR may request adjustment of the unit prices by negotiation. If negotiation fails to reach agreement, then either party may request arbitration for the volume in excess of the 15 per cent differential.

11.3.2 By negotiated lump sum.

11.3.3 The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the work plus a fixed amount to be agreed upon to cover the cost of general overhead and profit to be negotiated.

11.4 The term Cost of the Work means the sum of all costs necessarily incurred and paid by the CONTRACTOR in the proper performance of the Work. Except as otherwise maybe agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 11.5:

11.4.1 Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to salaries and wages plus the costs of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workmen's compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Sunday or legal holidays shall be included in the above to the extent authorized by OWNER.

11.4.2 Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and manufacturer's field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

11.4.3 Payments made by CONTRACTOR to the Subcontractors for Work performed by

Subcontractors. If required by OWNER, CONTRACTOR shall obtain competitive bids from Subcontractors acceptable to him and shall deliver such Bids to OWNER who will then determine with the advice of ENGINEER, which Bids will be accepted. If a subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work plus a Fee, the cost of the Work shall be determined in accordance with paragraphs 11.4 and 11.5.

11.4.4 Costs of special consultants (including but not limited to, engineers, architects, testing laboratories, surveyors, lawyers and accountants) employed for services specifically related to the Work.

11.4.5 Supplemental costs including the following:

11.4.5.1 The proportion of necessary transportation, travelling and subsistence expenses of CONTRACTOR'S employees incurred in discharge of duties connected with the Work.

11.4.5.2 Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workmen, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of CONTRACTOR.

11.4.5.3 Rentals of all construction equipment and machinery and the parts thereof whether rented from CONTRACTOR or other in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the cost of transportation, loading, unloading, installation, dismantling and removal thereof--all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall end when the use thereof is no longer necessary for the Work.

11.4.5.4 Sales, use or similar taxes related to the Work, and for which CONTRACTOR is liable imposed by any governmental authority.

11.4.5.5 Deposits lost for causes other than CONTRACTOR'S negligence, royalty payments and fees for permits and licenses. Costs for permits and licenses must be shown as a separate item.

11.4.5.6 Losses, damages and expenses, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the execution of, and to, the Work, provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of Work for the purpose of determining CONTRACTOR'S fee. If however, any such loss or damage requires reconstruction and CONTRACTOR is placed in charge thereof, he shall be paid for his services a fee proportionate to that

stated in paragraph 11.6.2.

11.4.5.7 The cost of utilities, fuel and sanitary facilities at the site.

11.4.5.8 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.

11.4.5.9 Cost of premiums for additional Bonds and Insurance required because of changes in the Work.

11.5 The term cost of the Work shall not include any of the following:

11.5.1 Payroll costs and other compensation of CONTRACTOR'S officers, executives, principals, (of partnership and sole proprietorships), general managers, engineers, architects, estimators, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in his principal or a branch office for general administration of the Work and not specifically included in the schedule referred to in subparagraph 11.4.1 -- all of which are to be considered administrative costs covered by the CONTRACTOR'S Fee.

11.5.2 Expenses of CONTRACTOR'S principal and branch offices other than his office at the site.

11.5.3 Any part of CONTRACTOR'S capital expenses, including interest on CONTRACTOR'S capital employed for the Work and charges against CONTRACTOR'S for delinquent payments.

11.5.4 Cost of premiums for all bonds and for all insurance policies whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except as otherwise provide in subparagraph 11.4.5.9.)

11.5.5 Costs due to the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable including but not limited to, the correction of defective work, disposal of materials or equipment wrongly supplied and making good any damage to property.

11.5.6 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 11.4.

11.6 The CONTRACTOR'S Fee which shall be allowed to CONTRACTOR for his overhead and profit shall be determined as follows;

11.6.1 A mutually acceptable firm fixed price; or if none can be agreed upon,

11.6.2 A mutually acceptable fixed fee based on the estimate of the various portions of the Cost of the Work.

11.7 The amount of credit to be allowed by CONTRACTOR to OWNER for any such change which results in a net decrease in cost will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the net shall be computed to include overhead and profit, identified separately, for both additions and credits.

11.8 Whenever the cost of any Work is to be determined pursuant to paragraphs 11.4 and 11.5, CONTRACTOR will submit in form prescribed by ENGINEER an itemized cost breakdown together with supporting data.

11.9 Allowances: It is understood that the CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be done by such material men, suppliers, or Subcontractors and for such sums within the limit of the allowances as the ENGINEER may approve. Upon final payment, the Contract Price shall be adjusted as required and an appropriate Change Order issued. The CONTRACTOR agrees that the original Contract Price includes such sums as he deems proper for costs and profit on account of cash allowances. No demand for additional cost or profit in connection therewith will be allowed.

11.9.1 These allowances shall cover the cost to the CONTRACTOR less any applicable trade discount, of the materials and equipment required by the allowance delivered at the site, and all applicable taxes.

11.9.2 The CONTRACTOR'S costs for unloading and handling on site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Price and not in the allowance.

11.9.3 Whenever the cost, as described in 11.9.1 above, is more than or less than the allowance, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order will recognize changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses, except that whenever unit price allowances are stipulated for brick, the Change Order will not include any cost as described in 11.5 above.

ARTICLE 12 - CHANGE OF THE CONTRACT TIME:

12.1 The Contract Time may only be changed by a Change Order. Any claim for an extension in the Contract Time shall be based on written notice delivered to OWNER and ENGINEER within ten days of the occurrence of the event giving rise to the claim. Notice of the extent of the claim with supporting data shall be delivered within forty-five days of such occurrence unless ENGINEER allows an additional period of time to

ascertain more accurate data. All claims for adjustment in the Contract Time shall be determined by ENGINEER if OWNER and CONTRACTOR cannot otherwise agree. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.

12.2 The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of CONTRACTOR if he makes a claim therefore as provided in paragraph 12.1. Such delays shall include, but not be restricted to, acts or neglect by any separate contractor employed by OWNER, fires, floods, labor disputes, epidemics, abnormal weather conditions, or acts of God.

12.3 All time limits stated in the Contract Documents are of the essence of the Agreement. The provisions of the Article 12 shall not exclude recovery for damages (including compensation for additional professional services) for delay by either parties.

12.4 No claim for delay shall be allowed because of failure to furnish Drawings until two weeks after demand for such drawings and not then unless such claim be reasonable.

12.5 This article does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

ARTICLE 13 - GUARANTY:

13.1 The CONTRACTOR shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs or adjustments, in the Work that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

ARTICLE 14 - PAYMENTS AND COMPLETION:

Payments to Contractors:

14.1 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored

at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within thirty (30) days of presentation to him of an approved partial payment estimate, pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate. The OWNER may retain a portion of the amount otherwise due the CONTRACTOR. Except as State law otherwise provides, the amount the OWNER retains shall be limited to the following:

14.1.1 Withholding of not more than 10 per cent of the payment claimed until work is 50 per cent complete;

14.1.2 When Work is 50 per cent complete, reduction of the withholding to 5 per cent of the dollar value of all Work satisfactorily completed to date, provided that the CONTRACTOR is making satisfactory progress and there is no specific cause for greater withholding;

14.1.3 When the Work is substantially complete (operational or beneficial occupancy), the withheld amount shall be further reduced below 5 per cent to only that amount necessary to assure completion.

14.1.4 The OWNER may reinstate up to 10 per cent withholding if the OWNER determines, at its discretion, that the CONTRACTOR is not making satisfactory progress or there is other specific cause for such withholding.

Contractor's Warranty of Title:

14.2 The CONTRACTOR warrants and guarantees that title to all work, materials and equipment covered by an Application for Payment, whether incorporated in the Project or not, will have passed to the OWNER prior to the making of the Application for payment, free and clear of all liens, claims, security interests and encumbrances (hereafter in these General Conditions referred to as "Liens") and that no work, materials or equipment covered by an Application for Payment will have been acquired by the CONTRACTOR or by any other person performing the Work at the Site or furnishing materials and equipment for the Project, subject to an agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the CONTRACTOR or such other person.

Approval of Payments:

14.3 The ENGINEER'S approval of any payment requested in an Application for Payment shall constitute a representation by him to the OWNER, based on the ENGINEER'S on-site observations of the Work in progress as an experienced and

qualified design professional and on his review of the Application of Payment and the supporting data, that the Work has progressed to the point indicated; That, to the best of his knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents and any qualifications stated in his approval), and that the CONTRACTOR is entitled to payment of the amount approved. However, by approving any such payment, the ENGINEER shall not thereby be deemed to have represented that he made exhaustive or continuous on-site observations to check the quality or the quantity of the Work, or that he has reviewed the means, methods, techniques, sequences, and procedures of construction or that he has made any examination to ascertain how or for what purpose the CONTRACTOR has used the moneys paid or to be paid to him on account of the Contract Price, or that title to any Work, materials, or equipment has passed to the OWNER free and clear of any Liens.

14.4 The CONTRACTOR shall make the following certification on each request for payment:

"I hereby certify that the labor and materials listed on this request for payment has been used in the construction of this work or that all materials included in this request for payment and not yet incorporated into the construction are now on the site or stored at an approved location; and payment received from the last request for payment has been used to make payments to all first tier subcontractors and suppliers except as listed below."

14.5 The ENGINEER'S approval of final payment shall constitute an additional representation by him to the OWNER that the conditions precedent to the CONTRACTOR'S being entitled to final payment as set forth in paragraph 14.11 have been fulfilled.

14.6 The ENGINEER may refuse to approve the whole or any part of any payment if, in his opinion, he is unable to make such representations to the OWNER. He may also refuse to approve any such payment, because of subsequently discovered evidence or the results of subsequent inspections or tests nullify any such payment previously approved, to such extent as may be necessary in his opinion to protect the OWNER from loss because:

14.6.1 The Work is defective, or completed Work has been damaged requiring correction or replacement,

14.6.2 The Work for which payment is request cannot be verified,

14.6.3 Claims or Liens have been filed or there is reasonable evidence indicating the probable filing thereof,

14.6.4 The Contract Price has been reduced because of Modifications,

14.6.5 The OWNER has been required to correct defective Work or complete the Work in accordance with paragraph 13.1,

14.6.6. Of unsatisfactory prosecution of the Work, including failure to clean up as required by paragraphs 6.29 and 6.30,

14.6.7. Of persistent failure to cooperate with other contractors on the Project and persistent failure to carry out the Work in accordance with the Contract Documents,

14.6.8. Of liquidated damages payable by the CONTRACTOR or,

14.6.9. Of any other violation of, or failure to comply with, the provisions of the Contract Documents.

14.7 Prior to Substantial Completion, the OWNER, with the approval of the ENGINEER and with the concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the Work. Such use shall not constitute and acceptance of such portions of the Work.

14.8 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the Contract Documents. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the Work, or restoration of any damaged Work, except such as may be caused by agents or employees of the OWNER.

14.9 Upon completion and acceptance of the Work, the ENGINEER shall issue a certificate attached to the final payment request that the Work has been accepted by him under the conditions of the Contract Documents. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (30) days of completion and acceptance of the Work.

14.10 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the Work. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment

made under the Contract Documents by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

Acceptance of Final Payment as Release:

14.11 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this Work and for every act and neglect of the OWNER and others relating to or arising out of this Work. Any payment however, final or otherwise, shall not release the CONTRACTOR or his sureties from any obligations under the Contract Documents or the Performance Bond and Payment Bonds.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION:

Owner May Suspend Work:

15.1 The OWNER may, at any time and without cause, suspend the Work or any portion thereof for a period of not more than ninety days by notice in writing to the CONTRACTOR and the ENGINEER which shall fix the date on which Work shall be resumed. The CONTRACTOR will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if he makes a claim therefore as provided in Articles 11 and 12.

Work During Inclement Weather:

15.2 No Work shall be done under these Specifications except by permission of the OWNER when the weather is unfit for good and careful work to be performed. Should the severity of the weather continue, the CONTRACTOR, upon the direction of the OWNER, shall suspend all work until instructed to resume operations by the OWNER and the Contract Time shall be extended to cover the duration of the order. Work damaged during periods of suspension due to inclement weather shall be repaired and/or replaced by the CONTRACTOR. Any compensation for repairs or replacements shall be subject to approval of the OWNER.

Owner May Terminate:

15.3 If the CONTRACTOR is adjudged bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the CONTRACTOR or for any of his property; or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or similar laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to Subcontractors or for labor, materials or

equipment or he disregards laws, ordinances, rules regulations or orders of any public body having jurisdiction, or if he disregards the authority of the ENGINEER, or if he otherwise violates any provision of the Contract Documents, then the OWNER may without prejudice to any other right or remedy and after giving the CONTRACTOR and his surety seven days written notice, terminate the services of the CONTRACTOR and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the CONTRACTOR, and finish the Work by whatever method he may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR or the Surety will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER and incorporated in a Change Order.

15.4 Where the CONTRACTOR'S services have been so terminated by the OWNER, said terminations shall not affect any rights of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys by the OWNER due the CONTRACTOR will not release the CONTRACTOR from liability.

15.5 Upon seven days written notice to the CONTRACTOR and the ENGINEER, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the Project and terminate the Agreement. In such case, the CONTRACTOR shall be paid for all Work executed and any expense sustained plus a reasonable profit.

Removal of Equipment:

15.6 In the case of termination of this Contract before completion, for any cause whatever, the CONTRACTOR if notified to do so by the OWNER, shall promptly remove any part or all of his equipment and supplies from the property of the OWNER. Should the CONTRACTOR not remove such equipment and supplies, the OWNER shall have the right to remove them at the expense of the CONTRACTOR. Equipment and supplies shall not be construed to include such items for which the CONTRACTOR has been paid in whole or in part.

Contractor May Stop Work or Terminate:

15.7 If, through no act or fault of the CONTRACTOR, the Work is suspended for a period of more than ninety (90) days by the OWNER or under an order of court or other public authority, or the ENGINEER fails to act on any Application for Payment within thirty (30) days after it is submitted, or the OWNER fails to pay the CONTRACTOR any sum approved by the ENGINEER or awarded by court ruling within thirty (30) days of its approval and presentation, then the CONTRACTOR may, upon seven (7) days written notice to the OWNER and the ENGINEER, terminate the Agreement and recover from the OWNER payment for all Work executed and any expense sustained plus a reasonable profit. In addition and in lieu of terminating the Agreement, if the ENGINEER has failed

to act on an Application for Payment or the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon seven (7) days notice to the OWNER and the ENGINEER stop the Work until he has been paid all amounts then due.

Owner Furnished Equipment:

15.8 In case the OWNER furnishes equipment to the CONTRACTOR to install, but fails to deliver it to the CONTRACTOR as required and in case such failure causes the CONTRACTOR additional expense or need for extension of time, the CONTRACTOR may make such claims upon the OWNER and obtain adjustments as provided herein.

Liquidated Damages:

15.9 If the CONTRACTOR shall fail to complete the work within the contract time, or extension of time granted by the OWNER, then the CONTRACTOR will pay to the OWNER the amount for liquidated damages as specified in the Contract Documents for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the Contract Documents.

ARTICLE 16 - DISPUTE SETTLEMENT:

16.1 All claims, disputes and other matters in question arising out of, or relating to, this Agreement or the breach thereof except for claims which have been waived by the making or acceptance of final payment as provided by paragraph 14.11, shall be decided in a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS:

17.1 Whenever any provision of the Contract Documents requires the giving of written notice it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to him who gives the notice.

17.2 If the OWNER fails to make payment thirty (30) days after approval by the ENGINEER, in addition to other remedies available to the CONTRACTOR, there shall be added to each such progress payment, interest at 1% per month commencing on the first day after said payment is due and continuing until the payment is received by the CONTRACTOR.

17.3 All Specifications, Drawings and copies thereof furnished by the ENGINEER shall remain his property. They shall not be used on another Project, and, with the exception of those sets which have been signed in connection with the execution of the Agreement, shall be returned to him on request upon completion of the Project.

17.4 The duties and obligations imposed by these General Conditions, and the rights and remedies available hereunder, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 6.36 and 14.3 and the rights and remedies available to OWNER and ENGINEER there under, shall be in addition to, and shall not be construed in any way as a limitation of, any rights and remedies available by law, by special guarantee or by other provisions of the CONTRACT DOCUMENTS.

17.5 Should the OWNER or the CONTRACTOR suffer injury or damage to its person or property because of any error, omission or act of the other or of any of his employee or agents or others for whose acts he is legally liable, claim shall be made in writing to the other party within a reasonable time of the first observance of such injury or damage.

17.6 The CONTRACT DOCUMENTS shall be governed by the law of the place of the Project.

Progress Charts and Requirements for Overtime Work

17.7 The CONTRACTOR shall within 5 days or within such time as determined by the OWNER after date of commencement of work prepare and submit to the OWNER for approval a practicable schedule, showing the order in which the CONTRACTOR proposes to carry on the work, the date on which he will start the several salient features (including procurement of materials, plans and equipment) and the contemplated dates for completing the same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion at any time. The CONTRACTOR shall enter on the chart the actual progress at such intervals as directed by the OWNER and shall immediately deliver to the OWNER three (3) copies thereof. If the CONTRACTOR fails to submit a progress schedule within the time herein prescribed, the owner may withhold approval of progress payment estimates until such time as the CONTRACTOR submits the required progress schedule.

If, in the opinion of the OWNER, the CONTRACTOR falls behind the progress schedule, the CONTRACTOR shall take such steps as may be necessary to improve his progress and the OWNER may require him to increase the number of shifts, or overtime operations, days of work, or the amount of construction plant, or update the progress schedule to reflect increased production for meeting the completion date, or all of them, and to submit for approval such supplementary schedule or schedules in chart form as may be deemed necessary to demonstrate the manner in which the agreed rate of progress will be regained, all without additional cost to the OWNER.

Failure of the CONTRACTOR to comply with the requirements of the OWNER under this provision shall be grounds for determination by the OWNER that the CONTRACTOR is not prosecuting the work with such diligence as will insure completion within the time specified. Upon such determination the OWNER may terminate the CONTRACTOR'S right to proceed with the work or any separable part thereof in accordance with the clause of the contract entitled, "Termination for Default-Damages for Delay - Time

Extensions.

Should the Contractor fail to complete the work within the specified time, or within any extra time allowed under these specifications, a sum of money, determined by the following schedule, shall be deducted from any funds due the Contractor, the Owner shall have the right recover the said sum or sums from the Contractor or from the surety, or from both. The amounts of these deductions are to cover the liquidated damages to the Owner incurred by additional or other expenses due to the failure of the Contractor to complete the work or any part of the work within the time specified, and such deductions are not to be considered penalties.

The damages indicated above shall be considered as liquidated damages for the loss to the Owner on account of the expense due to the employment of Engineers and their assistants and to any others expenses incurred after the expiration of the Contract time as determined by the Engineer.

MEASUREMENT AND PAYMENT

Measurement and Payment for all bid items shall be in accordance with the Mississippi Standard Specifications for Road and Bridge Construction, 2004 edition.

1. Applicable Specifications

The Technical Specifications entitled Mississippi Standard Specifications for Road and Bridge Construction, 2004 Edition shall be the specifications applicable to this project except as for herein specified. Any testing required by those specifications for material submittal approval shall be the responsibility of the Contractor. The testing laboratory used by the Contractor shall be a laboratory certified by the Mississippi Department of Transportation and shall be approved by the Engineer. Any reference to Unit Item for pay shall be modified and paid based on the Measurement and Payment section of the specifications.

2. References Amended to mean Engineer

Any reference in the above mentioned specifications to Commission, Director, Chief Engineer, Testing Engineer, or Project Engineer shall be amended in these specifications to mean the Engineer, or his duly authorized representative, of the City of HATTIESBURG.

F 794 Poly (Vinyl Chloride)(PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

A21.10 Ductile Iron Fittings, 3 inch through 48 inch for Water and other Liquids.

A21.11 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

A21.50 Ductile Iron Pipe, Design Requirements

A21.51 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-lined Molds, for Water or other Liquids.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

C 104 Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water and Other Liquids.

C 106 Cast Iron Pipe Centrifugally Cast in Metal Molds, for water and other Liquids.

C 110 Ductile Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids.

C 111 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

C 151 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or other Liquids.

AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO)

T-88 Particle Size Analysis of Soils.

T-89 Determining the Liquid Limit of Soils.

T-90 Determining the Plastic Limit and Plasticity Index of Soils.

T-99 Moisture Density Relations of Soils Using a 5.5 lb. Rammer and 12 inch Drop.

T-191 Density of Soil In-Place by the Sand-Cone Method.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Standard Specifications for Road and Bridge Construction Current Edition.

3.0 SUBMITTALS

The following submittals shall be required for the respective materials used in the work. All submittals shall be submitted through the Contractor to the Engineer.

3.1 Ductile Iron Pipe: The following submittals shall be required for ductile iron pipe systems utilized on the project. The Contractor shall furnish manufacturer's certificates certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the submittals shall include the following:

A. Joints: The following shall be required for ductile iron joints.

1. Drawings or Manufacturer's Catalogue data indicating dimensions and tolerance.

2. Gaskets shall be tested in accordance with the respective standards as indicated in ANSI 21.11 and results shall be included in the submittals. Test shall be for similar materials on the gaskets and be not more than one year old.

3. Mechanical Joints: Should the Contractor elect to use mechanical joints in lieu of push-on joints, manufacturer's data shall be submitted in accordance with the "Special Requirements for the Mechanical Joint" as stated in ANSI 21.11 (AWWA C 111).

B. Ductile Iron Pipe Submittal Shall Include the Results of:

1. Tension Test
2. Impact Test
3. Low Temperature Impact Test

Sampling procedure shall be as indicated in ANSI 21.51.

3.2 PVC Pipe: The Contractor shall submit manufacturer's certificate certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the Contractor shall submit the following:

A. PVC Piping: PVC Pipe shall be sampled, tested, and inspected in accordance with the provisions of ASTM D3034. Copies of test results shall be attached. Test results shall be similar material and not be more than one year old from the date of material delivery.

B. Joints: The following submittals shall be required for PVC joints.

1. Certificate with test results for joints for compliance to ASTM D 3212. Gaskets shall conform to ASTM F 477. Test results shall be for similar material and not be more than one year old.

4.0 MATERIALS

4.1 Gravity Sewer Pipe: Where the type of gravity sewer piping is not indicated on the

plans, the Contractor shall furnish polyvinyl chloride (PVC) pipe.

The Contractor shall be restricted to furnishing the exact type of pipe material where indicated on the Contract Drawings.

The Contractor shall be limited to the use of only one type of pipe (so selected by the Contractor and indicated on the Proposal Form) and shall not change the type of gravity sewer pipe except as follows:

1. Where indicated on the plans, or

2. If permitted in writing by the Engineer.

A. Ductile Iron Pipe: Ductile iron shall be designed in accordance with the latest revision of ANSI/AWWA C150/A21.50 for a minimum 50psi.

Ductile Iron Pipe shall be manufactured in accordance with the latest revision of ANSI/AWWA C151/A21.51. Each pipe shall be subjected to a hydrostatic pressure test of at least 500 psi at the point of manufacture.

Pipe shall be standard asphaltic coating on the exterior. Pipe shall also have a Protecto 401 lining on the interior.

The class or nominal thickness, net weight without lining, and casting period shall be clearly marked on each length of pipe. Additionally, the manufacturer's mark, country where cast, year in which the pipe was produced, and the letters "DI" or "Ductile" shall be cast or stamped on the pipe.

All pipe shall be furnished with Push-On Type Joints, such at Tyton or Fastite. Joints shall be in accordance with ANSI/AWWA C111/A21.11, of latest revision, and be furnished complete with all necessary accessories.

Fittings shall be ductile iron. Fittings shall conform to the latest revision of either ANSI/AWWA C600.

B. PVC Pipe : PVC gravity sewer pipe and fittings shall conform to the requirements of ASTM D 3034 with an SDR of 26 and a minimum stiffness of 46 lb./in. - in and 115 lb./in. - in, respectively. Joints for sewer pipe shall be either push-up or mechanical conforming to the requirements of ASTM 3212. Gaskets for sewer pipe shall conform to the requirements of ASTM F 477.

Approved adaptors shall be used for making connections between PVC pipe and concrete manholes.

C. Service Laterals: Service laterals for local services shall consist of fittings, pipe lengths, and connections of 6 inch or 4 inch pipe. The fittings, pipe lengths and plugs shall be of

the same material as the run pipe unless otherwise indicated on the Contract Drawings. The modified sewer tees shall be an integral part of the run pipe. The remainder of the branch shall consist of standard fittings (elbows, reducers, and lengths of pipe) in accordance with the manufacturer's standard products and as specified. Pipe lengths and joint connections shall meet the specified requirements for the type materials used.

All service lines shall extend a maximum of up to 5 feet from house fronts of residences and public buildings and up to the property lines of businesses.

4.2 Casing Pipe: Steel pipe utilized as casing at locations shown on the Contract Drawings shall be new round piling pipe conforming to the requirements of ASTM A 252 or A 139. Casing diameter shall be adequate to allow pushing of the specified diameter of sewer pipe or force main and make proper connections at the ends. Minimum Wall Thickness for steel casing is 0.25 inch. (Hwy) and 0.28 inch (RR).

4.3 Wash Gravel Bedding Material: Select Granular material for pipe bedding shall be coarse concrete aggregate. The coarse concrete aggregate shall conform to the gradation sizing Number 467 specified in Table 2 of ASTM Standard Specification C-33. (See Following Table:)

SIZE NO. 467

Nominal Size (Sieves w/Square Openings)	Percent Passing by Weight
2"	100
1 - ½"	95 - 100
3/4"	35 - 70
3/8"	10 - 30
No. 4	0 - 5

4.4 Stabilization Material: Stabilization Material shall be a pit run mixture of sand and gravel. The sand shall be hard, sharp and durable particles. All gravel shall pass a 1 - ½" sieve.

4.5 Clay Gravel Material: Clay Gravel Material shall meet MDOT Standards Class 6, Group C.

4.6 Concrete: Concrete shall be in accordance with the requirements of Technical Specifications - CONCRETE

4.7 Select Backfill: General : The select material shall be composed of a natural or artificial mixture of sand, silt, clay or soil binder or other material of satisfactory cementing value. The sand shall be hard, sharp, and durable particles, preferably siliceous. The binder shall be a grade

of clay or other material having satisfactory cementing qualities and shall be homogenous in character, free from vegetable matter, clay balls or other deleterious substances that cannot be classed as serviceable base material.

A. Gradation: Any coarse aggregate contained in the material shall pass the one and one-half (1-1/2), sieve and not more than thirty-five percent (35%) shall be retained in the Number 10 sieve. The plasticity index (P.I.) shall not exceed 12, nor shall the liquid limit exceed 30.

The composite selected sand-clay material passing the Number 10 sieve shall conform to the following minimum and maximum gradation limits:

Sieve	Percent Passing by Weight
Number 40	40 - 85
Number 60	30 - 70
Number 270	8 - 30
Silt (.05 to .005 mm)	3 - 15
Clay (Passing .005 mm)	3 - 15

4.8 Backfill: All other backfill shall consist of excavated material removed from the trench unless otherwise directed by the Engineer. CONTRACTOR shall separate poor and acceptable material during excavation. Failure to separate material shall require CONTRACTOR to furnish acceptable backfill at no additional cost to the project.

5.0 CONSTRUCTION:

5.1 Earthwork:

A. Site Preparation: Topsoil shall be stripped and stockpiled in accordance with Technical Specifications - Restoration of Roads, Driveways, Fences, Lawns, and other Grassed Areas.

All vegetation such as brush, heavy sod, heavy growth of grass, decayed vegetative matter, rubbish and any other unsuitable material within the area of trenching shall be stripped or otherwise removed before the trenching is started, and in no case shall such objectionable material be allowed in the trench.

Stripping operation shall be to a depth of not less than 6 inches in all cases.

B. Asphalt or Concrete Removal: Before trenching operations begin, the existing asphalt or concrete pavement shall be scored or cut to a proper depth to give a straight verticle edge when removed. The asphalt or concrete shall be disposed of offsite by the Contractor. While removing the asphalt or concrete in the trench line, never shall the adjacent asphalt be raised or pulled from its base.

C. Trenching: The Contractor shall determine all requirements for trench dimensions,

alignment, and grades. The trench shall be excavated in conformance with all federal, state and local regulations for the protection of the workmen. Shoring, sheeting and/or a moveable form shall be used as required to provide earth stability during the laying operations.

The final excavation of the trench for the pipe installation shall be a indicated on the Plans. Minor variations in horizontal (within the permanent easement) or vertical alignment during construction shall be made during construction (with the Engineer's approval) to facilitate ease of installation and operation (due to potential conflicts; i.e., utility conflict) at no additional cost to the Owner except for additional piping, if any. The trench from the top of the pipe down to the bottom of the bedding shall be of a consistent width as indicated on the plans. Should the excavated width of the trench be larger than the design width, the Engineer may direct that a higher type or class of bedding be used; or other adjustments be made to increase the load carrying capacity of the pipe.

The Contractor shall not excavate more trench in advance of pipe laying than is necessary to perform the work efficiently. No more than 100 feet of open trench shall be allowed unless approved by the Engineer.

Excavated material shall be placed in a manner that will not obstruct sidewalks, driveways, or other structures. Excavated material shall not be placed so as to surcharge the walls and jeopardize trench stability.

If adequate area is not available on the construction site, the CONTRACTOR will be required to stockpile material off site Owner shall not bear any additional expense.

Ledge Rock, bolders and large stones shall be removed to provide a minimum clearance of 4 inches (10 cm) below and on each side of all pipes.

D. Disposal: The Contractor shall satisfactorily dispose of all excess earth from excavations either in approved (by the Engineer) areas within the construction limits or away from the project in disposal sites obtained by the Contractor.

The Contractor will be permitted to mound excess earth over the trench to a maximum depth of 12 inches above the original ground surface or finished grade where the trench is located in unimproved property. Wasting of excess excavated material will not be permitted within any road ROW. All material within the construction limits shall be placed so that natural drainage is maintained and the surface shall be graded to a smooth and uniform appearance. The disposal of waste and excess excavating materials, including hauling, handling, grading, and surfacing shall be subsidiary obligation of the contractor and no separate payment will be made. Therefore, the cost of such work shall be included in the Contract Unit Price for installation of sewer pipe.

E. Dewatering: The site shall be kept free of surface water at all times. The Contractor shall install drainage ditches and dikes and shall perform all pumping and other work necessary to divert or remove rainfall and other accumulations of surface water from the excavations. The

diversion and removal of surface water shall be performed in a manner that will prevent the accumulation of water behind temporary structures or at any other locations within the construction area where it may be detrimental. The Contractor shall provide, install, and operate sufficient trenches, sumps, pumps, hoses, piping, well points, deep wells, etc., necessary to depress and maintain the ground water level at least one foot below the base of the excavation during all stages of construction operations. The ground water table shall be lowered in advance of excavation and maintained a minimum of one foot below the lowest excavation subgrade made until the structure has sufficient strength and weight to withstand horizontal and vertical soil and water pressures.

Where groundwater is encountered, the Contractor shall make the effort necessary to secure a dry trench bottom before laying pipe. In sandy and in other suitable type soils, dewatering shall be done by well pointing. If, in the opinion of the Engineer, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Engineer may order the Contractor to excavate below grade and place not less than 6 inches of graded crushed stone fill material over the trench bottom to form trench drains to suitably located sumps and to remove the water by bailing or pumping. The graded crushed stone fill material shall be placed at the Contractor's own expense and shall be of such depth that there shall be not water in bell holes at the time of coupling pipe. All costs of equipment, labor, and materials required for dewatering shall be included in the pipe laying operation.

F. Bedding: The Contractor shall satisfactorily shape the trench area (to specified line, grade and cross section) to receive bedding material. The bottom of the trench shall be undisturbed soil. Should the Contractor over excavate the trench without direction from the Engineer, the trench shall be brought up to grade with select backfill and compacted to at least 90% of maximum laboratory density as measured by AASHTO T 99. Such additional work and materials for over excavation without direction of the Engineer shall be at the expense of the Contractor.

Holes for the bells shall be provided at each joint in the subgrade or in the granular fill bedding material as required. The holes shall be no larger than necessary for joint assembly and assurance that the pipe barrel will lie flat on the material. The Contractor shall install the proper bedding for the respective type of pipe and depth of installation as shown in the details and schedules on the plans. When depths vary in a particular manhole run, the Contractor shall change bedding systems in accordance with the depth installation requirements.

1. Stabilization Materials: When the subgrade is found to be unstable or to include ashes, refuse, organic material, or other unsuitable material, the Engineer may direct that the subgrade be over excavated to remove such material. The depths of over excavation shall be as directed by the Engineer. Stabilization material shall be placed into the over excavated area of the trench and shall be paid for in accordance with these specifications. Stabilization shall be compacted to at least 90% of maximum laboratory density in six inch lifts.

2. Bedding Materials: As detailed in the plans, bedding material shall be placed to the

specified depth below the pipe and tamped to a minimum of 90% of maximum laboratory density as determined in accordance with AASHTO T 99. Following placement of pipe, additional bedding material shall be placed and consolidated under the haunches of the pipe. Special tools shall be required to work the material into place and leave no voids beneath the pipe. The bedding material shall be tamped along the spring line (or along the top of the bedding material as indicated) of the pipe to sufficiently compact the material insofar as practical.

The Engineer may direct additional moisture be added to the bedding material to aid in the compaction effort. Mechanical tampers may be employed to aid the process. Depending on the particular bedding required , additional bedding shall be added and tamped to a minimum of 90% of maximum laboratory density, with AASHTO T-99.

3. Select Backfill: Select backfill shall be placed in 6 inch lifts and tamped to a minimum laboratory density with AASHTO T-99. Overall depth of the select backfill shall be as directed by the Engineer.

4. Normal Condition Bedding: Under normal conditions the trench bottom shall be undisturbed earth shaped to the specified line, grad, and cross section with proper bell holes at each joint to insure that pipe barrel lies flat on trench bottom. The bedding material will be selected native materials excavated from the trench and placed in two lifts. The first lift being placed up to the spring line of the pipe and extending out to the trench walls and hand tamped to a minimum of 90% of maximum laboratory density. Special care shall be used in placing and tamping bedding to insure no voids under the haunches of the pipe. The second lift shall extend to approximately 6" above pipe (Material permitting) and hand tamped to 90% density.

5. Backfilling: Upon completion of placement of select material the excavated materials shall be immediately placed back into the trench. Specific requirements are:

a Backfill requirements for road crossings, parking lots, driveways, and sidewalks shall be in accordance with Technical Specifications - RESTORATION OF ROADS, DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS.

b. Backfill requirements for unimproved areas (pastures, wooded areas) shall consist of placement and shaping of the soil in such a manner as to allow maximum natural consolidation. No compaction of the general backfill in the unimproved areas will be required, except that caused by conventional shaping equipment.

c. No debris shall be used as backfill which has a volume in excess of one-half of one cubic foot or a weight excess of 75 pounds.

6. Sheeting Removal: Wooden sheeting or other thick sheeting or shoring members which have been driven or otherwise placed along the trench walls to an elevation below the spring line of the pipe shall be cut off at the spring line or higher and left in place.

7. Grading and Grassing: Final grading and grassing shall be in accordance with Technical Specifications - RESTORATION OR ROADS, DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS.

5.2 PIPE HANDLING AND STORAGE: Pipe shall be handled, staked, and stored in accordance with manufacturer's printed literature. The Contractor shall provide security as required to prevent damage by vandals. PVC pipe shall be shaded from sunlight for extended lengths of time. Pipe damaged during storage and handling shall be rejected.

5.3 PIPE LAYING: Pipe laying shall proceed upgrade with the spigot ends of the bell-and-spigot pipe and tongue ends of the tongue and groove pipe jointing in the direction of flow. Each pipe shall be laid true to line and grade and in such a manner as to form a close concentric joint with the adjoining pipe and to prevent sudden offsets of the flow line. As the work progresses, the interior of the sewer shall be cleared of all dirt and superfluous materials of every description. Where cleaning after laying is difficult because of small pipe size, a suitable swab or drag shall be kept in the pipe and pulled forward past each joint immediately after the jointing has been completed. Trenches shall be kept free of water and pipe shall not be laid when the condition of the trench or the weather is unsuitable for such work. At times when work is not in progress, open ends of pipe and fittings shall be securely and satisfactorily closed so that no trench water earth, or other substance will enter the pipe or fittings.

Pipe laying shall be performed in such a manner that no foreign material enters the pipe. The Engineer may require that before lowering pipe, heavy canvas bags be placed over each end, and left in place until joints are ready to be made. If water is in the trench, the seals shall remain in place until the trench is pumped completely dry. If conditions are unsuitable, no pipe shall be laid until satisfactory laying conditions are obtained in accordance with the above specified requirements.

The Contractor shall utilize a commercial grade laser beam specifically manufactured to aid in maintaining grade and alignment of pipelines during installation. The primary unit shall be mounted on a heavy duty base and firmly anchored in the downstream manhole of the reach under construction. The maximum distance shall not exceed four hundred feet (400') per set-up.

Each joint of pipe shall be installed using an approved target to align the pipe with the projected laser beam. The methods and procedures shall be in strict accord with the manufacturer's recommendations and instructions. Proper ventilation shall be maintained at all times. Care shall be exercised in order to prevent bumping or misalignment of the projected bean. Sewer lines shall be laid such that the installed variation of invert elevations when compared with the construction plans does not exceed 0.05 feet. Sewer lines in which said variation exceeds 0.05 feet may be rejected. Sewer pipe shall be visually inspected for alignment by lamping, televising or by other appropriate means to determine alignment.

Whenever a movable steel box is used in place of sheeting, the Contractor shall take care to prevent the pipe from moving when the steel box is moved.

5.4 PIPE JOINTING: Piping shall be jointed in accordance with the manufacturer's printed recommendations. Gaskets shall be firmly set within the bells and grooves as required. The manufacturer's recommended lubricant or an approved equal shall be applied for slip type joints.

A. PVC Pipe Joint Construction: The bell and spigot ends of PVC sewer pipe shall be cleaned of all foreign material that could interfere with proper assembly of the joints. The spigot ends shall be cleaned one inch (1") beyond the joint assembly reference mark.

The spigot end of the pipe shall be thoroughly lubricated in accordance with the manufacturer's recommendations. The coating should be the equivalent of a brush coat of enamel paint and maybe applied by hand, cloth, pad sponge or glove.

The lubricated spigot end shall be inserted into the bell keeping the pipe length in proper alignment. The bell shall be braced while the spigot end is pushed in under the rubber ring, so that previously competed joints in the line will not be closed up. The spigot end shall be pushed into the bell until the reference mark is flush with the end of the bell.

Generally, the installation and jointing of PVC Pipe shall conform to the requirement so the latest edition of ASTM D-2321, "Underground Installation of Flexible Thermoplastic Sewer Pipe".

B. Ductile Iron Pipe Joint Construction: The installation and jointing of ductile iron pipe and shall generally conform to the applicable provisions of AWWA Standard Specifications C-600 for pipe laying.

Where mechanical joint pipe is used, the surfaces which come in contact with the gasket shall be thoroughly brushed with a wire brush just prior to assembly. The gasket should be brushed with soapy water prior to installation to remove loose dirt and to lubricate gasket as it is forced into its retaining space.

When tightening bolts, it is essential that the gland be brought up toward the pipe flange evenly. The bolts should be partially tightened; the bottom bolt first, then the top; next the bolts on either side; and last , the remaining bolts. Overstressing of bolts to compensate for poor installation will not be permitted. Bolt torque shall be in accordance with manufacturer's specifications.

All joints of whatever type shall be completely water tight after being subjected to the required tests.

C. Jointing Dissimilar Pipes: Suitable adaptor couplings are required for connecting dissimilar pipes. The couplings shall be approved by the Engineer before installation.

5.5 STREAM CROSSING: Ductile iron pipe Class 50 shall be used as shown on the

Drawings. Granular fill, concrete, and concrete collars shall be placed or constructed as shown on the contract drawings.

5.6 SERVICE LATERALS (LINES): Modified sewer tees shall be installed on the run pipe at the appropriate field locations. Service lines of the sizes specified shall be laid to a uniform grade so that the customer being served can be tied-in using good construction practices. All tamping and backfilling operations shall be performed the same as on main line pipe. Removable plugs shall be securely installed in pipe ends and a 2" x 2" treated post extending 12" above the ground line shall mark the pipe end location.

5.7 BORINGS: Borings shall be accomplished in accordance with Mississippi State Highway Department or Railway Standards. The contractor shall provide all necessary sheeting, bracing, cribbing, supports and appurtenances to insure the proper line and grade throughout the entire length of the crossing.

A. Casing Pipe: Casing Pipe shall be installed as indicated on the Contract Drawings. Joints shall be completely welded to provide structural integrity and shall be water tight.

B. Carrier Pipe: Carrier pipe may be any of the allowed options of piping. However, the piping and joints shall be capable of withstanding the stress exerted by pushing the pipe within the casing.

C. Carrier Pipe Supports: Supports for the carrier pipe shall be as recommended by the manufacturer for such installation. Supports shall be spaced to adequately support the piping under surcharged sewage conditions.

D. Casing Seal: The annulus between the casing and carrier pipe shall be sealed at each end with a quick setting grout.

5.8 RELATION TO WATER MAINS:

A. Horizontal Separation: Whenever possible, sewers should be laid at least 10 feet, horizontally, from any existing or proposed water main. Should local conditions prevent a lateral separation of 10 feet, a sewer may be laid closer that 10 feet to a water main if:

1. It is laid in a separate trench.

2. It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth.

3. In either case the elevation of the crown of the sewer is at least 18 inches below the invert of the water main.

B. Vertical Separation: Whenever sewers must cross under water mains, the sewer shall be

laid at such an elevation that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be buried to meet the above requirement, the water main shall be relocated to provide this separation or reconstructed with slip-on or mechanical-joint ductile iron pipe, or prestressed concrete cylinder pipe for a distance of 10 feet on each side of the sewer. One full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

C. Special Conditions: When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the water main should be constructed of slip-on or mechanical-joint ductile iron pipe. or prestressed concrete cylinder pipe and the sewer constructed of mechanical-joint ductile iron pipe and both services should be pressure tested to assure water tightness.

5.9 CONTINUATION OF SERVICE

The existing wastewater system shall remain in operation during the duration of the project. Should removal of facilities from operation become necessary, a plan which will avoid or minimize pollution effects on any receiving stream and provide alternate service for wastewater facilities shall be reviewed and approved in advance by the Mississippi Department of Environmental Quality and shall be adhered to during construction.

6.0 TESTING

6.1 Ductile Iron Pipe:

A. Field Inspection: The Engineer shall perform visual inspection of the material prior to placement by the Contractor. The Engineer may make non-destructive tests to determine the soundness of the pipe. The Contractor shall assist the Engineer in handling and moving the pipe as required.

B. Material Test: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittals. No other material test shall be required.

6.2 PVC PIPING: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittal. No other material test shall be required.

6.3 STEEL CASING PIPE: Material test shall be included as part the submittal. No other material test shall be required.

6.4. BEDDING MATERIAL AND STABILIZATION MATERIAL: Test for gradation and test for material passing the No. 40 sieve shall be as follows:

Gradation	-	AASHTO T 88
Liquid Limit	-	AASHTO T 89

Plasticity Index - AASHTO T 90

One set of each test listed above will be required for every 500 cubic yards or major fraction thereof.

6.5 COMPACTION TESTS: Compaction tests shall be performed in accordance with AASHTO T 191 or ASTM D 2922. Maximum compaction shall be determined in accordance with AASHTO T99. Compaction tests for sewer pipe related work shall not be less than as follows:

	(Number of Compaction Tests)	
	AASHTO T-191 or ASTM D 2922	AASHTO T-99
Select Backfill Material OR Stabilization Material One per 100 CY	1	
Bedding Material One per 600 LF	2	
Tamped Backfill One per 600 LF	2	

6.6 INFILTRATION/EXFILTRATION TEST: The Contractor shall provide all plugs, water supply, measuring devices, and all other equipment, material, labor and supervision to measure the infiltration and exfiltration tests as specified below. The Contractor shall perform the test in the presence of the Engineer. All gravity sewer pipe shall be tested in accordance with the following applicable requirements.

A. Infiltration Test: The infiltration test shall be conducted between adjacent manholes. The outlet pipe on the downstream manhole shall be plugged and tested for water tightness to the satisfaction of the Engineer. The accumulated depth of water in the downstream manhole shall be read at 12 hour intervals for two (2) days and the infiltration rate calculated from the data obtained. Any section exceeding an infiltration rate of 200 gallons/day/inch diameter/mile shall be relayed at the Contractor's expense. This means that the Contractor shall locate and repair leaks as necessary to pass the infiltration test. Infiltration test shall be utilized only when ground water is above pipe.

B. Exfiltration Test: The exfiltration test shall be conducted between adjacent manholes. The inlet pipes in the downstream and upstream manholes shall be plugged. The line being

MANHOLES

1.0 GENERAL:

This item shall consist of furnishing all materials, labor, supervision, tools, equipment and incidentals for the construction of standard manholes, in accordance with the Contract Drawings and Specifications. Included in the work are structural excavation, backfill, and disposal of excess material.

2.0 APPLICABLE DOCUMENTS:

The following publications form a part of this specification and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

American Society for Testing and Materials (ASTM)

A 48/A48M Standard Specification for Gray Iron Casting

C 39/C39M Standard Specification fo Test for Compressive Strength of Cylindrical Concrete Specimens

C 443 Standard Specification for Joints for Circular Concrete Pipe and Manholes Using Rubber Gaskets

C 478 Standard Specification for Precast Reinforced Concrete Manhole Sections

C 497 Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile

C 2922 Density of Soil and Soil Aggregate in Place by the Nuclear Method (Shallow Depths)

American Association of State Highway and Transportation Officials (AASHTO):

M-198 Standard Specifications for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

T-99 Standard Method of Test for the Moisture-Density Relations of Soils Using a (2.5kg) Rammer and (305 mm) Drop.

T-191 Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method.

3.0 SUBMITTALS

The following tests or data shall be submitted to the Engineer from the Contractor for approval prior to incorporation into the work:

3 .1 Certificates: The Contractor shall furnish certificates from supplier certifying the products conform to the required specifications included herein for the following items:

3.1.1. Flexible Plastic Gaskets
3.1.2. Precast Manhole Bases
3.1.3. Precast Manhole Riser Sections
3.1.4. Manhole Steps
3.1.5. Manhole Frames and Covers (ASTM A 48)
3.1.6. Epoxy Grout

3.2 Catalogue Cuts or Brochures: The Contractor shall also submit catalogue cuts or product brochures providing descriptive data, recommended application and use, and installation procedure for the following items:

3.2.1. Manhole Frames and Covers
3.2.2. Epoxy Grouts
3.2.3. Manhole Steps

4.0 MATERIALS

4.1 Manhole Riser Sections: Manhole riser sections shall be precast reinforced sections conforming to ASTM C 478 and as shown on the Contract Drawings.

4.2 Joints: Joints for precast riser sections shall be concrete pipe type flexible plastic gaskets. Joint material shall be preformed conforming the requirements of AASHTO M-198. Installation shall be in accordance with manufacturer's recommendations.

4.3 Concrete Manhole Bases: Concrete manhole bases shall be precast or cast-in-place as follows:

4.3.1 Cast-In-Place Manhole Bases and Box Type Bases (if used): Concrete and reinforcing steel shall conform to the requirements of Technical Specifications - CONCRETE.

4.3.2 Precast Concrete Bases: Precast concrete bases shall conform to the requirements of ASTM 478 with reinforcing steel (size and spacing as indicated on the plans).

4.4 Manhole Steps: Manhole steps shall be plastic coated corrosion resistant and shall be installed as shown on the Contract Drawings.

4.5 Cement Grout: Cement grout shall be high strength, non-metallic conforming to Corps of Engineers CRD-C-588. The grout shall be V-3 by W. R. Meadows, Inc., Masterflow 713 by Master Builders or equal.

4.6 Manhole Frame and Covers: Manhole frame and covers shall conform to ASTM A 48 as well as to the following requirements. All frame and covers shall be new when installed for the project.

4.6.1 Standard Manhole Cover and Frame - shall be as manufactured by Dews Foundry, Jackson Standard, Model DF-25 (7) or Vulcan Foundry, Model V-1115, 420 Pounds, marked "SEWER", domestic origin, or equal.

4.6.2 Water Tight Manhole Cover and Frame - shall be as manufactured by Vulcan Foundry, Model V2357, or Dews Foundry, Model DF-25(7)W.T., 410 pounds with neoprene gasket, four 5/8 inch stainless steel bolts recessed into cover. Cover labeled "SEWER", domestic origin, or approved equal.

4.7 Epoxy Grout: Epoxy Grout shall be high strength non-metallic, non-shrinking. The grout shall be as by EMBECO, Inc., SEAL-COAT or approved equal.

4.8 Drop Manholes: Concrete for drop manholes shall conform to the requirements of Technical Specifications - CONCRETE. Pipe and fittings shall be the same material and size as the incoming gravity sewer.

4.9 Flexible Connection: At all sewer connections to manholes, provide gasket flexible watertight connection that allows for differential settlement of the pipe and manhole wall.

4.10 All manholes: All manholes shall be lined inside with a sixteen (16) mil dry film thickness of an acceptable coal tax epoxy system.

5.0 CONSTRUCTION

5.1 Earthwork

5.1.1 General: Excavation shall be to the extent required to allow proper construction of the manhole. Shoring and sheeting shall be utilized where required by Federal, State and local codes and regulations for safe working conditions. In addition, shoring and sheeting shall be required to protect the integrity of adjacent structures or prevent adverse effects on surrounding areas. Dewatering shall be employed to the extent required to allow dry working conditions.

5.1.2 General Excavation: The Contractor shall "lay back" or employ shoring and

sheeting as required to assure stability of the excavation. Material shall be stockpiled so as not to surcharge adjoining pipe trenches. Topsoil shall be separated so as to allow the maximum reuse in grassing operations.

5.1.3 Structural Excavation: The area immediately beneath the manhole bases shall be graded and compacted. Compaction shall be to 96% of maximum laboratory density as determined by AASHTO T 99. Should unsuitable material be encountered, the Engineer may direct that the area be over excavated and filled with stabilization material. Specification for stabilization material and payment for such shall be in accordance with Technical Specifications.

5.1.4 Backfilling: Backfill material shall consist of select backfill in accordance with Technical Specifications. Backfilling shall be uniformly placed around the structure in 10-inch layers and be compacted to 90% of maximum density to full depth in unimproved areas. Backfill in paved areas and within five feet to any edge of pavement shall be compacted to 95% of maximum laboratory density in 8-inch layers to the subgrade line. Refer to Technical Sepcifications.

5.1.5 Salvage: Manhole frames and covers removed during excavation shall remain the property of the Owner and shall be delivered to a location designated by the Owner. All other items removed shall be disposed of by the CONTRACTOR at his expense.

5.2 Riser Installation: Precast concrete riser sections shall be installed plumb and in accordance with the details shown on the Contract Drawings. Joints shall be installed in accordance with manufacturer's recommendations.

The manhole invert channels shall be formed in the bases, smooth and semi-circular in shape conforming to the inside of the adjacent sewer section. Changes in the direction of flow shall be made with a smooth curve of as large a radius as the size of the manhole will permit. Changes in size and grade of the channels shall be formed directly in the concrete of the manhole base. The joint between the base and riser section shall be sealed with epoxy grout. Clean pea gravel shall be used as the epoxy grout filler.

Standard manhole cut-outs and lifting holes shall be sealed with epoxy grout.

5.3 Cast-In-Place Concrete: Bases, flat tops, and drop manhole risers shall be constructed in accordance with Technical specifications - CONCRETE.

5.4 Manhole Steps: Manhole steps shall be installed during the manufacturing of the riser or cone sections. Risers and cones shall be joined so the steps are vertically aligned.

5.5 Manhole Frame and Covers: Manhole frame and covers shall be set and grouted in place with cement grout. For manholes located in roads or streets, the manhole cover shall be flush with pavement or surface course.

6.0 TESTING

6.1 General: The Contractor shall conduct (and bear the cost of) all testing (Laboratory Approved by the Owner) as directed by the Engineer and furnish results of such tests prior to incorporating the material into the work. All testing is subsidiary to Manhole Payment Items.

6.1.1 Cast-In-Place Concrete Items: The concrete quality testing for manhole bases, drop manholes, and valve boxes shall be tested in accordance with Technical specifications - CONCRETE.

6.1.2 Manhole Risers and Precast Concrete Bases: Manhole risers and precast concrete bases shall be tested for concrete compressive strength. If the place of manufacture is local and reasonably available to the Engineer, Paragraph (a) shall be followed for testing requirements. Should the place of manufacture not be available, Paragraph (b) shall apply.

The contractor shall prepare (in the presence of the Engineer) standard rodded concrete cylinder or cylinders compacted and cured in a similar manner to the manhole sections. Concrete for such cylinders shall be typical fresh concrete mix drawn from the actual casting operation of a riser or base. Cylinders shall be tested in accordance with ASTM C 39. The average compressive strength shall be equal to or greater than the specified design strength (4000 psi). Not more than 10% of the cylinders shall fall below the design strength (4000 psi). In no case shall any cylinder tested fall below 3200 psi. Number of such cylinder tests shall be as follows:

6.1.2.1 One set of cylinders for each day's run castings or

6.1.2.2 One set of cylinders for each 200 linear feet of riser sections manufactured.

6.1.2.3 One set of cylinders per 20 bases or flat tops manufactured.

The Engineer may require additional tests should compressive test results fail.

6.1.3 Earthwork Test: Maximum laboratory density shall be measured in accordance with AASHTO T-99. Field densities shall be determined in accordance with AASHTO T-191 or ASTM D 2992. Standard proctors and field densities shall be performed in accordance with the following schedule.

Standard proctor tests shall be required for earthwork associated with manhole construction. At least two (2) field density tests shall be conducted for earth work associated with each manhole construction.

6.1.4 Inspection for Watertightness: All manholes shall be inspected for watertightness prior to placing into service.

ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **March 23, 2017** in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements for the following:

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

INFRASTRUCTURE IMPROVEMENTS ALONG SOUTH 31ST AVENUE, SOUTH 30TH AVENUE, CHEVY CHASE DRIVE AND HARDY STREET

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the _____ day of_____A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on February 22, 2017 and March 1, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-248 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve plans and specifications for the Lake Forgetful Road Project

Title: Approve plans and specifications for the Lake Forgetful Road Project; Authorize advertisement for bids for same.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Plans, Specifications, Bid Advertisement

File Created: 02/14/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information: Hattiesburg American & Clarion Ledger
2 Consecutive Weeks

History of Legislative File

CONSTRUCTION PLANS

FOR

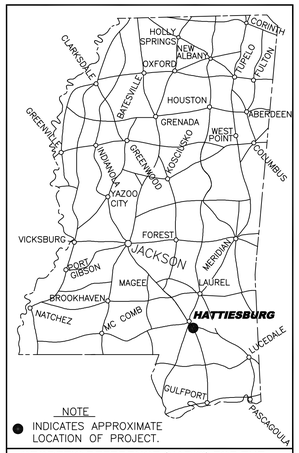
LAKE FORGETFUL ROAD

FOR THE

CITY OF HATTIESBURG

LAMAR COUNTY
MISSISSIPPI

FEBRUARY 2017



GEODETIC REFERENCE (NAD83) FOR THE APPROXIMATE MIDDLE OF THE PROJECT:
LATITUDE: 31°18'01.65"N
LONGITUDE: 89°21'52.23"W

DETAILED INDEX

SHEET No.	DESCRIPTION
1	COVER SHEET & DETAILED INDEX
2	GENERAL NOTES & VICINITY MAP
3	TYPICAL SECTIONS
4	PLAN - PROFILE LAKE FORGETFUL ROAD
5	STRIPING & PLAN
6	PLAN-PROFILE LAKE FORGETFUL ROAD-SEWER
7	PLAN-PROFILE LAKE FORGETFUL ROAD-SEWER
8	PLAN-PROFILE LAKE FORGETFUL ROAD-FORCE MAIN
9	LIFT STATION DETAILS
10	SEWER INSTALLATION DETAILS
11	VEGETATION SCHEDULE
12	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
13	DETAILS OF SEDIMENT BARRIER APPLICATIONS
14	DETAILS OF SILT FENCE INSTALLATION
15	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
16	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
17	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
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MAYOR

Johnny DuPree, Ph. D.

COUNCIL PERSONS

Carter Carroll, President
Mary Dryden, Vice-President
Kim Bradley
Deborah Denard Delgado
Henry E. Naylor

DIRECTOR OF ENGINEERING

Lamar Rutland, P.E.

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Sheet No. 1
Drawing No.: 11209

GENERAL NOTES

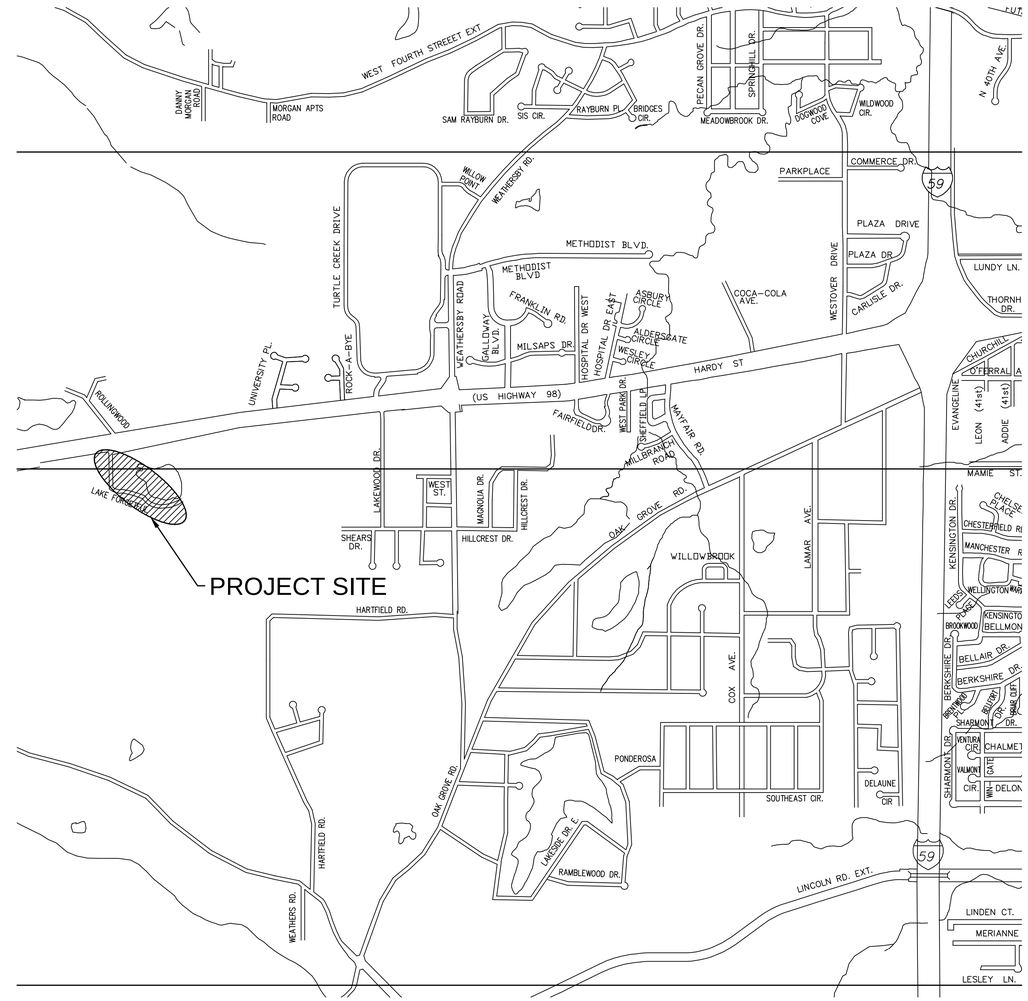
1. ALL TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (LATEST EDITION).
2. ALL EXISTING STREET SIGNAGE CONFLICTING WITH CONSTRUCTION SHALL BE REMOVED DURING CONSTRUCTION, REPLACED AFTER CONSTRUCTION AND SHALL BE CONSIDERED PART OF MAINTENANCE OF TRAFFIC. (NOT A SEPARATE PAY ITEM)
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING TOPOGRAPHIC DATA, LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WITHIN THE WORK AREA AND ALL OTHER SITE CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. ALL UTILITIES SHALL BE RELOCATED BY THE UTILITY OWNERS, UNLESS NOTED OTHERWISE, WHERE CONFLICT WITH CONSTRUCTION OCCURS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY OWNER.
5. EXISTING PIPES TO REMAIN IN PLACE WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEANED OF ALL FOREIGN MATERIAL PRIOR TO FINAL ACCEPTANCE (NOT A SEPARATE PAY ITEM).
6. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED IN PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
7. THE CONTRACTOR SHALL VERIFY AND/OR REESTABLISH ALL CENTERLINES AS DEFINED ON THESE PLANS AND SPECIFICATIONS.
8. ALL WATER VALVE BOXES AND MANHOLE TOPS SHALL BE ADJUSTED TO MATCH FINISH GRADE. CONTRACTOR SHALL PROVIDE RINGS AND RISERS PER THE SPECIFICATIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND THE LOCATION OF ALL PROPOSED PIPE, INLETS, JUNCTION BOXES AND ROADWAY AS STIPULATED IN THE SPECIFICATIONS. CONTROL COORDINATE SYSTEM AVAILABLE THROUGH THE ENGINEER.
10. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STRUCTURES, PAVEMENTS OR ANY OTHER SITE COMPONENTS NOT DESIGNATED FOR DEMOLITION AND REMOVAL. ANY SUCH ITEMS DAMAGED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENTS, STRUCTURES, SOIL AND OTHER ITEMS AS INDICATED ON THE PLANS AND AS REQUIRED FOR PROJECT CONSTRUCTION AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
12. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL WITHIN THE PROJECT LIMITS. THE STRIPPED AND STOCKPILED TOPSOIL SHALL BE USED TO PLATE THE FINISHED SLOPES PRIOR TO THE ESTABLISHMENT OF VEGETATION. (NOT A SEPARATE PAY ITEM).
13. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION." (PAY ITEM NUMBERS SHALL BE AS DEFINED IN THE PROPOSAL.)
14. CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS ALONG PROJECT TO INSURE INGRESS AND EGRESS TO THESE BUSINESSES AT ALL TIMES.
15. PRIOR TO COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL VEGETATION, SOIL AND DEBRIS FROM PAVEMENT, AND CURB WITHIN THE PROJECT LIMITS. (NOT A SEPARATE PAY ITEM)

SEWER NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN SUB-SURFACE SOIL INVESTIGATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES WITHIN THE WORK AREA.
3. ALL CULVERT CROSS DRAINS AND SIDE DRAINS SHALL BE PROTECTED. NO SEPARATE PAY ITEM SHALL BE ESTABLISHED FOR REMOVAL AND REPLACEMENT.
4. PROPER MAINTENANCE OF STREETS, INCLUDING DUST CONTROL, SHALL BE STRICTLY ADHERED TO.
5. ALL WORK ITEMS FOR WHICH NO PAY ITEMS ARE ESTABLISHED SHALL BE ABSORBED IN THE COST OF THE PIPE LAYING OPERATION.
6. NO PIPE SHALL BE LAID IN THE PRESENCE OF WATER. NO MANHOLE OR WET WELL SHALL BE SET IN THE PRESENCE OF WATER.
7. WELL POINTS, IF REQUIRED, SHALL BE INCLUDED IN THE COST OF THE PIPING LAYING OPERATION.
8. WHERE THE SEWER MAIN IS WITHIN 10 FEET OF A WATER MAIN HORIZONTALLY, THE SEWER MAIN SHALL BE 18" BELOW THE WATER MAIN VERTICALLY.
9. ALL WET WELLS SHALL HAVE 20 MIL. COAL TAR EPOXY COATING ON THE INSIDE, UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BRACING, SHORING OR ANY GROUND SUPPORT SYSTEM REQUIRED TO PREVENT A FAILURE FROM OCCURRING DURING EXCAVATION. ALL COST FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING AND CONSTRUCTING THE SUPPORT SYSTEM, SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
11. WORK FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING WHAT BRACING, SHORING OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION, OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITEMS.
12. UNUSABLE EXCAVATED MATERIALS AND EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF ALL SUCH MATERIAL AT AN OFF SITE LOCATION PROVIDED BY THE CONTRACTOR. (NO SEPARATE PAY)
13. THE CONTRACTOR SHALL ADHERE TO ALL CURRENT MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY GUIDELINES.
14. THE CONTRACTOR SHALL HAVE A COMPETENT AND EXPERIENCED SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES. THE SUPERINTENDENT SHALL NOT OPERATE EQUIPMENT WHILE ON THE PROJECT SITE. WORK ON THE PROJECT SHALL STOP IF THE ASSIGNED PROJECT SUPERINTENDENT IS NOT ON SITE.
15. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES DURING CONSTRUCTION.
16. ANY DISTURBANCE TO EXISTING STREETS AND DRIVEWAYS SHALL BE REPAIRED IN KIND, UNLESS OTHERWISE NOTED. PRIOR TO THE BEGINNING OF ANY EXCAVATION, ALL EXISTING PAVEMENT SHALL BE SCORED OR SAW CUT TO A DEPTH SUCH THAT A STRAIGHT AND UNIFORM VERTICAL EDGE IS ESTABLISHED PRIOR TO REMOVAL OF SAID PAVEMENT FROM THE PROJECT AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT A LOCATION PROVIDED BY THE CONTRACTOR. NO SEPARATE PAY FOR PAVEMENT REMOVAL AND DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF EXISTING STRIPING IN KIND (IF EXISTING) IN ALL DISTURBED PAVED AREAS (NO SEPARATE PAY).
17. ALL MAIL BOXES, SIGNS, FENCES AND GATES THAT CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND RESET (NO SEPARATE PAY). MAIL BOXES SHALL BE RESET AS DIRECTED BY FORREST COUNTY AND THE U.S. POSTAL SERVICE.
18. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STRUCTURES, PAVEMENTS OR ANY OTHER SITE COMPONENTS NOT DESIGNATED FOR DEMOLITION AND REMOVAL. ANY SUCH ITEMS WHICH ARE DAMAGED SHALL BE REPAIRED SOLELY AT THE CONTRACTORS'S EXPENSE.
19. ALL PVC GRAVITY SEWER MAINS, GRAVITY SERVICE LINES AND FITTINGS SHALL BE SDR 26 AND OF THE SIZE AS NOTED IN THESE PLANS, UNLESS OTHERWISE NOTED. ALL PVC SEWER PIPE SHALL BE GREEN IN COLOR.
20. ALL PRESSURE MAIN FITTINGS AND VALVES SHALL BE CAST IRON WITH MEGA-LUG RESTRAINTS (NO SEPARATE PAY). A FULL PIPE LENGTH SECTION SHALL BE REQUIRED BEFORE AND AFTER ALL FITTINGS.
21. PRESSURE TESTS SHALL BE REQUIRED ON ALL PRESSURE MAINS INSTALLED AS PER TECHNICAL SPECIFICATIONS.

EROSION CONTROL NOTES:

1. PROTECTING THE SITE FROM EROSION SHALL BE A REQUIREMENT OF THIS CONTRACT. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE CONSTRUCTION SITE OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE PLAN DURING CONSTRUCTION. MAINTENANCE SHALL BE PERFORMED A MAXIMUM OF 24 HOURS AFTER SILT ACCUMULATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL THE NECESSARY PERMITS REQUIRED BY THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY AND ANY OTHER AGENCIES.
3. PROPER MAINTENANCE OF STREETS, INCLUDING DUST CONTROL, SHALL BE STRICTLY ADHERED TO.
4. TEMPORARY GRASSING: UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED IN ACCORDANCE WITH THE VEGETATION SCHEDULE INCLUDED IN THESE PLANS. TEMPORARY GRASSING SHALL BE MAINTAINED DURING CONSTRUCTION.
5. PERMANENT GRASSING: UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED IN ACCORDANCE WITH THE VEGETATION SCHEDULE INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A FULL COVERAGE OF PERMANENT GRASS GROWTH PRIOR TO COMPLETION OF THE PROJECT.
6. THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE REQUIRED UNTIL GRASSING HAS BEEN ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.



ABBREVIATION LEGEND:

APPURT.	–	APPURTENANCES
ASPLT	–	ASPHALT
CONC.	–	CONCRETE
CMP	–	CORRUGATED METAL PIPE
CPP	–	CORRUGATED PLASTIC PIPE
DRV	–	DRIVE
DI	–	DUCTILE IRON PIPE
EXIST.	–	EXISTING
FT	–	FEET
FES	–	FLARED END SECTION
FRM	–	FOUND RIGHT OF WAY MONUMENT
GRVL	–	GRAVEL
HDPE	–	HIGH DENSITY POLYETHYLENE PIPE
HYD	–	HYDRANT
MDOT	–	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
No.	–	NUMBER
PVMT	–	PAVEMENT
PVC	–	POLYVINYL CHLORIDE PIPE
PL	–	PROPERTY LINE
RCAP	–	REINFORCED CONCRETE ARCH PIPE
RCP	–	REINFORCED CONCRETE PIPE
ROW	–	RIGHT OF WAY
TYP	–	TYPICAL
W/	–	WITH
W/O	–	WITHOUT

SYMBOL LEGEND:

FOID	–	FIBER OPTIC INDICATOR POST
FM	–	FIBER OPTIC MANHOLE
FP	–	FIBER OPTIC PEDESTAL
FPB	–	FIBER OPTIC PULL BOX
	–	FIRE HYDRANT
GID	–	GAS INDICATOR POST
G	–	GAS LINE
GV	–	GAS VALVE
P	–	OVERHEAD UTILITY LINES
	–	POLE GUY WIRE
PB	–	PULL BOX
SSCO	–	SAN SWR CLEAN-OUT
SS	–	SAN SWR LINE
S	–	SAN SWR MANHOLE
TID	–	TELEPHONE INDICATOR POST
TP	–	TELEPHONE PEDESTAL
FO	–	UNDERGROUND FIBER OPTIC LINE
P	–	UNDERGROUND POWER LINE
T	–	UNDERGROUND TELEPHONE LINE
PP	–	UTILITY POLE
W	–	WATER LINE
WM	–	WATER METER
WV	–	WATER VALVE

NOTE

ALL ITEMS SHOWN HERE ARE EXISTING ON THE GROUND OR UNDERGROUND.

GRAPHIC SCALE

2000 0 1000 2000 4000 8000

(IN FEET)
1 inch = 2000ft.

NO.	DATE	DESCRIPTION	BY

GENERAL NOTES & VICINITY MAP

LAKE FORGETFUL ROAD
CITY OF HATTIESBURG
LAMAR COUNTY, MISSISSIPPI

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Date: NOVEMBER 4, 2016	Scale: N.T.S.
Drawing No.: 11209	Sheet No. 2

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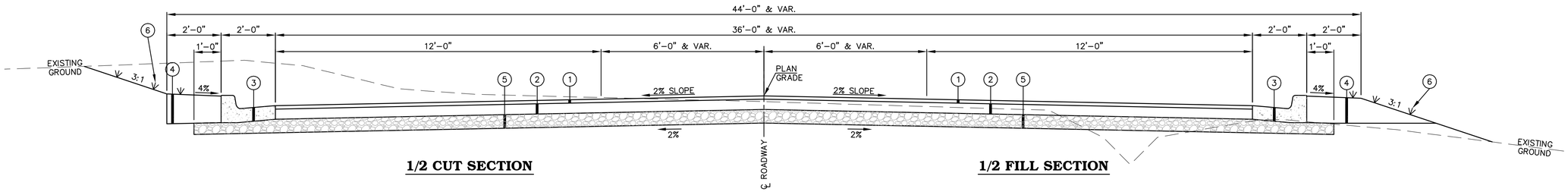
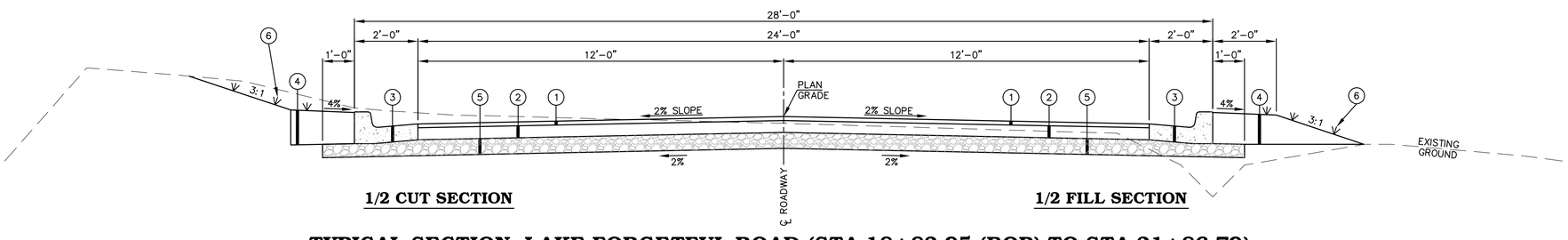
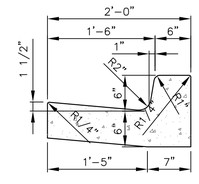


TYPICAL SECTION: LAKE FORGETFUL ROAD (STA 21+86.79 TO STA 24+23.76 (EOP)

1. 2" ASPHALT, ST, 9.5mm MIXTURE (REQ'D)
2. 4" ASPHALT, ST, 12.5mm MIXTURE (REQ'D)
3. CONCRETE CURB AND GUTTER (REQ'D)
4. 12" AND VARIABLE DEPTH SHOULDER MATERIAL, BORROW MATERIAL, CL B9 (REQ'D)
5. 6" AND VARIABLE DEPTH CRUSHED STONE BASE COURSE (CRUSHED STONE BASE, SIZE 610) (REQ'D)
6. AREAS TO BE TREATED IN ACCORDANCE WITH THE VEGETATION SCHEDULE (REQ'D) (SEE SHEET NO. 11)



TYPICAL SECTION: LAKE FORGETFUL ROAD (STA 18+83.95 (BOP) TO STA 21+86.79)



CONCRETE CURB AND GUTTER

NO.	DATE	DESCRIPTION	BY

TYPICAL SECTIONS

RECONSTRUCTION OF
LAKE FORGETFUL ROAD
CITY OF HATTISEBURG, MISSISSIPPI

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Drawing No.: 11209	Sheet No. 3

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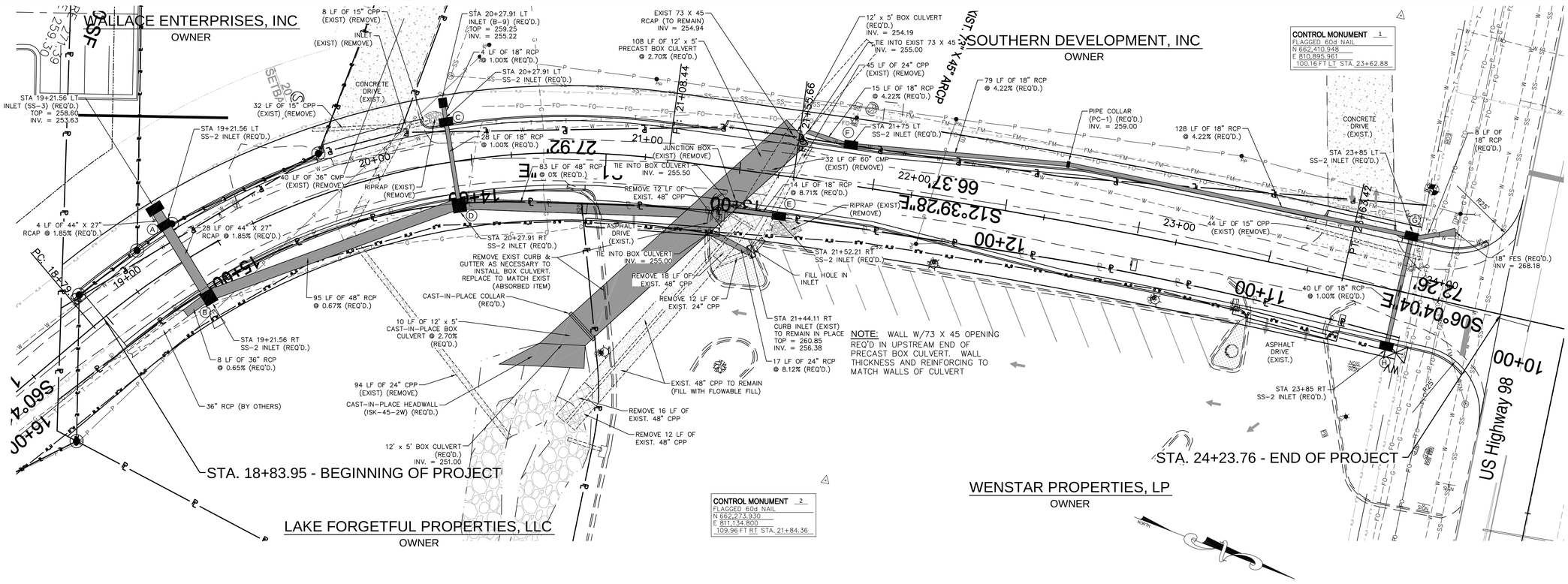

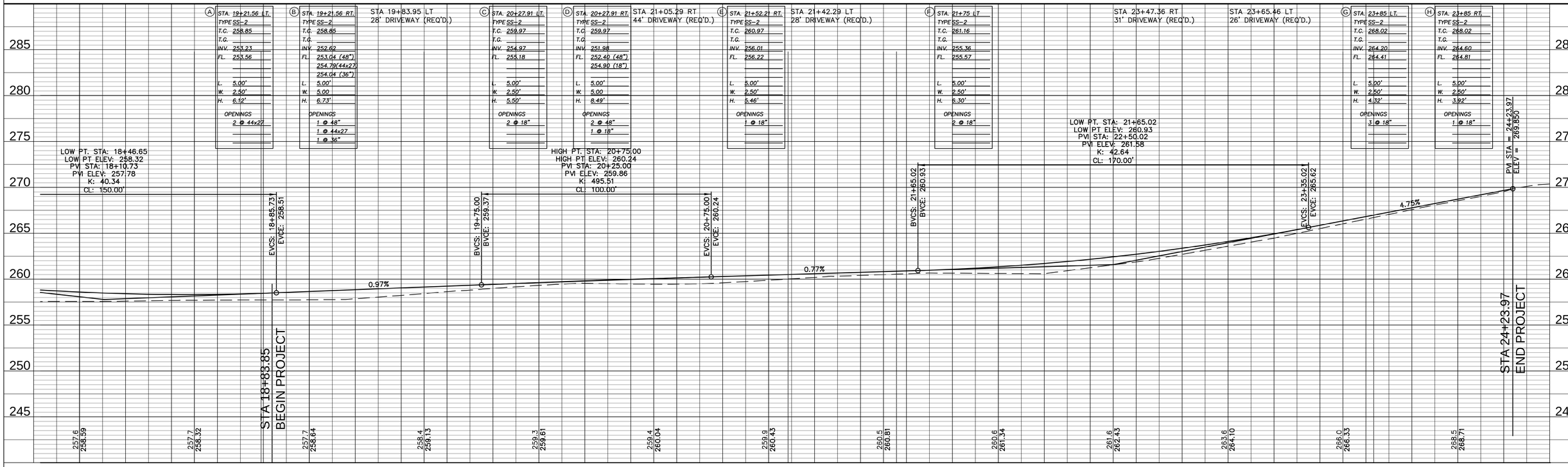

LAKE FORGETFUL ROAD
CITY OF HATTIESBURG

DATE	REVISION	BY

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DATE: SEPTEMBER 6, 2016
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DRAWING NO. 11209
SHEET 4

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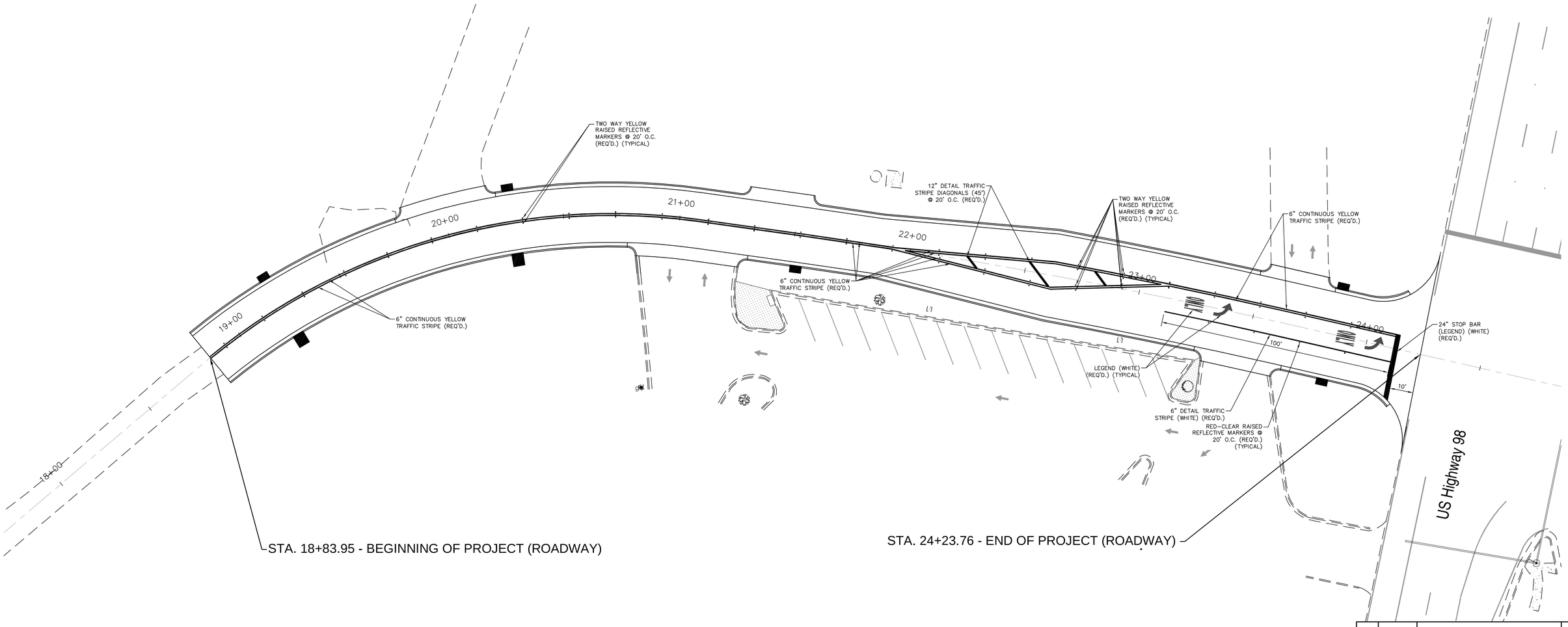

NO.	DATE	DESCRIPTION	BY

STRIPING PLAN

RECONSTRUCTION OF
LAKE FORGETFUL ROAD
CITY OF HATTIESBURG, MISSISSIPPI

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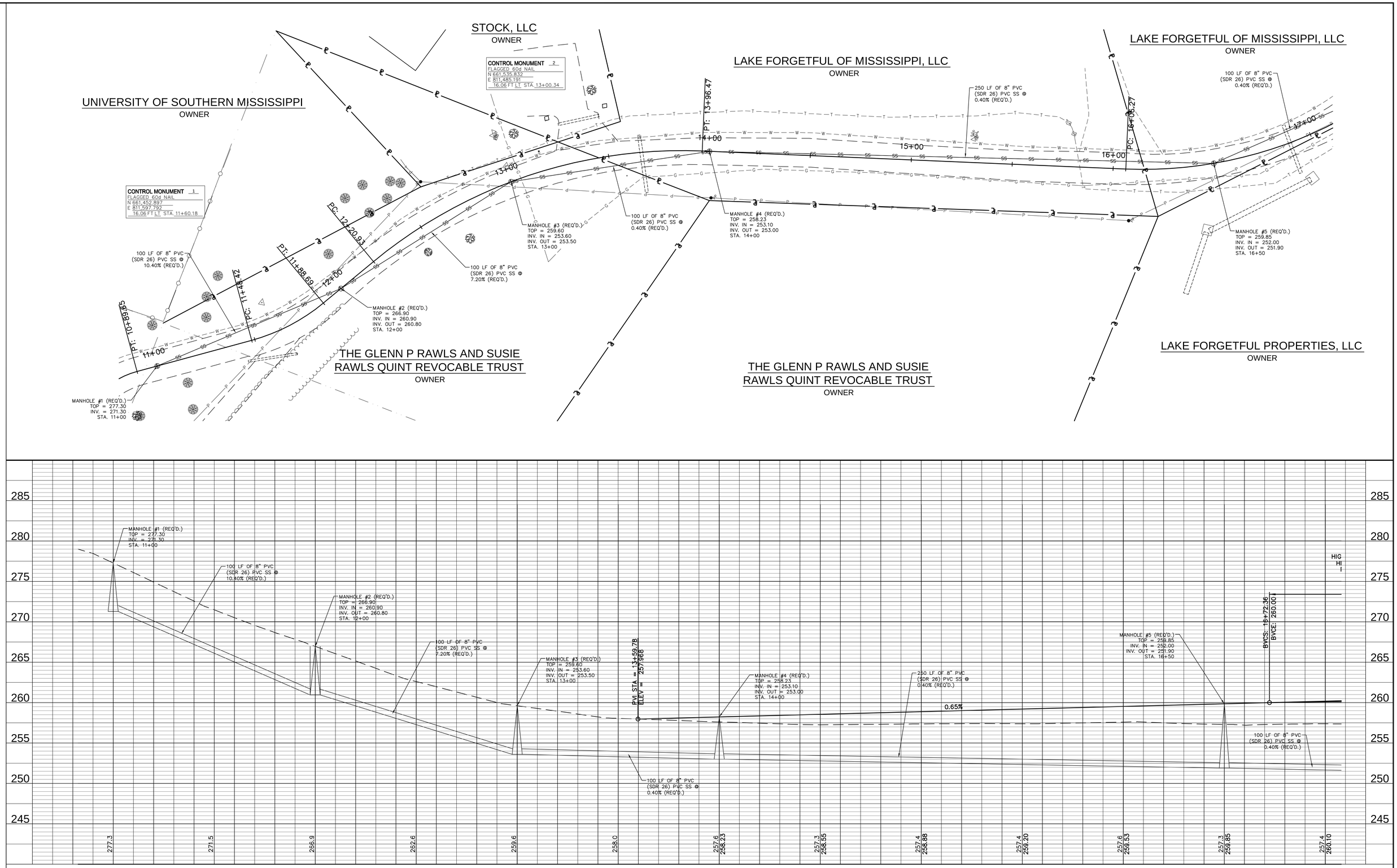

LAKE FORGETFUL ROAD– SEWER
CITY OF HATTIESBURG

DATE	REVISION	BY

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DATE: SEPTEMBER 6, 2016
CHECKED BY: SEM
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DRAWING NO. 11209
SHEET 6

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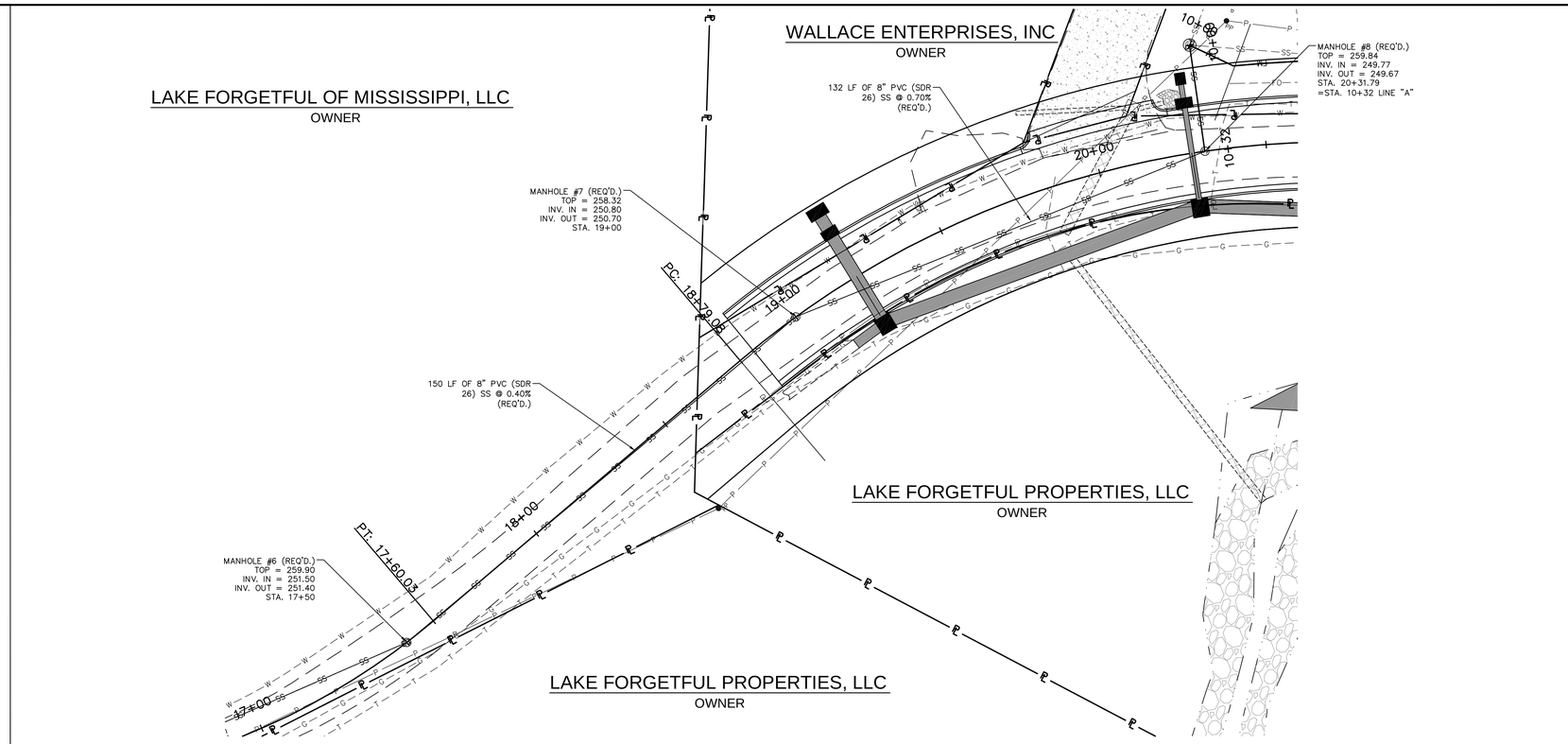
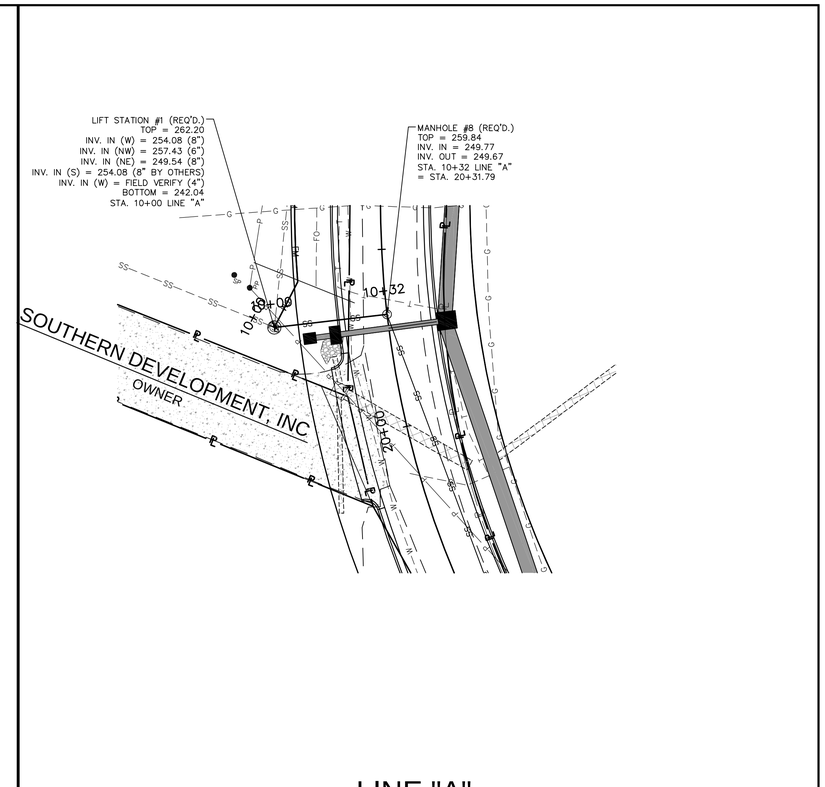
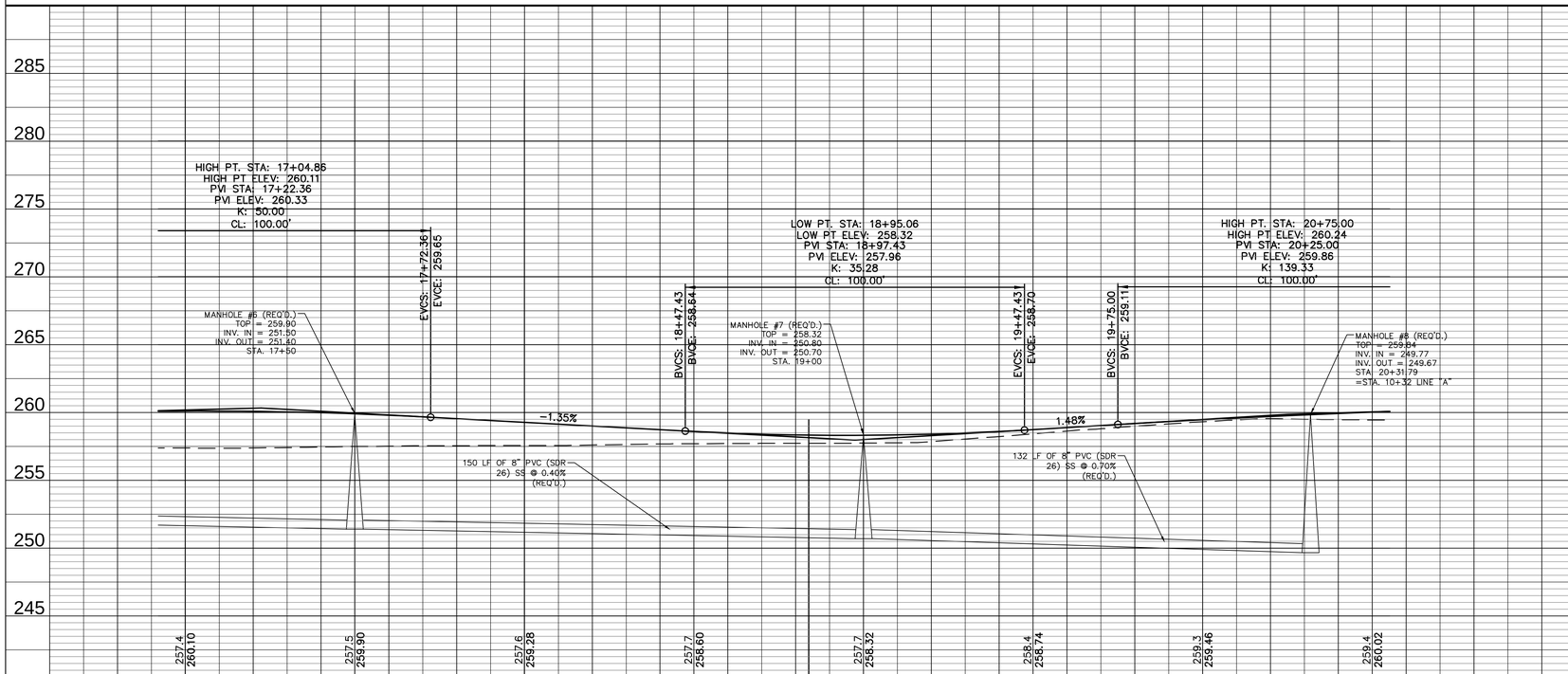
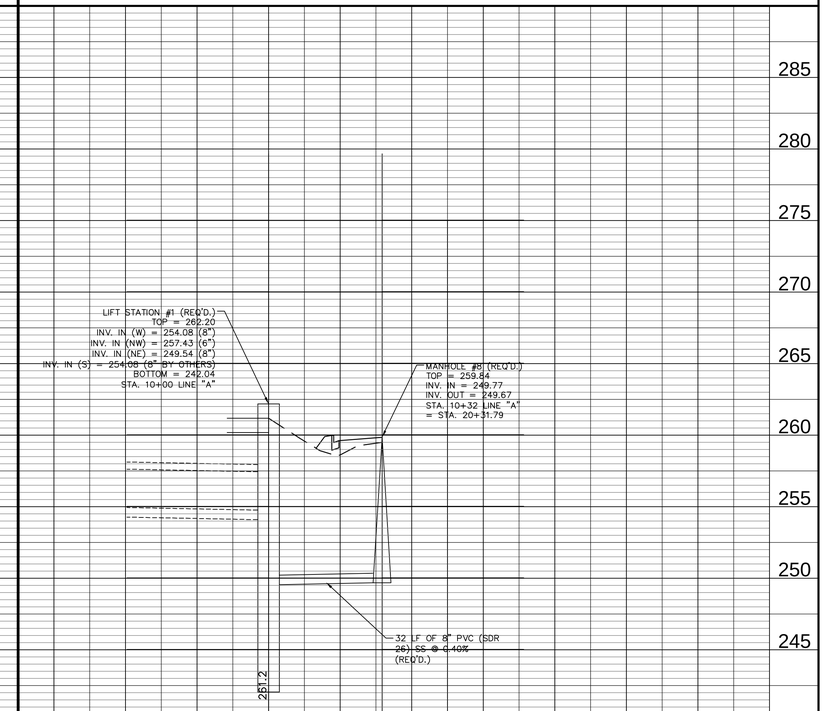




LINE "A"





LAKE FORGETFUL ROAD – SEWER
CITY OF HATTIESBURG

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DRAWING NO. 11209
SHEET 7

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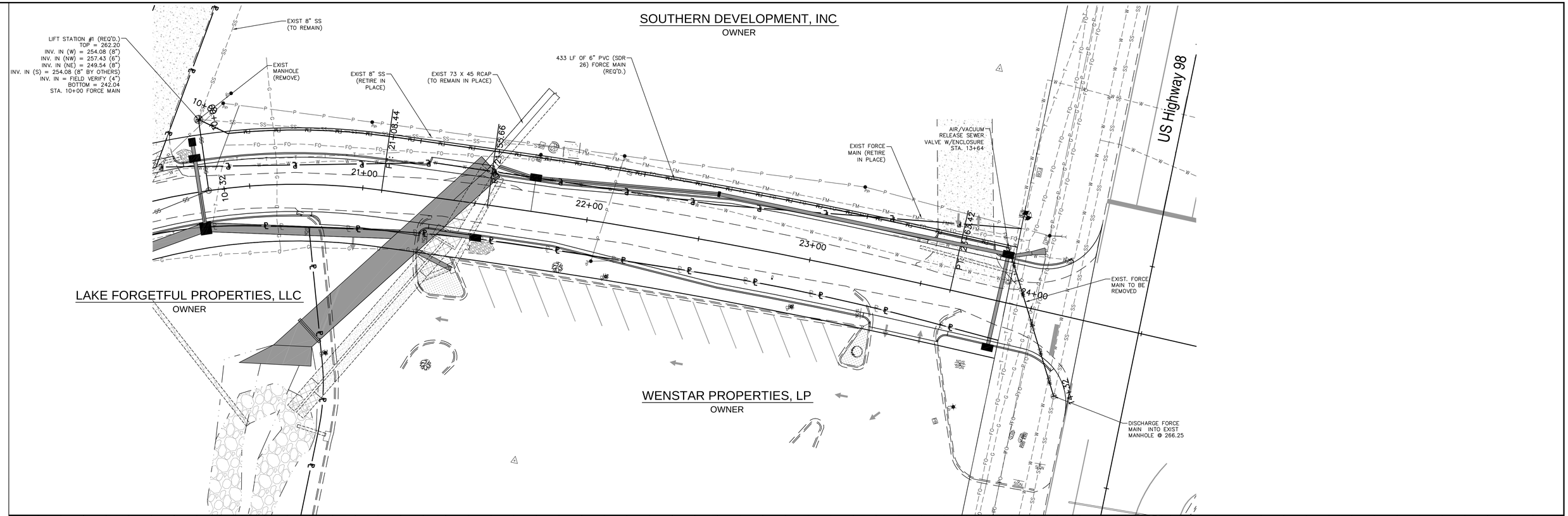

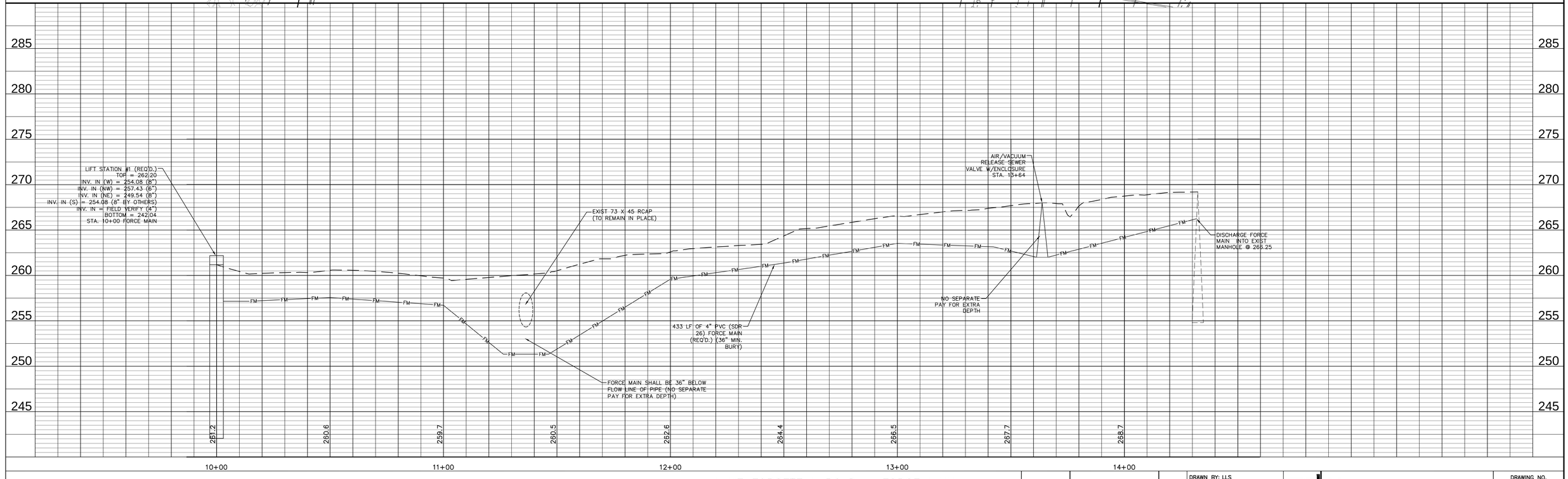

LAKE FORGETFUL ROAD – FORCE MAIN
CITY OF HATTIESBURG

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DATE: SEPTEMBER 6, 2016
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DRAWING NO. 11209
SHEET 8

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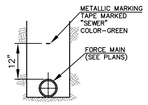
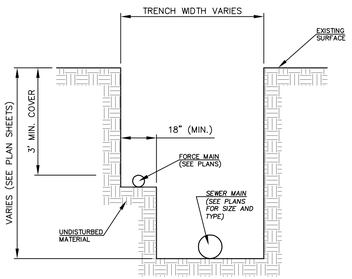
STATION NUMBER	GROUND ELEVATION	TOP ELEVATION	BOTTOM ELEVATION	INVERT ELEV. INLET PIPE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	HIGH POINT ELEVATION	TOTAL FORCE MAIN LENGTH	DISCHARGE PIPE SIZE	VALVE SIZE	PUMP HORSE POWER	NO. OF PUMPS	GPM	TDH
1	261.20	262.20	242.04	257.43 (6") 254.08 (8") 249.54 (8")	6'	20.16'	7.5'	2'	1'	270.50	433	6"	6"	5	2	180	60

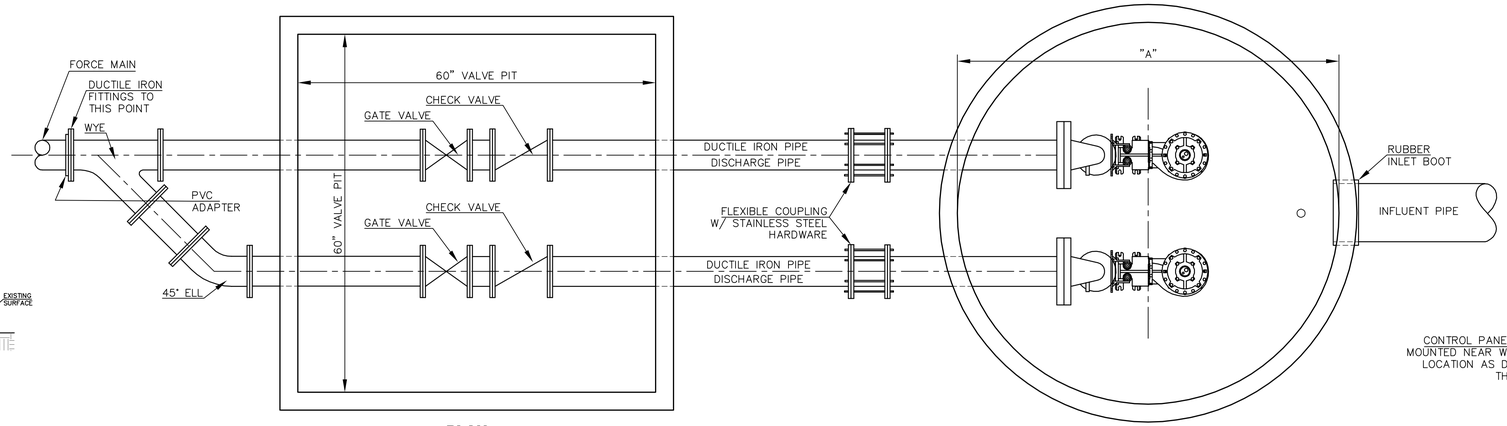
FORCE MAIN NOTE: FORCE MAIN LENGTH SHALL BE VERIFIED ON PLAN SHEETS.



METALLIC MARKING TAPE PLACEMENT DETAIL

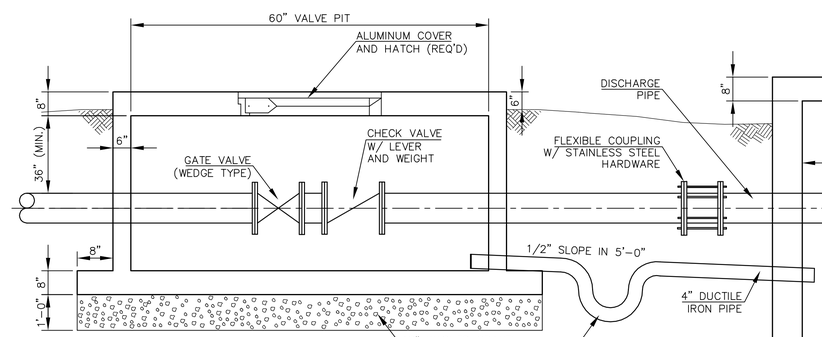


DETAIL OF FORCE MAIN/GRAVITY MAIN TRENCH



PLAN

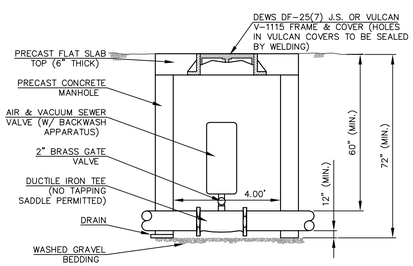
PLAN



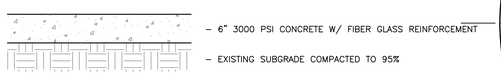
SECTION

VALVE PIT

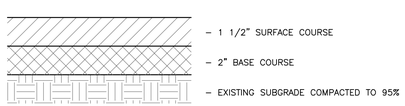
NOT TO SCALE



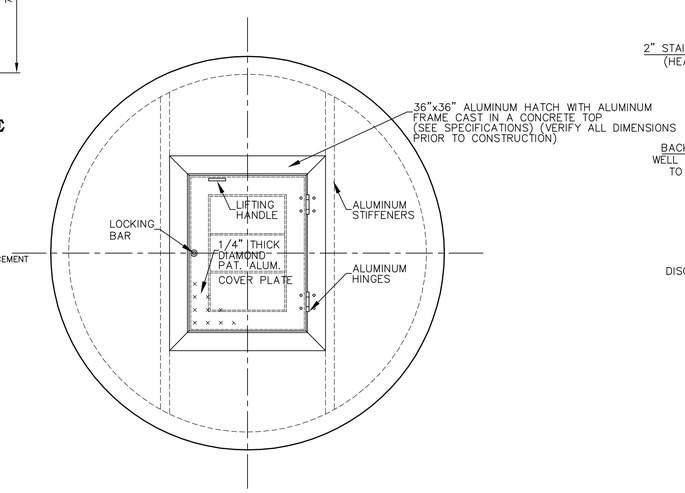
AIR AND VACUUM RELEASE SEWER VALVE DETAIL



TYPICAL CONCRETE PAVEMENT REPAIR

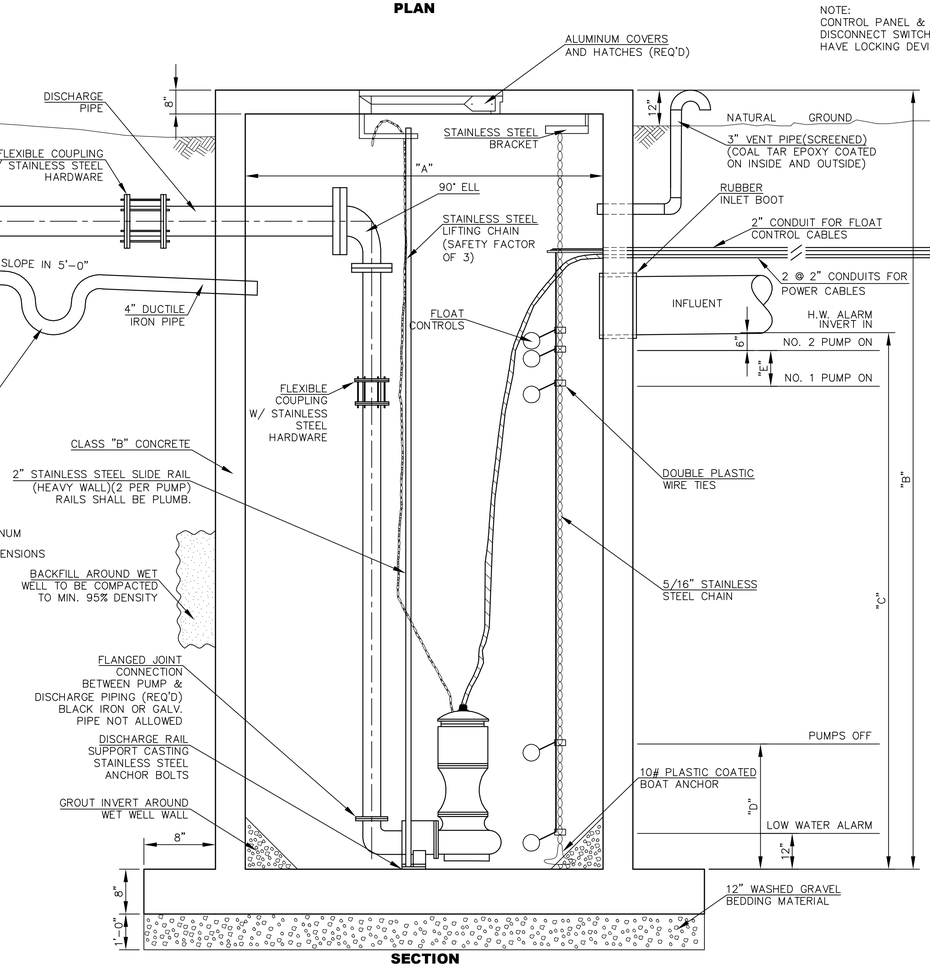


TYPICAL ASPHALT PAVEMENT REPAIR



REMOVABLE COVER AND HATCH DETAIL

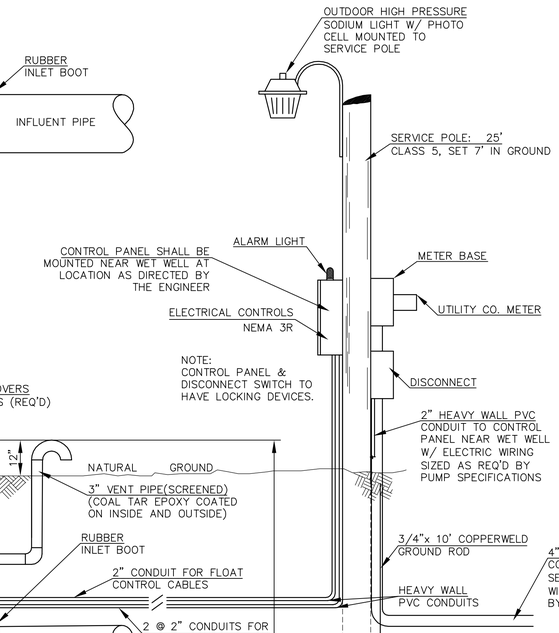
NOT TO SCALE



SECTION

SEWAGE PUMPING STATION

NOT TO SCALE



NOTES:

1. NO SPLICES IN POWER OR FLOAT CONTROL CABLES ALLOWED.
2. ALL BOLTS, NUTS, WASHERS, SPECIAL FITTINGS, ETC., SHALL BE MADE OF STAINLESS STEEL.
3. DUCTILE IRON PIPING AND FITTINGS SHALL BE BITUMINOUS COATED OUTSIDE AND COATED INSIDE WITH 16 MIL. COAL TAR EPOXY.
4. ALL HOLES IN WET WELL AROUND DISCHARGE PIPES, VENT, ETC. SHALL BE FILLED WITH EPOXY MORTAR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 3-PHASE ELECTRICAL SERVICE TO THE LIFT STATION AND ANY FEES ASSOCIATED WITH SAID SERVICE.
6. ALL ABOVE GROUND ELECTRICAL CONDUITS SHALL FASTENED SECURELY WITH SUNLIGHT RESTRAINTS.
7. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF PUMPS WITH THE PUMP SUPPLIER PRIOR TO CASTING HATCH FRAME IN WET WELL TOP.

NO.	DATE	DESCRIPTION	BY

LIFT STATION DETAILS

INSTALLATION OF SEWER ALONG LAKE FORGETFUL ROAD
CITY OF HATTIESBURG, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: LLS	Checked by: SEM
Date: NOVEMBER 3, 2016	Scale: NTS
Drawing No.: 11209	Sheet No. 9

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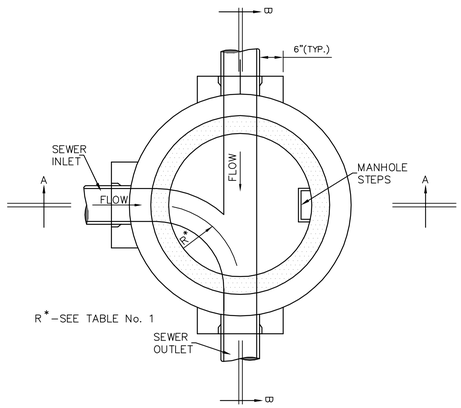
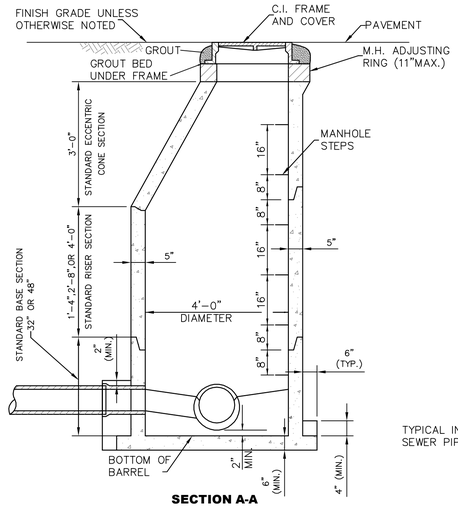


SECTIONAL PLAN

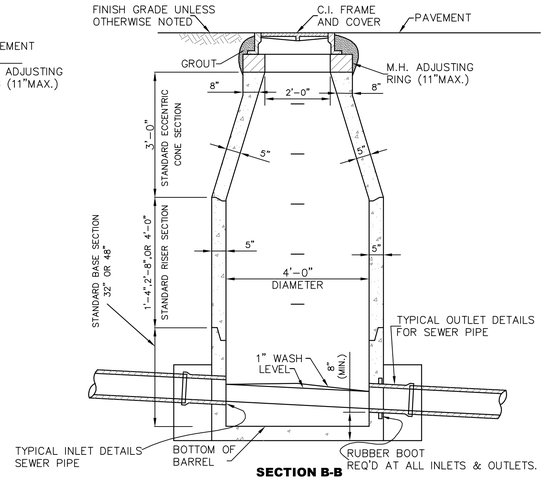
STANDARD PRECAST 4'-0" DIAMETER MANHOLE

NOTE: 5–0" & 6'–0" DIAMETER MANHOLE MAY BE SIMILAR DESIGN IF APPROVED BY THE ENGINEER. SHOWN WITH CLAY OR CONCRETE PIPE



SECTION A-A

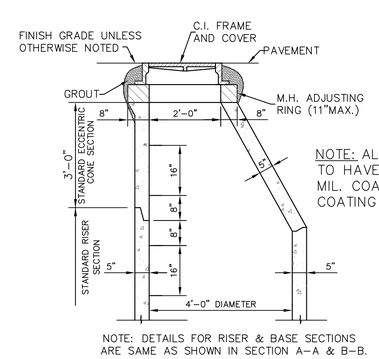
SHOWN WITH MANHOLE BOTTOM-PRECAST



SECTION B-B

SHOWN WITH MANHOLE BOTTOM CAST-IN-PLACE

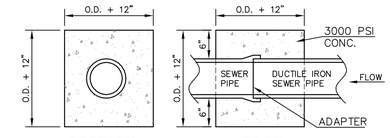
NOTE: CAST–IN–PLACE MANHOLE BOTTOMS SHALL HAVE #4 BARS 12"O.C.E.W. 4" ABOVE BOTTOM OF SLAB EXTENDING TO 3" OF EDGE OF SLAB. CAST–IN–PLACE BOTTOMS SHALL BE A MIN. OF 8" THICK.



NOTE: ALL MANHOLES TO HAVE A MIN. OF 16 MIL. COAL TAR EPOXY COATING ON INSIDE.

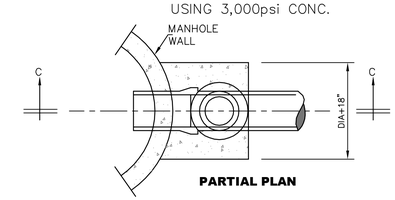
NOTE: DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTION A–A & B–B.

STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES



TYPICAL SEWER PIPE CONNECTION TO SAME SIZE DUCTILE IRON SEWER PIPE

NOTE: DROP MANHOLE ASSEMBLY TO BE FORMED AND POURED USING 3,000psi CONC.



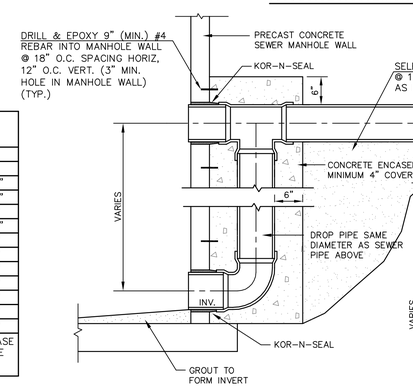
PARTIAL PLAN

TYPICAL DROP MANHOLE ASSEMBLY

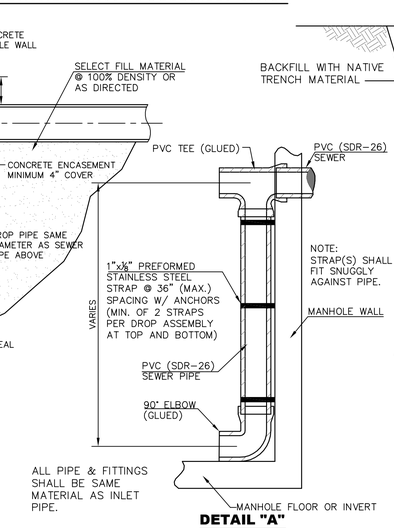
NOTE: ALL MANHOLES SHALL BE STANDARD PRECAST WITH EXTENDED BASES, UNLESS OTHERWISE DIRECTED. FLEXIBLE INLET AND OUTLET CONNECTION BOOTS REQUIRED ON ALL PIPES AND FORCE MAINS.

TABLE NO. 1 GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	ū ANGLE	MIN. BASE DIAMETER	"R"*
8"THRU 12"	0°TO 90°	4'	1'–6"
15"	0°TO 60°	5'	1'–10"
15"	60°TO 90°	5'	1'–10"
18"	0°TO 90°	5'	2'–3"
18"	60°TO 90°	5'	1'–10"
21"	0°TO 90°	5'	2'–7"
21"	60°TO 90°	5'	2'–4"
24"	0°TO 45°	6'	3'–0"
24"	45°TO 90°	6'	2'–3"
30"	0°TO 60°	6'	3'–9"
30"	60°TO 90°	6'	2'–8"
36"	0°TO 30°	7'	4'–6"
36" AND LARGER	0°TO 90°	CAST IN PLACE MANHOLE BASE OR PRE–BED PIPE M.H. BASE AND ELBOW UNITS.	

* SEE SECTIONAL PLAN, Std. PRECAST MANHOLE



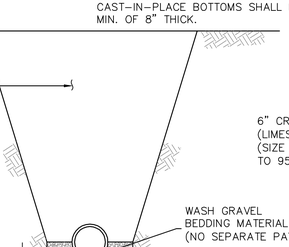
DETAIL "B"
SECTION C-C



DETAIL "A"
SECTION C-C

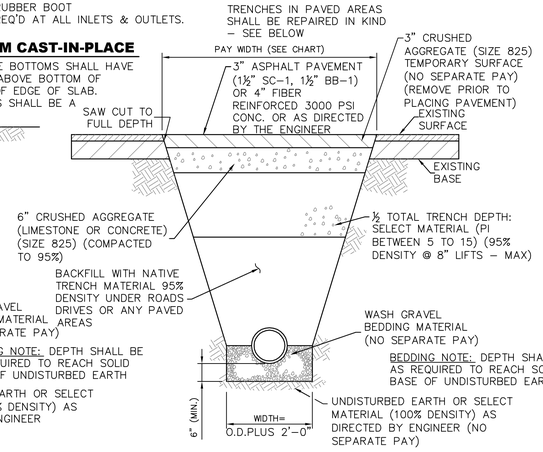
TYPICAL DROP MANHOLE ASSEMBLY

NOTES:
1. USE DETAIL "A" ONLY WHERE SINGLE DROP ASSEMBLY IS REQ'D. FOR MULTIPLE DROPS USE DETAIL "B" SHOWN ELSEWHERE ON THIS SHEET FOR 48" MANHOLE. FOR MULTIPLE DROP ASSEMBLIES IN LARGER MANHOLES, DROPS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
2. ALL HARDWARE SHALL BE STAINLESS STEEL.
3. ALL APPURTENANCES SHALL BE INCLUDED IN BID PRICE FOR DROP ASSEMBLIES.



BEDDING NOTE: DEPTH SHALL BE AS REQUIRED TO REACH SOLID BASE OF UNDISTURBED EARTH

TYPICAL TRENCH DETAIL

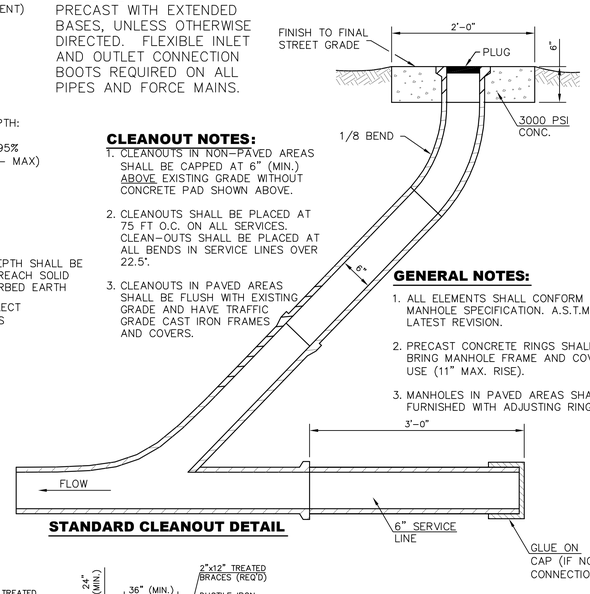


BEDDING NOTE: DEPTH SHALL BE AS REQUIRED TO REACH SOLID BASE OF UNDISTURBED EARTH

TYPICAL TRENCH AT ROADWAY DETAIL

CLEANOUT NOTES:

1. CLEANOUTS IN NON–PAVED AREAS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE WITHOUT CONCRETE PAD SHOWN ABOVE.
2. CLEANOUTS SHALL BE PLACED AT 75 FT O.C. ON ALL SERVICES. CLEAN–OUTS SHALL BE PLACED AT ALL BENDS IN SERVICE LINES OVER 22.5'.
3. CLEANOUTS IN PAVED AREAS SHALL BE FLUSH WITH EXISTING GRADE AND HAVE TRAFFIC GRADE CAST IRON FRAMES AND COVERS.

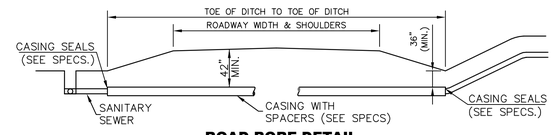


STANDARD CLEANOUT DETAIL

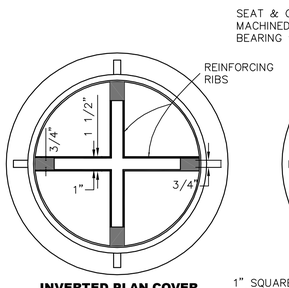
GENERAL NOTES:

1. ALL ELEMENTS SHALL CONFORM TO PRECAST MANHOLE SPECIFICATION. A.S.T.M. C–478 LATEST REVISION.
2. PRECAST CONCRETE RINGS SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO GRADE USE (11" MAX. RISE).
3. MANHOLES IN PAVED AREAS SHALL BE FURNISHED WITH ADJUSTING RINGS.

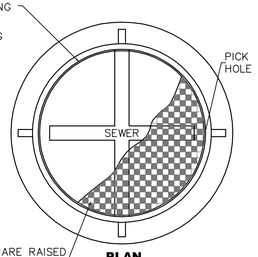
NOTE: ALL TESTING TO BE THE RESPONSIBILITY OF THE CONTRACTOR. (NO SEPARATE PAY)



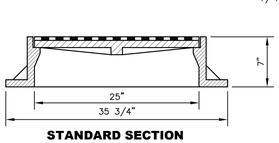
ROAD BORE DETAIL



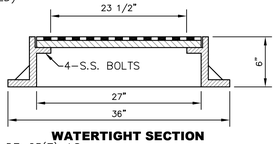
INVERTED PLAN COVER



PLAN



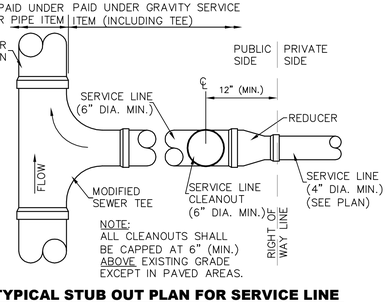
STANDARD SECTION



WATERTIGHT SECTION

STANDARD COVER & FRAME DF–25(7) J.S. OR V–1115 (HOLES IN VULCAN COVERS SHALL BE SEALED BY WELDING) ONLY
WATERTIGHT COVER & FRAME V–2357 OR DF–25(7)W.T. ONLY

STANDARD MANHOLE COVERS

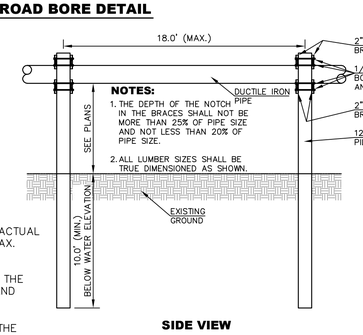


NOTE:
ALL CLEANOUTS SHALL BE CAPPED AT 6" (MIN.) ABOVE EXISTING GRADE EXCEPT IN PAVED AREAS.

TYPICAL STUB OUT PLAN FOR SERVICE LINE

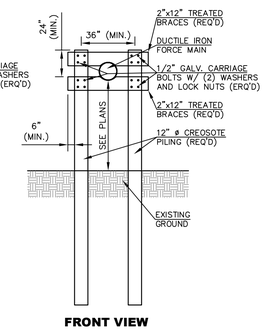
MAXIMUM PAVEMENT REPAIR PAY CHART	
SEWER MAIN DEPTH	MAXIMUM PAY PAY WIDTH
0'–6'	UP TO 6'
6.1'–8'	UP TO 8'
8.1'–10'	UP TO 10'
10.1'–12'	UP TO 12'
12.1'–14'	UP TO 14'
14.1' & UP	THE LESSER OF UP TO 20' OR EXISTING ROADWAY WIDTH (VERIFY PRIOR TO CUT)

NOTES:
1. PAVEMENT REPAIR PAYMENT SHALL BE MADE MEASURING ALONG THE SEWER LINE AND THE ACTUAL WIDTH OF DISTURBED PAVEMENT UP TO THE MAX. WIDTH NOTED ABOVE.
2. SEWER MAIN DEPTH SHALL BE DETERMINED BY THE CUT SHEETS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. FOR AREAS OF DEEP CUT (OVER 14' DEPTH), THE REPAIR AREA SHALL BE MEASURED BASED ON THE EXISTING WIDTH OF THE ROADWAY FOR SEWER LINES ALONG AND IN THE ROADWAY OR 20' MAX WIDTH FOR SEWER LINES CROSSING A ROADWAY.
4. FOR SEWER LINES INSTALLED ALONG THE EDGE OF EXISTING ROADWAY, REPAIRS WIDTHS SHALL BE HALF OF ALL MAX. WIDTHS NOTED ABOVE.



NOTES:
1. THE DEPTH OF THE NOTCH PIPE IN THE BRACES SHALL NOT BE MORE THAN 25% OF PIPE SIZE AND NOT LESS THAN 20% OF PIPE SIZE.
2. ALL LUMBER SIZES SHALL BE TRUE DIMENSIONED AS SHOWN.

SIDE VIEW



FRONT VIEW

TREATED WOOD PIPE PIERS

NO.	DATE	DESCRIPTION	BY

SEWER INSTALLATION DETAILS

LAKE FORGETFUL ROAD
CITY OF HATTIESBURG
LAMAR COUNTY, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: LLS	Checked by: SEM
Date: NOVEMBER 4, 2016	Scale: NONE
Drawing No.: 11209	Sheet No. 10

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VEGETATION SCHEDULE

	EROSION CONTROL ITEMS	SEASONAL APPLICATIONS - DATES & RATES				REQUIREMENTS
		SPRING & SUMMER		FALL & WINTER		
	ITEMS	RATES	DATES	RATES	DATES	
7	TOPSOIL FOR SLOPE TREATMENT (LVM)	4" THICK	MARCH 1 TO SEPTEMBER 1	4" THICK	SEPTEMBER 1 TO MARCH 1	TOPSOIL REQUIRED ON SLOPES DETERMINED BY THE ENGINEER DURING CONSTRUCTION
	STANDARD GROUND PREPARATION	PER SQ. FT.	MARCH 1 TO SEPTEMBER 1	PER SQ. FT.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE
	AGRICULTURAL LIMESTONE	3 TONS / ACRE	MARCH 1 TO SEPTEMBER 1	3 TONS / ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING
	COMBINATION FERTILIZER (13–13–13)	1000 LBS / ACRE	MARCH 1 TO SEPTEMBER 1	1000 LBS / ACRE	SEPTEMBER 1 TO MARCH 1	FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING
1	SUPER PHOSPHATE	0.5 TON / ACRE (EST)	MARCH 1 TO SEPTEMBER 1			SUPER PHOSPHATE (FOR BID ITEM PURPOSES)
2	SEEDING (BERMUDA GRASS)	20 LBS / ACRE	MARCH 1 TO SEPTEMBER 1	20 LBS / ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED
3 5	SEEDING (TALL FESCUE)			15 LBS / ACRE	AUGUST 15 TO MARCH 15	SEED REQUIRED IN DISTURBED AREAS
3 5	SEEDING (CRIMSON CLOVER)			20 LBS / ACRE	AUGUST 15 TO MARCH 15	SEED REQUIRED ON DISTURBED AREA
6	VEGETATIVE MATERIAL FOR MULCH	2 TONS / ACRE (EST)	MARCH 1 TO SEPTEMBER 1	2 TONS / ACRE (EST)	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICABLE (SEE SUBSECTION 215–03.3)
	SOLID SODDING	PER SQ. YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR BY THE ENGINEER
	WATERING	20 GAL / S.Y. (EST)	MARCH 1 TO SEPTEMBER 1	20 GAL. / S.Y. (EST)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING OF SOLID SOD
4	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220
	TEMPORARY EROSION CONTROL ITEMS					
	LIGHT GROUND PREPARATION	PER SQ. YD.		PER SQ. YD.		APPROXIMATELY HALF SQ.YD. STANDARD GROUND PREPARATION
	COMBINATION FERTILIZER (13–13–13)	0.25 TONS/ ACRE		0.25 TONS/ ACRE		QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (BROWN TOP MILLET)	20 LBS / ACRE	APRIL 1 TO AUGUST 31			QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (RYE GRASS)			25 LBS / ACRE	SEPTEMBER 1 TO MARCH 31	QUANTITY BASED ON LIGHT GROUND PREPARATION
	SEEDING (OATS)			90 LBS / ACRE	SEPTEMBER 1 TO DECEMBER 15	QUANTITY BASED ON LIGHT GROUND PREPARATION
	VEGETATIVE MATERIAL FOR MULCH	1 TON / ACRE (EST)		1 TON / ACRE (EST)		QUANTITY BASED ON LIGHT GROUND PREPARATION

1. ALL AREAS THAT HAVE BEEN VEGETATED, UNDER THIS CONTRACT, FOR AT LEAST (60) SIXTY DAYS, SHALL RECEIVE ADDITIONAL APPLICATION(S) OF FERTILIZER(S) OF THE TYPE(S) AND RATE(S) OF APPLICATIONS AS DETERMINED BY SOIL TEST OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS.
2. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 100% OF THE ACREAGE WILL BE SEEDED.
3. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.
4. QUANTITY ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE VEGETATED MAY REQUIRED TREATMENT.
5. THIS ITEM MAY BE OMITTED ON AREAS SELECTED BY THE ENGINEER.
6. BAHIAGRASS WILL NOT BE PERMITTED AS A MULCH MATERIAL.
7. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 75% OF THE ACREAGE SEEDED MAY REQUIRE TOPSOIL

TEMPORARY EROSION CONTROL ITEMS REQUIRED FOR DETOURS

ITEM	RATE	SEASONAL LIMITATIONS
STANDARD GROUND PREPARATION	---	---
COMBINATION FERTILIZER (13–13–13)	500 LBS/ACRE	---
SEEDING (BERMUDA GRASS)	10 LBS/ACRE	---
SEEDING (TALL FESCUE)	20 LBS/ACRE	AUGUST 15 TO MARCH 15
VEGETATIVE MATERIAL FOR MULCH	2 LBS/ACRE	---

NO.	DATE	DESCRIPTION	BY

VEGETATION SCHEDULE

LAKE FORGETFUL ROAD
CITY OF HATTIESBURG
LAMAR COUNTY, MISSISSIPPI

sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

Drawn by: LLS	Checked by: SEM
Date: NOVEMBER 4, 2016	Scale: NONE
Drawing No.: 11209	Sheet No. 11

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STATE	PROJECT NO.
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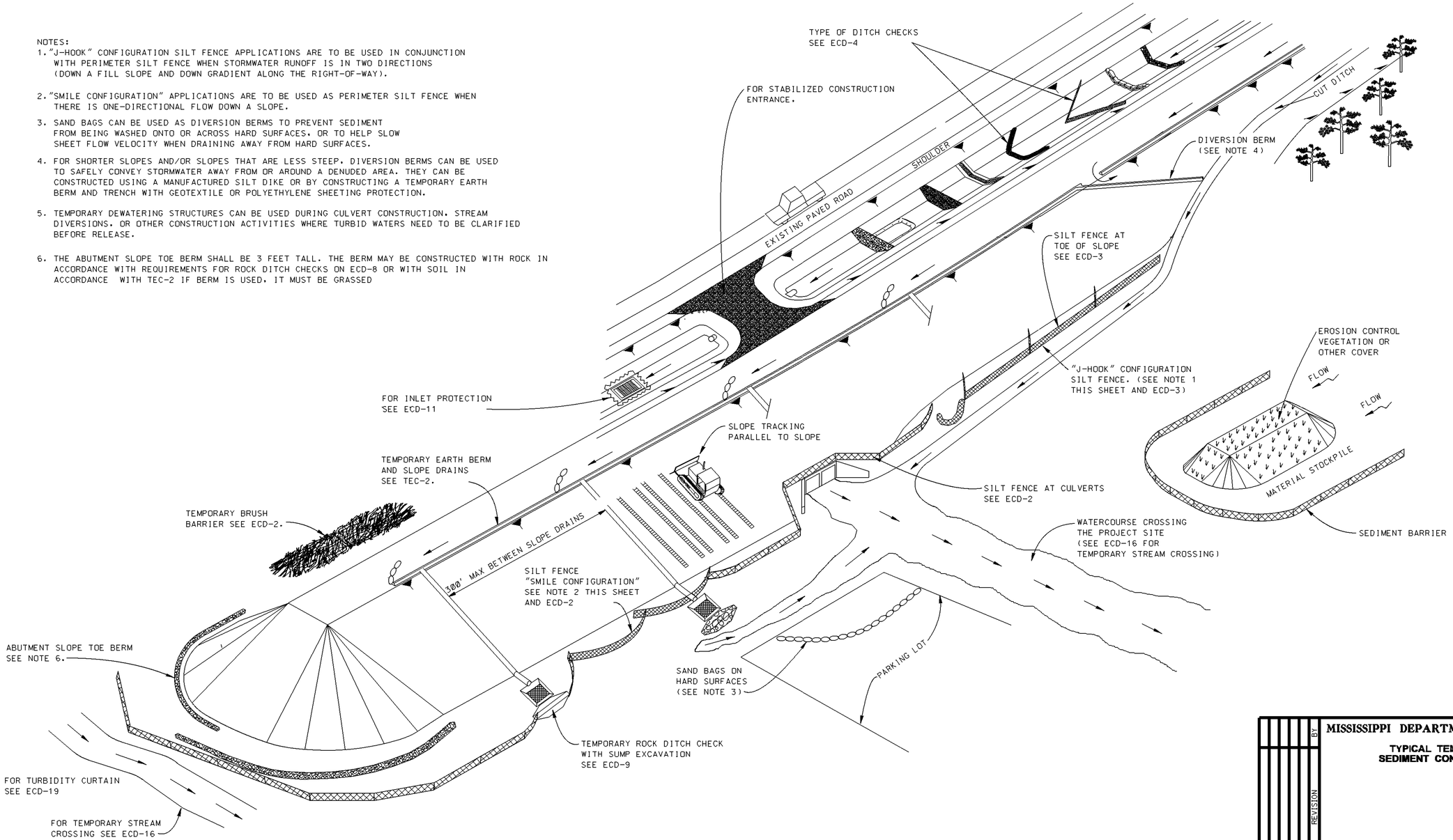
NOTES:

1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES, OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUDED AREA. THEY CAN BE CONSTRUCTED USING A MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FEET TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON ECD-8 OR WITH SOIL IN ACCORDANCE WITH TEC-2 IF BERM IS USED, IT MUST BE GRASSED



DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL TEMPORARY EROSION/ SEDIMENT CONTROL APPLICATIONS

FILENAME: EROSION CONTROL\ECD-1.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER: ECD-1

SHEET NUMBER: 12

DRAWING No.: 11209

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/19/2010 12:18PM ECD-1.DGN

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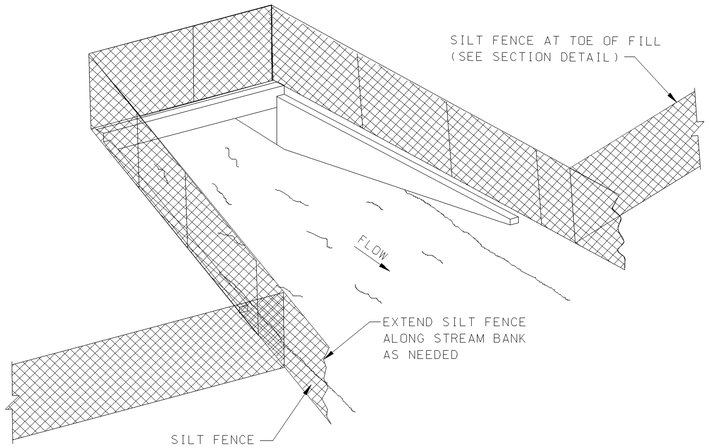
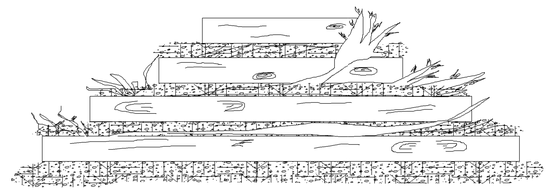
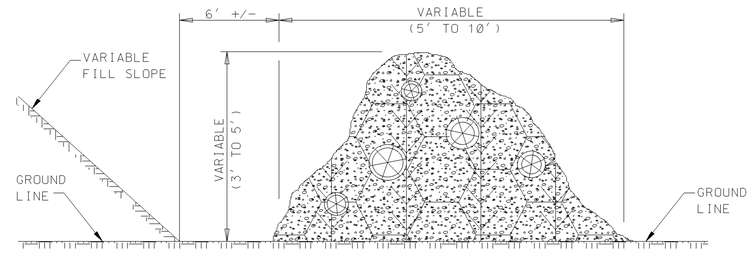


SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION

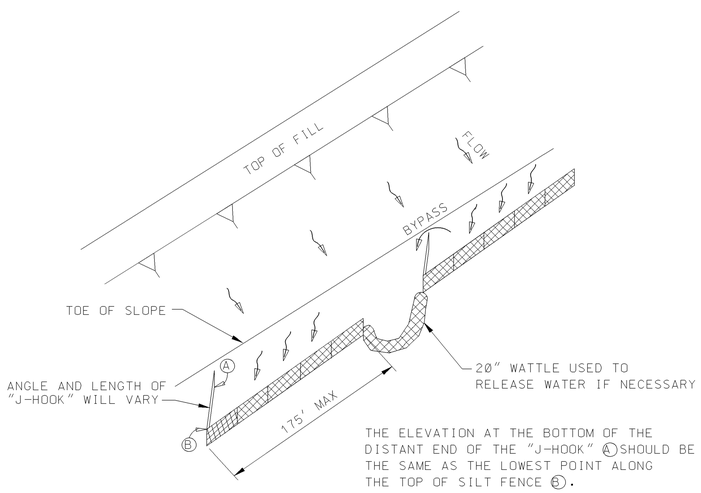


SIDE ELEVATION

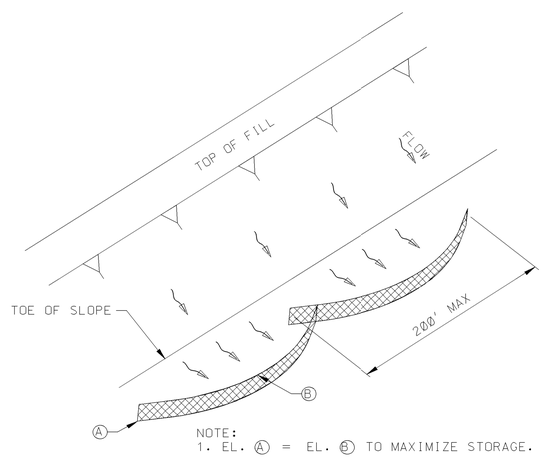
TEMPORARY BRUSH BARRIER

NOTES:
1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC.
5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPERATE PAYMENT

NOTE:
1. ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON ECD-3

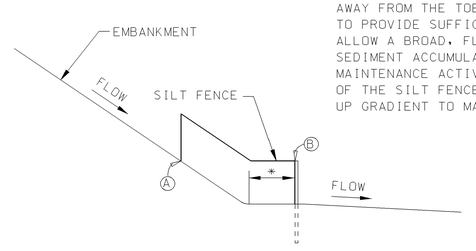


"J-HOOK" SILT FENCE APPLICATION



NOTE:
1. EL. (A) = EL. (B) TO MAXIMIZE STORAGE.

"SMILE-CONFIGURATION" SILT FENCE APPLICATION



* SILT FENCE SHOULD BE LOCATED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD, FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.

SILT FENCE SECTION AT TOE OF FILL

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF SEDIMENT BARRIER APPLICATIONS

WORKING NUMBER: ECD-2

SHEET NUMBER: 13

FILENAME: EROSION CONTROL\ECD-2.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

DRAWING No.: 11209

ELLIS
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/28/2018 8:54 AM ECD-2.DGN

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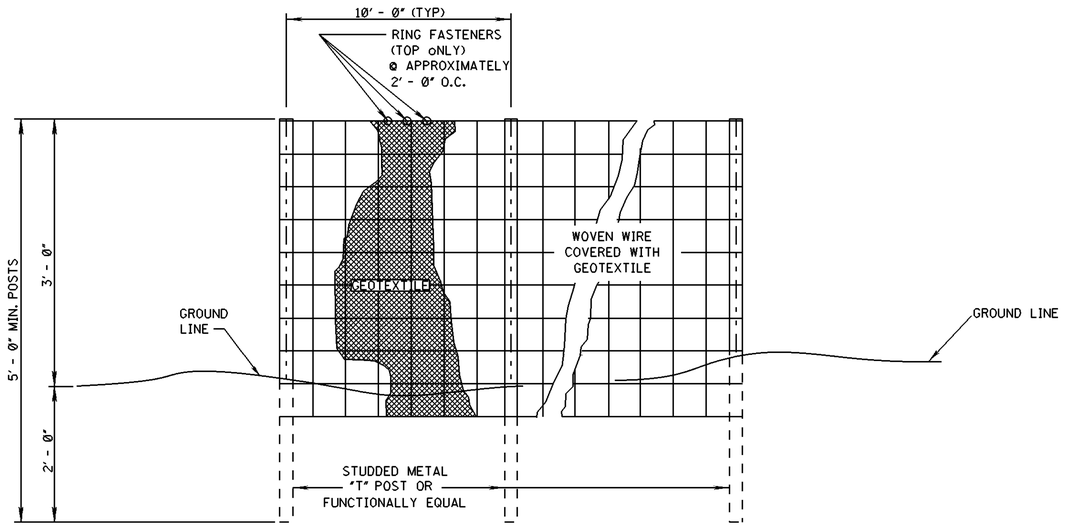
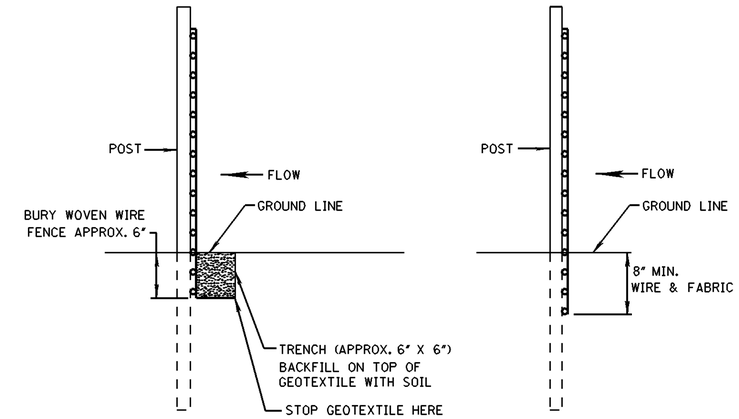


ELEVATION VIEW

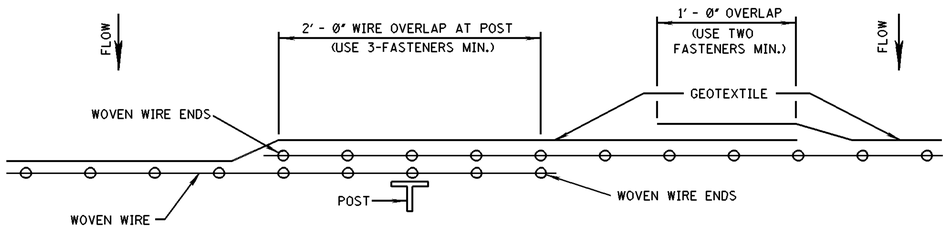


METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

NOTES:
1. SILT FENCES SHALL BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHEREVER POSSIBLE SILT FENCE SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTUREED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
7. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE,



PLAN VIEW

REQUIRED LAPPING

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF SILT FENCE INSTALLATION

REVISION	BY	DATE

FILENAME: EROSION CONTROL\ECD-3.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER ECD-3
SHEET NUMBER 14

DRAWING No.: 11209

PLAN
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MISSISSIPPI DEPARTMENT OF TRANSPORTATION
1/20/2010 8:09 AM ECD-3.DGN
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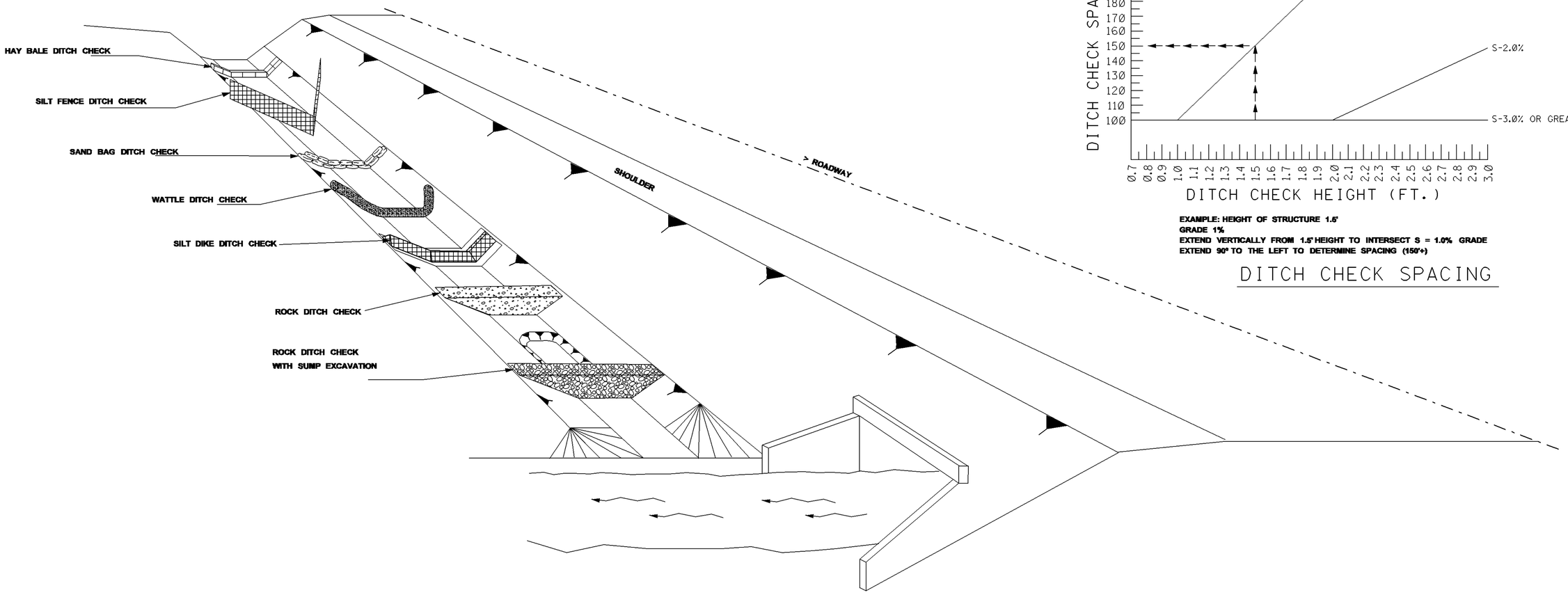
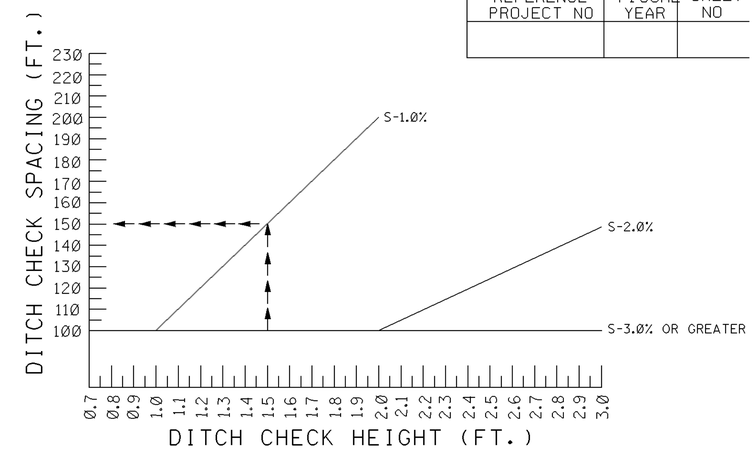
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO





EXAMPLE: HEIGHT OF STRUCTURE 1.5'
GRADE 1%
EXTEND VERTICALLY FROM 1.5' HEIGHT TO INTERSECT S = 1.0% GRADE
EXTEND 90° TO THE LEFT TO DETERMINE SPACING (150'+)

DITCH CHECK SPACING

NOTES:

1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES 1/3 THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN 1/2 THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.
7. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED. AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHALL NOT EXCEED 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. IN GENERAL, DITCH CHECKS SHOULD NOT BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY the ENGINEER TO ACCOMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS

WORKING NUMBER: ECD-4

SHEET NUMBER: 15

FILENAME: EROSION CONTROL\ECD-4.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

DRAWING No.: 11209

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/20/2010 8:10 AM ECD-4.DGN

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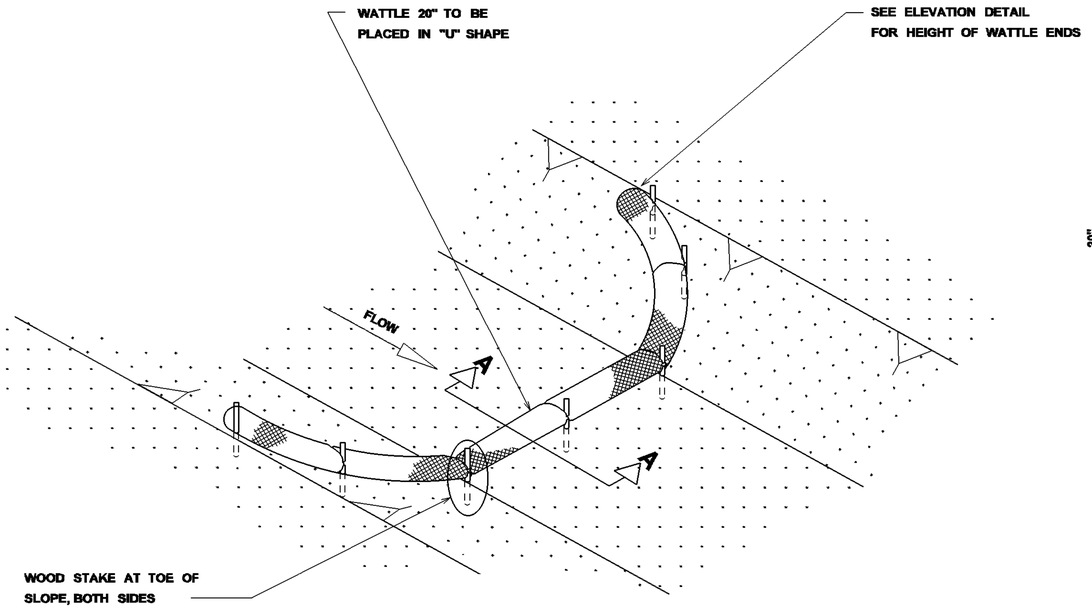
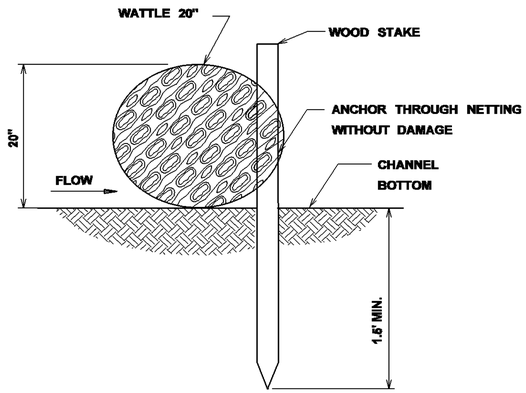
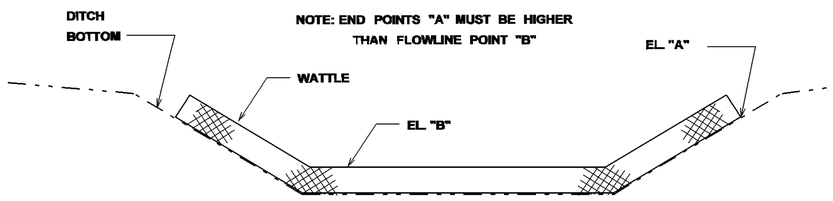


DETAIL (DITCH CHECK)



SECTION A-A



ELEVATION DETAIL

NOTES:

1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILS OF EROSION CONTROL
WATTLE DITCH CHECK

WORKING NUMBER ECD-6

FILENAME: EROSION CONTROL\ECD-6.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

SHEET NUMBER 16

DRAWING No.: 11209

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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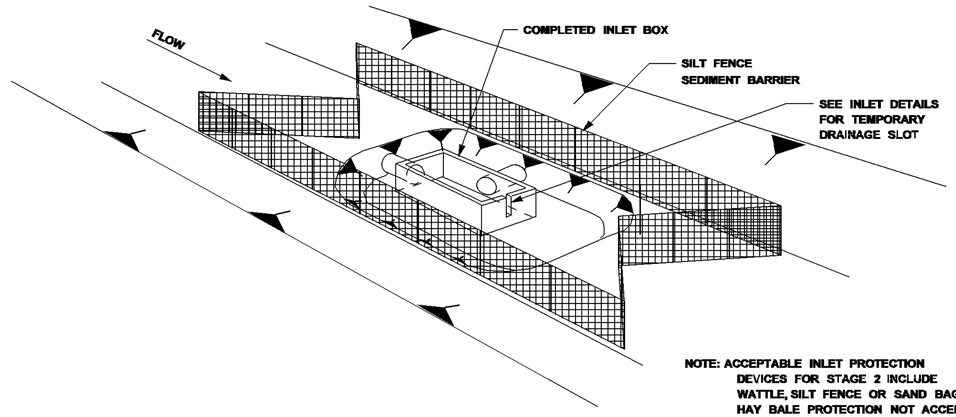
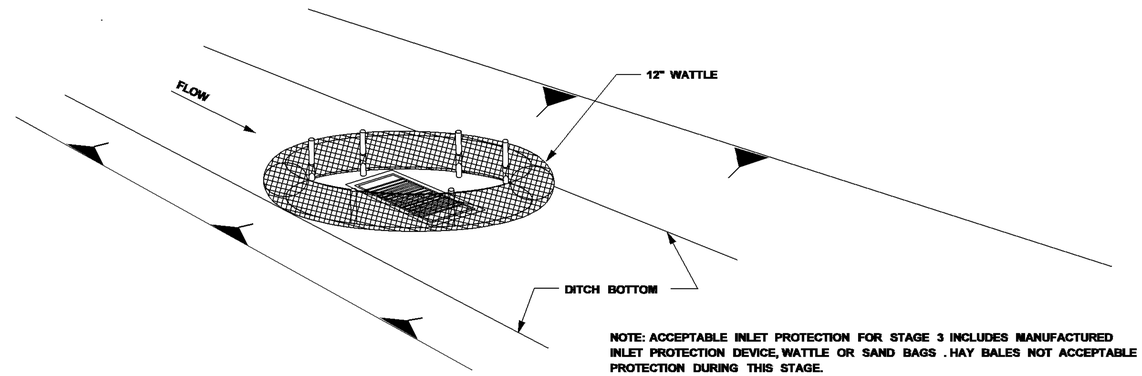


NOTE: ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE WATTLE, SILT FENCE OR SAND BAGS. HAY BALE PROTECTION NOT ACCEPTABLE DURING THIS PHASE.

STAGE 2

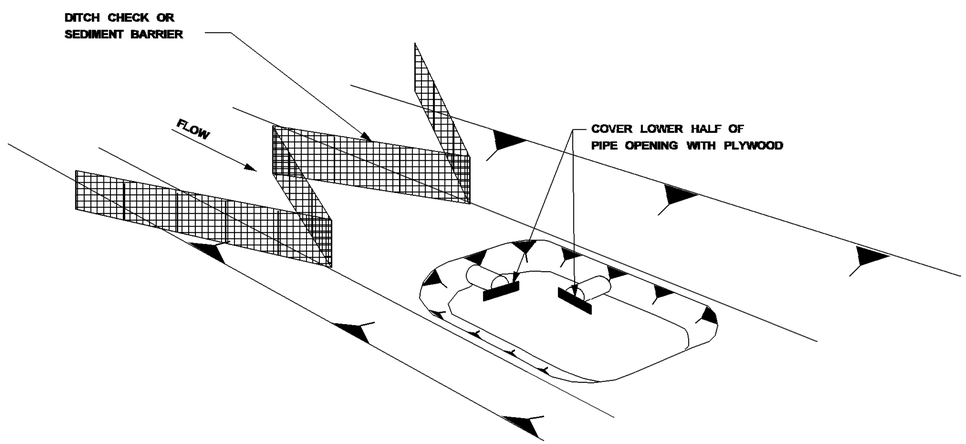
INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED



NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, WATTLE OR SAND BAGS . HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE.

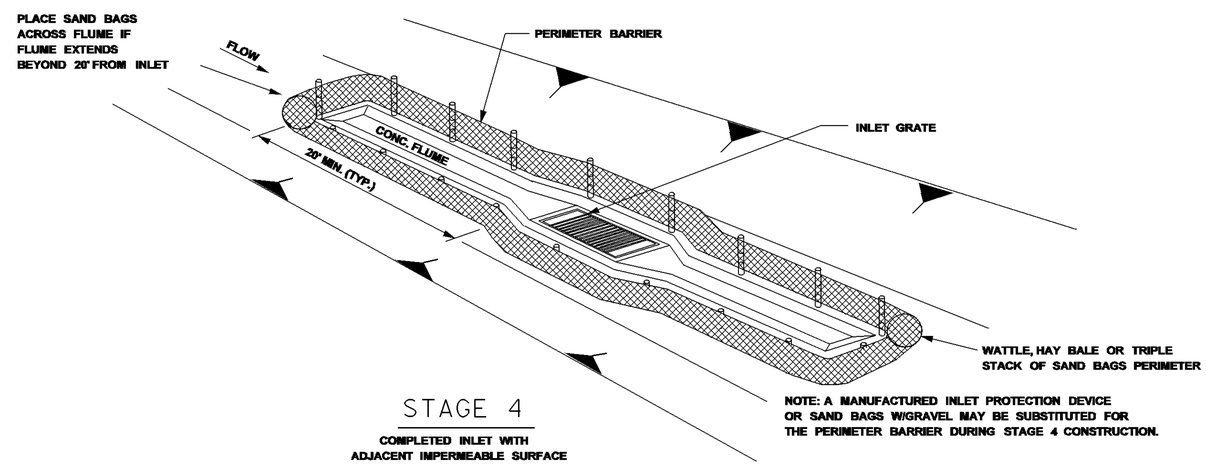
STAGE 3

INLET CONSTRUCTED AND BACKFILLED



STAGE 1

INLET/JUNCTION BOX LOCATION EXCAVATED



NOTE: A MANUFACTURED INLET PROTECTION DEVICE OR SAND BAGS W/GRAVEL MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION.

STAGE 4

COMPLETED INLET WITH
ADJACENT IMPERMEABLE SURFACE

DITCH INLET CONSTRUCTION STAGES

NOTES:

1. FOUNDATION BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
3. DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
INLET PROTECTION
TYPICAL APPLICATIONS AND DETAILS

WORKING NUMBER
ECD-10

SHEET NUMBER
17

FILENAME: EROSION CONTROL\ECD-10.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

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1/19/2010 12:24PM ECD-10.DGN
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MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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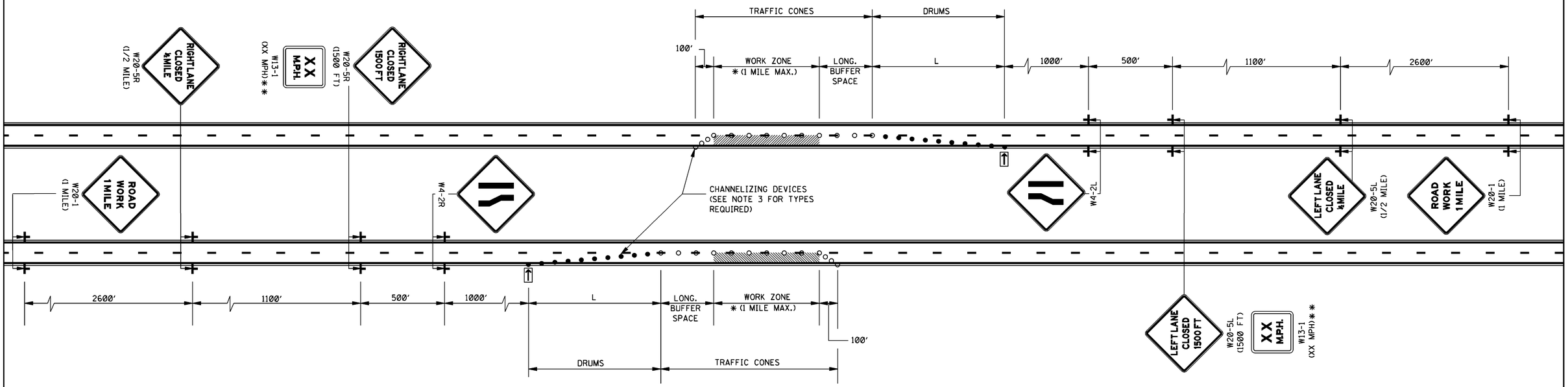

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		MINIMUM LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
mph	TAPER	ALONG LANE LINE & WORK ZONE		
≤40	40	80	170	27:1
45	45	90	220	45:1
50	50	100	280	50:1
55	55	110	335	55:1
60	60	120	415	60:1
65	65	130	485	65:1
70	70	140	575	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
$L = WS$ FOR SPEEDS OF 45 mph OR GREATER
$L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

2. FLASHING ARROW PANEL SHALL BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICE TYPES FOR:
   A. APPROACH TAPER- REFLECTORIZED PLASTIC DRUMS
   B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT)
   C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT)

4. WHEN THERE IS NO EXISTING HAZARD, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.

5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.

6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

7. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 48" X 48".

LEGEND

✱ OR AS SHOWN ELSEWHERE OF THE PLANS.

✱✱ THE LEGEND ON W13-1 (XX MPH) SUPPLEMENTAL PLATE SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT.

FLASHING ARROW PANEL (TYPE "C")

● REFLECTORIZED FREE-STANDING PLASTIC DRUMS

○ TRAFFIC CONES (28" HEIGHT)

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH
(4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE)
(WORK DAY ONLY)

ENGLISH

WORKING NUMBER TCP-2

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6251

DRAWING No.: 11209

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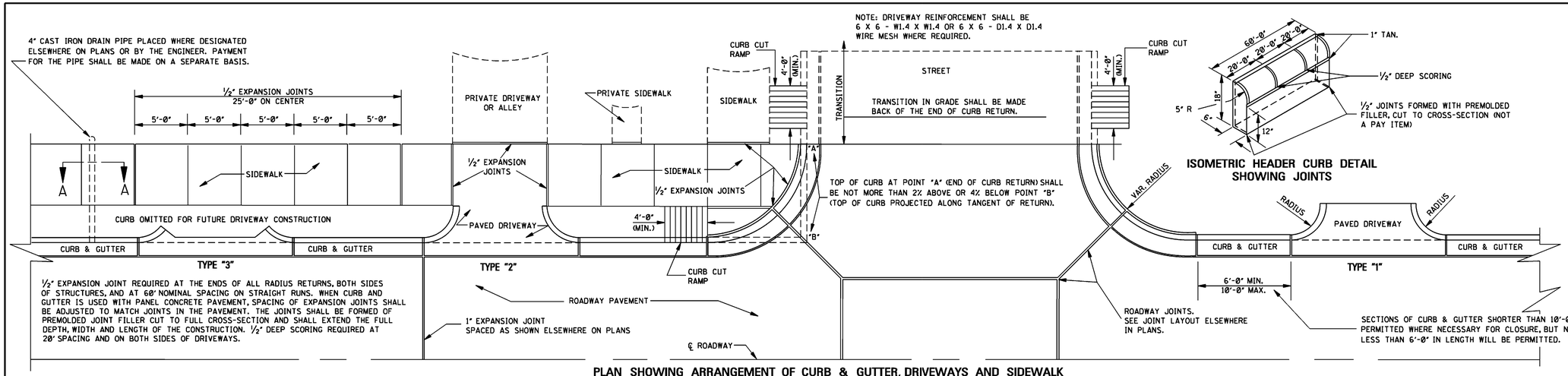
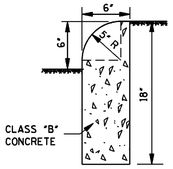
STATE	PROJECT NO.
MISS.	



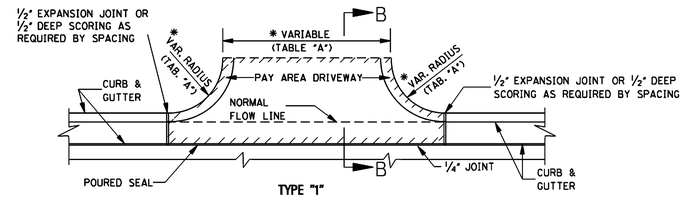
PLAN SHOWING ARRANGEMENT OF CURB & GUTTER, DRIVEWAYS AND SIDEWALK

ISOMETRIC HEADER CURB DETAIL SHOWING JOINTS



DETAIL OF HEADER CURB

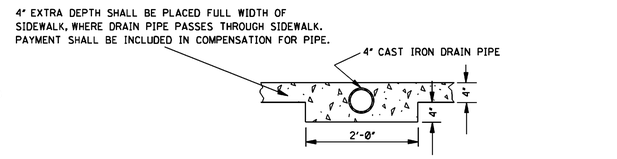
CONTRACTION JOINTS REQUIRED AT 20' O.C.
EXPANSION JOINTS REQUIRED AT 60' O.C.
UNLESS OTHERWISE DIRECTED BY ENGINEER.



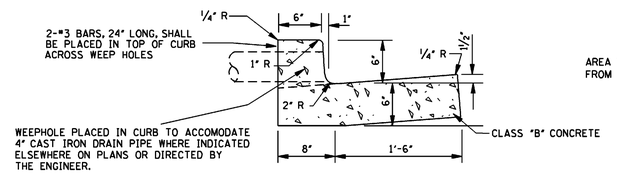
TYPE "1"
PLAN OF CONCRETE DRIVEWAY

11.058 yd² FOR DRIVEWAY 16'-0" IN WIDTH.
0.574 yd² FOR EACH ADDED OR SUBTRACTED FOOT OF WIDTH.
NOTE: THIS DRIVEWAY AREA EXAMPLE IS COMPUTED ON THE BASIS OF 3'-0" RADIUS. PAYMENT FOR CURB RADIUS SHALL BE INCLUDED IN COMPENSATION FOR DRIVEWAY.

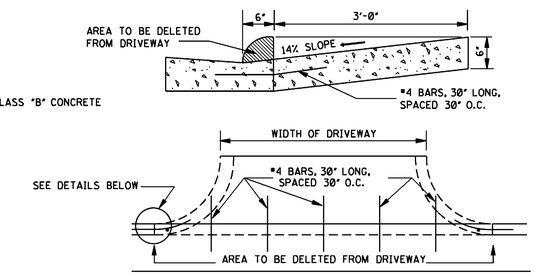
*TABLE "A"		
DRIVEWAY TYPE	DRIVEWAY WIDTH (ft)	CURB RETURN RADIUS (ft)
RESIDENTIAL	16'	3' - 10'
COMMERCIAL/ INDUSTRIAL	30' - 50'	5' - 30'

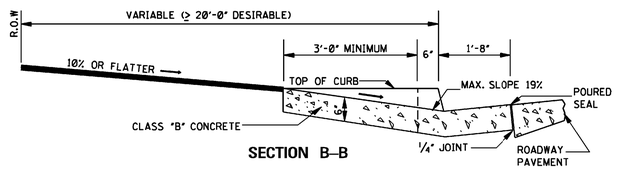


SECTION A–A



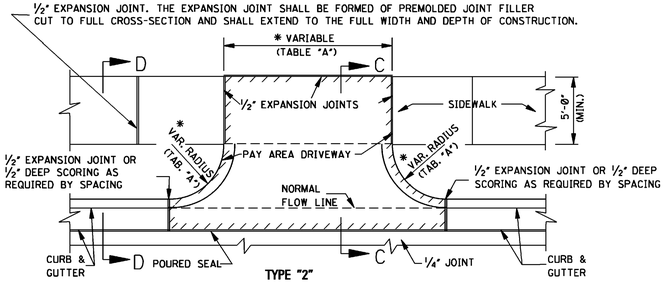
TYPE "1"
DETAIL OF COMBINATION CURB & GUTTER



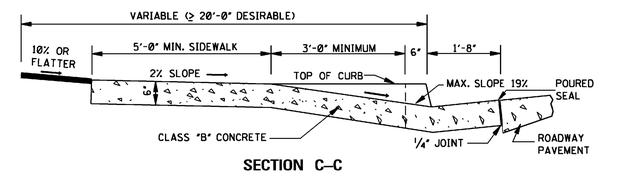


SECTION B–B

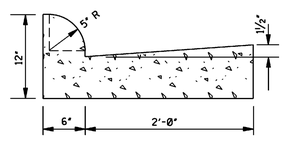
TYPE "2"
DETAIL OF COMBINATION CURB & GUTTER



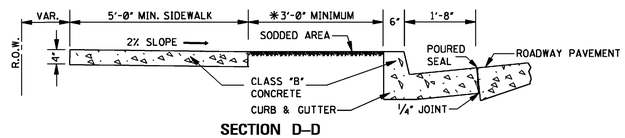
TYPE "2"
PLAN OF CONCRETE DRIVEWAY ACROSS SIDEWALK AREA



SECTION C–C

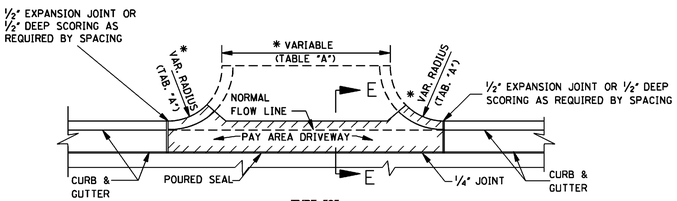


TYPE "3A"
DETAIL OF COMBINATION CURB & GUTTER



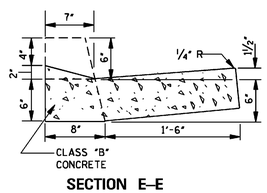
SECTION D–D

* NOTE: THE 3'-0" BUFFER SHOWN IS FOR A BUFFER ZONE. BUFFER ZONE IS NOT REQUIRED UNLESS INDICATED ELSEWHERE ON PLANS.

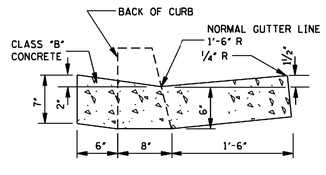


TYPE "3"
PLAN–CURB OMITTED FOR FUTURE DRIVEWAY CONSTRUCTION

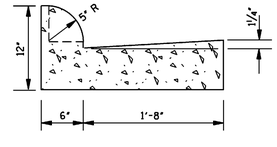
NOTE: THIS TYPE CONSTRUCTION SHALL BE USED WHERE DESIGNATED ELSEWHERE ON PLANS OR BY THE ENGINEER.



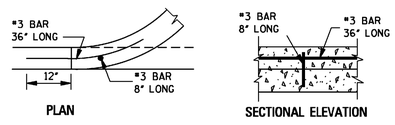
SECTION E–E



DETAIL OF VALLEY GUTTER



TYPE "3B"
DETAIL OF COMBINATION CURB & GUTTER



PERMISSIBLE DRIVEWAY CONSTRUCTION METHOD FOR SLIP–FORM PLACEMENT OF CURB & GUTTER

GENERAL NOTES:

1. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL, UNLESS OTHERWISE SPECIFIED HEREIN, APPLY TO ALL ITEMS INCLUDED ON THIS DRAWING.
2. TRAVERSE CONTRACTION JOINTS ARE REQUIRED AT 20' ON CENTER FOR ALL CONCRETE DRIVEWAYS THAT EXTEND PAST THE END OF THE CURB RETURN. A ½" WIDE EXPANSION JOINT IS REQUIRED AT THE END OF THE CURB RETURN AND AT 60' ON CENTER THROUGHOUT THE LENGTH OF THE DRIVEWAY. A LONGITUDINAL CONTRACTION JOINT IS REQUIRED FOR ALL DRIVEWAYS EXCEEDING 20' IN WIDTH.
3. SEE SHEET CCR-1 FOR DETAILS OF CURB-CUT RAMPS.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DRIVEWAYS, CURB & GUTTER & SIDEWALK

DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI

WORKING NUMBER SD-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6287

DRAWING No.: 11209

METRIC PLAN SHEET

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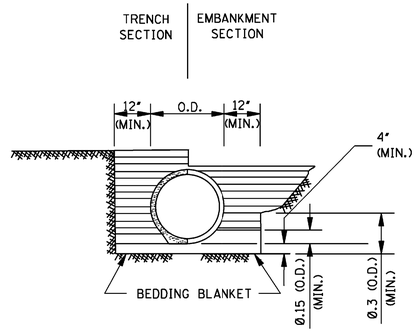
STATE	PROJECT NO.
MISS.	

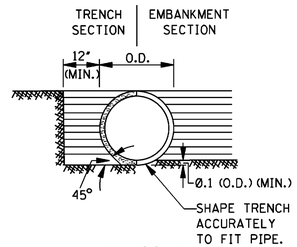
CORRUGATED STEEL AND ALUMINUM PIPE (ROUND) H-20 LOADING

PIPE DIAMETER (in)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE (in)	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) — SHEET THICKNESS (in)				
		0.064 STEEL 0.060 ALUM. 16 GAGE	0.079 STEEL 0.075 ALUM. 14 GAGE	0.109 STEEL 0.105 ALUM. 12 GAGE	0.138 STEEL 0.135 ALUM. 10 GAGE	0.168 STEEL 0.164 ALUM. 8 GAGE
		2⅔" X ½" CORRUGATED STEEL RIVETED, WELDED OR HELICAL /		3" X 1" OR 5" X 1" CORRUGATED STEEL RIVETED, WELDED, HELICAL OR BOLTED /		2⅔" X ½" CORRUGATED ALUMINUM RIVETED OR HELICAL
12"	12"	84' / - / 45'	91' / - / 45'	- / - / 78'	- / - / 81'	- / - / 84'
15"	12"	67' / - / -	73' / - / -	- / - / -	- / - / -	- / - / -
18"	12"	56' / - / 30'	61' / - / 30'	- / - / 52'	- / - / 54'	- / - / 56'
24"	12"	42' / - / 22'	46' / - / 22'	59' / - / 39'	- / - / 41'	- / - / 42'
30"	12"	34' / - / 18'	36' / - / 18'	47' / - / 31'	- / - / 32'	- / - / 34'
36"	12"	28' / 48' / 15'	30' / 60' / 15'	39' / 78' / 26'	41' / 89' / 27'	- / 101' / 28'
42"	12"	31' / 41' / -	43' / 51' / 26'	46' / 64' / 43'	48' / 71' / 43'	50' / 79' / 44'
48"	12"	27' / 36' / -	37' / 45' / -	45' / 57' / 40'	46' / 61' / 41'	47' / 66' / 43'
54"	12"	- / 32' / -	33' / 40' / -	43' / 52' / 35'	44' / 55' / 37'	45' / 59' / 38'
60"	12"	- / 29' / -	- / 36' / -	43' / 49' / -	43' / 51' / 33'	44' / 54' / 34'
66"	12"	- / 26' / -	- / 33' / -	42' / 47' / -	43' / 49' / 30'	43' / 51' / 31'
72"	12"	- / 24' / -	- / 30' / -	- / 44' / -	41' / 47' / -	43' / 49' / 29'
78"	12"	- / 22' / -	- / 28' / -	- / 41' / -	- / 46' / -	39' / 47' / -
84"	12"	- / 21' / -	- / 26' / -	- / 38' / -	- / 45' / -	35' / 46' / -
90"	12"	- / 19' / -	- / 24' / -	- / 35' / -	- / 43' / -	- / 45' / -
96"	12"	- / 18' / -	- / 22' / -	- / 33' / -	- / 40' / -	- / 44' / -
102"	24"	- / 17' / -	- / 21' / -	- / 31' / -	- / 38' / -	- / 42' / -
108"	24"	- / - / -	- / 20' / -	- / 30' / -	- / 35' / -	- / 39' / -
114"	24"	- / - / -	- / 19' / -	- / 28' / -	- / 34' / -	- / 37' / -
120"	24"	- / - / -	- / - / -	- / 27' / -	- / 32' / -	- / 35' / -

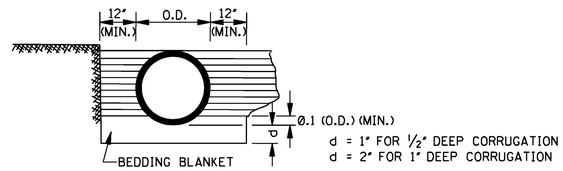
NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).



CLASS B



CLASS C



CLASS C MODIFIED

MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE

CLASS OF PIPE	TYPE OF BACKFILL	MAXIMUM COVER (ft) CLASS "C" BEDDING	MAXIMUM COVER (ft) CLASS "B" BEDDING
III	NORMAL	16'	-
IV	NORMAL	23'	28'
V	NORMAL	30'	36'
IV	IMPERFECT	-	90'
V	IMPERFECT	-	115'

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

MAXIMUM HEIGHT OF FILL OVER CLASS 2 NONREINFORCED CONCRETE PIPE, PERFORATED AND/OR PLAIN, FOR UNDERDRAINS

PIPE SIZE (in)	MAXIMUM COVER (ft) BEDDING CLASS "C"/CLASS "B" — TRENCH			PROJECTING
	B_d (in)	SAND & GRAVEL	DAMP CLAY	POSITIVE $p = 0.7$; $R_{sd} = 0.7$
4"	2.00'	*	*	34'/42'
6"	2.00'	*	*	25'/30'
8"	2.25'	*	16'/ *	19'/24'
10"	2.50'	*	12'/20'	16'/19'
12"	2.75'	*	12'/18'	14'/17'

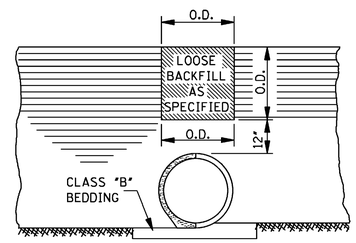
NOTES:
* 1. INDICATES NO LIMIT OF FILL HEIGHT (130 lbs/ft³).
2. TRENCH WIDTH (B_d) NO GREATER THAN 16" PLUS O.D.
3. FACTOR OF SAFETY IS 1.25 ON MINIMUM ULTIMATE STRENGTH.
4. MINIMUM COVER FOR HIGHWAY LOADS IS 18".
5. PERFORATED PIPE SHALL BE TYPE 1.

CORRUGATED METAL PIPE ARCHES H-20 LOADING

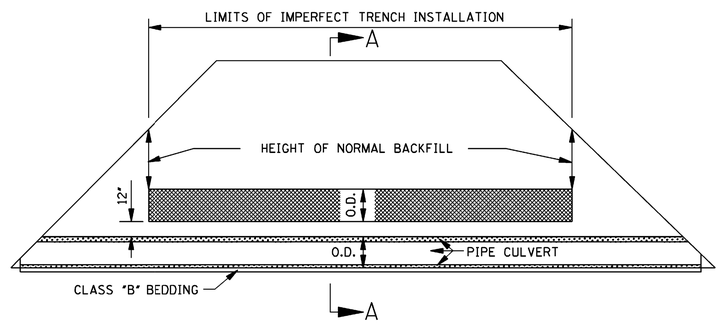
EQUIV. DIAMETER (in)	PIPE DIMENSION (SPAN X RISE) (in)	MINIMUM CORNER RADIUS (in)	MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE FOR 2 tons/ft² (in)	STEEL: MINIMUM THICKNESS REQUIRED (in)	STEEL: MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft²): 2 tons/ft²	STEEL: † 3 tons/ft²	ALUMINUM: MINIMUM THICKNESS REQUIRED (in)	ALUMINUM: MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE (ft) FOR THE FOLLOWING CORNER BEARING PRESSURE (tons/ft²): 2 tons/ft²	ALUMINUM: † 3 tons/ft²
				2⅔" X ½" CORRUGATION RIVETED, WELDED OR HELICAL			2⅔" X ½" CORRUGATION RIVETED OR HELICAL		
15"	17" X 13"	3"	18"	0.064"	13'	15'+	0.060"	15'	-
18"	21" X 15"	3"	18"	0.064"	12'	15'+	0.060"	14'	-
24"	28" X 20"	3"	18"	0.064"	10'	15'	0.060"	10'	15'+
30"	35" X 24"	3"	18"	0.079"	9'	14'	0.060"	9'	14'
36"	42" X 29"	3½"	18"	0.079"	9'	13'	0.075"	9'	13'
42"	49" X 33"	4"	18"	0.079"	8'	12'	0.105"	8'	12'
48"	57" X 38"	5"	18"	0.109"	8'	12'	0.135"	8'	12'
54"	64" X 43"	6"	18"	0.109"	8'	12'	0.135"	8'	12'
60"	71" X 47"	7"	18"	0.138"	8'	12'	0.164"	8'	12'
66"	77" X 52"	8"	18"	0.168"	8'	12'			
72"	83" X 57"	9"	18"	0.168"	9'	13'			
			5" X 1" OR 3" X 1" CORRUGATION RIVETED, WELDED OR HELICAL						
36"	40" X 31"	5"	18"	0.079"	12'	15'+			
42"	46" X 36"	6"	18"	0.079"	12'	15'+			
48"	53" X 41"	7"	18"	0.079"	12'	15'+			
54"	60" X 46"	8"	18"	0.079"	12'	15'+			
60"	66" X 51"	9"	18"	0.079"	12'	15'+			
66"	73" X 55"	12"	18"	0.079"	15'+	-			
72"	81" X 59"	14"	18"	0.079"	15'	-			
78"	87" X 63"	14"	18"	0.079"	14'	15'+			
84"	95" X 67"	16"	18"	0.109"	13'	15'+			
90"	103" X 71"	16"	24"	0.109"	12'	15'+			
96"	112" X 75"	18"	24"	0.109"	11'	15'+			

NOTES:
1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR ½", WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

† 2. BEARING PRESSURES EXCEEDING 2 tons/ft² REQUIRED FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.



SECTION A–A



ELEVATION

IMPERFECT TRENCH INSTALLATION

GENERAL NOTES:

1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.

2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.

3. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTORS EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PIPE CULVERT INSTALLATION

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER PI-1

SHEET NUMBER 6300

DRAWING No.: 1273–S008

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STATE	PROJECT NO.
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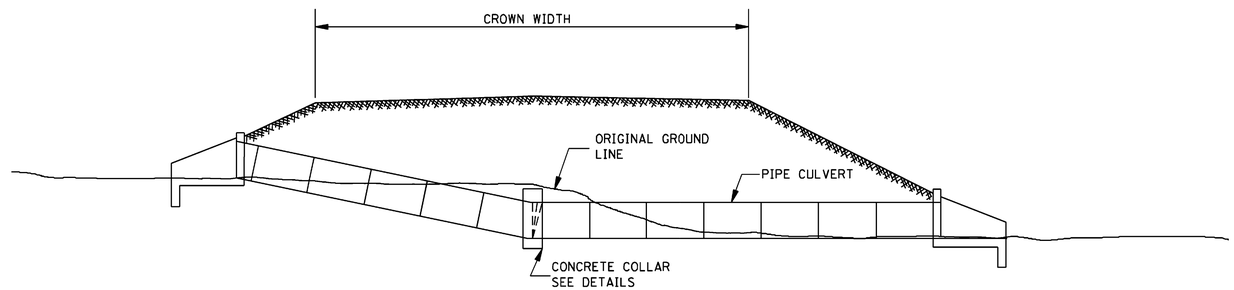
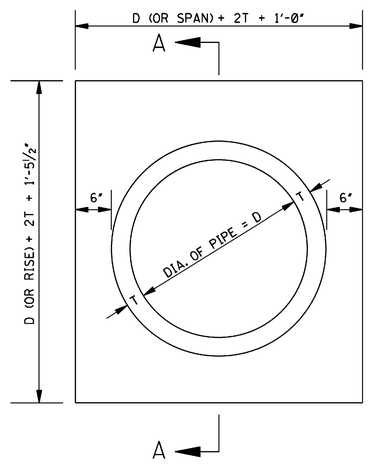
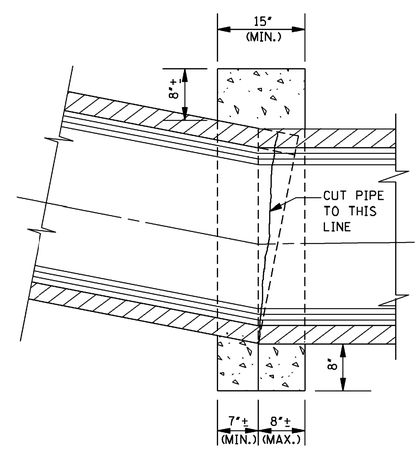


TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR

NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A–A

GENERAL NOTE:

1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS

CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd^3)	SIZE OF PIPE	CLASS "B" CONCRETE (yd^3)
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

CONCRETE PIPE COLLAR

DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI

WORKING NUMBER PC-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6301

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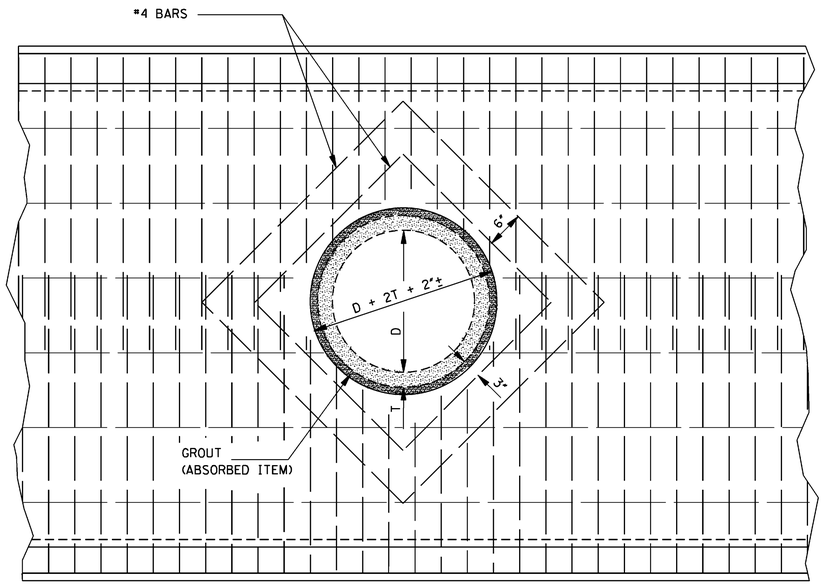
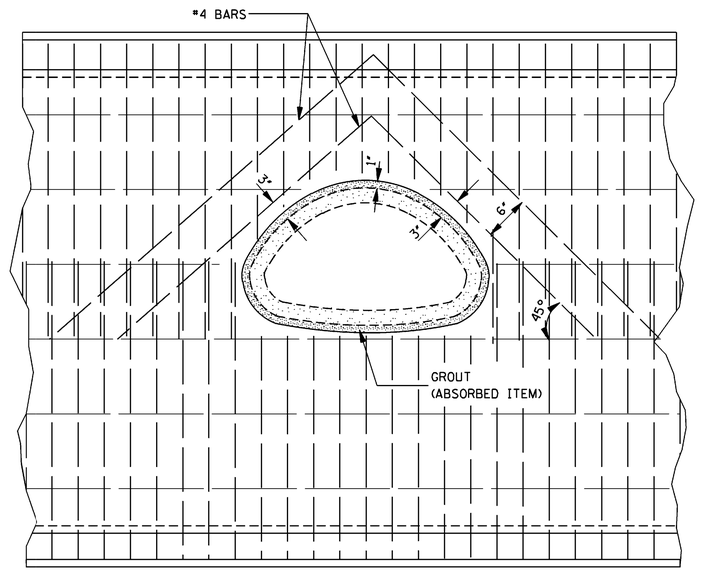


ELEVATION SHOWING CIRCULAR PIPE STUBBED INTO BOX CULVERT BARREL OR WING–WALL



ELEVATION SHOWING ARCH PIPE STUBBED INTO BOX CULVERT BARREL OR WING–WALL

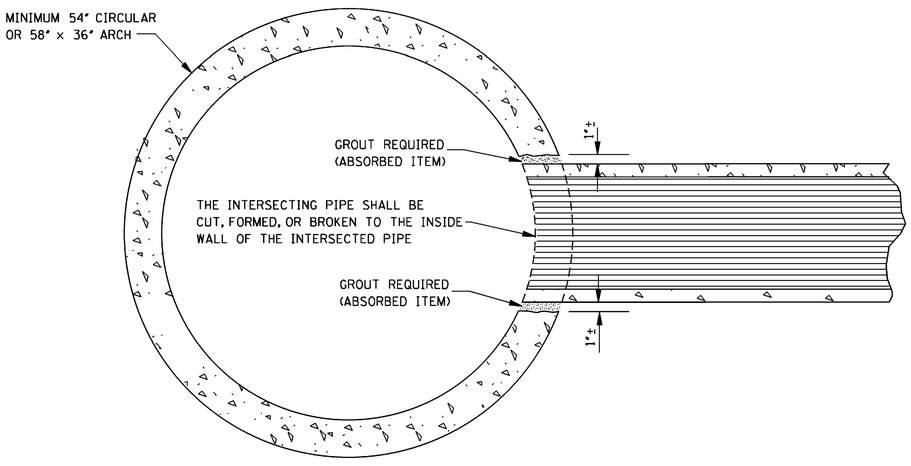
BAR LIST		
PIPE SIZE	#4 BARS	
	NO.	LGTH.
18"	4	2'-6"
	4	3'-6"
24"	4	3'-1"
	4	4'-1"
30"	4	3'-8½"
	4	4'-8½"
22" X 13"	2	3'-10"
	2	4'-9"
	1	5'-4"
29" X 18"	2	4'-6"
	2	5'-5"
	1	6'-3"

NOTE:

1. A 24" DIAMETER PIPE IS THE MAXIMUM SIZE THAT MAY BE STUBBED INTO A 54" DIAMETER PIPE.
2. A 60" DIAMETER PIPE IS THE MINIMUM SIZE THAT A 30" DIAMETER PIPE MAY BE STUBBED INTO.

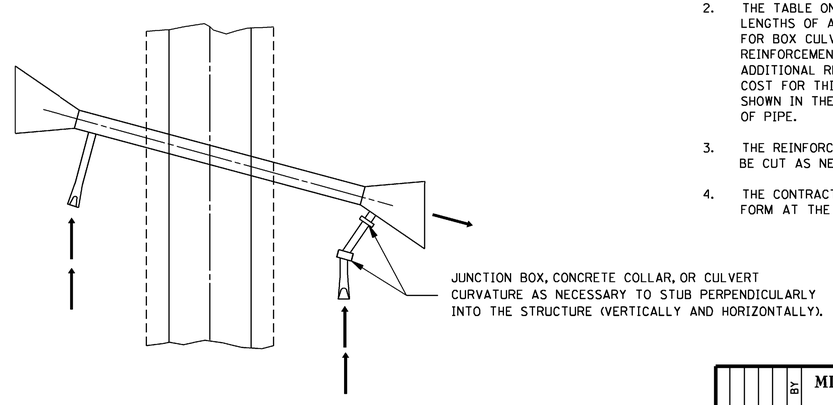
GENERAL NOTES:

1. PAYMENT FOR WORK AND MATERIALS FOR STUBBING A PIPE CULVERT INTO A BOX CULVERT OR CONCRETE PIPE SHALL BE PAID FOR AS A BRANCH CONNECTION OF THE APPROPRIATE SIZE, TYPE AND DESCRIPTION.
2. THE TABLE ON THIS SHEET INDICATES THE NUMBER AND LENGTHS OF ADDITIONAL REINFORCING STEEL BARS REQUIRED FOR BOX CULVERTS CONSTRUCTED. FOR A DOUBLE ROW OF REINFORCEMENT, DOUBLE THE NUMBER OF BARS SHOWN. THE ADDITIONAL REINFORCING STEEL SHALL BE INCLUDED IN THE COST FOR THIS TYPE OF BRANCH CONNECTION. THE QUANTITIES SHOWN IN THE TABLE ARE FOR THE MOST COMMON SIZES OF PIPE.
3. THE REINFORCEMENT OF THE INTERSECTED BOX OR PIPE SHALL BE CUT AS NECESSARY TO ACCOMMODATE THE STUBBED PIPE.
4. THE CONTRACTOR MAY INSERT THE INTERSECTING PIPE INTO THE FORM AT THE PROPER LOCATION IN LIEU OF FORMING BY BLOCKING OUT.



ELEVATION SHOWING PIPE CULVERT STUBBED INTO CONCRETE PIPE CULVERT

NOTE: TYPICAL INSTALLATION FOR MEDIAN STUB TO CROSSING DRAIN WITH MINIMUM COVER.



TYPICAL PLAN OF BRANCH CONNECTION TO BOX CULVERT WING–WALL

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

BRANCH CONNECTIONS

DEPARTMENT OF TRANSPORTATION MISSISSIPPI ENGLISH

WORKING NUMBER BC-1

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6305

DRAWING No.: 1273–S008

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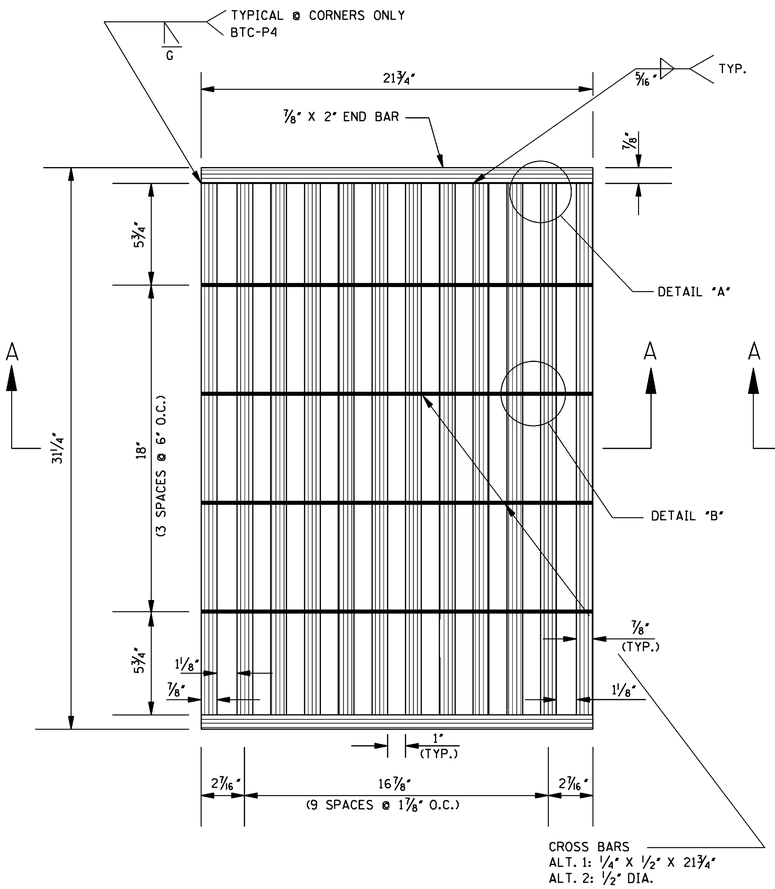
STATE	PROJECT NO.
MISS.	

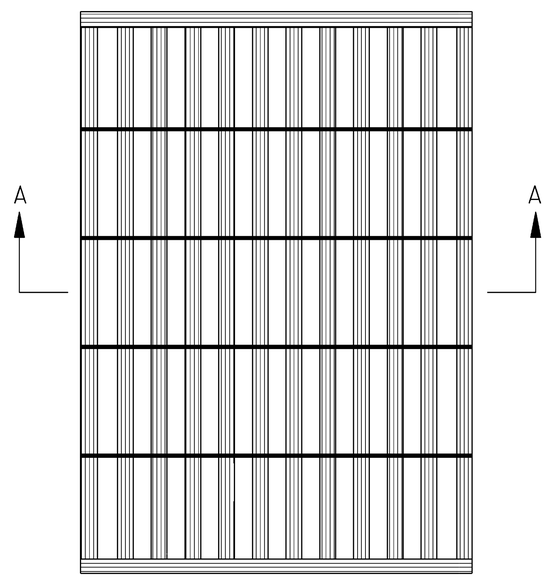
GRATE NO. 1 – ALTERNATE #1



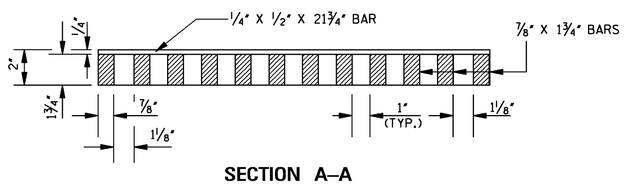
PLAN

GRATE NO. 1 – ALTERNATE #2

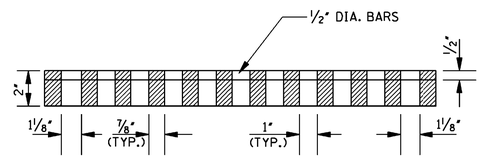
NOTE: PLAN DIMENSIONS FOR ALTERNATE #2 ARE IDENTICAL TO THAT OF ALTERNATE #1 AS SHOWN ON THE FIGURE AT LEFT.



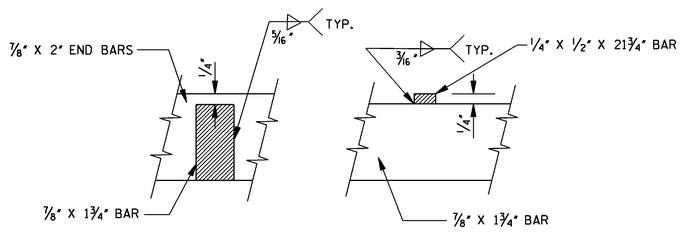
PLAN



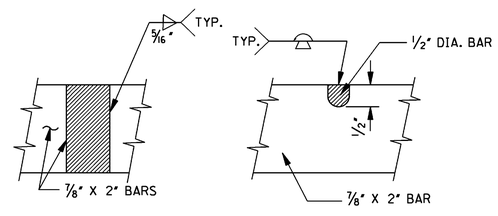
SECTION A–A



SECTION A–A

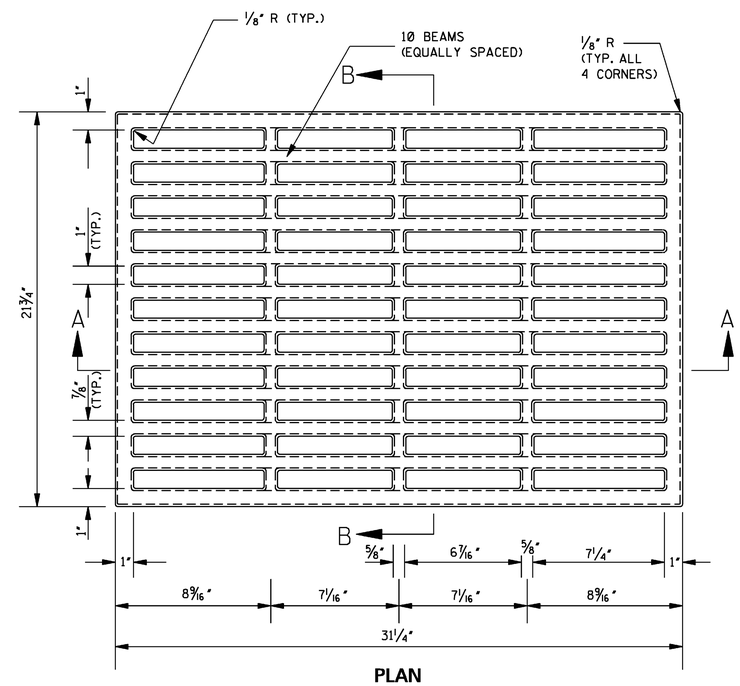


DETAIL A DETAIL B

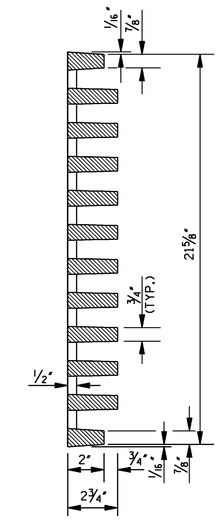


DETAIL A DETAIL B

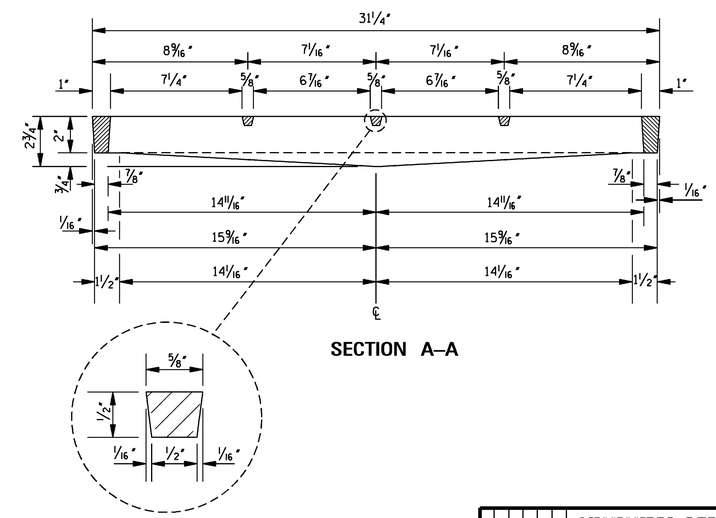
GRATE NO. 2



PLAN



SECTION B–B



SECTION A–A

GENERAL NOTES:

1. BASIS OF PAYMENT WILL BE 200 lbs OF GRATING FOR EITHER GRATE.
2. GRATE NO. 1
   THE GRATE MAY BE WELDED STEEL (ASTM A 588) OR STEEL CASTING (AASHTO M 192, CLASS 90).
3. GRATE NO. 2
   THE GRATE SHALL BE DUCTILE IRON (ASTM A 536, GRADE 80-55-06).

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF GRATES FOR GUTTER INLETS

ENGLISH

WORKING NUMBER IG-2

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6315

DRAWING No.: 11209

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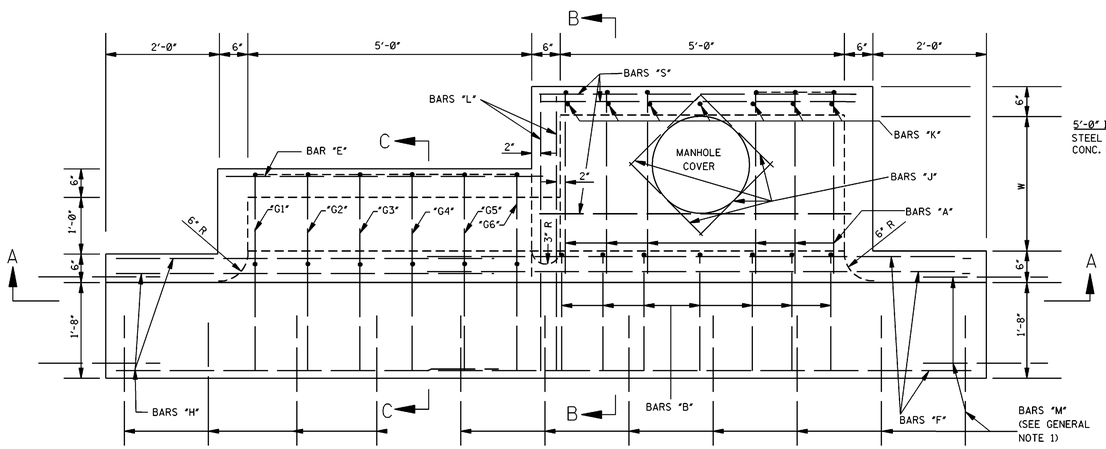
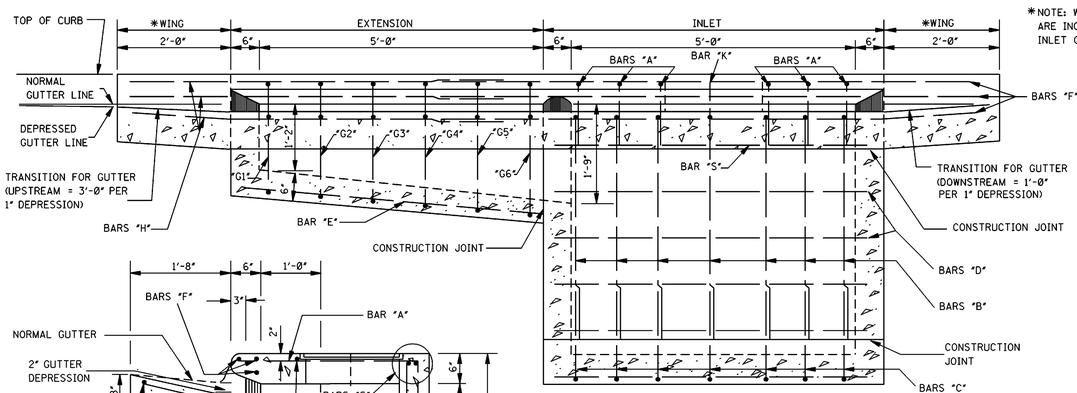
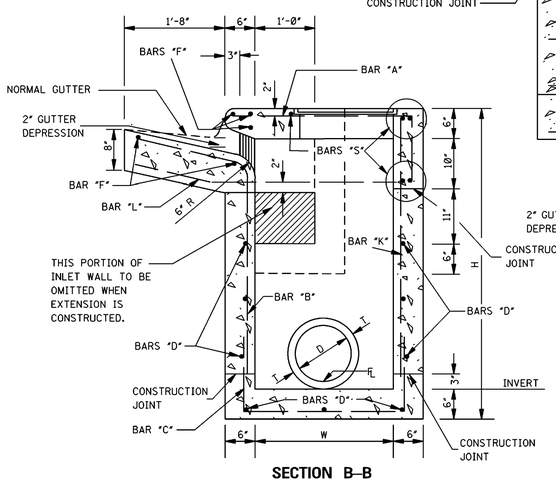


PLAN

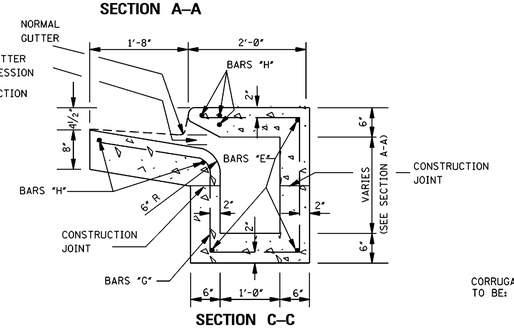


*NOTE: WING QUANTITIES ARE INCLUDED IN INLET QUANTITIES.

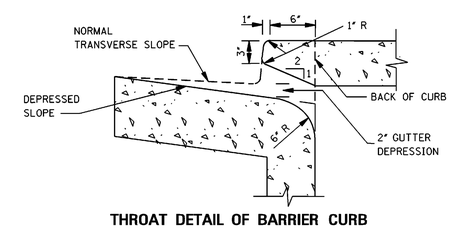
SECTION A–A



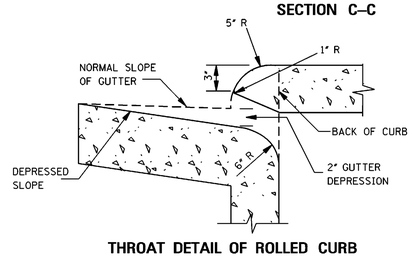
SECTION B–B



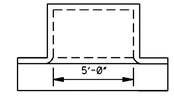
SECTION C–C



THROAT DETAIL OF BARRIER CURB

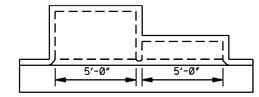


THROAT DETAIL OF ROLLED CURB



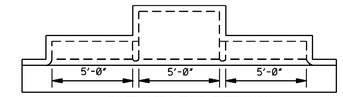
REGULAR INLET

5'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 121
CONC. = (WY + 5.5W + 6Y + 14.611)/27



INLET WITH ONE EXTENSION

10'-0" INLET
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 231
CONC. = (WY + 5.5W + 6Y + 38.641)/27



INLET WITH TWO EXTENSIONS

15'-0" INLET
STEEL = 8.68W + 9.35Y +3.79W' + 7.57H' +341
CONC = (WY + 5.5W + 6Y + 62.671)/27

PLAN OF INLET AND EXTENSIONS

NOTES:
1. W AND H ARE EXPRESSED IN DECIMAL FEET.
2. W' = W ROUNDED TO NEAREST WHOLE FOOT.
3. Y = (H-0.5).
4. H'= (H - 2.08) ROUNDED TO NEAREST WHOLE FOOT.
5. NO DEDUCTIONS ARE MADE FOR PIPE OPENINGS IN FORMULAS.

ADD. CONCRETE PER FOOT OF H		ADD. CONCRETE PER FOOT OF W	
W	yd³/ft	H	yd³/ft
2'-6"	0.315	3'-6"	0.315
3'-0"	0.333	4'-0"	0.333
3'-6"	0.352	4'-6"	0.352
4'-0"	0.371	5'-0"	0.370
4'-6"	0.389	5'-6"	0.389
5'-0"	0.408	6'-0"	0.408
5'-6"	0.426	6'-6"	0.426
6'-0"	0.445	7'-0"	0.445
6'-6"	0.463	7'-6"	0.463
7'-0"	0.481	8'-0"	0.482
		8'-6"	0.500

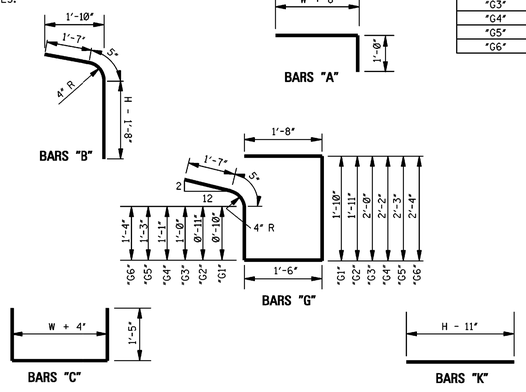
QUANTITIES FOR ONE EXTENSION

BAR	SIZE	LENGTH	SPACING	NUMBER	†WEIGHT
"E"	#4	5'-8"	AS SHOWN	3	11
"G"	#4	SEE SCHEDULE	0'-11"	6	34
"H"	#6	6'-9"	AS SHOWN	5	51
"L"	#6	4'-9"	AS SHOWN	2	14
TOTAL STEEL FOR ONE EXTENSION = 110 lbs					
TOTAL CONCRETE FOR ONE EXTENSION = 0.89 yd³					

†NOTE: WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 lbs OF STEEL FOR BARS "M".

BAR "G" SCHEDULE

BAR "G"	LENGTH
"G1"	7'-10"
"G2"	8'-0"
"G3"	8'-2"
"G4"	8'-5"
"G5"	8'-8"
"G6"	8'-10"



BAR DETAILS

W=2'-6"	BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																		
H	BAR "A" L = 4'-2" #4 @ 9"		BAR "C" L = 5'-8" #4 @ 9"		BAR "S" L = 5'-8" #4 @ 12"		BAR "D" L = 5'-8" #4 @ 12"±		BAR "F" L=9'-8" #6		BAR "J" L=2'-3" #4		BAR "B" #4 @ 9"		BAR "K" #4 @ 9"±		*TOTAL STEEL	TOTAL CONC.
	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	LGTH.	NO.	lbs	LGTH.	NO.	lbs	lbs	yd³
3'-6"	6	17	7	27	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	190	1.99
4'-0"	6	17	7	27	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	202	2.15
4'-6"	6	17	7	27	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	207	2.31
5'-0"	6	17	7	27	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	219	2.47
5'-6"	6	17	7	27	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	224	2.62
6'-0"	6	17	7	27	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	238	2.78
6'-6"	6	17	7	27	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	240	2.94
7'-0"	6	17	7	27	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	253	3.10
7'-6"	6	17	7	27	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	257	3.25

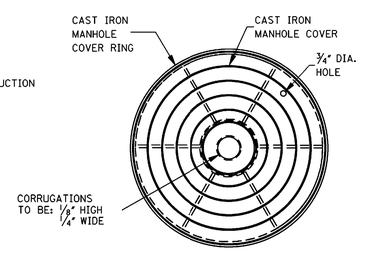
W=3'-0"	BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																		
H	BAR "A" L = 4'-8" #4 @ 9"		BAR "C" L = 6'-2" #4 @ 9"		BAR "S" L = 5'-8" #4 @ 12"		BAR "D" L = 5'-8" #4 @ 12"±		BAR "F" L=9'-8" #6		BAR "J" L=2'-3" #4		BAR "B" #4 @ 9"		BAR "K" #4 @ 9"±		*TOTAL STEEL	TOTAL CONC.
	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	LGTH.	NO.	lbs	LGTH.	NO.	lbs	lbs	yd³
3'-6"	6	19	7	29	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	194	2.15
4'-0"	6	19	7	29	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	206	2.32
4'-6"	6	19	7	29	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	211	2.49
5'-0"	6	19	7	29	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	223	2.65
5'-6"	6	19	7	29	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	228	2.82
6'-0"	6	19	7	29	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	240	2.99
6'-6"	6	19	7	29	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	245	3.15
7'-0"	6	19	7	29	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	257	3.32
7'-6"	6	19	7	29	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	262	3.49

W=3'-6"	BILL OF REINFORCING STEEL FOR 1-5'-0" INLET																		
H	BAR "A" L = 5'-2" #4 @ 9"		BAR "C" L = 6'-8" #4 @ 9"		BAR "S" L = 5'-8" #4 @ 12"		BAR "D" L = 5'-8" #4 @ 12"±		BAR "F" L=9'-8" #6		BAR "J" L=2'-3" #4		BAR "B" #4 @ 9"		BAR "K" #4 @ 9"±		*TOTAL STEEL	TOTAL CONC.
	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	NO.	lbs	LGTH.	NO.	lbs	LGTH.	NO.	lbs	lbs	yd³
3'-6"	6	21	7	31	5	19	6	23	5	73	4	6	3'-10"	7	18	2'-7"	7	12	202	2.31
4'-0"	6	21	7	31	5	19	8	30	5	73	4	6	4'-4"	7	20	3'-1"	7	14	214	2.49
4'-6"	6	21	7	31	5	19	8	30	5	73	4	6	4'-10"	7	23	3'-7"	7	17	219	2.66
5'-0"	6	21	7	31	5	19	10	38	5	73	4	6	5'-4"	7	25	4'-1"	7	19	231	2.84
5'-6"	6	21	7	31	5	19	10	38	5	73	4	6	5'-10"	7	27	4'-7"	7	21	236	3.01
6'-0"	6	21	7	31	5	19	12	45	5	73	4	6	6'-4"	7	30	5'-1"	7	24	248	3.19
6'-6"	6	21	7	31	5	19	12	45	5	73	4	6	6'-10"	7	32	5'-7"	7	26	253	3.37
7'-0"	6	21	7	31	5	19	14	53	5	73	4	6	7'-4"	7	34	6'-1"	7	28	265	3.54
7'-6"	6	21	7	31	5	19	14	53	5	73	4	6	7'-10"	7	37	6'-7"	7	31	270	3.72

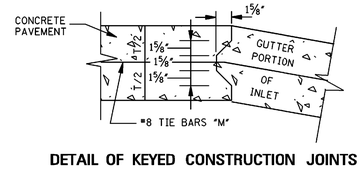
* NOTE: WHERE INLET IS USED WITH CONCRETE PAVEMENT, ADD 73 lbs OF STEEL FOR BARS "M".

GENERAL NOTES:

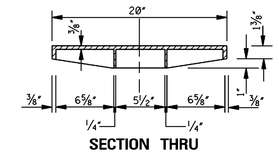
1. WHERE INLET OR INLET WITH EXTENSION(S) IS USED WITH CONCRETE PAVEMENT WITH INTERGRAL CURB, THE PAVEMENT IS TO BE BLOCKED OUT TO THE DIMENSIONS AS SHOWN FOR THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S). THE PORTION BLOCKED OUT SHALL BE PLACED INTEGRAL WITH THE TOP OF THE INLET OR INLET WITH EXTENSION(S). #8 DEFORMED BARS 30' LONG SHALL BE PLACED ON 18" CENTERS AT THE CENTER OF THE PAVEMENT. THESE BARS SHALL EXTEND INTO THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S) 15". THE CONSTRUCTION JOINT BETWEEN THE CONCRETE PAVEMENT AND THE INLET OR INLET WITH EXTENSION(S) SHALL BE A KEYED JOINT AS SHOWN. A SMOOTH CONSTRUCTION JOINT WILL NOT BE PERMITTED. QUANTITIES FOR BLOCKED OUT AREA OF PAVEMENT SHALL BE INCLUDED IN QUANTITIES FOR INLET OR INLET WITH EXTENSION(S).
2. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL APPLY TO ALL ITEMS ON THIS SHEET.
3. THE QUANTITIES SHOWN, MINUS VOLUMETRIC DISPLACEMENT OF CONCRETE BY PIPE CULVERTS THROUGH INLET WALLS, WILL BE USED AS THE BASIS OF FINAL PAYMENT UNLESS THIS PLAN IS MODIFIED.
4. FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLE ARE INCREMENTS OF 6". BUT ANY DEPTHS OTHER THAN THESE SHOWN MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS, FALLING WITHIN THE LIMITS OF THE TABLE, MAY BE FOUND BY INTERPOLATION.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER. NO DEDUCTIONS ARE TO BE MADE IN STEEL QUANTITIES.



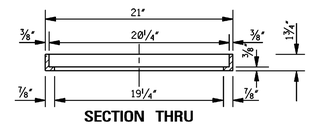
PLAN



DETAIL OF KEYED CONSTRUCTION JOINTS
NOTE: FIELD BEND BARS "L" TO CENTER OF GUTTER SECTION



SECTION THRU MANHOLE COVER



SECTION THRU MANHOLE COVER RING
NOTE: WEIGHT OF RING & COVER = 79 lbs

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

STORM SEWER STRUCTURE TYPE SS–2

WORKING NUMBER SS-2

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 6322

DRAWING No.: 11209

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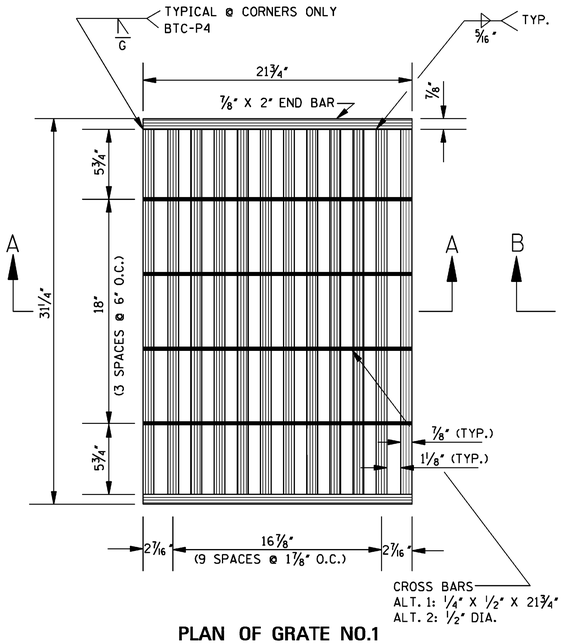
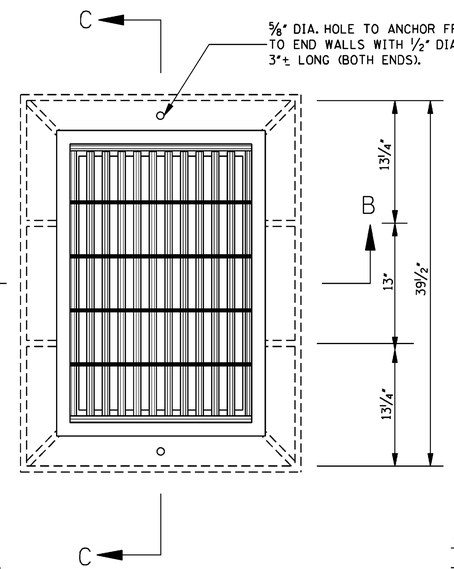
STATE	PROJECT NO.
MISS.	

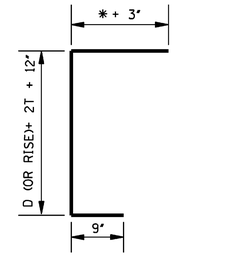


PLAN OF GRATE NO.1

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.

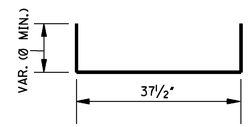


PLAN OF INLET



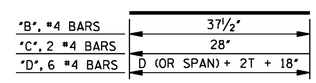
8 #4 BARS,
0.5[D(OR SPAN)+2D(OR RISE)+6T+38"] LONG

BARS "A"



4 #4 BARS, VAR. LENGTH

BARS "U"



BARS "B", "C" & "D"

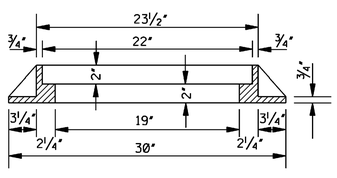
BAR DETAILS

*NOTE:

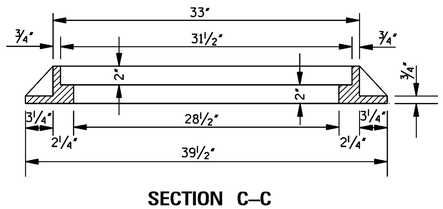
$$* \left[\frac{D\ (\text{OR SPAN}) + 2T - 10''}{2} \right]$$

QUANTITIES										
PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (yd^3)	T	BARS/SIZES				
		CONC. (yd^3)	STEEL (lbs)			"A" #4	"B" #4	"C" #4	"D" #4	"U" #4
						NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.
18"	2.792'	0.869	76	0.053	2½"	8 @ 4'-5½"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 3'-5"	4 @ 3'-9½"
24"	3.334'	1.117	87	0.091	3"	8 @ 5'-4"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-0"	4 @ 3'-9½"
30"	3.875'	1.385	94	0.138	3½"	8 @ 6'-2½"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-7"	4 @ 3'-9½"
36"	4.417'	1.671	105	0.196	4"	8 @ 7'-1"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-2"	4 @ 3'-9½"
42"	4.959'	1.978	116	0.263	4½"	8 @ 7'-11½"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-9"	4 @ 3'-9½"
48"	5.500'	2.305	123	0.340	5"	8 @ 8'-10"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-4"	4 @ 3'-9½"
54"	6.042'	2.650	135	0.427	5½"	8 @ 9'-8½"	20 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-11"	4 @ 3'-9½"
60"	6.583'	3.016	146	0.524	6"	8 @ 10'-7"	22 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-6"	4 @ 3'-9½"
66"	7.125'	3.402	153	0.630	6½"	8 @ 11'-5½"	22 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-1"	4 @ 3'-9½"
72"	7.667'	3.806	164	0.747	7"	8 @ 12'-4"	24 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-8"	4 @ 3'-9½"
22" X 13"	2.417'	0.855	76	0.053	2½"	8 @ 4'-3"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 3'-9"	4 @ 3'-9½"
29" X 18"	2.833'	1.085	83	0.087	3"	8 @ 5'-0¼"	12 @ 3'- 1½"	2 @ 2'-4"	6 @ 4'-4½"	4 @ 3'-9½"
36" X 23"	3.250'	1.358	94	0.129	3½"	8 @ 5'-10"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-1"	4 @ 3'-9½"
44" X 27"	3.635'	1.631	101	0.185	4"	8 @ 6'-7½"	14 @ 3'- 1½"	2 @ 2'-4"	6 @ 5'-10"	4 @ 3'-9½"
51" X 31"	4.068'	1.942	113	0.245	4½"	8 @ 7'-5½"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 6'-6"	4 @ 3'-9½"
58" X 36"	4.500'	2.269	120	0.318	5"	8 @ 8'-3"	16 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-2½"	4 @ 3'-9½"
65" X 40"	4.875'	2.575	130	0.394	5½"	8 @ 9'-0"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 7'-10"	4 @ 3'-9½"
73" X 45"	5.333'	2.966	139	0.489	6"	8 @ 9'-10½"	18 @ 3'- 1½"	2 @ 2'-4"	6 @ 8'-7"	4 @ 3'-9½"
88" X 54"	6.167'	3.765	156	0.688	7"	8 @ 11'-6"	20 @ 3'- 1½"	2 @ 2'-4"	6 @ 10'-0"	4 @ 3'-9½"

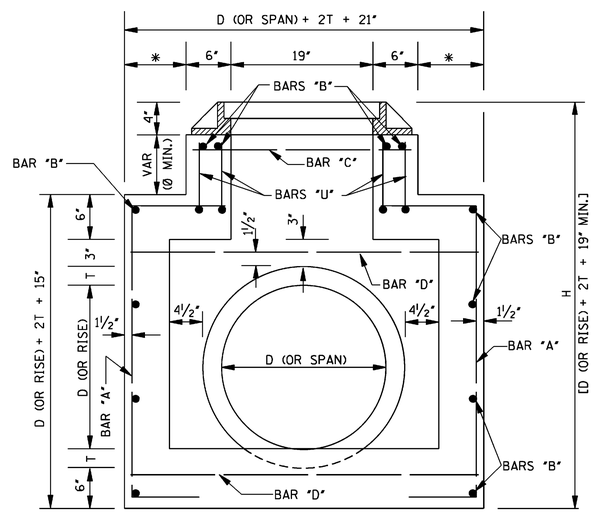
NOTES:
1. ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.
2. FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.184 yd^3 CLASS "B" CONCRETE AND 17 lbs REINFORCING STEEL.
3. 4 BARS "B" AND 2 BARS "C" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT.
4. WEIGHT OF FRAME CASTING = 244 lbs.
WEIGHT OF GRATE = SEE SHEET IG-2.



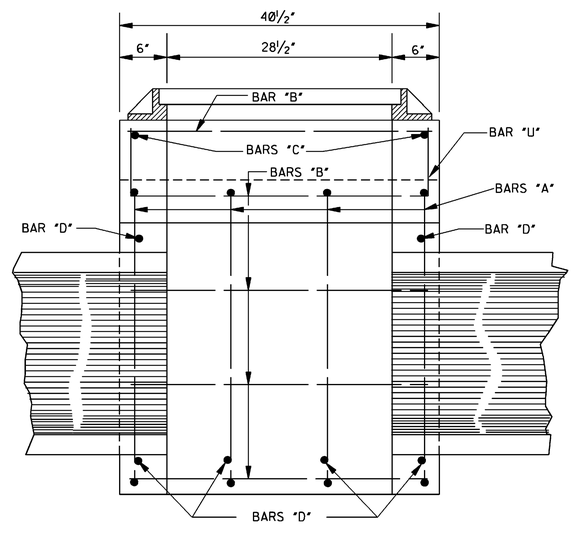
SECTION B–B
(FRAME)



SECTION C–C
(FRAME)



SECTION B–B



SECTION C–C

GENERAL NOTES:

1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
3. THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
4. FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

STORM SEWER INLET
TYPE SS–3

ENGLISH

WORKING NUMBER
SS-3

SHEET NUMBER
6323

ISSUE DATE: OCTOBER 1, 1998

DRAWING No.: 11209

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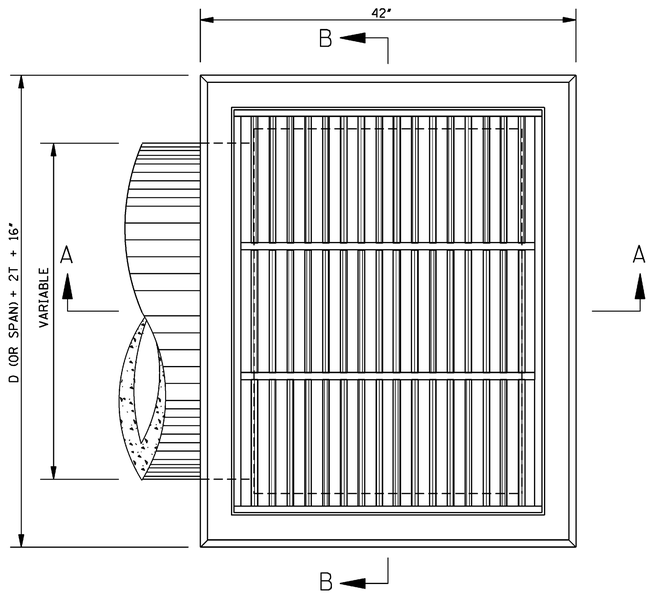
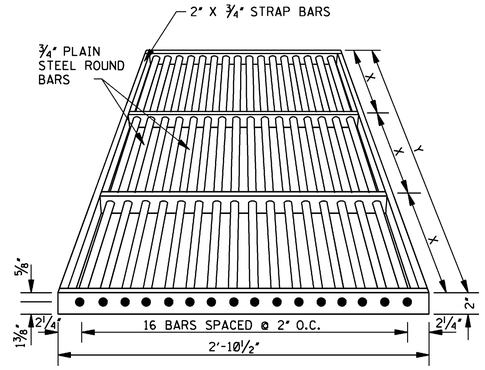
STATE	PROJECT NO.
MISS.	

"A", #4 BARS	AS PER TABLE
"B", #4 BARS	D (OR SPAN) +2T+9"
"C", #4 BARS	34"
"D", #4 BARS	D (OR RISE) +T+4"

BARS "A", "B", "C" & "D"

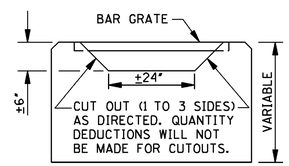


PLAN



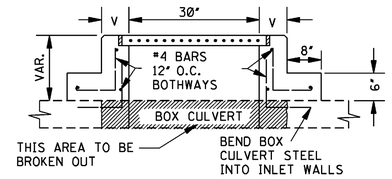
BAR GRATE DETAILS

NOTE: JUNCTIONS OF ROUND AND STRAP BARS SHALL BE WELDED. GRATE SHALL BE SHOP COATED WITH APPROVED COAL TAR PITCH VARNISH.

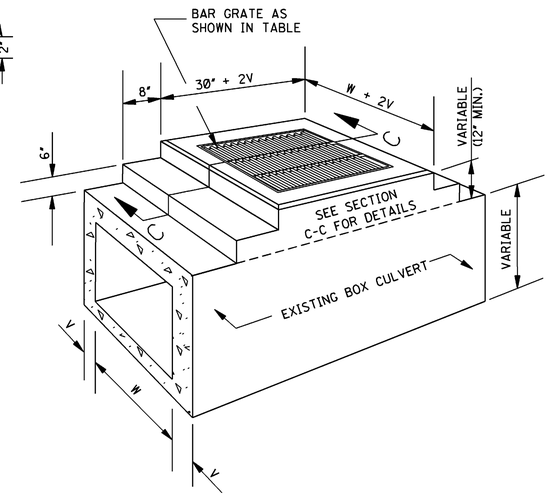


ELEVATION

MODIFIED PIPE OR BOX CULVERT INLET

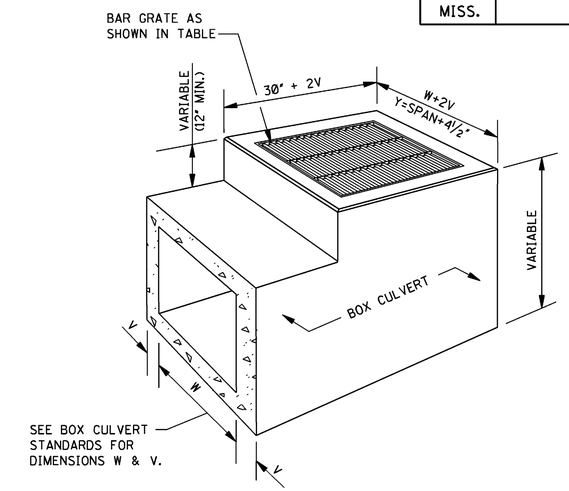


SECTION C–C



SECTIONAL PERSPECTIVE

INLET ON EXISTING BOX CULVERT



SECTIONAL PERSPECTIVE

INLET USED IN LIEU OF HEADWALLS

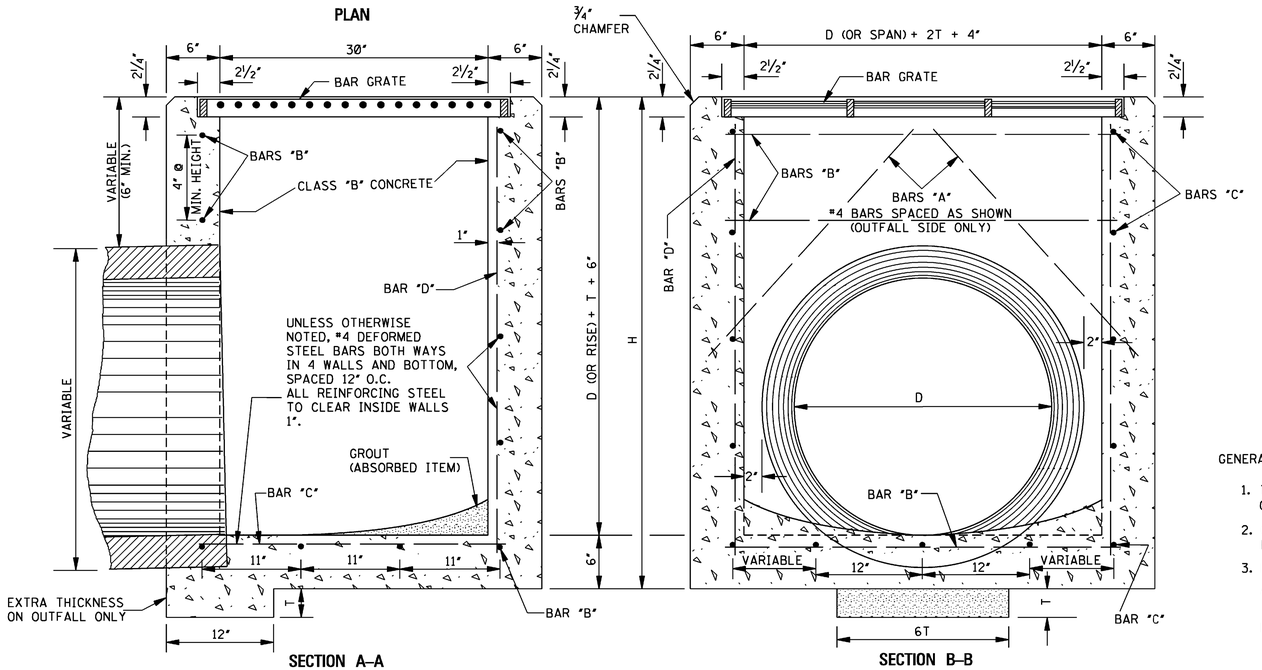
LENGTH AND WEIGHT OF GRATING

PIPE INLETS					BOX CULVERT INLETS				
PIPE SIZE	Y	X	NO. X-SPANS	WEIGHT (lbs)	BOX CULVERT SIZE	Y	X	NO. X-SPANS	WEIGHT (lbs)
18"	2'-7 1/2"	1'-3 3/4"	2	127	2' X 2'	2'-4 1/2"	1'-2 1/4"	2	119
22" X 13"	2'-11 1/2"	1'-5 3/4"	2	139	3' X 2'	3'-4 1/2"	1'-1 1/2"	3	166
24"	3'-2 1/2"	1'-7 1/4"	2	147	4' X 2'	4'-4 1/2"	1'-5 1/2"	3	200
29" X 18"	3'-7"	1'-2 11/32"	3	173	5' X 2'	5'-4 1/2"	1'-4 1/8"	4	247
30"	3'-9 1/2"	1'-3 5/32"	3	180	6' X 2'	6'-4 1/2"	1'-3 9/64"	5	293
36"	4'-4 1/2"	1'-5 1/2"	3	200	7' X 2'	7'-4 1/2"	1'-5 11/16"	5	328
42"	4'-11 1/2"	1'-2 7/8"	4	232	8' X 2'	8'-4 3/4"	1'-4 3/4"	6	374
48"	5'-6 1/2"	1'-4 5/8"	4	252	3' X 3'	3'-4 1/2"	1'-1 1/2"	3	166
54"	6'-1 1/2"	1'-6 3/8"	4	272	4' X 3'	4'-4 1/2"	1'-5 1/2"	3	200
60"	6'-8 1/2"	1'-4 3/32"	5	305	5' X 3'	5'-4 1/2"	1'-4 1/8"	4	247
					6' X 3'	6'-4 1/2"	1'-3 9/64"	5	293

QUANTITIES

PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		EACH ADDED FOOT		PIPE OPENING DEDUCTION (yd^3)	T	BARS/SIZES			
		CONC* (yd^3)	STEEL (lbs)	CONC (yd^3)	STEEL (lbs)			"A" #4	"B" #4	"C" #4	"D" #4
								NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.
18"	2.209'	0.623	42	0.213	13	0.053	2 1/2"	2 @ 21"	8 @ 32"	7 @ 34"	9 @ 24 1/2"
22" X 13"	1.833'	0.586	42	0.225	14	0.053	2 1/2"	2 @ 25"	8 @ 36"	7 @ 34"	9 @ 20"
24"	2.750'	0.800	55	0.235	14	0.091	3"	2 @ 25"	9 @ 39"	9 @ 34"	9 @ 31"
29" X 18"	2.250'	0.742	57	0.248	16	0.087	3"	2 @ 30"	9 @ 43 1/2"	9 @ 34"	11 @ 25"
30"	3.292'	0.992	70	0.256	16	0.138	3 1/2"	2 @ 30"	9 @ 46"	11 @ 34"	11 @ 37 1/2"
36"	3.834'	1.198	85	0.278	17	0.196	4"	2 @ 33"	10 @ 53"	13 @ 34"	11 @ 44"
42"	4.375'	1.418	93	0.299	18	0.263	4 1/2"	2 @ 36"	10 @ 60"	13 @ 34"	11 @ 50 1/2"
48"	4.917'	1.653	109	0.321	19	0.340	5"	2 @ 39"	11 @ 67"	15 @ 34"	11 @ 57"
54"	5.458'	1.902	136	0.343	21	0.427	5 1/2"	2 @ 42"	12 @ 74"	19 @ 34"	13 @ 63 1/2"
60"	6.000'	2.165	146	0.364	21	0.524	6"	2 @ 47"	12 @ 81"	19 @ 34"	13 @ 70"

*NOTE: ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.



SECTION A–A

SECTION B–B

PIPE CULVERT INLET

GENERAL NOTES:

1. THE MDOT STANDARD SPECIFICATIONS SHALL APPLY TO ITEMS UNLESS OTHERWISE SPECIFIED.
2. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. BOX CULVERTS:
   A. UNLESS OTHERWISE SHOWN, THE DETAILS OF THE BOX CULVERT INLETS SHALL CONFORM TO THOSE SHOWN FOR THE PIPE INLETS.
   B. BOX CULVERT REINFORCEMENT SHALL BE CONTINUED AND RESHAPED TO ACCOMMODATE THE INLET BOX. ADDITIONAL BARS SHALL BE THE SAME DIAMETER AS THOSE IN THE BOX CULVERT AND THE CONCRETE SHALL BE THE SAME. QUANTITIES ARE TO BE COMPUTED IN CONJUNCTION WITH QUANTITIES FOR BOX CULVERT.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DROP INLET AND GRATE DETAILS FOR PIPE AND BOX CULVERTS

DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI

WORKING NUMBER B-9

SHEET NUMBER 6325

ISSUE DATE: OCTOBER 1, 1998

DRAWING No.: 11209

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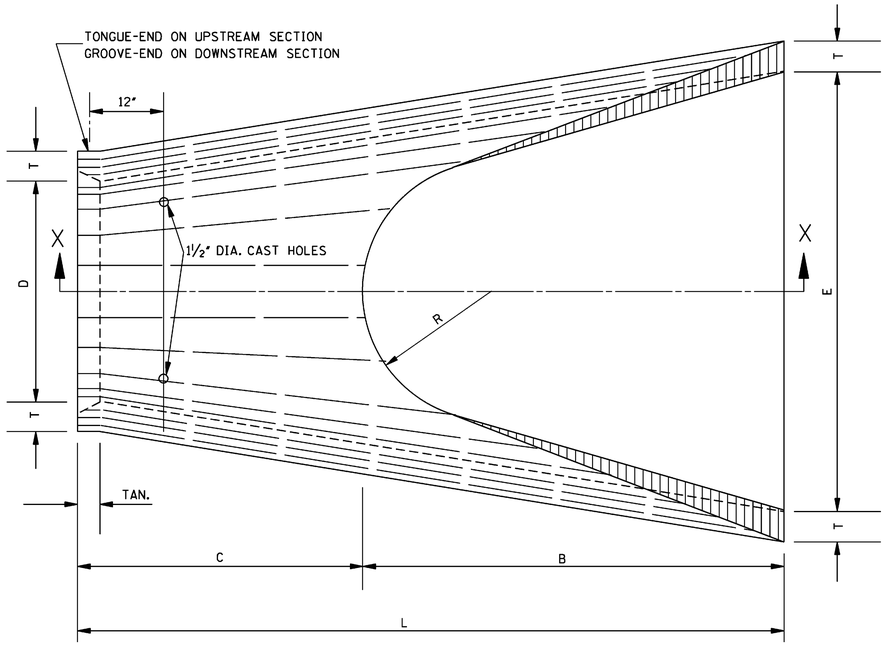
STATE	PROJECT NO.
MISS.	

BELL AND SPIGOT END OPTION

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

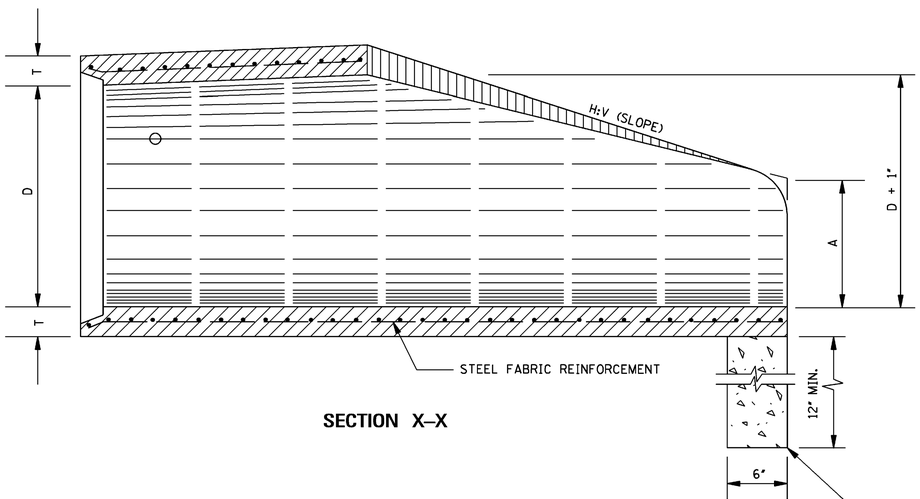


PLAN OF DOWNSTREAM END

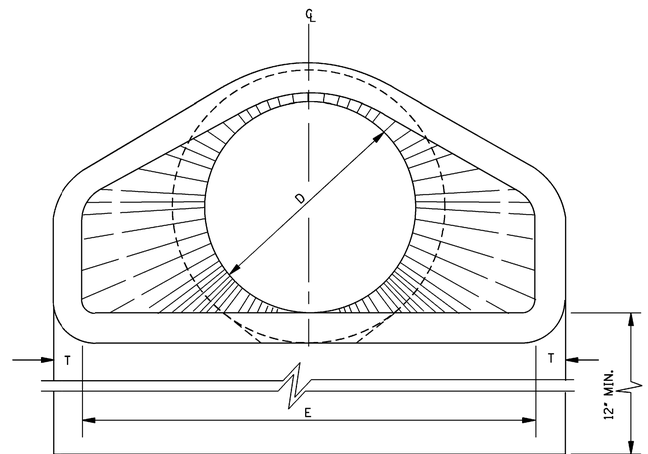
TABLE OF DIMENSIONS								
	D	T	H:V	A	B	C	E	L
	15"	2¼"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
	18"	2½"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
	24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
	30"	3½"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
	36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
	42"	4½"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
	48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
	54"	5½"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
*	60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
*	66"	6½"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
*	72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

*NOTE: SEE GENERAL NOTE 2.

TOE WALL CONC. QUANTITY (yd^3)
0.056
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.177
0.188



SECTION X–X



END ELEVATION

TOE WALL REQUIRED ON ALL DOWNSTREAM FLARED END SECTIONS. TOE WALL AT UPSTREAM END WILL BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.

GENERAL NOTES:

1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
2. 2 - 1½" DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 - 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
3. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
4. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.
5. ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

FLARED END SECTION FOR CONCRETE PIPE

ENGLISH

WORKING NUMBER FE-1

SHEET NUMBER 6328

ISSUE DATE: OCTOBER 1, 1998

DRAWING No.: 11209

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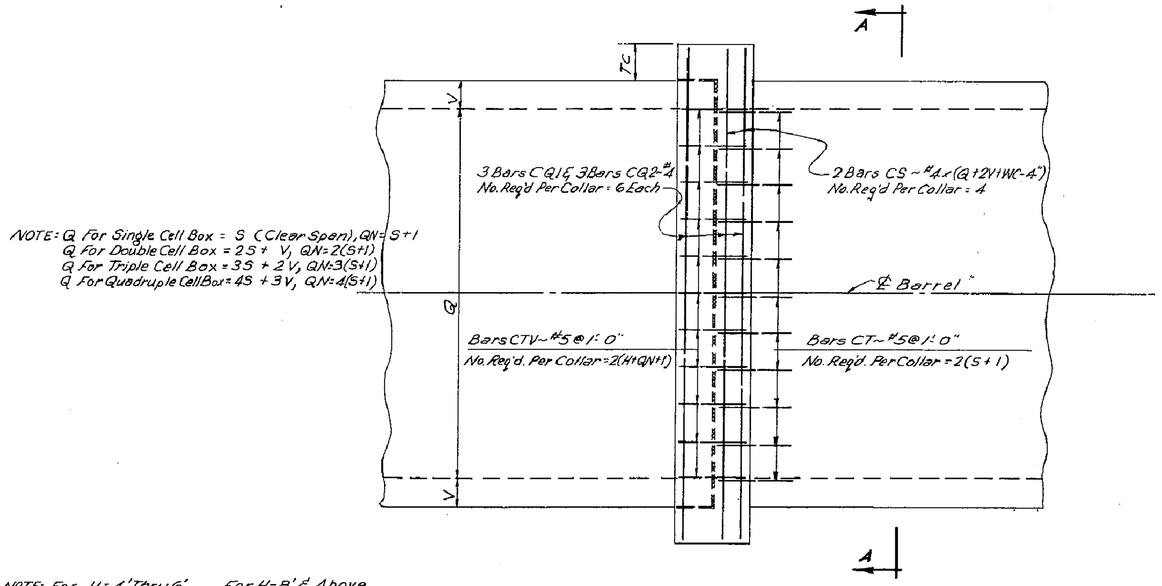
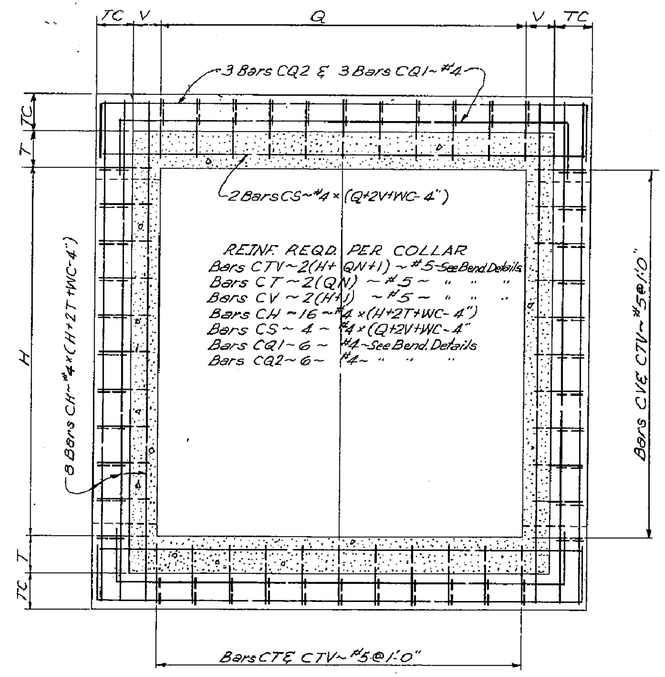


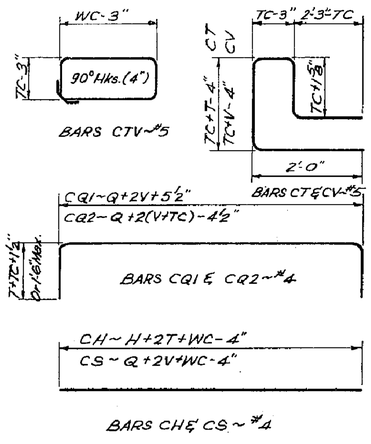
PLAN OF COLLAR

NOTE: For H = 4' Thru 6' TC = 9" WC = 1'-6"

For H = 8' & Above TC = 1'-0" WC = 2'-0"

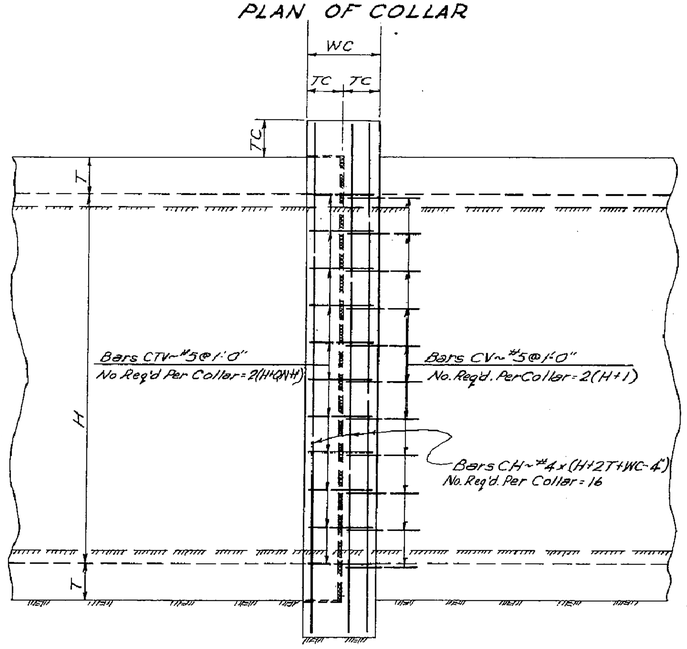


SECTION A-A

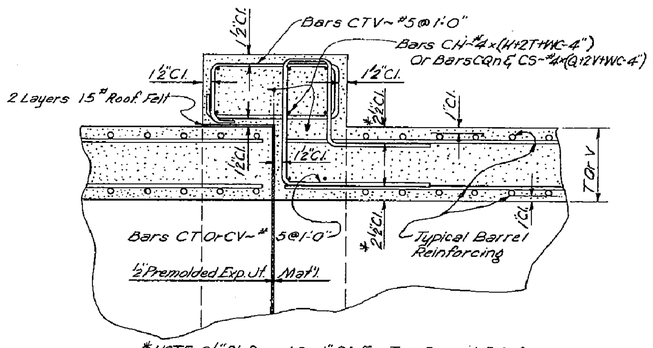


BAR BENDING DETAILS

NOTE: See * At Right



ELEVATION OF COLLAR



*NOTE: 2½"Cl. Based On 1" Cl. For Typ. Barrel Reinf. This Cl. Shall Be Adjusted For Cl. Other Than 1".

TYPICAL SECTION OF COLLAR

GENERAL NOTES:

This Drawing Shows The Details Necessary To Construct A Complete Collar Around Barrel At Expansion Joints For Single, Double, Triple And Quadruple Cell Box Structures.

All Details And Requirements Not Shown Hereon Shall Be As Per Specific Drawings Or Sheets As Listed In The Plan Assembly.

This Drawing Is Detailed For A Single Cell Box Structure, And Multi-Cell Box Structures Shall Be Treated Similarly As Shown.

DATE	REVISIONS	BY
6-1-70	Title Block, No Name Ct. Note, Add Heading For TC & WC, Add 2" Above	[illegible]

MISSISSIPPI STATE HIGHWAY DEPARTMENT

COLLAR DETAILS

FOR BOX STRUCTURES

(SINGLE, DOUBLE, TRIPLE & QUADRUPLE)

DESIGNED [illegible] DETAILED [illegible] TRACED H.E.

CHECKED _____ ISSUED _____ DATE _____

WORKING NUMBER ICJ-1

SHEET NUMBER 273

DRAWING No.: 11209

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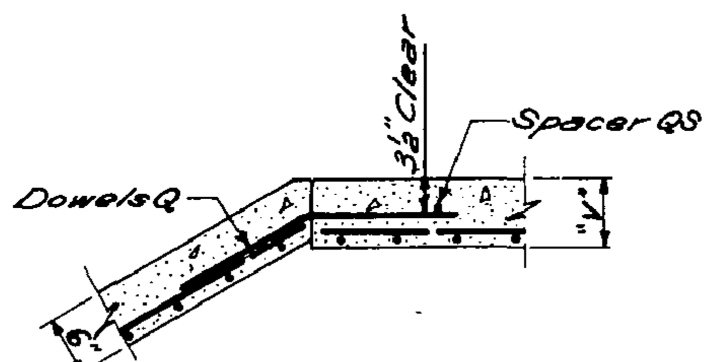


PERMISSIBLE CONSTRUCTION JOINT AT WING

CULVERT DIMENSIONS						ESTIMATED QUANTITIES					
						CULVERT (L=150')		PER LIN. FT. BARREL		1 AUX. SLAB "J"	
CLEAR SPAN	MAX. COVER	T	V	W	Y	CONC. CU. YD.	REINF. STEEL LB.	CONC. CU. YD.	REINF. STEEL LB.	CONC. CU. YD.	REINF. STEEL LB.
5'	18'	7"	7"	1'-5"	14'-11⅜"	80.36	11,238	0.4825	69.4	0.30	18
6'	16'	7½"	7"	1'-5½"	15'-11⅜"	90.71	13,675	0.5478	85.4	0.35	21
7'	13'	8"	7"	1'-6"	16'-11⅜"	101.99	15,347	0.6193	96.0	0.40	23
8'	10'	8½"	7"	1'-6½"	17'-11⅜"	114.21	17,035	0.6970	107.1	0.45	26
9'	8'	9"	7"	1'-7"	18'-11⅜"	127.36	20,102	0.7809	126.7	0.50	29
10'	8'	9½"	7½"	1'-7½"	19'-11⅜"	144.49	23,848	0.8912	151.6	0.56	32
12'	6'	10"	8"	1'-8"	21'-11⅜"	172.40	28,506	1.0700	181.7	0.66	38

BAR LIST FOR BARREL (L=150') PARAPETS & 2 AUXILIARY SLABS "J"

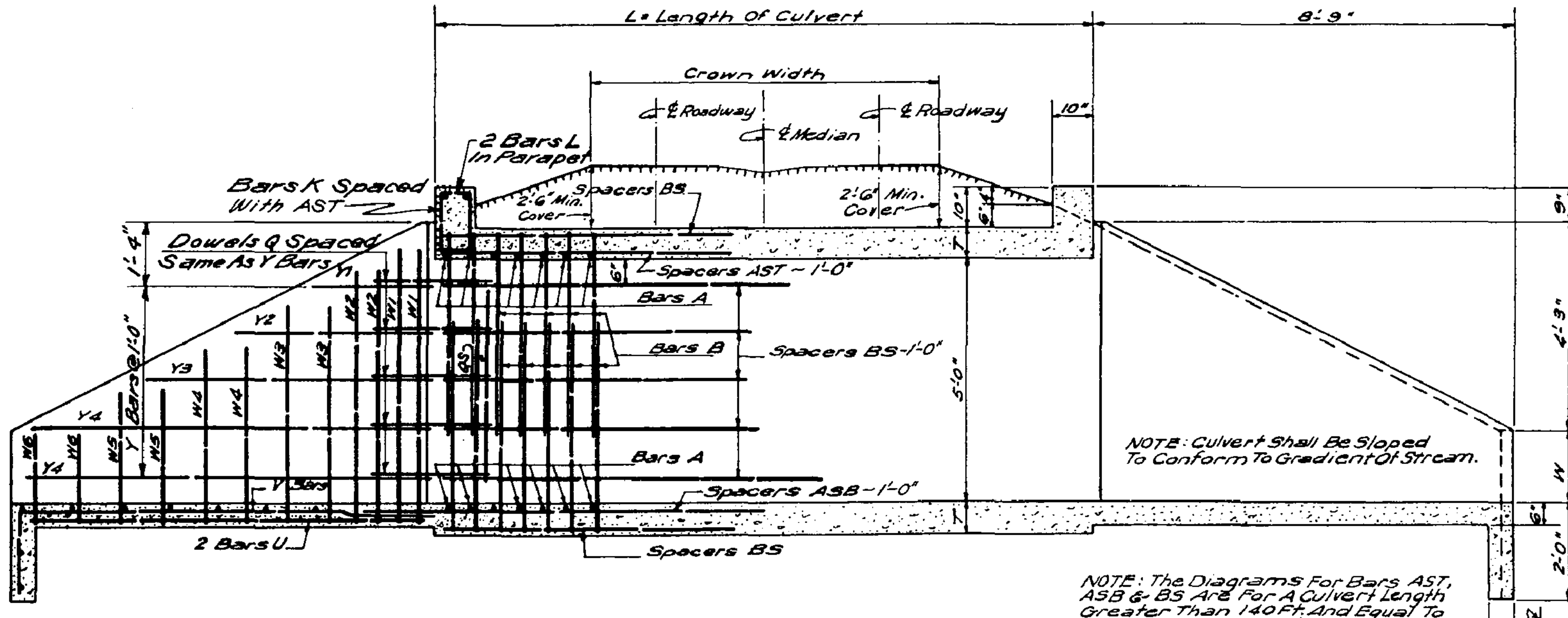
CLEAR SPAN	BARS "A" NO.	SIZE	SPAC.	LGTH.	BARS "B" NO.	SIZE	SPAC.	LGTH.	DOWELS "Q"-#4 NO.	LGTH.	SPACERS "QS"-#4 NO.	LGTH.
5'	552	#5	6½"	5'-11"	2052	#3	3½"	5'-5"	20	2'-6"	4	4'-7"
6'	624	#5	5¾"	6'-11"	1248	#4	5¾"	5'-10"	20	2'-6"	4	4'-7"
7'	654	#5	5½"	7'-11"	1308	#4	5½"	6'-2"	20	2'-6"	4	4'-7"
8'	684	#5	5¼"	8'-11"	1368	#4	5¼"	6'-5"	20	2'-6"	4	4'-7"
9'	516	#6	7"	9'-11"	1032	#5	7"	6'-10"	20	2'-6"	4	4'-7"
10'	576	#6	6¼"	11'-0"	1152	#5	6¼"	7'-2"	20	2'-6"	4	4'-7"
12'	438	#7	8¼"	13'-1"	1308	#5	5½"	7'-9"	20	2'-6"	4	4'-7"

CLEAR SPAN	SETS OF BARS AST #4 ● NO.	LGTH.	SETS OF BARS ASB #4 ● NO.	LGTH.	SETS OF BARS BS #4 ● NO.	LGTH.	BARS "K" #4 NO.	LGTH.	BARS "L" #4 NO.	LGTH.	BARS "M" #4 NO.	LGTH.	BARS "N" #4 NO.	LGTH.
5'	5	152'-9"	5	155'-7"	18	152'-9"	10	4'-0"	4	5'-8"	4	5'-10"	14	2'-2"
6'	6	152'-9"	6	155'-7"	22	152'-9"	12	4'-1"	4	6'-8"	4	6'-10"	16	2'-2"
7'	7	152'-9"	7	155'-7"	22	152'-9"	14	4'-2"	4	7'-8"	4	7'-10"	18	2'-2"
8'	8	152'-9"	8	155'-7"	22	152'-9"	16	4'-3"	4	8'-8"	4	8'-10"	20	2'-2"
9'	9	152'-9"	9	155'-7"	22	152'-9"	18	4'-4"	4	9'-8"	4	9'-10"	22	2'-2"
10'	10	152'-9"	10	155'-7"	26	152'-9"	20	4'-5"	4	10'-8"	4	10'-11"	24	2'-2"
12'	12	152'-9"	12	155'-7"	26	152'-9"	24	4'-6"	4	12'-8"	4	13'-0"	28	2'-2"

● NOTE: The Number And Length Of Bars Are Listed For Sets Of Bars Composed Of Sections As Shown In Bar Bending Details. See Elevation Of Culvert For Number Of Sections.

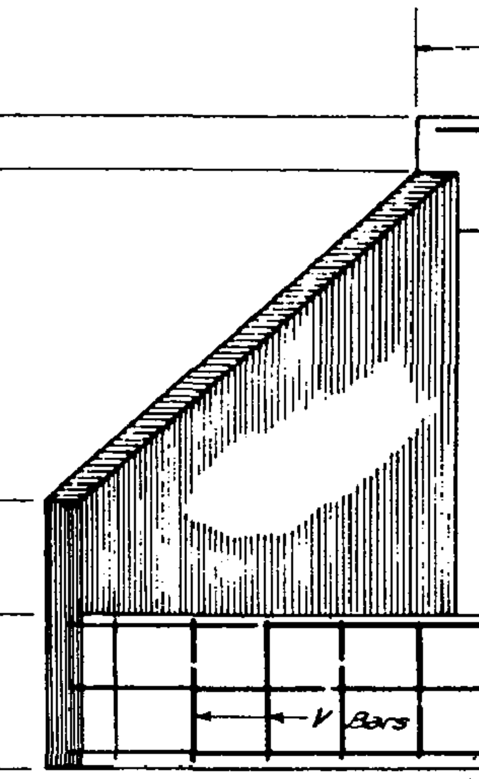
BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 5'	6'	7'	8'	9'	10'	12'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2	2	2			S+1'-0"
T2	#4	2	2	2	2	2	2	2			S+2'-2"
T3	#4	2	2	2	2	2	2	2			S+3'-4"
T4	#4	2	2	2	2	2	2	2			S+4'-6"
T5	#4	2	2	2	2	2	2	2			S+5'-8"
T6	#4	2	2	2	2	2	2	2			S+6'-10"
T7	#4	2	2	2	2	2	2	2			S+8'-0"
T8	#4	2	2	2	2	2	2	2			S+9'-2"
T9	#4	6	6	6	6	6	6	6			S+10'-2"
U	#4	8	8	8	8	8	8	8			9'-6"
V1	#4	14	16	18	20	22	24	28	8'-5"	1'-8"	10'-1"
V2	#4	4	4	4	4	4	4	4	6'-6"	1'-8"	8'-2"
V3	#4	4	4	4	4	4	4	4	4'-9"	1'-8"	6'-5"
V4	#4	4	4	4	4	4	4	4	3'-1"	1'-8"	4'-9"
V5	#4	4	4	4	4	4	4	4	1'-5"	1'-8"	3'-1"
W1	#4	8	8	8	8	8	8	8	3'-0"	W+4'-1"	W+7'-1"
W2	#4	8	8	8	8	8	8	8	2'-10"	W+3'-8"	W+6'-6"
W3	#4	8	8	8	8	8	8	8	2'-7"	W+2'-11"	W+5'-6"
W4	#4	8	8	8	8	8	8	8	2'-3"	W+2'-1"	W+4'-4"
W5	#4	8	8	8	8	8	8	8	2'-0"	W+1'-3"	W+3'-3"
W6	#4	8	8	8	8	8	8	8	1'-9"	W+4"	W+2'-1"
Y1	#4	4	4	4	4	4	4	4			2'-7"
Y2	#4	4	4	4	4	4	4	4			4'-11"
Y3	#4	4	4	4	4	4	4	4			7'-2"
Y4	#4	8	8	8	8	8	8	8			9'-8"

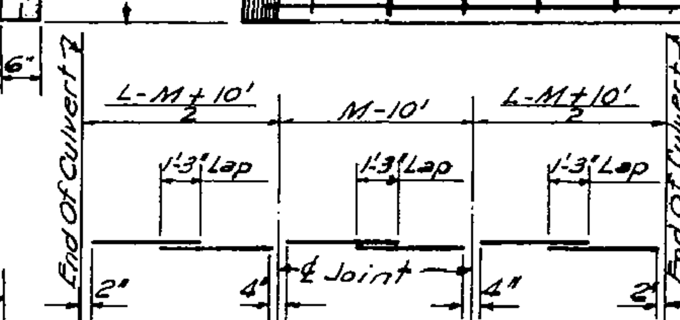


LONGITUDINAL SECTION

NOTE: The Diagrams For Bars AST, ASB & BS Are For A Culvert Length Greater Than 140 Ft. And Equal To Or Less Than 190 Ft. With A Median Of 40 Ft. Thru 60 Ft. For Conditions Other Than These, Use Sections As Shown On Elevation Of Culvert.



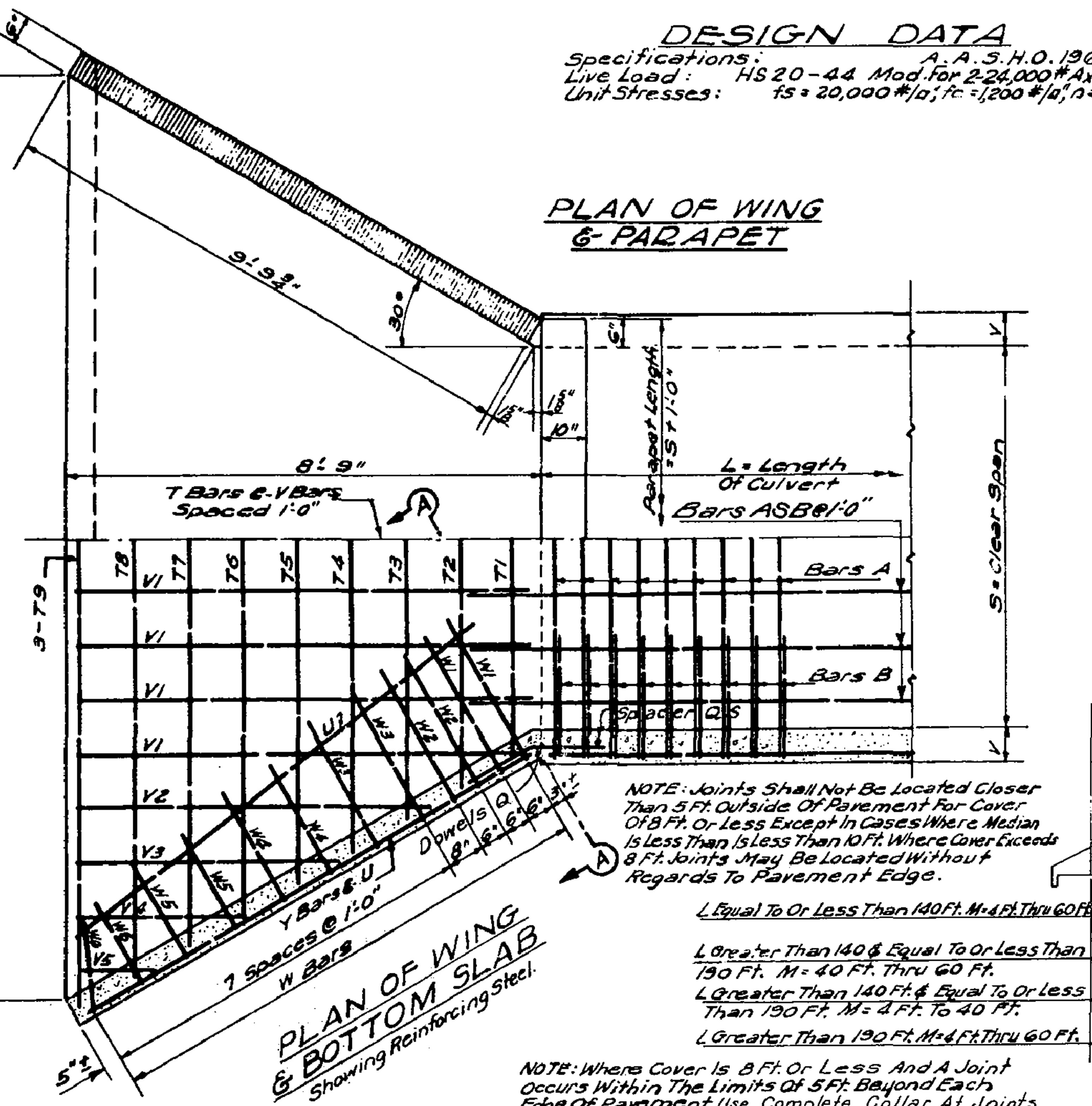
END ELEVATION



ONE SET OF BARS AST & BS-#4

DESIGN DATA

Specifications: A.A.S.H.O. 1969.
Live Load: HS 20-44 Mod. For 2-24,000 # Axles.
Unit Stresses: fs = 20,000 #/□"; fc = 1,200 #/□"; n = 10.

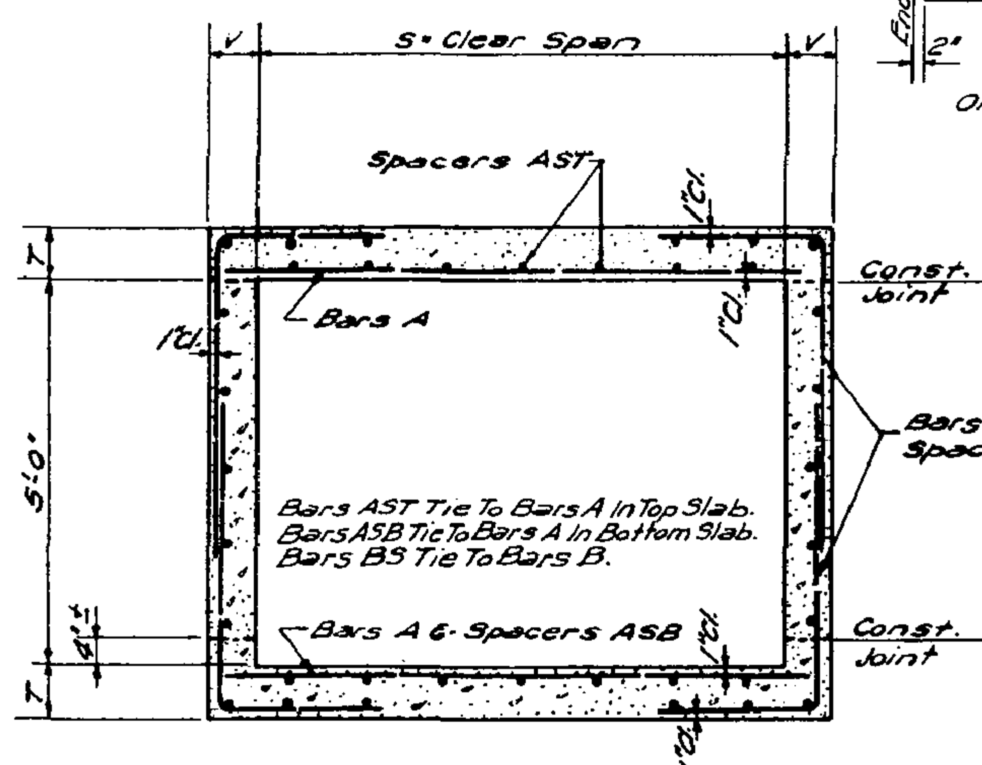


PLAN OF WING & PARAPET

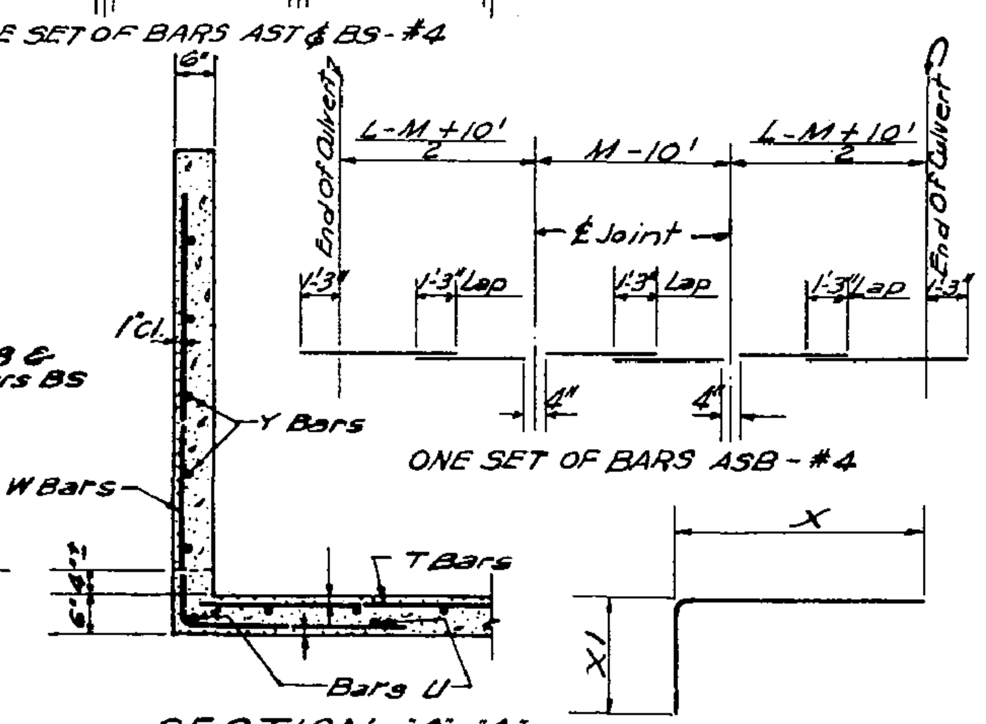
PLAN OF WING & BOTTOM SLAB Showing Reinforcing Steel.

NOTE: Joints Shall Not Be Located Closer Than 5 Ft. Outside Of Pavement For Cover Of 8 Ft. Or Less Except In Cases Where Median Is Less Than Is Less Than 10 Ft. Where Cover Exceeds 8 Ft. Joints May Be Located Without Regards To Pavement Edge.

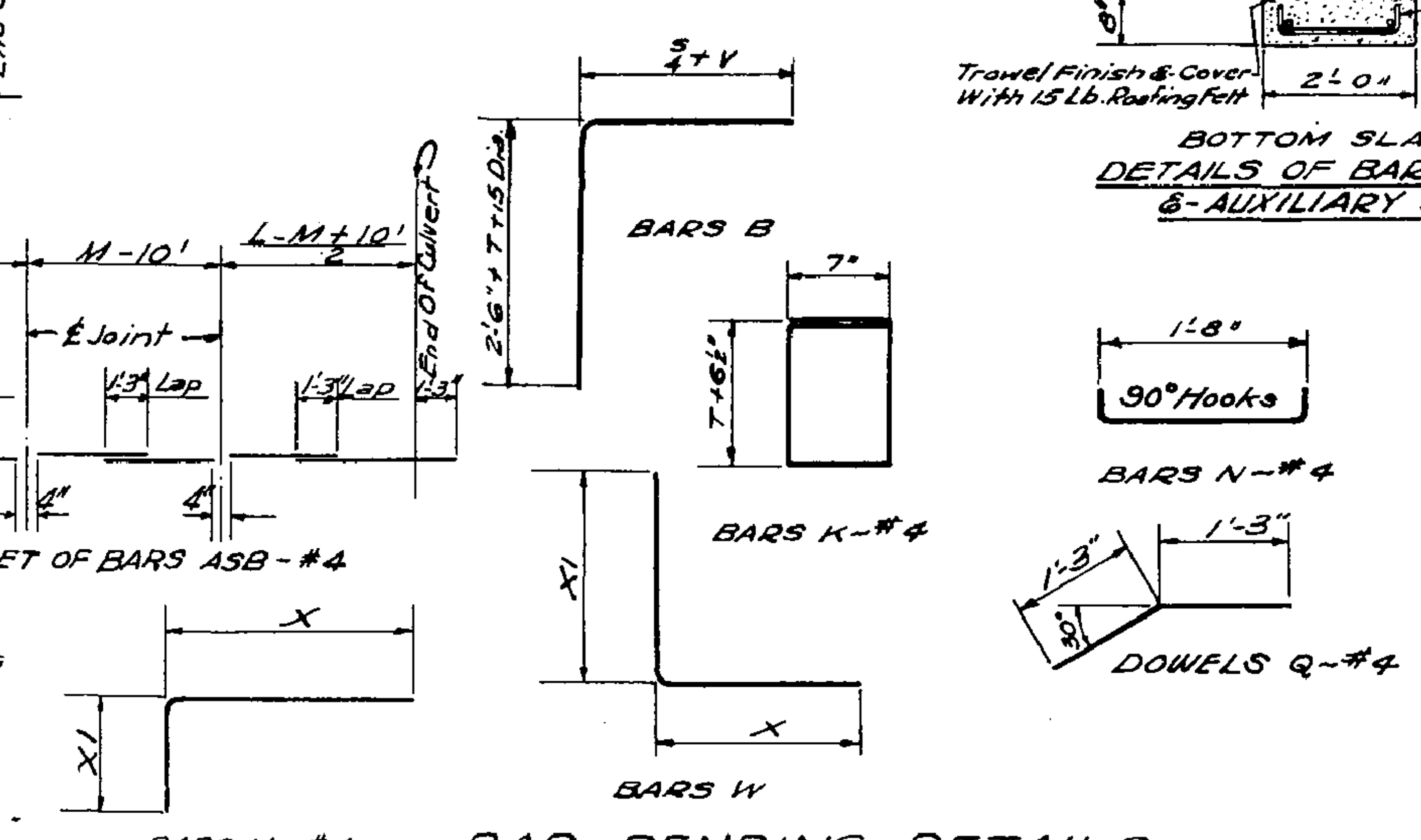
NOTE: Where Cover Is 8 Ft. Or Less And A Joint Occurs Within The Limits Of 5 Ft. Beyond Each Edge Of Pavement, Use Complete Collar At Joints Per Drawing ICJ-1 Or ICJS-1.



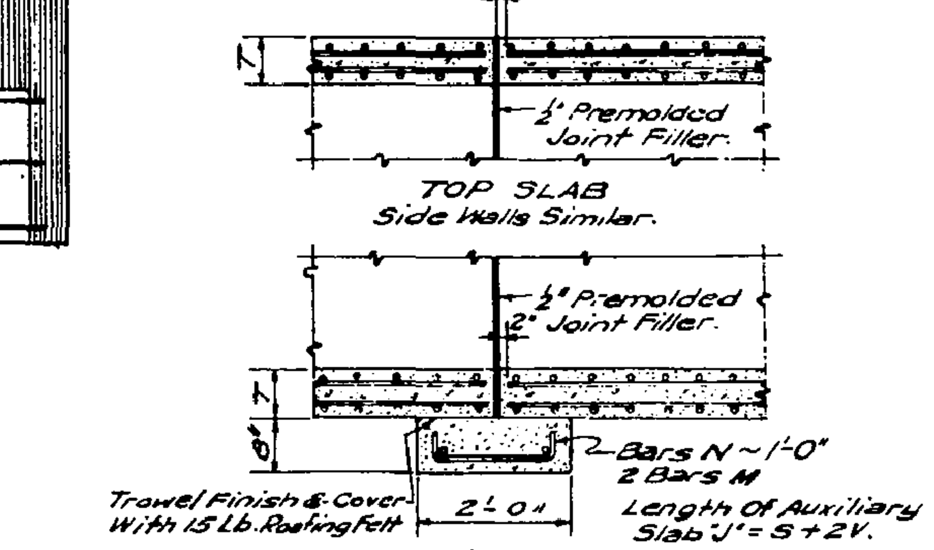
CROSS SECTION



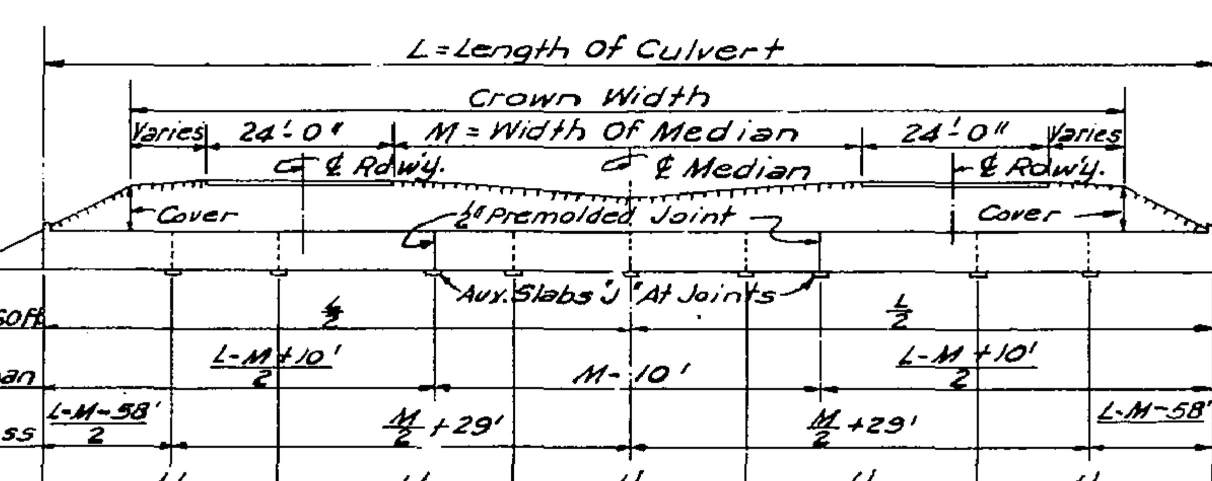
SECTION "A"-"A"



BAR BENDING DETAILS
Dimensions Are Out To Out



DETAILS OF BARREL JOINT & AUXILIARY SLAB "J"



SIDE ELEVATION OF CULVERT
Showing ½" Joints And Auxiliary Slabs "J" Drawn For L=150 Ft. M=60 Ft.

GENERAL NOTES:-

Specifications: Mississippi State Highway Department.
All Concrete Shall Be Class "B"
Concrete Surfaces Shall Be Finished In Accordance With Sub-section 804.24.
All Exposed Corners Shall Be Chamfered ¾ Inch.
Reinforcing Steel Shall Be Placed 1" Clear Minimum From Surface Of The Concrete And Shall Be Adequately Supported From The Forms.
All Bars Shall Be Accurately Spaced And Securely Wired At Each Intersection Before Placing Concrete.
Horizontal Construction Joints Shall Be Placed Only At The Locations Shown, And The Concrete Shall Be Allowed To Set A Minimum Period Of 2 Hours Before Continuing The Pour.
The Quantities Shown Will Be Used As The Basis For Final Payment Unless This Drawing Is Modified.

NOTE: See Drawing IBJL-1 For Additional Joint Locations.

DATE	REVISIONS	BY
11-1-66	Permissible Const. Joint	[illegible]
5-24-68	Specs.: AASHO 1965 & MSHD 1967	[illegible]
1-1-70	Title Block, A.A.S.H.O. Specs. 1969	[illegible]
	Joint Location Notes & Reinf. Note	[illegible]

MISSISSIPPI STATE HIGHWAY DEPARTMENT

BASIC CULVERT DRAWING
SINGLE CELL

HEIGHT 5 FT.
SPANS 5 - 12 FT.

WORKING NUMBER IBS-5-2W

DETAILED [illegible] CHECKED ____ ISSUED ____
TRACED L.B.R. DATE ____ DATE ____

SHEET NUMBER 277

DRAWING No.: 11209

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TABLE OF DIMENSIONS

CULVERT HEIGHT	LW1	LW2	N1	N2	P	R	U	W (Per Supplementary Drawing)	Z
4'	7'-2"	14'-4"			1.414Q+1.43'	7 3/8"	6"		7'-2"
5'	8'-6"	17'-0"			1.414Q+1.43'	7 3/8"	6"		8'-6"
6'	11'-0"	22'-0"			1.414Q+1.63'	8 9/16"	7"		11'-0"
8'	14'-2"	28'-4"			1.414Q+1.93'	10 7/16"	8 1/2"		14'-2"
10'	16'-2"	32'-4"	2'-11"	6'-1"	1.414Q+2.22'	1'-0 1/2"	10"		16'-2"
12'	18'-8"	37'-4"	3'-3"	7'-0"	1.414Q+2.42'	1'-1 1/2"	11"		18'-8"

NOTE: Q For Single Cell Culvert = S (Clear Span)
Q For Double Cell Culvert = 2S + V

TABLE OF V BARS

CULVERT HEIGHT	BARS V1 (Same As Basic Culvert Drawing) NO.	DIM. X	BARS VL1-VLn NO.	DIM. X	BARS VS1-VSn NO.	DIM. X
4'	9'-10"	2	6'-0" To 3'-2"	4	8'-1" To 2'-1"	
5'	11'-8"	3	7'-10" To 2'-4"	5	9'-6" To 1'-6"	
6'	15'-3"	4	11'-8" To 3'-6"	6	13'-2" To 3'-2"	
8'	19'-8"	5	16'-2" To 5'-3"	9	17'-8" To 1'-8"	
10'	22'-6"	6	19'-4" To 5'-8"	10	20'-8" To 2'-8"	
12'	26'-1"	7	23'-1" To 6'-8"	11	24'-5" To 4'-5"	

TABLE OF T BARS

CULVERT HEIGHT	BAR	NO.	LENGTH
4'	T1 To T7	1 Ea.	P-2" To P+10'-2"
	T8	3	P+11'-0"
5'	T1 To T8	1 Ea.	P-2" To P+11'-11"
	T9	3	P+13'-3"
6'	T1 To T10	1 Ea.	P-2" To P+15'-5"
	T11	3	P+17'-5"
8'	T1 To T14	1 Ea.	P-2" To P+22'-4"
	T15	3	P+23'-2"
10'	T1 To T16	1 Ea.	P-2" To P+25'-9"
	T17	3	P+26'-7"
12'	T1 To T18	1 Ea.	P-2" To P+29'-3"
	T19	3	P+31'-0"

TABLE OF U BARS

CULVERT HEIGHT	UL, NO. & LGTH. LONG WING	US, NO. & LGTH. SHORT WING
4'	1 @ 13'-6" / 1 @ 12'-0"	2 @ 7'-0"
5'	1 @ 16'-2" / 1 @ 14'-0"	2 @ 8'-4"
6'	2 @ 21'-2" / 1 @ 19'-0"	3 @ 10'-9"
8'	2 @ 27'-6" / 1 @ 25'-0"	3 @ 13'-11"
10'	1 @ 31'-6", 1 @ 30'-6" / 1 @ 28'-6"	2 @ 15'-11" / 1 @ 16'-2"
12'	1 @ 36'-6", 1 @ 35'-0" / 1 @ 32'-0"	2 @ 18'-5" / 1 @ 18'-9"

TABLE OF Y BARS

CULVERT HEIGHT	BAR	NO.	LENGTH LONG WING	LENGTH SHORT WING
4'	Y1 To Y3	1 Ea.	4'-0" To 12'-0"	1'-11" To 5'-10"
	Y4	1	14'-2"	6'-11"
5'	Y1 To Y3	1 Ea.	4'-8" To 12'-8"	2'-3" To 6'-3"
	Y4	2	16'-8"	8'-3"
6'	Y1 To Y5	1 Ea.	5'-5" To 21'-5"	2'-7" To 10'-7"
	Y6	1	21'-10"	10'-9"
8'	Y1 To Y6	2 Ea.	5'-2" To 25'-2"	2'-7" To 12'-7"
	Y7	4	28'-2"	13'-11"
10'	Y1 To Y6	2 Ea.	5'-11" To 30'-11"	2'-11" To 15'-5"
	Y7	4	32'-2"	15'-11"
12'	Y1 To Y7	2 Ea.	6'-4" To 36'-4"	3'-0" To 18'-0"
	Y8	8	37'-2"	18'-5"

TABLE OF WL BARS

LONG WING

CULVERT HEIGHT	BAR	NO.	SIZE	SPAC.	DIM. X	DIM. X1
12 FT., 10 FT., 8 FT., 6 FT., 5 FT., 4 FT.	WL1	3	#4	1'-0"	M-3"	K
	WL2	2	#4	1'-0"	M+1"	K+9"
	WL3	2	#5	1'-0"	M+3"	K+1'-3"
	WL4	2	#5	1'-0"	M+6"	K+1'-9"
	WL5	2	#5	1'-0"	M+8"	K+2'-3"
	WL6	3	#5	1'-0"	M+11"	K+2'-9"
	WL7	3	#5	1'-0"	M+1'-2"	K+3'-6"
	WL8	2	#6	1'-0"	M+1'-5"	K+4'-3"
	WL9	3	#6	1'-0"	M+1'-8"	K+4'-9"
	WL10	2	#6	9"	M+1'-11"	K+5'-6"
	WL11	3	#6	9"	M+2'-1"	K+5'-9"
	WL12	3	#6	9"	M+2'-4"	K+6'-4"
	WL13	3	#7	9"	M+2'-6"	K+6'-11"
	WL14	2	#7	9"	M+2'-9"	K+7'-6"
	WL15	4	#7	6"	M+2'-11"	K+7'-10"
	WL16	3	#7	6"	M+3'-1"	K+8'-4"
	WL17	3	#7	6"	M+3'-3"	K+8'-9"

TABLE OF WS BARS

SHORT WING

CULVERT HEIGHT	BAR	NO.	SIZE	SPAC.	DIM. X	DIM. X1
12 FT., 10 FT., 8 FT., 6 FT., 5 FT., 4 FT.	WS1	2	#4	1'-0"	M-4"	K
	WS2	2	#4	1'-0"	M+1"	K+1'-0"
	WS3	2	#5	1'-0"	M+6"	K+2'-0"
	WS4	2	#5	1'-0"	M+10"	K+3'-0"
	WS5	1	#6	1'-0"	M+1'-3"	K+4'-0"
	WS6	1	#6	1'-0"	M+1'-6"	K+4'-6"
	WS7	2	#6	9"	M+1'-9"	K+5'-0"
	WS8	2	#6	9"	M+2'-0"	K+5'-9"
	WS9	2	#6	9"	M+2'-3"	K+6'-6"
	WS10	2	#7	9"	M+2'-7"	K+7'-3"
	WS11	1	#7	6"	M+2'-10"	K+7'-10"
	WS12	1	#7	6"	M+3'-1"	K+8'-1"
	WS13	2	#7	6"	M+3'-1"	K+8'-4"
	WS14	2	#7	6"	M+3'-3"	K+8'-10"
HGT.			4'	5'	6'	8'	10'	12'
"M"			1'-10"	2'-0"	2'-2"	2'-7"	2'-11"	3'-3"

TABLE OF R BARS ~ #4

CULVERT HEIGHT	BAR	NO.	LENGTH
8'	RS1 To RS9	1 Ea.	W+6'-2" To W+2"
	RL1 To RL18	1 Ea.	W+6'-4" To W
10'	RS1 To RS10	1 Ea.	W+7'-2" To W+5"
	RL1 To RL20	1 Ea.	W+7'-4" To W+3"
12'	RS1 To RS12	1 Ea.	W+8'-5" To W+2"
	RL1 To RL24	1 Ea.	W+8'-7" To W

TABLE OF L & M BARS

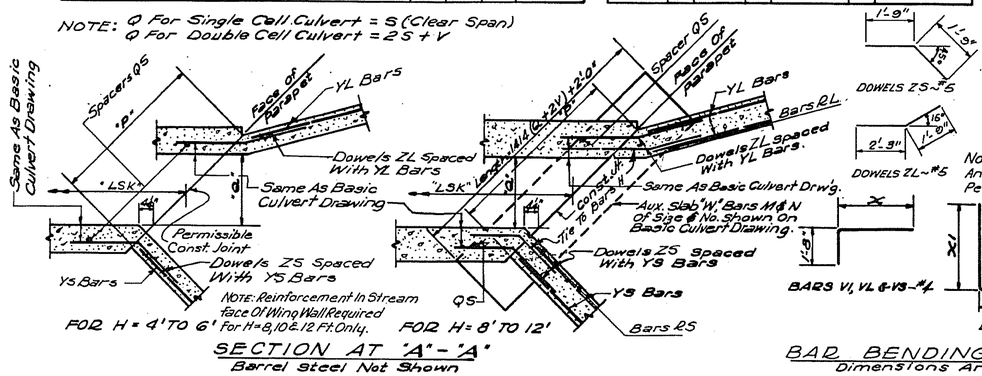
CULVERT HEIGHT	BARS L NO.	SIZE	LENGTH	BARS M NO.	SIZE	LENGTH
4'-6'	4	#8	P-4"			NONE
8'-12'	4	#9	P-4"	2	#4	1.414(Q+2V)+1'-8"

Bars K & N Per Basic Culvert Drawing Except Spacing Shall Be 1'-5"

NOTE:— The Number Of Bars Shown In The Tables Is The Number Required For One Complete Headwall Assembly At One End Of The Culvert.

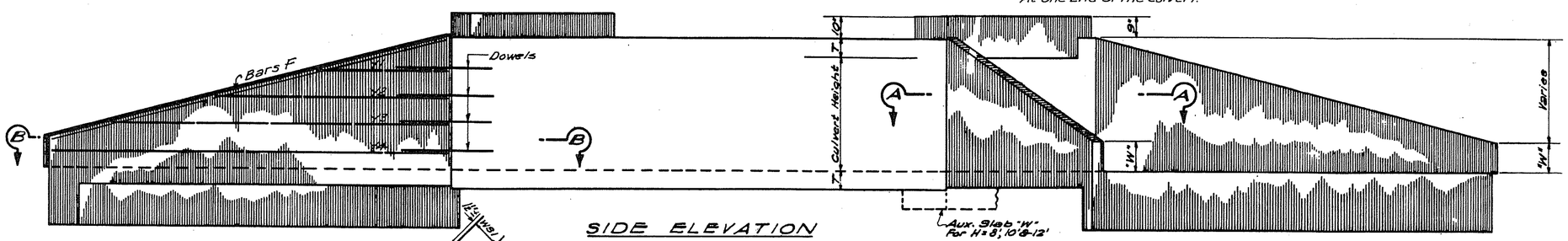
TABLE OF FL, FS, QS, ZL & ZS BARS

CULVERT HEIGHT	BARS FL ~ #4 NO.	LGTH.	BARS FS ~ #4 NO.	LGTH.	SPACERS QS ~ #4 NO.	LGTH.	DOWELS ZL ~ #5 NO.	LGTH.	DOWELS ZS ~ #5 NO.	LGTH.
4'	2	14'-3"	2	7'-6"	2	3'-7"	4	4'-0"	4	3'-6"
5'	2	17'-0"	2	9'-0"	2	4'-7"	5	4'-0"	5	3'-6"
6'	2	22'-2"	2	11'-10"	2	5'-7"	6	4'-0"	6	3'-6"
8'	2	28'-9"	2	15'-4"	2	7'-7"	16	4'-0"	16	3'-6"
10'	2	32'-10"	2	17'-7"	2	9'-7"	16	4'-0"	16	3'-6"
12'	2	38'-0"	2	20'-4"	2	11'-7"	20	4'-0"	20	3'-6"

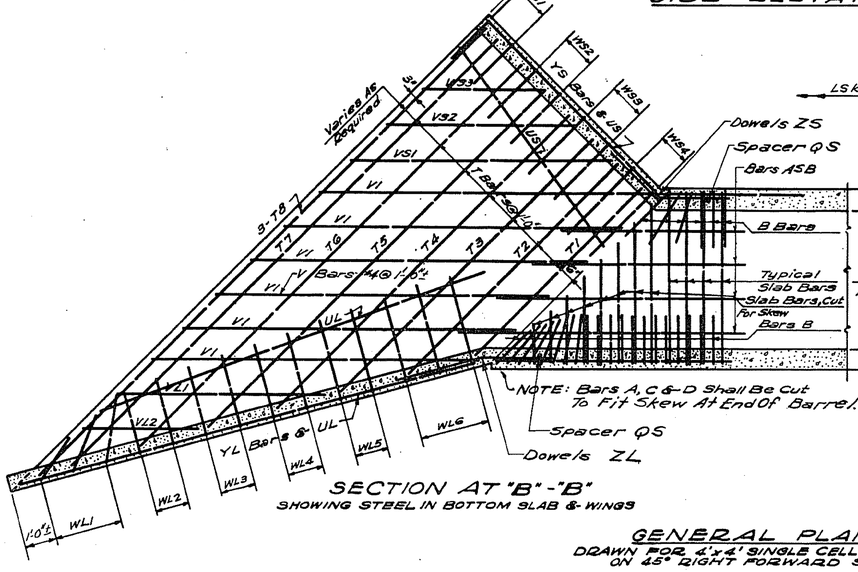


SECTION AT "A"-"A"
Barrel Steel Not Shown

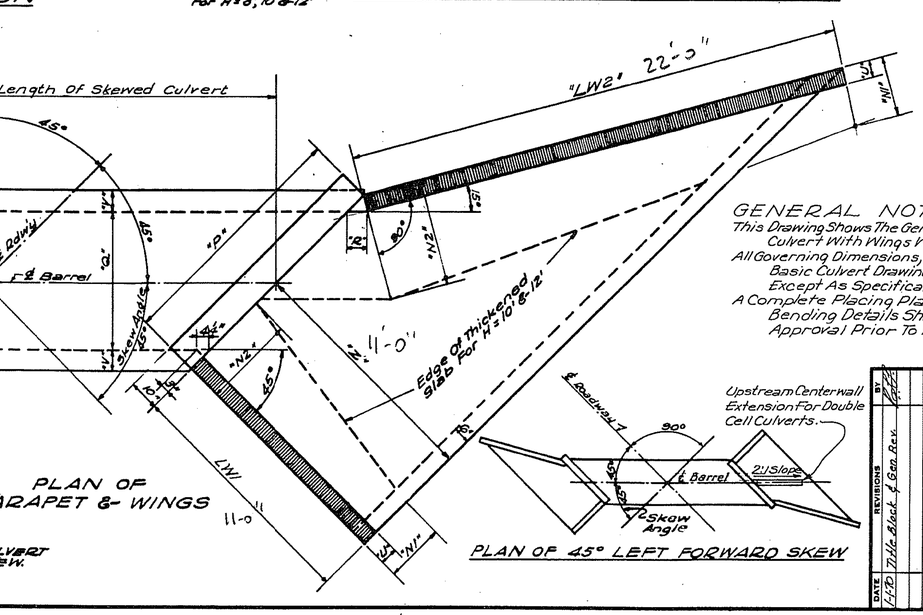
BAR BENDING DETAILS
Dimensions Are Out To Out.



SIDE ELEVATION



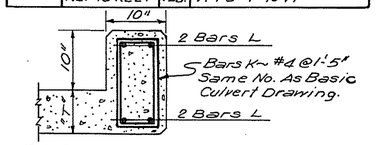
SECTION AT "B"-"B"
SHOWING STEEL IN BOTTOM SLAB & WINGS



PLAN OF PARAPET & WINGS

GENERAL PLAN
DRAWN FOR 4'x4' SINGLE CELL CULVERT ON 45° RIGHT FORWARD SKEW.

PLAN OF 45° LEFT FORWARD SKEW



PARAPET DETAIL
Slab Steel Not Shown.

GENERAL NOTES:

This Drawing Shows The General Details Necessary To Modify A Single Or Double Cell Culvert With Wings With 2:1 Slope For A 45° Skew.

All Governing Dimensions, Reinforcement Details And General Requirements Of Basic Culvert Drawings And Or Drawings IBSM-2W And IBDM-2W Shall Apply Except As Specifically Modified Hereon.

A Complete Placing Plan Showing All Governing Dimensions, Bar List And Bending Details Shall Be Submitted To The Project Engineer For Approval Prior To Fabrication Of The Reinforcing Steel.

DATE	REVISIONS	BY
1-1-70	Title Block & Gen. Rev.	

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BOX CULVERT DRAWING
45° SKEW DETAILS
WINGS WITH 2:1 SLOPE
SINGLE & DOUBLE CELL CULVERTS

WORKING NUMBER ISK-45-2W

DETAILED [illegible] CHECKED ____ ISSUED ____
TRACED L.B.R. DATE ____ DATE ____

SHEET NUMBER 312

DRAWING No.: 11209

G:\PROJECTS\Hattiesburg_City of\11209 - Lake Forgetful Road\11209\CAD Files\11209_SWBDTL.DWG, 312, 1/26/2017 3:22:33 PM

SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

LAKE FORGETFUL ROAD

FOR THE

CITY OF HATTIESBURG
LAMAR COUNTY
MISSISSIPPI

MARCH 2017

sdw Engineering Progress

SHEA E. McM... LICENSED PROFESSIONAL ENGINEER 16793 STATE OF MISSISSIPPI 3/2/17

PREPARED BY:

SHOWS, DEARMAN & WAITS, INC.
CONSULTING ENGINEERS
301 SECOND AVENUE
HATTIESBURG, MISSISSIPPI 39401
(601) 544-1821

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SHERYL E. MONEYHOE
LICENSED PROFESSIONAL
ENGINEER
16793
STATE OF MISSISSIPPI
4/2/17

ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **March 23, 2017** in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements for the following:

LAKE FORGETFUL ROAD
HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

LAKE FORGETFUL ROAD
HATTIESBURG, MISSISSIPPI

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the _____ day of_____A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on February 22, 2017 and March 1, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

INFORMATION FOR BIDDERS

BIDS will be received by the CITY OF HATTIESBURG, MISSISSIPPI herein called the "OWNER", at City Hall until 10:00 a.m. on March 23, 2017 and then at said office publicly opened and read aloud.

Each BID must be submitted in sealed envelope, addressed to City of Hattiesburg. Each sealed envelope containing a BID must be plainly marked on the outside as BID for **LAKE FORGETFUL ROAD** and the envelope should bear on the outside the BIDDER'S name, address, and license number if applicable, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed addressed to the Owner at P. O. Box 1898, Hattiesburg, MS 39403

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be completed and executed when submitted. Only one copy of the BID form is required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period; the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS prior to BIDDING, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID BOND payable to the OWNER for five percent (5%) of the total amount of the BID. As soon as the BID prices have been compared, the

OWNER will return the BONDS of all except the three lowest responsive, responsible BIDDERS. When the Agreement is executed the BONDS of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the PAYMENT BOND and PERFORMANCE BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

A PERFORMANCE BOND and a PAYMENT BOND, each in the amount of 100 percent (100%) of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or PAYMENT BONDS and PERFORMANCE BONDS must file with each BOND a certified and effective dated copy of their Power of Attorney.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the PERFORMANCE BOND and PAYMENT BOND within ten (10) calendar days from the date when NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable PERFORMANCE BOND, PAYMENT BOND and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the Agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period; the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as deemed necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER.

All applicable Laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

FURTHER, the BIDDER agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the SUPPLEMENTAL GENERAL CONDITIONS.

The low BIDDER shall supply the names and addresses of major material SUPPLIERS and SUBCONTRACTORS when required to do so by the OWNER.

The ENGINEER is SHOWS, DEARMAN & WAITS, INC. The address of the ENGINEER is 301 2nd Avenue, Hattiesburg, MS 39401.

PROPOSAL FORM

I(we) agree to begin work within ten (10) calendar days after the issuance of the "Work Order," and to complete the work within __75_____ calendar days thereafter.

It is understood that the quantities of work listed for unit prices bid are approximate and are intended to merely indicate the general scope of the various items entering into the complete work. It is further understood and agreed that the Owner may increase or decrease the quantities listed in the proposal to an extent equivalent to thirty percent (30%) of the bid price (in dollars) and that no change in the unit prices proposed shall be occasioned thereby.

The undersigned further agrees that the unit and lump sum prices quoted include all items of work required or necessary for the accomplishment of the projected work and that these items include all work indicated on the plans and specifications for which no specific pay items have been established.

The undersigned certifies that the bid prices contained herein have been carefully checked and are submitted as correct and final.

If within thirty (30) days the scheduled closing time for receipt of bids, this proposal is accepted, the undersigned will execute a formal contract within seven (7) days after official notification thereof, will deliver a surety bond for the faithful performance of this contract, and will complete the work within the time specified from the date of execution of the contract.

Respectfully Submitted,

_____
Name of Firm or Bidder

by: _____

LAKE FORGETFUL ROAD

CITY of HATTIESBURG

PAY ITEM NO.	PAY ITEMS	UNITS	QTY.	UNIT PRICE	EXTENSION ($)
1	REMOVAL OF PIPE (ALL SIZES)	LIN. FT.	365		
2	REMOVAL OF INLETS (ALL TYPES)	EACH	1		
3	REMOVAL OF JUNCTION BOX	EACH	1		
4	REMOVAL OF CONCRETE DRIVEWAY	SQ. YD.	135		
5	REMOVAL OF ASPHALT DRIVEWAY	SQ. YD.	135		
6	REMOVAL OF RIPRAP	SQ. YD.	84		
7	BORROW EXCAVATION, CLASS B9, AH	CU.YD.	707		
8	CRUSHED STONE BASE, SIZE 610	TON	1025		
9	ASPHALT, ST, 9.5 mm MIXTURE	TON	195		
10	ASPHALT, ST, 12.5 mm MIXTURE	TON	390		
11	GRASSING	ACRE	1		
12	WATTLES, 20"	LIN. FT.	100		
13	TEMPORARY SILT FENCE	LIN. FT.	500		
14	CLASS B STRUCTURAL CONCRETE	CU.YD.	36		
15	CLASS B STRUCTURAL CONCRETE, MINOR STRUCTURES	CU.YD.	27		
16	REINFORCING STEEL	LBS	7,724		
17	CASTINGS	LBS	876		
18	GRATINGS	LBS	327		
19	18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS	LIN. FT.	320		
20	24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS	LIN. FT.	24		
21	36" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS	LIN. FT.	8		
22	48" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS	LIN. FT.	184		
23	18" REINFORCED CONCRETE END SECTION	EACH	1		
24	44"X27" CONCRETE ARCH PIPE, CLASS AIII	LIN. FT.	32		
25	12'X5' PRECAST CONCRETE BOX CULVERT	LIN. FT.	108		
26	COMBINATION CONCRETE CURB & GUTTER	LIN. FT.	1109		
27	CONCRETE DRIVEWAY, WITHOUT REINFORCEMENT	SQ. YD.	125		
28	MAINTENANCE of TRAFFIC	LUMP SUM	1		

29	MOBILIZATION	LUMP SUM	1		
30	6" THERMOPLASTIC TRAFFIC STRIPE, CONTINUOUS YELLOW	LIN. FT.	1285		
31	6" THERMOPLASTIC DETAIL STRIPE, YELLOW	LIN. FT.	57		
32	6" THERMOPLASTIC DETAIL STRIPE, WHITE	LIN. FT.	100		
33	THERMOPLASTIC LEGEND, WHITE	LIN. FT.	112		
34	THERMOPLASTIC LEGEND, WHITE	SQ.FT.	77		
35	RED-CLEAR RAISED REFLECTIVE PAVEMENT MARKERS	EACH	4		
36	TWO-WAY YELLOW RAISED REFLECTIVE PAVEMENT MARKERS	EACH	59		
37	FLOWABLE FILL	CU.YD.	67		
38	GROUTED RIPRAP, 100#	SQ. YD.	115		
39	8" SDR 26 PVC SEWER PIPE (0'-6')	LIN. FT.	350		
40	8" SDR 26 PVC SEWER PIPE (6'-8')	LIN. FT.	360		
41	8" SDR 26 PVC SEWER PIPE (8'-10')	LIN. FT.	142		
42	8" SDR 26 PVC SEWER PIPE (10'-12')	LIN. FT.	22		
43	48" PRECAST CONCRETE SEWER MANHOLE (0'-6')	EACH	4		
44	48" PRECAST CONCRETE SEWER MANHOLE (6'-8')	EACH	2		
45	48" PRECAST CONCRETE SEWER MANHOLE (8'-10')	EACH	1		
46	48" PRECAST CONCRETE SEWER MANHOLE (10'-12')	EACH	1		
47	6" SDR 26 PVC SEWER FORCE MAIN	LIN. FT.	433		
48	AIR/VACUUM SEWER RELEASE VALVE W/ CONCRETE ENCLOSURE	EACH	1		
49	180 gpm LIFT STATION, COMPLETE-IN-PLACE	EACH	1		
50	SELECT MATERIAL, CLASS 9; GROUP C, LVM	CU.YD.	2000		
				Total	

BID BOND

KNOW ALL MEN BY THESE PRESENTS: that we, the under signed,_____Principal, and _____as Surety, are hereby held and firmly bound unto_____as Owner in the penal sum of_____ for payment of which, well and truly made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 20__.

The Condition of the above obligation is such that whereas the Principal has submitted to a center BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the

LAKE FORGETFUL ROAD PROJECT

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year set forth above.

_____ (L.S.)
PRINCIPAL

_____
SURETY

BY: _____

IMPORTANT: Surety companies executing BONDS must appear on the Treasure Department's most current line (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this ___day of_____, 20___ by and between_____hereinafter called the CONTRACTOR, **CITY OF HATTIESBURG** hereinafter called the OWNER, Witnesseth that the Contractor and the OWNER, for the consideration hereafter named and agrees as follows.

ARTICLE 1: SCOPE OF WORK

The Contractor agrees to furnish all tools, labor, equipment, materials, and supplies required to be furnished, and perform all work required under and in accordance with the plans entitled

LAKE FORGETFUL ROAD

which are on file at the office of the OWNER, and the Specifications, Proposals, General and Special Conditions, attached hereto and made a part hereof as fully as though copied herein, under the direct supervision and to the entire satisfaction of the OWNER and in accordance with the Laws of the State of Mississippi.

ARTICLE 2: THE CONTRACT SUM

It is further agreed and understood by and between the parties hereunto that the OWNER agrees to pay and the Contractor agrees to accept full and final compensation for all work done under this agreement, the lump sum amount adjusted for variation of quantities at the unit prices named in the Proposal, which is hereto attached, such payment to be made in lawful money of the United States, at the time and in the manner hereinafter set forth.

ARTICLE 3: TIME OF COMPLETION

The Contractor agrees, for the consideration above expressed, to begin and complete the work within the time specified in the Proposal. If the Contractor fails to complete the work in the time specified, he shall pay the OWNER as **liquidated damages**, ascertained and agreed, and not in the nature of a penalty, the sum of **$___300.00___** for each day delayed, which shall be deducted from the final amount to be paid under the contract; provided that the extension of time with the waiver of liquidation damages may be granted as provided for in the Specifications.

ARTICLE 4: PROGRESS PAYMENTS

The owner agrees to make progress payments during the construction as provided herein as follows:

The ENGINEER will on or before the tenth (10th) day of each month make an estimate of the value of the work done, based on contract prices.

The OWNER agrees to pay the CONTRACTOR 100% of the value of the work done each month, less ten percent (10%) retainage until final acceptance of the work has been made).

ARTICLE 5: ACCEPTANCE AND FINAL PAYMENT

Upon receipt of written notice that the work is ready for final acceptance and inspection, the Engineer shall promptly make such inspection, and when he finds the work acceptable under the contract, and the contract fully performed, he shall promptly issue a final certificate, over his own signature, stating that the work provided for in this Contract has been completed and is accepted by him under the terms and conditions thereof. Then, the entire balance shall be due the Contractor within thirty (30) days the date of said final acceptance.

Before issuance of final certificate, the Contractor shall submit evidence satisfactory to the ENGINEER that all payrolls, materials, bills, and other indebtedness connected with the work have been paid.

The making and acceptance of the final payment shall constitute a waiver of all claims by the OWNER, other than those arising from unsettled liens, from faulty work or materials appearing within one (1) year after payment, or claims previously made and still unsettled.

If, after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor, and the Engineer, so certifies, the OWNER shall, upon certificate of the Engineer and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

ARTICLE 6: THE PERFORMANCE BOND

The Contractor agrees to furnish a bond, with an approved surety thereon guaranteeing the performance of this contract, in no less than one hundred percent (100%) of the amount of the Contract. Said Bond shall be conditioned on full and complete performance of the Contract, and for the payment of all labor and materials for a period of one (1) year after completion. The Surety on said Bond shall be a surety company of financial resources satisfactory to the OWNER and authorized to do business in the State of Mississippi.

ARTICLE 7: INSURANCE

The Contractor agrees to also carry Public Liability Insurance, Property Damage Insurance, and Workman's Compensation Insurance in amounts as required by the Specifications.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first written above.

OWNERS:

SEAL

City of Hattiesburg _____

BY _____

Title _____ ATTEST _____

CONTRACTOR:

SEAL

_____

BY _____

Title _____ ATTEST _____

PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: THAT WE, the Undersigned (hereinafter called the Principal), a corporation, partnership or individual duly unauthorized by law to do business as a construction contractor in the State of Mississippi, and _____of (herein called the Surety), a corporation duly authorized to do a surety business under the laws of the State of Mississippi, are held and firmly bound unto _____, (hereinafter called the Obligee), a _____Corporation existing under the laws of the State of Mississippi, in the penal sum of _____Dollars (_____) lawful money of the United States, for the payment of which well and truly to be made, the said Principal and the said Surety do hereby bind ourselves, our heirs, executors, administrators and assigns, jointly and severally, by these presents, as follows:

The Condition of this obligation is such that; whereas Principal by an instrument In writing attached here-to and bearing date of _____ has agreed with said Obligee to do all work necessary and to furnish labor, materials, tools, supplies and services to construct **LAKE FORGETFUL ROAD** as shown on Plans and specified thereby in the Specifications, Proposal and other Contract Documents hereto attached.

NOW THEREFORE, if said Principal shall well and truly in good, sufficient and workmanlike manner, and to the satisfaction of Obligee perform and complete the work required, and shall defend, indemnify and save harmless said Obligee against all damages, claims, demands, expense and charge of every kind (including claims of patent infringement) arising out of injury or damage to persons or property by reason or arising from any act, omission or neglect of said Principal, his agent, servants or employees with relation to said work; and shall pay all cost, charges, rentals and expenses for labor, material, supplies and equipment and deliver the said improvement to Obligee completed and ready for occupancy or operation, and free from all liens, encumbrances or claims for labor, material or otherwise; and shall pay all other expenses lawfully chargeable to Obligee by reason of any default or neglect of the said Principal in the relation of said agreement and said work, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said surety for value received hereby stipulates and agrees that no charge, extension of time, alteration or addition to the terms of the Contract, or the work to be performed hereunder, or the Specifications accompanying the same, shall in any way affect its obligation on this bond and does hereby waive notice of any change, extension of time, alteration or addition to the terms of the Contract, or to the work, or to the Specifications.

PROVIDEDFURTHER, that if Principal, his or its subcontractor or subcontractors fail to duly pay for any labor, materials, team hire, sustenance provisions or any other supplies or materials used or consumed by such Principal or his, their or its subcontractors in performance of the work contracted to be done, the Surety will pay the same in any amount not exceeding the sum specified in the bond, together with interest as provided by law.

IN WITNESS THEREOF: Said Principal and surety have hereunto set their hands and seals at _____ this _____ day of _____, 20__.

(SEAL)

_____
PRINCIPAL

WITNESSES:

_____
_____

_____
ADDRESS

_____
Name of person executing for Principal

_____
TITLE

_____
SURETY

_____
_____
ADDRESS

WITNESSES:

_____
_____

_____
Name of person executing for Surety

_____
TITLE

NOTICE OF AWARD

TO: _____

_____

_____

Project: LAKE FORGETFUL ROAD

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated_____, 20__, and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of $_____.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND, Payment BOND, and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 20__.

CITY OF HATTIESBURG
OWNER

BY: _____

TITLE: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by
This the _____ day of _____, 20___.
Title:_____
Name:_____

NOTICE TO PROCEED

TO: _____ DATE: _____

_____

_____

Project: LAKE FORGETFUL ROAD

You are hereby notified to commence WORK in accordance with the Agreement dated _____, 20__ on or before _____, 20__, and you are to complete the WORK within _____ consecutive calendar days thereafter. The date of completion of all WORK is therefore _____, 20__.

CITY OF HATTIESBURG
OWNER

BY: _____

TITLE: Mayor

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

_____This the____ day of _____, 20___.

Title:_____

Name: _____

GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS

Wherever used in these General Conditions or in the other Contract Documents, the following terms shall have the meaning indicated which shall be applicable to both the singular and plural thereof.

ACCEPTANCE: By the OWNER of the Work as being fully complete in accordance with the Contract Documents.

AGREEMENT: The written agreement between the OWNER and the CONTRACTOR covering the Work to be performed: the Contract Documents are attached to and made a part of the Agreement. Also designated as the Contract.

ADDENDA: Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawings and Specifications, by addition, deletions, clarifications or corrections.

APPLICATION FOR PAYMENT: The form furnished by the ENGINEER which is to be used by the CONTRACTOR in requesting progress payments and an affidavit of the CONTRACTOR that progress payments theretofore received from the OWNER on account of the WORK have been applied by the CONTRACTOR to discharge in full all of the CONTRACTOR'S obligations stated in prior Applications for Payment.

APPROVAL: Accept as satisfactory.

BID: The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

BIDDER: Any person, firm or corporation submitting a Bid for the Work.

BONDS: Bid, performance and payment bonds and other instruments of security furnished by the CONTRACTOR and his surety in accordance with the Contract Documents and in accordance with the law of the place of the project.

CHANGE ORDER: A written order to the CONTRACTOR signed by the OWNER authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time issued after execution of the Agreement.

CONTRACT DOCUMENTS: The Agreement, Addenda, Instruction's to Bidders, CONTRACTOR'S BID, the Bonds, the Notice of Award, these General Conditions, the Supplementary conditions, Special Conditions, Technical Conditions, the Specifications, Drawings and Modifications, and Notice to Proceed.

CONTRACT PRICE: The total moneys payable to the CONTRACTOR under the Contract Documents.

CONTRACT TIME: The number of calendar days stated in the Agreement for the completion of the Work.

CONTRACTING OFFICER: The owner (Grantee) - The individual who is authorized to sign the contract documents on behalf of the owner's governing body.

CONTRACTOR: The person, firm or corporation with whom the OWNER has executed the Agreement.

DAY: A calendar day of twenty-four hours measured from midnight to the next midnight.

DRAWINGS: The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by the ENGINEER and are referred to in the Contract Documents.

ENGINEER: The person, firm or corporation named as such in the Contract Documents.

FIELD ORDER: A written order issued by the ENGINEER which clarifies or interprets the Contract Documents in accordance with Paragraph 9.3 or orders minor changes in the Work in accordance with paragraph 10.2.

MODIFICATION: (a) A written amendment of the Contract Documents signed by both parties, (b) a Change Order (c) a written clarification or interpretation issued by the ENGINEER in accordance with paragraph 9.3 or (d) a written order for a minor change or alteration in the Work issued by the ENGINEER pursuant to paragraph 10.2. A modification may only be issued after execution of the Agreement.

NOTICE OF AWARD: The written notice by OWNER to the apparent successful Bidder stating that upon compliance with the conditions precedent to be fulfilled by him within the time specified, OWNER will execute and deliver the Agreement to him.

NOTICE TO PROCEED: A written notice given by OWNER to CONTRACTOR (with a copy to ENGINEER) fixing the date on which the Contract Time will commence to run and on which CONTRACTOR shall start to perform his obligations under the Contract Documents.

OWNER: A public body or authority, corporation, association, partnership, or individual for whom the Work is to be performed.

PROJECT: The entire construction to be performed as provided in the Contract Documents.

CONSTRUCTION OBSERVER
RESIDENT INSPECTOR
CONSTRUCTION INSPECTOR
PROJECT REPRESENTATIVE: An authorized representative of the ENGINEER assigned to observe the Work performed and materials furnished by the CONTRACTOR or such other person as may be appointed by the OWNER as his representative. The CONTRACTOR shall be notified in writing of the identity of this representative.

SHOP DRAWINGS: All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a Subcontractor, manufacturer, supplier or distributor and which illustrate the equipment, material or some portion of the Work and as required by the Contract Documents.

SAMPLES: Physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

SPECIFICATIONS: Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work.

SUBCONTRACTOR: An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.

SUBSTANTIAL COMPLETION: The stage in construction when a project can be utilized for the purposes for which it was intended. At substantial completion, minor items and items that are seasonally restricted need not be completed, but the items that affect operational integrity and function of the facility must be capable of continuous use.

SUPPLEMENTARY GENERAL CONDITIONS: Federal Conditions in effect at time of submission of Bid.

SUPPLIER: Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.

SPECIAL CONDITIONS: When included as a part of the Contract Documents, Special Conditions refer only to the Work under this Contract.

SURETY: The corporate body which is bound with the CONTRACTOR and which engages to be responsible for the CONTRACTOR and his acceptable performance of the Work.

WORK: Any and all obligations, duties and responsibilities necessary to the successful completion of the Project assigned to or undertaken by CONTRACTOR under the Contract Documents, including all labor, materials, equipment and other incidentals, and the furnishing thereof.

WRITTEN NOTICE: The term "Notice" as used herein shall mean and include all written notices, demands, instructions, claims, approvals, and disapprovals required to obtain compliance with Contract requirements. Written notice shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or to an authorized representative of such individual, firm or corporation, or if delivered at or sent by registered mail to the last business address known to him who gives the notice. Unless otherwise stated in writing, any notice to or demand upon the OWNER under this Contract shall be delivered to the OWNER through the ENGINEER.

ARTICLE 2 - PRELIMINARY MATTERS:

AWARD:

2.1 The award of the Contract, if it is awarded, will be to the lowest responsible, responsive Bidder. No Notice of Award will be given until the OWNER has concluded such investigations as he deems necessary to establish the responsibility, qualifications, and financial ability of the Bidders to do the Work in accordance with the Contract Documents to the satisfaction of the OWNER within the time prescribed. The OWNER reserves the right to reject the BID of any Bidder who does not pass such investigation to the OWNER'S satisfaction. In analyzing Bids, the OWNER may take into consideration alternates and unit prices, if requested by the Bid Form. If the Contract is awarded, the OWNER will issue the NOTICE of AWARD and give the successful Bidder a contract for execution within sixty (60) days after the opening of Bids.

EXECUTION OF AGREEMENT:

2.2 At least three counterparts of the Agreement and such other Contract Documents will be executed and delivered by CONTRACTOR to the OWNER within 10 working days or 15 calendar days of receipt from the OWNER.

FORFEITURE OF BID SECURITY:

2.3 Failure of the successful Bidder to execute and deliver the Agreement and deliver the required Bonds as stipulated in paragraph 2.2 shall be just cause for the OWNER to annul the Notice of Award and declare the Bid and any security therefore forfeited.

CONTRACTOR'S PRE-START REPRESENTATIONS:

2.4 CONTRACTOR represents that he has familiarized himself with, and assumes full responsibility for having familiarized himself with, the nature and extent of the Contract Documents, Work, Locality, and local conditions and will obey all federal, state, and local laws, ordinances, rules and regulations that may in any manner affect performance of the Work, and represents that he has correlated his study and observations with the requirements of the Contract Documents. CONTRACTOR also represents that he has studied all surveys and investigation reports of subsurface and latent physical conditions referred to in the Specifications and made such additional surveys and investigations as he deems necessary for the performance of the Work at the Contract Price in accordance with the requirements of the Contract Documents and that he has correlated the results of all such data with the requirements of the Contract Documents.

COMMENCEMENT OF CONTRACT TIME:

2.5 The Contract Time will commence to run no less than the 15 days after receipt by the CONTRACTOR of the Notice to Proceed.

STARTING THE PROJECT:

2.6 CONTRACTOR shall start to perform his obligations under the Contract Documents on the date when the Contract Time commences to run. No Work shall be done at the site prior to the date on which the Contract Time commences to run, except with the written consent of the OWNER.

BEFORE STARTING CONSTRUCTION:

2.7 Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. He shall at once report in writing to ENGINEER any conflict, error or discrepancy which he may discover; however, he shall be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Drawings or Specifications.

SCHEDULE OF COMPLETION:

2.8 Within ten (10) days after delivery of the Notice to Proceed by OWNER to CONTRACTOR, CONTRACTOR shall submit to ENGINEER an estimated progress schedule with earnings indicating the starting and completion dates of the various stages of the Work, and a preliminary schedule of Shop Drawing submissions. See paragraphs 6.22 through 6.26. The ENGINEER shall review and return this schedule or require revisions thereto within 14 days of its submittal. If there is more than one CONTRACTOR involved in a project, the responsibility for coordinating the Work of all CONTRACTORS shall be as provided in the Special Conditions.

2.9 Within twenty (20) days after delivery of the executed agreement by OWNER to CONTRACTOR, but before starting the Work at the site, a preconstruction conference will be held to review the above schedules, to establish procedures for handling shop drawings and other submissions and for processing Applications for Payment, and to establish a working understanding between the parties as to the project. Present at the conference will be the OWNER or his representative, ENGINEER, Resident Project Representatives, CONTRACTOR and his Superintendent.

QUALIFICATION OF SUBCONTRACTORS MATERIALMEN AND SUPPLIERS:

2.10 Within ten (10) working days after bid opening, the CONTRACTOR will (if required) submit to the OWNER and the ENGINEER for acceptance a list of the names of Subcontractors and such other persons and organizations (including those who are to furnish principal items of material or equipment) proposed for those portions of the Work as to which the identity of the Subcontractors and other person and organizations must be submitted as specified in the Contract Documents. Within thirty (30) working days after receiving the list, the ENGINEER will notify the CONTRACTOR in writing if either the OWNER or the ENGINEER, after due investigation, has reasonable objection to any Subcontractor, person or organization on such list. The failure of the OWNER or the ENGINEER to make objection to any Subcontractor, person or organization on the list within thirty days of receipt shall constitute an acceptance of such Subcontractor, person or organization. Acceptance of any such Subcontractor, person or organization shall not constitute a waiver of any right of the OWNER or the ENGINEER to reject defective Work, material or equipment, or Work, material or equipment not in conformance with the requirements of the Contract Documents.

ARTICLE 3 - CORRELATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS:

3.1 It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between the OWNER and the CONTRACTOR. They may be altered only by a Modification.

3.2 The Contract Documents are complementary; what is called for by one is as binding as if called for by all. If CONTRACTOR finds a conflict, error or discrepancy in the Contract Documents, he shall call it to the ENGINEER'S attention in writing at once and before proceeding with the Work affected thereby; however, he shall not be liable to OWNER or ENGINEER for his failure to discover any conflict, error or discrepancy in the Specifications or Drawings. The various Contract Documents shall be given precedence, in case of conflict, error or discrepancy, as follows: Agreement Modifications, Addenda, Special Conditions, and Instruction's to Bidders, General Conditions, Technical Specifications and Drawings.

3.3 The words "furnish, "furnish and install", "install", and "provide" or words with similar meaning shall be interpreted, unless otherwise specifically stated, to mean

"furnish and install complete in place and ready for service.

3.4 Miscellaneous items and accessories which are not specifically mentioned, but which are essential to produce a complete and properly operating installation, or usable structure or plant providing the indicated function, shall be furnished and installed without change in the Contract Price. Such miscellaneous items and accessories shall be of the same quality standards including material, style, finish, strength, class, weight and other applicable characteristics, as specified for the major component of which the miscellaneous item or accessory is an essential part, and shall be approved by the ENGINEER before installation. The above requirement is not intended to include major components not covered by or inferable from the Drawings and Specifications.

3.5 The Work of all trades under this Contract shall be coordinated by the CONTRACTOR in such a manner as to obtain the best workmanship possible for the entire Project, and all components of Work shall be installed or erected in accordance with the best practices of the particular trade.

3.6 Manufacturer's literature, when referenced, shall be dated and numbered and is intended to establish the minimum requirements acceptable. Whenever reference is given to codes or standard specifications or other data published by regulating agencies or accepted organizations, including but not limited to National Electrical Code, applicable State Building Code, Federal Specifications, ASTM Specifications, various institute specifications, and the like, it shall be understood that such reference is to the latest edition including addenda in effect on the date of Bid.

3.7 Brand names where used in the Technical Specifications, are intended to denote the standard of quality required for the particular material or product. The use of a brand name item is to set a standard of quality and is not intended to restrict the Contractor from offering an equal item from other source(s) of supply. The term "equal" or "equivalent" when used in connection with brand names, shall be interpreted to mean a material or product that is similar and equal in type, quality, size, capacity, composition, finish, color and other applicable characteristics to the material or product specified by trade name, and that is for the same use and capable of performing the same function, in the opinion of the ENGINEER, as the material or product so specified. Proposed equivalent items must be approved by ENGINEER before they are purchased or incorporated in the Work.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE CONDITIONS; REFERENCE POINTS:

Availability of Lands

4.1 The OWNER will furnish, as indicated in Contract Documents the lands upon which the Work is to be done, rights-of-way for access thereto, and such other lands which are designated for use of the CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the OWNER,

unless otherwise specified in the Contract Documents. Other access to such lands or rights-of-way for the CONTRACTOR'S convenience shall be the responsibility of the CONTRACTOR. The CONTRACTOR will provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.2 The OWNER will, upon request, furnish to the BIDDERS copies of all available boundary surveys.

Subsurface Conditions:

4.3 The CONTRACTOR acknowledges that he has investigated prior to bidding and satisfied himself as to the conditions affecting the Work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electric power, roads and uncertainties of weather, river stages, tides, water tables or similar physical conditions at the site, the conformation and conditions of the grounds, the character of equipment and facilities needed preliminary to and during prosecution of the Work. The CONTRACTOR further acknowledges that he has satisfied himself as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done on behalf of the OWNER on the site or any contiguous site, as well as from information presented by the Drawings and Specifications made a part of this Contract, or any other information made available to him prior to receipt of Bids. Any failure by the CONTRACTOR to acquaint himself with the available information will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the Work. The OWNER assumes no responsibility for any conclusions or interpretations made by the CONTRACTOR on the basis of the information made available by the OWNER.

Differing Site Conditions

4.4 (a) The CONTRACTOR shall promptly, and before such conditions are disturbed, notify the OWNER in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this contract, or (2) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract. The OWNER shall promptly investigate the conditions, and if he finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the contract modified in writing accordingly.

(b) No claim of the CONTRACTOR under this clause shall be allowed unless the CONTRACTOR has given the notice required in (a) above.

(c) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

ARTICLE 5 - BONDS AND INSURANCE:

Performance and Payment Bonds:

5.1 The contractor's attention is directed to the Information for Bidders.

Contractor's Liability Insurance:

5.2 The CONTRACTOR shall provide the OWNER with insurance certificates certifying that all required insurance is in force; and such insurance certificates shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without giving the OWNER advance notice by registered mail.

5.3 The CONTRACTOR agrees that if any part of the Work under the contract is sublet, he will require the Subcontractor(s) to carry insurance as required, and that he will require the Subcontractor(s) to furnish to him insurance certificates similar to those required by the OWNER in 5.1 above.

5.4 The CONTRACTOR agrees to add ENGINEER to insurance policy as additional insured.

Owner's Liability Insurance

5.4 The OWNER will be responsible for purchasing and maintaining his own liability insurance and, at his option, may purchase and maintain such insurance as will protect him against claims which may arise from operations under the Contract Documents.

Fire and Extended Coverage Insurance (Builders' Risk):

5.5 The CONTRACTOR shall maintain, as applicable, in an Insurance Company or Insurance Companies acceptable to the OWNER, Fire, Extended Coverage and Vandalism & Malicious Mischief Insurance on buildings and structures, while in the course of construction, including foundations, additions, attachments and all permanent fixtures belonging to and constituting a part of said buildings or structures. The policy or policies shall also cover machinery, if the cost of machinery is included in the Contract. The amount of insurance should at all times be at least equal to the actual cash value of the insured property. The policy shall be in the name of the OWNER and the CONTRACTOR, as their interests may appear, and shall also cover the interests of all Subcontractors performing work.

5.6 The CONTRACTOR shall provide the OWNER with satisfactory evidence certifying that the foregoing insurance is in force; and such evidence shall include provisions that the insurance shall not be canceled, allowed to expire or be materially changed without

giving the OWNER advance notice by registered mail.

Cancellation and Re-Insurance:

5.7 If any insurance should be canceled or changed by the insurance company or should any insurance expire during the period of this Contract, the CONTRACTOR shall be responsible for securing other acceptable insurance to provide the coverage specified in this section to maintain continuous coverage during the life of this Contract.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES:

Supervision and Superintendence:

6.1 The CONTRACTOR will supervise and direct the Work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work. (Copies of written communications given to the Superintendent shall be mailed to the Contractor's home or office.)

Labor, Materials and Equipment:

6.2 The CONTRACTOR will provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. He will at all times maintain good discipline and order at the site.

6.3 The CONTRACTOR will furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, local telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of the Work.

6.4 All materials and equipment will be new, except as otherwise provided in the Contract Documents. When special makes or grades of material which are normally packaged by the supplier or manufacturer are specified or approved, such materials shall be delivered to the site in their original packages or container with seals unbroken and labels intact.

6.5 All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator or processors, except as otherwise provided in the Contract Documents.

Materials, Equipment, Products and Substitutions:

6.6 Materials, equipment and products incorporated in the Work must be approved for use before being purchased by the CONTRACTOR. The CONTRACTOR shall submit to the ENGINEER a list of proposed materials, equipment or products, together with such samples as may be necessary for him to determine their acceptability and obtain his approval, within ninety (90) calendar days after award of Contract. No request for payment for "or equal" equipment will be approved until this list has been received and approved by the ENGINEER.

6.6.1 Whenever a material, article or piece of equipment is identified on the drawings or Specifications by reference to brand names or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the Contract Documents by reference to brand names or catalog number, and if, in the opinion of the ENGINEER, such material, article, or piece of equipment is of equal substance and function to that specified, the ENGINEER may approve its substitution and use by the CONTRACTOR. Incidental charges or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the Contract Price, or Contract Time.

6.6.2 No substitute shall be ordered or installed without the written approval of the ENGINEER who shall be the judge of equality.

6.6.3 Delay caused by obtaining approvals for substitute materials will not be considered justifiable grounds for an extension of construction time.

6.6.4 Should any work or materials, equipment or products not conform to requirements of the Drawings and Specifications or become damaged during the process of the Work, such Work or materials shall be removed and replaced, together with any work disarranged by such alterations, at any time before completion and acceptance of the Project. All such work shall be done at the expense of the CONTRACTOR. (See paragraph 7.10)

6.6.5 No materials or supplies for the Work shall be purchased by the CONTRACTOR or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the Seller. The CONTRACTOR warrants that he has good title to all materials and supplies used by him in the Work.

Concerning Subcontractors:

6.7 The CONTRACTOR will not employ any Subcontractor, other person or organization of the types referred to in paragraph 2.10 (whether initially or as a

substitute) against whom the OWNER or the ENGINEER may have reasonable objection, not will the CONTRACTOR be required to employ any Subcontractor against whom he has reasonable objection. The CONTRACTOR will not make any substitution for any Subcontractor who has been accepted by the OWNER and the ENGINEER, unless the ENGINEER determines that there is good cause for doing so.

6.8 The CONTRACTOR shall be fully responsible for all acts and omissions of his Subcontractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relationship between OWNER or ENGINEER and any Subcontractor or other person or organization having a direct contract with CONTRACTOR, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any Subcontractor or other person or organization, except as may otherwise be required by law. OWNER or ENGINEER may furnish to any Subcontractor or other person or organization, to the extent practicable, evidence of amounts paid to CONTRACTOR on account of specific Work done in accordance with the schedule of values.

6.9 The divisions and sections of the Specifications and the identifications of any drawings shall not control the CONTRACTOR in dividing the work among Subcontractors or delineating the Work to be performed by any specific trade.

6.10 The CONTRACTOR agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the OWNER.

6.11 All Work performed for the CONTRACTOR by a Subcontractor shall be pursuant to an appropriate agreement between the CONTRACTOR and the Subcontractor.

6.12 The CONTRACTOR shall be responsible for the coordination of the trades, Subcontractors and material men engaged upon his Work.

6.12.1 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the CONTRACTOR by the terms of these General Conditions and other Contract Documents insofar as applicable to the Work of Subcontractors, and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWNER may exercise over the CONTRACTOR under any provisions of the Contract Documents.

6.12.2 The OWNER or ENGINEER will not undertake to settle any differences between the CONTRACTOR and his Subcontractors or between Subcontractors.

6.12.3 If in the opinion of the ENGINEER, any Subcontractor on the project proves to be incompetent or otherwise unsatisfactory, he shall be replaced if and when directed in writing.

Patent Fees and Royalties:

6.13 The CONTRACTOR will pay all license fees and royalties and assume all costs incident to the use of any invention, design, process or device which is the subject of patent rights or copyrights held by others. He will indemnify and hold harmless the OWNER and ENGINEER and anyone directly or indirectly employed by either of them from and against all claims, damages, losses, and expenses (including attorneys' fees) arising out of any infringement of such rights during or after completion of the Work, and shall defend all such claims in connection with any alleged infringement of such rights.

6.14 The CONTRACTOR shall be responsible for determining the application of patent rights and royalties on materials, appliances, articles or systems prior to bidding. However, he shall not be responsible for such determination on systems which do not involve purchase by him of materials, appliances, and articles.

Permits:

6.15 The CONTRACTOR will secure and pay for all construction permits and licenses and will pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of his Bid. When such charges are normally made by the OWNER, there will be no charges to the CONTRACTOR. The OWNER shall assist the CONTRACTOR, when necessary, in obtaining such permits and licenses. The CONTRACTOR will also pay all public utility charges.

Laws and Regulations:

6.16 The CONTRACTOR will give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work. If the CONTRACTOR observes that the Specifications or Drawings are at variance therewith, he will give the ENGINEER prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate Modification. If the CONTRACTOR performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the ENGINEER, he will bear all costs arising wherefrom; however, it shall not be his primary responsibility to make certain that the Drawings and Specifications are in accordance with such laws, ordinances, rules and regulations.

Taxes:

6.17 Cost of all sales and other taxes for which the CONTRACTOR is liable under the Contract shall be included in the Contract Price stated by the CONTRACTOR.

Record Drawings:

6.18 The CONTRACTOR will keep one record copy of all Specifications, Drawings,

Addenda, Modifications, and Shop Drawings at the site in good order and annotated to show all changes made during the construction process. These shall be available to the Engineer and shall be delivered to him for the OWNER upon completion of the Project. It shall be used for this purpose only.

Safety and Protection:

6.19 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to:

6.19.1 All employees on the work and other persons who may be affected thereby.

6.19.2 All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site.

6.19.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

6.20 The CONTRACTOR will designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the CONTRACTOR'S superintendent unless otherwise designated in writing by the CONTRACTOR to the OWNER.

Emergencies:

6.21 In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the CONTRACTOR, without special instruction or authorization from the ENGINEER or OWNER, is obligated to act, at his discretion, to prevent threatened damage, injury or loss. He will give the ENGINEER prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved. If the CONTRACTOR believes that additional work done by him in an emergency which arose from causes beyond his control entitles him to an increase in the Contract Price or an extension of the Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

Shop Drawing and Samples:

6.22 After checking and verifying all field measurements, the CONTRACTOR will submit to the ENGINEER for review, in accordance with the accepted schedule of Shop Drawing submissions (see paragraph 2.9) copies (or at the ENGINEER'S option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of the CONTRACTOR. The data shown on the Shop Drawings will be

complete with respect to dimensions, design criteria, materials of construction and the like to enable the ENGINEER to review the information as required.

6.23 The CONTRACTOR will also submit to the ENGINEER for review, with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and stamped with the approval of the CONTRACTOR, identified clearly as to material, manufacturer, any pertinent catalog numbers and the use for which intended.

6.24 At the time of each submission, the CONTRACTOR will in writing call the ENGINEER'S attention to any deviations that the Shop Drawings or sample may have from the requirements of the Contract Documents.

6.25 The ENGINEER will review with reasonable promptness Shop Drawings and samples, but his review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The review of a separate item as such will not indicate review of the assembly in which the item functions. The CONTRACTOR will make any corrections required by the ENGINEER and will return the required number of corrected copies of Shop Drawings and resubmit new samples until the review is satisfactory to the ENGINEER. The CONTRACTOR shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections called for by the ENGINEER on previous submissions. The CONTRACTOR'S stamp of approval on any Shop Drawings or sample shall constitute a representative to the OWNER and the ENGINEER that the CONTRACTOR has either determined and verified all quantities, dimensions, field construction criteria, materials, catalogue numbers and similar data or he assumes full responsibility for doing so, and that he has reviewed or coordinated each Shop Drawings or sample with the requirements of the Work and the Contract Documents.

6.26 No Work requiring a Shop Drawing or sample submission shall be commenced until the submission has been reviewed by the ENGINEER. A copy of each Shop Drawing and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER.

6.27 The ENGINEER'S review of Shop Drawings or samples shall not relieve the CONTRACTOR from his responsibility for any deviations from the requirements of the Contract Documents unless the CONTRACTOR has in writing called the ENGINEER'S attention to such deviation at the time of submission and the ENGINEER has given written approval to the specific deviation, nor shall any review by the ENGINEER relieve the CONTRACTOR from responsibility for errors or omission in the Shop Drawings.

<u>Cleaning Up:</u>

6.28 Site. The CONTRACTOR shall clean up behind the Work as much as is reasonably possible as the Work progresses. Upon completion of the Work, and before acceptance of and final payment for the Project by the owner, the CONTRACTOR shall

remove all his surplus and discarded materials excavated material and rubbish from the roadways, sidewalks, parking areas, lawns and all adjacent property; shall clean his portion of Work involved in any building under this Contract, so that no further cleaning by the OWNER is necessary prior to his occupancy; shall restore all property, both public and private, which has been disturbed or damaged during the prosecution of the Work; and shall leave the whole in a neat and presentable condition.

6.29 Clean-up operations shall consistently be carried on by the CONTRACTOR at all times to keep the premises free from accumulation of waste materials and rubbish. Upon completion of the Work he shall remove all rubbish, tools, scaffolding, surplus materials, etc., and shall leave his work "broom clean", or its equivalent, unless more exactly specified elsewhere in the Contract. The General CONTRACTOR shall do the following special cleaning for all trades upon completion of the Work:

6.30 General. In case of dispute, the OWNER may remove the rubbish and charge the cost to the several contractors as the ENGINEER shall determine to be just.

Public Convenience and Safety:

6.31 The CONTRACTOR shall, at all times, conduct the Work in such a manner as to insure the least practicable obstruction to public travel. The convenience of the general public and of the residents along and adjacent to the area of the Work shall be provided for in a satisfactory manner, consistent with the operation and local conditions. "Street Closed" signs shall be placed immediately adjacent to the Work, in a conspicuous position at such locations as traffic demands. At any time that streets are required to be closed, the CONTRACTOR shall notify law enforcement agencies, fire departments, and parties operating emergency vehicles before the street is closed and again as soon as it is opened. Access to fire hydrants and other fire extinguishing equipment shall be provided and maintained at all times.

Sanitary Provisions:

6.32 The General CONTRACTOR shall furnish necessary toilet conveniences, secluded from public observation, for use of all personnel on the Work, whether or not in his employ. They shall be kept in a clean and sanitary condition and shall comply with the requirements and regulations of the Public Authorities having jurisdiction. He shall commit no public nuisance. Temporary sanitary facilities shall be removed upon completion of the Work and the premises shall be left clean.

Indemnification:

6.33 The CONTRACTOR will indemnify and hold harmless the OWNER and the ENGINEER and their agents and employees from and against all claims, damages, losses, and expenses including attorneys' fees arising out of or resulting from the performance of the Work, provided that any such claim, damage, loss, or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible

property (other than Work itself) including the loss of use resulting wherefrom and (b) is caused in whole or in part by any negligent act or omission of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

6.34 In any and all claims against the OWNER or the ENGINEER or any of their agents or employees, by any employee of the CONTRACTOR, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.33 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workmen's compensation acts, disability benefit acts or other employee benefit acts.

6.35 The obligations of the CONTRACTOR under paragraph 6.33 shall not extend to the liability of the Engineer's negligent acts, errors or omissions or those of his employees or agents.

Responsibility for Connecting to Existing Work:

6.36 It shall be the express responsibility of the CONTRACTOR to connect his Work to each part of the existing work or work previously installed as required by the Drawings and Specifications to provide a complete installation.

Work in Street, Highway and Other Rights-of-Way:

6.37 Excavation, grading, fill, storm drainage, paving and any other construction or installations in rights-of-way of streets, highways, public carrier lines, utility lines (either aerial, surface or subsurface), etc., shall be done in accordance with requirements of the special conditions. The OWNER will be responsible for obtaining all permits necessary for the work. Upon completion of the Work, CONTRACTOR shall present to ENGINEER certificates, in triplicate, from the proper authorities stating that the Work has been done in accordance with their requirements.

6.37.1 The OWNER will cooperate with the CONTRACTOR in obtaining action from any utilities or public authorities involved in the above requirements.

6.37.2 The ENGINEER shall be responsible for obtaining elevations of curbs and gutters, pavement, storm drainage structures, and other such items which must be established by governmental departments as soon as grading operations are begun on the site and, in any case, sufficiently early in the construction period to prevent any adverse effect on the Project.

Cooperation with Governmental Departments, Public Utilities, Etc:

6.38 The OWNER shall be responsible for making all necessary arrangements with governmental departments, public utilities, public carriers, service companies and

corporations owning or controlling roadways, railways, water, sewer, gas, electrical, telephone, and telegraph facilities such as pavements, tracks, piping, wires, cables, conduits, poles, guys, etc., including incidental structure connected therewith, that are encountered in the work in order that such items may be properly shored, supported and protected, or the CONTRACTOR may relocate them if he so desires. The CONTRACTOR shall give all proper notices, shall comply with requirements of such parties in the performance of his Work, shall permit entrance of such parties on the Project in order that they may perform their necessary work, and shall pay all charges and fees made by such parties for this work.

6.38.1 The CONTRACTOR'S attention is called to the fact that there may be delays on the Project due to work to be done by governmental departments, public utilities, and others in repairing or moving poles, conduits, etc. The CONTRACTOR shall cooperate with the above parties, in every way possible, so that the construction can be completed in the least possible time.

6.38.2 The CONTRACTOR shall have made himself familiar with all codes, laws, ordinances and regulations which in any manner affect those engaged or employed in the Work, or materials and equipment used in or upon the Work, or in any way affect the conduct of the Work, and no plea of misunderstanding will be considered on account of his ignorance thereof.

Use of Premises:

6.39 CONTRACTOR shall confine his apparatus, storage of materials, and operations of his workmen to limits indicated by law, ordinances, permits, and directions of ENGINEER and OWNER, and shall not unnecessarily encumber any part of site.

6.39.1 CONTRACTOR shall not overload or permit any part of any structure to be loaded with such weight as will endanger its safety, nor shall he subject any part of the Work to stresses or pressures that will endanger it.

6.39.2 CONTRACTOR shall enforce OWNER'S instructions in connection with signs, advertisements, fires and smoking.

6.39.3 CONTRACTOR shall arrange and cooperate with OWNER in routing and parking of automobiles of his employees, subcontractors and other personnel and in routing material delivery trucks and other vehicles to the Project Site.

Protection of Existing Property Improvements:

6.40 Any existing surface or subsurface improvements, such as pavements, curbs, sidewalks, pipes or utilities, footings or structures (including portions thereof), trees, and shrubbery not indicated on the Drawings or noted in the Specifications as being removed or altered shall be protected from damage during construction of the Project. Any such improvements damaged during construction of the Project shall be restored to a

condition equal to that existing at time of award of Contract.

Temporary Heat:

6.41 The General CONTRACTOR shall provide heat, fuel and services as necessary to protect all work and materials, within all habitable areas of permanent building construction, for all contracts against injury from dampness and cold until final acceptance of all work and materials for the Project, unless building is fully occupied by the OWNER prior to such acceptance, in which case the OWNER shall assume all expenses of heating from date of full occupancy. In areas outside those covered above, each prime contractor shall be responsible for providing such temporary heat, fuel and services as required to protect his work or shall make all necessary arrangements with the General CONTRACTOR for providing such temporary heat, fuel and services. Unless otherwise specifically permitted by Special Conditions, the permanent heating system shall not be used to provide temporary heat. CONTRACTOR'S proposed methods of heating shall be submitted for approval.

ARTICLE 7 - WORK BY OTHERS:

7.1 The OWNER may perform additional work related to the Project by himself, or he may let other direct contracts therefore which shall contain General Conditions similar to these. The CONTRACTOR will afford the other contractors who are parties to such direct contracts (or the OWNER, if he is performing the additional work himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of work, and shall properly connect and coordinate his Work with theirs.

7.2 If any part of the CONTRACTOR'S work depends for proper execution or results upon the work of any such other CONTRACTOR (or the OWNER), the CONTRACTOR will promptly report to the ENGINEER in writing any defects or deficiencies in such work that render it unsuitable for such proper execution and results.

7.3 The CONTRACTOR will do all cutting, fitting, and patching of his Work that may be required to make its several parts come together properly and fit it to receive or be received by such other work. The CONTRACTOR will not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of the ENGINEER and of the other contractors whose work will be affected.

7.4 If the performance of additional work by other contractors or the OWNER is not noted in the Contract Documents prior to the execution of the Contract, written notice thereof shall be given to the CONTRACTOR prior to starting any such additional work. If the CONTRACTOR believes that the performance of such additional work by the OWNER or others involves him in additional expense or entitles him to an extension of the Contract Time, he may make a claim therefore as provide in Articles 11 and 12.

7.5 Where practicable, the General CONTRACTOR shall build around the work of other

separate contractors or shall leave chases, slots and holes as required to receive and to conceal within the general construction work the work of such other separate contractors as directed by them. Where such chases, slots, etc., are impracticable, the work shall require specific approval of the ENGINEER.

7.6 Necessary chases, slots and holes not built or left by the General CONTRACTOR shall be cut by the separate contractor requiring such alterations after approval of the General CONTRACTOR. The General CONTRACTOR shall do all patching and finishing of his Work where cut by other contractors at the expense of such other contractors.

7.7 Cooperation is required in the use of site facilities and in the detailed execution of the Work. Each CONTRACTOR shall coordinate his operations with those of the other contractors for the best interest of the Work in order to prevent delay in the execution thereof.

7.8 Each CONTRACTOR shall keep himself informed of the progress of the work of other contractors. Should lack of progress or defective workmanship on the part of other contractors interfere with his operations, the CONTRACTOR shall notify the ENGINEER immediately. Lack of such notice to the ENGINEER will be construed as acceptance by the CONTRACTOR of the status of the work of other contractors as being satisfactory for proper coordination of his own work.

7.9 Each CONTRACTOR shall give notices of the progress of his work so as to allow other contractors adequate opportunity to properly direct and coordinate their work. The General Contractor shall give notices of the progress of his Work so that work of other contractors, when required to be concealed, may be placed before the general construction Work. All such notices shall be submitted to the ENGINEER with copies to other prime contractors on the Project sufficiently ahead of job progress to permit adequate time for the other prime contractors to coordinate their work.

7.10 The cost of extra work resulting from lack of notices, untimely notices, failure to respond to notices, defective work or lack of coordination shall be borne by the CONTRACTOR responsible for such lack of notices, etc.

ARTICLE 8 - OWNER'S RESPONSIBILITIES:

8.1 The OWNER will issue all communications to the CONTRACTOR through the ENGINEER.

8.2 In case of termination of the employment of the ENGINEER, the OWNER will appoint an engineer against whom the CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER. Any dispute in connection with such appointment shall be subject to arbitration, if mutually agreeable.

8.3 The OWNER will furnish the data required of him under the Contract Documents

promptly and shall make payments to the CONTRACTOR promptly after they are due as provided in Article 14.

8.4 OWNER'S duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1, 4.4 and the Special Conditions. Paragraphs 4.2 and 4.3 refer to OWNER'S identifying and making available to CONTRACTOR copies of surveys and investigation reports of subsurface and latent physical conditions at the site or otherwise affecting performance of the Work which have been relied upon by ENGINEER in preparing the Drawings and Specifications.

8.5 The OWNER'S responsibilities in respect of liability and property insurance are set forth in paragraph 5.4.

8.6 In addition to his rights to request changes in the Work in accordance with Article 10, the OWNER (especially in certain instances as provided in paragraph 10.4) will be obligated to execute Change Orders.

8.7 In connection with the OWNER'S right to stop Work or suspend Work; see paragraph 15.1. Paragraph 15.3 deals with the OWNER'S right to terminate services of the CONTRACTOR under certain circumstances.

8.8 The OWNER shall have the right to take possession of and use any completed or partially completed portions of the Work, notwithstanding the fact that the time for completing the entire Work or any portion thereof may not have expired; but such taking possession and use shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the Work, the CONTRACTOR shall be entitled to such extra compensation or extension of time or both, except by prior agreement, as the ENGINEER may determine. See paragraph 14.11.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION:

Owner's Representative:

9.1 The ENGINEER shall be the OWNER'S representative during the construction period. The duties and responsibilities and the limitations of authority of the ENGINEER as the OWNER'S representative during construction are set forth in Articles 1 through 17 of these General Conditions and shall not be extended without written consent of the OWNER and the ENGINEER.

9.1.1 The ENGINEER'S decision, in matters relating to aesthetics shall be final, if within the terms of the Contract Documents.

9.1.2 Except as may be otherwise provided in this contract all claims, counter-claims, disputes and other matters in question between the OWNER and the CONTRACTOR

arising out of or relating to this agreement or the breach thereof will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the State in which the OWNER is located.

Visits to Site:

9.2 The ENGINEER will make periodic visits to the site to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents. He will not be required to make continuous on-site observations to check the quality or quantity of the Work. His efforts will be directed toward ascertaining on behalf of the OWNER that the completed Project will conform to the requirements of the Contract Documents. On the basis of his on-site observations as an experienced and qualified design professional, he will keep the OWNER informed of the progress of the Work and will endeavor to guard the OWNER against defects and deficiencies in the Work of contractors.

Clarifications and Interpretations:

9.3 The ENGINEER will issue with reasonable promptness such written clarification or interpretations of the Contract Documents (in the form of Drawings or otherwise) as he may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. If the Contractor believes that a written clarification and interpretation entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

Measurement of Quantities:

9.4 All Work completed under the Contract will be measured by the ENGINEER according to the United States Standard Measures. All linear surface measurements will be made horizontally or vertically as required by the item measured.

Rejecting Defective Work:

9.5 The ENGINEER will have authority to disapprove or reject Work which is "defective" (which term is hereinafter used to describe Work that is unsatisfactory, faulty or defective, or does not meet the requirements of any inspection, test or approval or has been damaged prior to final acceptance). He will also have authority to require special inspection or testing of the Work whether or not the Work is fabricated, installed or completed.

Shop Drawings, Change Orders and Payments:

9.6 In connection with the ENGINEER'S responsibility as to Shop Drawings and samples, see paragraphs 6.22 through 6.27, inclusive.

9.7 In connection with the ENGINEER'S responsibility for Change Orders; see Articles 10, 11, and 12.

9.8 In connection with the ENGINEER'S responsibilities in respect of Application for Payment, etc., see Article 14.

Resident Project Representative:

9.9 The OWNER or the ENGINEER will provide on-site representation sufficient to guarantee that construction is in general compliance with the construction drawings and the contract specifications.

Decisions on Disagreements:

9.10 The ENGINEER will be the initial interpreter of the terms and conditions of the Contract Documents and the judge of the performance hereunder. In his capacity as interpreter and judge, he will exercise his best efforts to insure faithful performance by both the OWNER and the CONTRACTOR. He will not show partiality to either and shall not be liable for the result of any interpretation or decision rendered in good faith. Claims, disputes and other matters relating to the execution and progress of the Work or the interpretation of or performance under the Contract Documents shall be referred initially to the ENGINEER for decision; which he shall render in writing within a reasonable time.

9.11 Either the OWNER or the CONTRACTOR, if the other agrees, may request legal action with respect to any such claim, dispute or other matter that has been referred to the ENGINEER, except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.11, such legal action to be in accordance with Article 16. However, no request for legal action of any such claim, dispute or other matter shall be made until the earlier of (a) the date on which the ENGINEER has rendered his decision or (b) the tenth day after the parties have presented their evidence to the ENGINEER if he has not rendered his written decision before that date. No request for legal action shall be made later than thirty (30) days after the date on which the ENGINEER rendered his written decision in respect of the claim, dispute or other matter as to which legal action is sought; and the failure to request legal action within said thirty (30) days period shall result in the ENGINEER'S decision being final and binding upon the OWNER and the CONTRACTOR. If the ENGINEER renders a decision after legal proceedings have been initiated, such decision may be entered as evidence but shall not supersede the legal proceedings, except where the decision is acceptable to the parties concerned.

Limitations on Engineer's Responsibilities:

9.12 Neither the ENGINEER'S authority to act under this Article 9 nor any decision made by him in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the ENGINEER to the CONTRACTOR, any Subcontractor,

any of their agents or employees or any other person performing any of the Work.

9.13 The ENGINEER will not be responsible for the construction means, methods, techniques, sequences or procedures, or the safety precautions and programs incident thereto, and he will not be responsible for the CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

9.14 The ENGINEER will not be responsible for the acts or omissions of the CONTRACTOR, or any Subcontractors, or any of his or their agents or employees, or any other person performing any of the Work.

ARTICLE 10 - CHANGES IN THE WORK:

10.1 Without invalidating the Agreement, the OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work; these will be authorized by Change Orders. Upon receipt of a Change Order, the CONTRACTOR will proceed with the Work involved. All such Work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, an equitable adjustment will be made as provided in Article 11 or Article 12. A Change Order signed by the CONTRACTOR indicates his agreement therewith.

10.2 The ENGINEER may authorize minor changes or alterations in the Work not involving extra cost and not inconsistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order. If the CONTRACTOR believes that any minor change or alteration authorized by the ENGINEER entitles him to an increase in the Contract Price or extension of Contract Time, he may make a claim therefore as provided in Articles 11 and 12.

10.3 Additional Work performed by the CONTRACTOR without authorization of a Change Order will not entitle him to an increase in the Contract Price or an extension of the Contract Time, except in the case of an emergency as provided in paragraph 6.21 and except as provided in paragraph 10.2.

10.4 The OWNER will execute appropriate Change Orders prepared by the ENGINEER covering changes in the Work to be performed as provided in paragraph 4.4, and Work performed in an emergency as provided in paragraph 6.21 and any other claim of the CONTRACTOR for a change in the Contract Time or the Contract Price which is approved by the ENGINEER.

10.5 It is the CONTRACTOR'S responsibility to notify his surety of any changes affecting the general scope of the Work or change in the Contract Price and the amount of the applicable bonds shall be adjusted accordingly. The CONTRACTOR will furnish proof of such adjustment to the OWNER.

ARTICLE 11 - CHANGE OF CONTRACT PRICE:

11.1 The Contract Price constitutes the total compensation payable to the CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the CONTRACTOR shall be at his expense without changing the Contract Price.

11.2 (a) The OWNER may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make any change in the Work within the general scope of the contract, including but not limited to changes:

(1) In the specifications (including drawings and designs);
(2) In the method or manner of performance of the work;
(3) In the Owner-furnished facilities, equipment, materials, services, or site; or
(4) Directing acceleration in the performance of the work.

(b) Any other written order or an oral order (which terms as used in this paragraph (b) shall include direction, instruction, interpretation or determination) from the OWNER, which causes any such change, shall be treated as a change order under this clause, provided that the CONTRACTOR gives the OWNER written notice stating the date, circumstances, and source of the order and that the CONTRACTOR regards the order as a change order.

(c) Except as herein provided, no order, statement, or conduct of the OWNER shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment hereunder.

(d) If any change under this clause causes an increase or decrease in the CONTRACTOR'S cost of, or the time required for, the performance of any part of the work under this contract, whether or not changed by any order, an equitable adjustment shall be made and the contract modified in writing accordingly: PROVIDED, HOWEVER, that except for claims based on defective specifications, no claim for any change under (b) above shall be allowed for any costs incurred more than 20 days before the CONTRACTOR gives written notice as therein required. And provided further, that in the case of defective specifications for which the OWNER is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the CONTRACTOR in attempting to comply with such defective specifications.

(e) If the CONTRACTOR intends to assert a claim for an equitable adjustment under this clause, he must, within 30 days after receipt of a written change order under (a) above or the furnishing of a written notice under (b) above, submit to the OWNER a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the OWNER. The statement of claim hereunder may be included in the notice under (b) above.

(f) No claim by the CONTRACTOR for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

11.3 The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

11.3.1 Where the Work involved is covered by unit prices contained in the Contract

Documents by application of unit prices to the quantities of the items involved. Should the Work (by quantity) be increased or decreased by 15 per cent from that stipulated in the Contract Documents, the OWNER and the CONTRACTOR may request adjustment of the unit prices by negotiation. If negotiation fails to reach agreement, then either party may request arbitration for the volume in excess of the 15 per cent differential.

11.3.2 By negotiated lump sum.

11.3.3 The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the work plus a fixed amount to be agreed upon to cover the cost of general overhead and profit to be negotiated.

11.4 The term Cost of the Work means the sum of all costs necessarily incurred and paid by the CONTRACTOR in the proper performance of the Work. Except as otherwise maybe agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 11.5:

11.4.1 Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to salaries and wages plus the costs of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workmen's compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Sunday or legal holidays shall be included in the above to the extent authorized by OWNER.

11.4.2 Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and manufacturer's field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

11.4.3 Payments made by CONTRACTOR to the Subcontractors for Work performed by

Subcontractors. If required by OWNER, CONTRACTOR shall obtain competitive bids from Subcontractors acceptable to him and shall deliver such Bids to OWNER who will then determine with the advice of ENGINEER, which Bids will be accepted. If a subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work plus a Fee, the cost of the Work shall be determined in accordance with paragraphs 11.4 and 11.5.

11.4.4 Costs of special consultants (including but not limited to, engineers, architects, testing laboratories, surveyors, lawyers and accountants) employed for services specifically related to the Work.

11.4.5 Supplemental costs including the following:

11.4.5.1 The proportion of necessary transportation, travelling and subsistence expenses of CONTRACTOR'S employees incurred in discharge of duties connected with the Work.

11.4.5.2 Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workmen, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of CONTRACTOR.

11.4.5.3 Rentals of all construction equipment and machinery and the parts thereof whether rented from CONTRACTOR or other in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the cost of transportation, loading, unloading, installation, dismantling and removal thereof--all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall end when the use thereof is no longer necessary for the Work.

11.4.5.4 Sales, use or similar taxes related to the Work, and for which CONTRACTOR is liable imposed by any governmental authority.

11.4.5.5 Deposits lost for causes other than CONTRACTOR'S negligence, royalty payments and fees for permits and licenses. Costs for permits and licenses must be shown as a separate item.

11.4.5.6 Losses, damages and expenses, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the execution of, and to, the Work, provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of Work for the purpose of determining CONTRACTOR'S fee. If however, any such loss or damage requires reconstruction and CONTRACTOR is placed in charge thereof, he shall be paid for his services a fee proportionate to that

stated in paragraph 11.6.2.

11.4.5.7 The cost of utilities, fuel and sanitary facilities at the site.

11.4.5.8 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.

11.4.5.9 Cost of premiums for additional Bonds and Insurance required because of changes in the Work.

11.5 The term cost of the Work shall not include any of the following:

11.5.1 Payroll costs and other compensation of CONTRACTOR'S officers, executives, principals, (of partnership and sole proprietorships), general managers, engineers, architects, estimators, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in his principal or a branch office for general administration of the Work and not specifically included in the schedule referred to in subparagraph 11.4.1 -- all of which are to be considered administrative costs covered by the CONTRACTOR'S Fee.

11.5.2 Expenses of CONTRACTOR'S principal and branch offices other than his office at the site.

11.5.3 Any part of CONTRACTOR'S capital expenses, including interest on CONTRACTOR'S capital employed for the Work and charges against CONTRACTOR'S for delinquent payments.

11.5.4 Cost of premiums for all bonds and for all insurance policies whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except as otherwise provide in subparagraph 11.4.5.9.)

11.5.5 Costs due to the negligence of CONTRACTOR, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable including but not limited to, the correction of defective work, disposal of materials or equipment wrongly supplied and making good any damage to property.

11.5.6 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 11.4.

11.6 The CONTRACTOR'S Fee which shall be allowed to CONTRACTOR for his overhead and profit shall be determined as follows;

11.6.1 A mutually acceptable firm fixed price; or if none can be agreed upon,

11.6.2 A mutually acceptable fixed fee based on the estimate of the various portions of the Cost of the Work.

11.7 The amount of credit to be allowed by CONTRACTOR to OWNER for any such change which results in a net decrease in cost will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the net shall be computed to include overhead and profit, identified separately, for both additions and credits.

11.8 Whenever the cost of any Work is to be determined pursuant to paragraphs 11.4 and 11.5, CONTRACTOR will submit in form prescribed by ENGINEER an itemized cost breakdown together with supporting data.

11.9 Allowances: It is understood that the CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be done by such material men, suppliers, or Subcontractors and for such sums within the limit of the allowances as the ENGINEER may approve. Upon final payment, the Contract Price shall be adjusted as required and an appropriate Change Order issued. The CONTRACTOR agrees that the original Contract Price includes such sums as he deems proper for costs and profit on account of cash allowances. No demand for additional cost or profit in connection therewith will be allowed.

11.9.1 These allowances shall cover the cost to the CONTRACTOR less any applicable trade discount, of the materials and equipment required by the allowance delivered at the site, and all applicable taxes.

11.9.2 The CONTRACTOR'S costs for unloading and handling on site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Price and not in the allowance.

11.9.3 Whenever the cost, as described in 11.9.1 above, is more than or less than the allowance, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order will recognize changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses, except that whenever unit price allowances are stipulated for brick, the Change Order will not include any cost as described in 11.5 above.

ARTICLE 12 - CHANGE OF THE CONTRACT TIME:

12.1 The Contract Time may only be changed by a Change Order. Any claim for an extension in the Contract Time shall be based on written notice delivered to OWNER and ENGINEER within ten days of the occurrence of the event giving rise to the claim. Notice of the extent of the claim with supporting data shall be delivered within forty-five days of such occurrence unless ENGINEER allows an additional period of time to

ascertain more accurate data. All claims for adjustment in the Contract Time shall be determined by ENGINEER if OWNER and CONTRACTOR cannot otherwise agree. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.

12.2 The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of CONTRACTOR if he makes a claim therefore as provided in paragraph 12.1. Such delays shall include, but not be restricted to, acts or neglect by any separate contractor employed by OWNER, fires, floods, labor disputes, epidemics, abnormal weather conditions, or acts of God.

12.3 All time limits stated in the Contract Documents are of the essence of the Agreement. The provisions of the Article 12 shall not exclude recovery for damages (including compensation for additional professional services) for delay by either parties.

12.4 No claim for delay shall be allowed because of failure to furnish Drawings until two weeks after demand for such drawings and not then unless such claim be reasonable.

12.5 This article does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

ARTICLE 13 - GUARANTY:

13.1 The CONTRACTOR shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs or adjustments, in the Work that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

ARTICLE 14 - PAYMENTS AND COMPLETION:

Payments to Contractors:

14.1 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored

at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within thirty (30) days of presentation to him of an approved partial payment estimate, pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate. The OWNER may retain a portion of the amount otherwise due the CONTRACTOR. Except as State law otherwise provides, the amount the OWNER retains shall be limited to the following:

14.1.1 Withholding of not more than 10 per cent of the payment claimed until work is 50 per cent complete;

14.1.2 When Work is 50 per cent complete, reduction of the withholding to 5 per cent of the dollar value of all Work satisfactorily completed to date, provided that the CONTRACTOR is making satisfactory progress and there is no specific cause for greater withholding;

14.1.3 When the Work is substantially complete (operational or beneficial occupancy), the withheld amount shall be further reduced below 5 per cent to only that amount necessary to assure completion.

14.1.4 The OWNER may reinstate up to 10 per cent withholding if the OWNER determines, at its discretion, that the CONTRACTOR is not making satisfactory progress or there is other specific cause for such withholding.

Contractor's Warranty of Title:

14.2 The CONTRACTOR warrants and guarantees that title to all work, materials and equipment covered by an Application for Payment, whether incorporated in the Project or not, will have passed to the OWNER prior to the making of the Application for payment, free and clear of all liens, claims, security interests and encumbrances (hereafter in these General Conditions referred to as "Liens") and that no work, materials or equipment covered by an Application for Payment will have been acquired by the CONTRACTOR or by any other person performing the Work at the Site or furnishing materials and equipment for the Project, subject to an agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the CONTRACTOR or such other person.

Approval of Payments:

14.3 The ENGINEER'S approval of any payment requested in an Application for Payment shall constitute a representation by him to the OWNER, based on the ENGINEER'S on-site observations of the Work in progress as an experienced and

qualified design professional and on his review of the Application of Payment and the supporting data, that the Work has progressed to the point indicated; That, to the best of his knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents and any qualifications stated in his approval), and that the CONTRACTOR is entitled to payment of the amount approved. However, by approving any such payment, the ENGINEER shall not thereby be deemed to have represented that he made exhaustive or continuous on-site observations to check the quality or the quantity of the Work, or that he has reviewed the means, methods, techniques, sequences, and procedures of construction or that he has made any examination to ascertain how or for what purpose the CONTRACTOR has used the moneys paid or to be paid to him on account of the Contract Price, or that title to any Work, materials, or equipment has passed to the OWNER free and clear of any Liens.

14.4 The CONTRACTOR shall make the following certification on each request for payment:

"I hereby certify that the labor and materials listed on this request for payment has been used in the construction of this work or that all materials included in this request for payment and not yet incorporated into the construction are now on the site or stored at an approved location; and payment received from the last request for payment has been used to make payments to all first tier subcontractors and suppliers except as listed below."

14.5 The ENGINEER'S approval of final payment shall constitute an additional representation by him to the OWNER that the conditions precedent to the CONTRACTOR'S being entitled to final payment as set forth in paragraph 14.11 have been fulfilled.

14.6 The ENGINEER may refuse to approve the whole or any part of any payment if, in his opinion, he is unable to make such representations to the OWNER. He may also refuse to approve any such payment, because of subsequently discovered evidence or the results of subsequent inspections or tests nullify any such payment previously approved, to such extent as may be necessary in his opinion to protect the OWNER from loss because:

14.6.1 The Work is defective, or completed Work has been damaged requiring correction or replacement,

14.6.2 The Work for which payment is request cannot be verified,

14.6.3 Claims or Liens have been filed or there is reasonable evidence indicating the probable filing thereof,

14.6.4 The Contract Price has been reduced because of Modifications,

14.6.5 The OWNER has been required to correct defective Work or complete the Work in accordance with paragraph 13.1,

14.6.6. Of unsatisfactory prosecution of the Work, including failure to clean up as required by paragraphs 6.29 and 6.30,

14.6.7. Of persistent failure to cooperate with other contractors on the Project and persistent failure to carry out the Work in accordance with the Contract Documents,

14.6.8. Of liquidated damages payable by the CONTRACTOR or,

14.6.9. Of any other violation of, or failure to comply with, the provisions of the Contract Documents.

14.7 Prior to Substantial Completion, the OWNER, with the approval of the ENGINEER and with the concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the Work. Such use shall not constitute and acceptance of such portions of the Work.

14.8 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the Contract Documents. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the Work, or restoration of any damaged Work, except such as may be caused by agents or employees of the OWNER.

14.9 Upon completion and acceptance of the Work, the ENGINEER shall issue a certificate attached to the final payment request that the Work has been accepted by him under the conditions of the Contract Documents. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (30) days of completion and acceptance of the Work.

14.10 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the Work. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment

made under the Contract Documents by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

Acceptance of Final Payment as Release:

14.11 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this Work and for every act and neglect of the OWNER and others relating to or arising out of this Work. Any payment however, final or otherwise, shall not release the CONTRACTOR or his sureties from any obligations under the Contract Documents or the Performance Bond and Payment Bonds.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION:

Owner May Suspend Work:

15.1 The OWNER may, at any time and without cause, suspend the Work or any portion thereof for a period of not more than ninety days by notice in writing to the CONTRACTOR and the ENGINEER which shall fix the date on which Work shall be resumed. The CONTRACTOR will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if he makes a claim therefore as provided in Articles 11 and 12.

Work During Inclement Weather:

15.2 No Work shall be done under these Specifications except by permission of the OWNER when the weather is unfit for good and careful work to be performed. Should the severity of the weather continue, the CONTRACTOR, upon the direction of the OWNER, shall suspend all work until instructed to resume operations by the OWNER and the Contract Time shall be extended to cover the duration of the order. Work damaged during periods of suspension due to inclement weather shall be repaired and/or replaced by the CONTRACTOR. Any compensation for repairs or replacements shall be subject to approval of the OWNER.

Owner May Terminate:

15.3 If the CONTRACTOR is adjudged bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the CONTRACTOR or for any of his property; or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or similar laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to Subcontractors or for labor, materials or

equipment or he disregards laws, ordinances, rules regulations or orders of any public body having jurisdiction, or if he disregards the authority of the ENGINEER, or if he otherwise violates any provision of the Contract Documents, then the OWNER may without prejudice to any other right or remedy and after giving the CONTRACTOR and his surety seven days written notice, terminate the services of the CONTRACTOR and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the CONTRACTOR, and finish the Work by whatever method he may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR or the Surety will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER and incorporated in a Change Order.

15.4 Where the CONTRACTOR'S services have been so terminated by the OWNER, said terminations shall not affect any rights of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys by the OWNER due the CONTRACTOR will not release the CONTRACTOR from liability.

15.5 Upon seven days written notice to the CONTRACTOR and the ENGINEER, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the Project and terminate the Agreement. In such case, the CONTRACTOR shall be paid for all Work executed and any expense sustained plus a reasonable profit.

Removal of Equipment:

15.6 In the case of termination of this Contract before completion, for any cause whatever, the CONTRACTOR if notified to do so by the OWNER, shall promptly remove any part or all of his equipment and supplies from the property of the OWNER. Should the CONTRACTOR not remove such equipment and supplies, the OWNER shall have the right to remove them at the expense of the CONTRACTOR. Equipment and supplies shall not be construed to include such items for which the CONTRACTOR has been paid in whole or in part.

Contractor May Stop Work or Terminate:

15.7 If, through no act or fault of the CONTRACTOR, the Work is suspended for a period of more than ninety (90) days by the OWNER or under an order of court or other public authority, or the ENGINEER fails to act on any Application for Payment within thirty (30) days after it is submitted, or the OWNER fails to pay the CONTRACTOR any sum approved by the ENGINEER or awarded by court ruling within thirty (30) days of its approval and presentation, then the CONTRACTOR may, upon seven (7) days written notice to the OWNER and the ENGINEER, terminate the Agreement and recover from the OWNER payment for all Work executed and any expense sustained plus a reasonable profit. In addition and in lieu of terminating the Agreement, if the ENGINEER has failed

to act on an Application for Payment or the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon seven (7) days notice to the OWNER and the ENGINEER stop the Work until he has been paid all amounts then due.

Owner Furnished Equipment:

15.8 In case the OWNER furnishes equipment to the CONTRACTOR to install, but fails to deliver it to the CONTRACTOR as required and in case such failure causes the CONTRACTOR additional expense or need for extension of time, the CONTRACTOR may make such claims upon the OWNER and obtain adjustments as provided herein.

Liquidated Damages:

15.9 If the CONTRACTOR shall fail to complete the work within the contract time, or extension of time granted by the OWNER, then the CONTRACTOR will pay to the OWNER the amount for liquidated damages as specified in the Contract Documents for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the Contract Documents.

ARTICLE 16 - DISPUTE SETTLEMENT:

16.1 All claims, disputes and other matters in question arising out of, or relating to, this Agreement or the breach thereof except for claims which have been waived by the making or acceptance of final payment as provided by paragraph 14.11, shall be decided in a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS:

17.1 Whenever any provision of the Contract Documents requires the giving of written notice it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to him who gives the notice.

17.2 If the OWNER fails to make payment thirty (30) days after approval by the ENGINEER, in addition to other remedies available to the CONTRACTOR, there shall be added to each such progress payment, interest at 1% per month commencing on the first day after said payment is due and continuing until the payment is received by the CONTRACTOR.

17.3 All Specifications, Drawings and copies thereof furnished by the ENGINEER shall remain his property. They shall not be used on another Project, and, with the exception of those sets which have been signed in connection with the execution of the Agreement, shall be returned to him on request upon completion of the Project.

17.4 The duties and obligations imposed by these General Conditions, and the rights and remedies available hereunder, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 6.36 and 14.3 and the rights and remedies available to OWNER and ENGINEER there under, shall be in addition to, and shall not be construed in any way as a limitation of, any rights and remedies available by law, by special guarantee or by other provisions of the CONTRACT DOCUMENTS.

17.5 Should the OWNER or the CONTRACTOR suffer injury or damage to its person or property because of any error, omission or act of the other or of any of his employee or agents or others for whose acts he is legally liable, claim shall be made in writing to the other party within a reasonable time of the first observance of such injury or damage.

17.6 The CONTRACT DOCUMENTS shall be governed by the law of the place of the Project.

Progress Charts and Requirements for Overtime Work

17.7 The CONTRACTOR shall within 5 days or within such time as determined by the OWNER after date of commencement of work prepare and submit to the OWNER for approval a practicable schedule, showing the order in which the CONTRACTOR proposes to carry on the work, the date on which he will start the several salient features (including procurement of materials, plans and equipment) and the contemplated dates for completing the same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion at any time. The CONTRACTOR shall enter on the chart the actual progress at such intervals as directed by the OWNER and shall immediately deliver to the OWNER three (3) copies thereof. If the CONTRACTOR fails to submit a progress schedule within the time herein prescribed, the owner may withhold approval of progress payment estimates until such time as the CONTRACTOR submits the required progress schedule.

If, in the opinion of the OWNER, the CONTRACTOR falls behind the progress schedule, the CONTRACTOR shall take such steps as may be necessary to improve his progress and the OWNER may require him to increase the number of shifts, or overtime operations, days of work, or the amount of construction plant, or update the progress schedule to reflect increased production for meeting the completion date, or all of them, and to submit for approval such supplementary schedule or schedules in chart form as may be deemed necessary to demonstrate the manner in which the agreed rate of progress will be regained, all without additional cost to the OWNER.

Failure of the CONTRACTOR to comply with the requirements of the OWNER under this provision shall be grounds for determination by the OWNER that the CONTRACTOR is not prosecuting the work with such diligence as will insure completion within the time specified. Upon such determination the OWNER may terminate the CONTRACTOR'S right to proceed with the work or any separable part thereof in accordance with the clause of the contract entitled, "Termination for Default-Damages for Delay - Time

Extensions.

Should the Contractor fail to complete the work within the specified time, or within any extra time allowed under these specifications, a sum of money, determined by the following schedule, shall be deducted from any funds due the Contractor, the Owner shall have the right recover the said sum or sums from the Contractor or from the surety, or from both. The amounts of these deductions are to cover the liquidated damages to the Owner incurred by additional or other expenses due to the failure of the Contractor to complete the work or any part of the work within the time specified, and such deductions are not to be considered penalties.

The damages indicated above shall be considered as liquidated damages for the loss to the Owner on account of the expense due to the employment of Engineers and their assistants and to any others expenses incurred after the expiration of the Contract time as determined by the Engineer.

MEASUREMENT AND PAYMENT

Measurement and Payment for all bid items shall be in accordance with the Mississippi Standard Specifications for Road and Bridge Construction, 2004 edition.

1. Applicable Specifications

The Technical Specifications entitled Mississippi Standard Specifications for Road and Bridge Construction, 2004 Edition shall be the specifications applicable to this project except as for herein specified. Any testing required by those specifications for material submittal approval shall be the responsibility of the Contractor. The testing laboratory used by the Contractor shall be a laboratory certified by the Mississippi Department of Transportation and shall be approved by the Engineer. Any reference to Unit Item for pay shall be modified and paid based on the Measurement and Payment section of the specifications.

2. References Amended to mean Engineer

Any reference in the above mentioned specifications to Commission, Director, Chief Engineer, Testing Engineer, or Project Engineer shall be amended in these specifications to mean the Engineer, or his duly authorized representative, of the City of HATTIESBURG.

SANITARY SEWERAGE SYSTEMS

1.0 GENERAL

This item shall consist of furnishing all of the necessary materials, supervision, labor, tools, equipment and incidentals, and the installation of various types and sizes of sewer pipe and related items in accordance with the Contract Drawings and Specifications, as stated in the Proposal.

2.0 APPLICABLE PUBLICATIONS

The following publications form a part of this Specifications and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

A 139/139M Electric-Fusion (Arc) Welded Steel Pipe (HPS 4 inch and over).

A 252 Welded and Seamless Steel Pipe Piles.

C 31/C 31M Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field.

C 33 Specifications for Concrete Aggregate

C 39/C 39M Compressive Strength of Cylindrical Concrete Specimens.

D 1248 Polyethylene Plastics Extrusion Materials for Wire and Cable

D 1784 Rigid Poly(Vinyl Chloride)(PVC) Compounds and Chlorinated Poly (Vinyl Chloride)(CPVC) Compounds.

D 2412 Determination of External Loading Characteristics of Plastic Pipe by Parallel Plate Loading.

D 2922 Density of Soil and Soil Aggregate in place by Nuclear Methods (Shallow Depths).

D 3034 Specifications for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.

D 3212 Joints for Drain and Sewer Plastic Pipes using Flexible Elastomeric Seals.

F 477 Specifications for Elastomeric Seals (Gaskets) for Joining Plastic Pipe.

F 794 Poly (Vinyl Chloride)(PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

A21.10 Ductile Iron Fittings, 3 inch through 48 inch for Water and other Liquids.

A21.11 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

A21.50 Ductile Iron Pipe, Design Requirements

A21.51 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-lined Molds, for Water or other Liquids.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

C 104 Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water and Other Liquids.

C 106 Cast Iron Pipe Centrifugally Cast in Metal Molds, for water and other Liquids.

C 110 Ductile Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids.

C 111 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

C 151 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or other Liquids.

AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO)

T-88 Particle Size Analysis of Soils.

T-89 Determining the Liquid Limit of Soils.

T-90 Determining the Plastic Limit and Plasticity Index of Soils.

T-99 Moisture Density Relations of Soils Using a 5.5 lb. Rammer and 12 inch Drop.

T-191 Density of Soil In-Place by the Sand-Cone Method.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Standard Specifications for Road and Bridge Construction Current Edition.

3.0 SUBMITTALS

The following submittals shall be required for the respective materials used in the work. All submittals shall be submitted through the Contractor to the Engineer.

3.1 Ductile Iron Pipe: The following submittals shall be required for ductile iron pipe systems utilized on the project. The Contractor shall furnish manufacturer's certificates certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the submittals shall include the following:

A. Joints: The following shall be required for ductile iron joints.

1. Drawings or Manufacturer's Catalogue data indicating dimensions and tolerance.

2. Gaskets shall be tested in accordance with the respective standards as indicated in ANSI 21.11 and results shall be included in the submittals. Test shall be for similar materials on the gaskets and be not more than one year old.

3. Mechanical Joints: Should the Contractor elect to use mechanical joints in lieu of push-on joints, manufacturer's data shall be submitted in accordance with the "Special Requirements for the Mechanical Joint" as stated in ANSI 21.11 (AWWA C 111).

B. Ductile Iron Pipe Submittal Shall Include the Results of:

1. Tension Test
2. Impact Test
3. Low Temperature Impact Test

Sampling procedure shall be as indicated in ANSI 21.51.

3.2 PVC Pipe: The Contractor shall submit manufacturer's certificate certifying that the pipe and fittings conform to the requirements as specified hereinafter under Article 4.0, Materials. In addition, the Contractor shall submit the following:

A. PVC Piping: PVC Pipe shall be sampled, tested, and inspected in accordance with the provisions of ASTM D3034. Copies of test results shall be attached. Test results shall be similar material and not be more than one year old from the date of material delivery.

B. Joints: The following submittals shall be required for PVC joints.

1. Certificate with test results for joints for compliance to ASTM D 3212. Gaskets shall conform to ASTM F 477. Test results shall be for similar material and not be more than one year old.

4.0 MATERIALS

4.1 Gravity Sewer Pipe: Where the type of gravity sewer piping is not indicated on the

plans, the Contractor shall furnish polyvinyl chloride (PVC) pipe.

The Contractor shall be restricted to furnishing the exact type of pipe material where indicated on the Contract Drawings.

The Contractor shall be limited to the use of only one type of pipe (so selected by the Contractor and indicated on the Proposal Form) and shall not change the type of gravity sewer pipe except as follows:

1. Where indicated on the plans, or

2. If permitted in writing by the Engineer.

A. Ductile Iron Pipe: Ductile iron shall be designed in accordance with the latest revision of ANSI/AWWA C150/A21.50 for a minimum 50psi.

Ductile Iron Pipe shall be manufactured in accordance with the latest revision of ANSI/AWWA C151/A21.51. Each pipe shall be subjected to a hydrostatic pressure test of at least 500 psi at the point of manufacture.

Pipe shall be standard asphaltic coating on the exterior. Pipe shall also have a Protecto 401 lining on the interior.

The class or nominal thickness, net weight without lining, and casting period shall be clearly marked on each length of pipe. Additionally, the manufacturer's mark, country where cast, year in which the pipe was produced, and the letters "DI" or "Ductile" shall be cast or stamped on the pipe.

All pipe shall be furnished with Push-On Type Joints, such at Tyton or Fastite. Joints shall be in accordance with ANSI/AWWA C111/A21.11, of latest revision, and be furnished complete with all necessary accessories.

Fittings shall be ductile iron. Fittings shall conform to the latest revision of either ANSI/AWWA C600.

B. PVC Pipe : PVC gravity sewer pipe and fittings shall conform to the requirements of ASTM D 3034 with an SDR of 26 and a minimum stiffness of 46 lb./in. - in and 115 lb./in. - in, respectively. Joints for sewer pipe shall be either push-up or mechanical conforming to the requirements of ASTM 3212. Gaskets for sewer pipe shall conform to the requirements of ASTM F 477.

Approved adaptors shall be used for making connections between PVC pipe and concrete manholes.

C. Service Laterals: Service laterals for local services shall consist of fittings, pipe lengths, and connections of 6 inch or 4 inch pipe. The fittings, pipe lengths and plugs shall be of

the same material as the run pipe unless otherwise indicated on the Contract Drawings. The modified sewer tees shall be an integral part of the run pipe. The remainder of the branch shall consist of standard fittings (elbows, reducers, and lengths of pipe) in accordance with the manufacturer's standard products and as specified. Pipe lengths and joint connections shall meet the specified requirements for the type materials used.

All service lines shall extend a maximum of up to 5 feet from house fronts of residences and public buildings and up to the property lines of businesses.

4.2 Casing Pipe: Steel pipe utilized as casing at locations shown on the Contract Drawings shall be new round piling pipe conforming to the requirements of ASTM A 252 or A 139. Casing diameter shall be adequate to allow pushing of the specified diameter of sewer pipe or force main and make proper connections at the ends. Minimum Wall Thickness for steel casing is 0.25 inch. (Hwy) and 0.28 inch (RR).

4.3 Wash Gravel Bedding Material: Select Granular material for pipe bedding shall be coarse concrete aggregate. The coarse concrete aggregate shall conform to the gradation sizing Number 467 specified in Table 2 of ASTM Standard Specification C-33. (See Following Table:)

SIZE NO. 467

Nominal Size (Sieves w/Square Openings)	Percent Passing by Weight
2"	100
1 - ½"	95 - 100
3/4"	35 - 70
3/8"	10 - 30
No. 4	0 - 5

4.4 Stabilization Material: Stabilization Material shall be a pit run mixture of sand and gravel. The sand shall be hard, sharp and durable particles. All gravel shall pass a 1 - ½" sieve.

4.5 Clay Gravel Material: Clay Gravel Material shall meet MDOT Standards Class 6, Group C.

4.6 Concrete: Concrete shall be in accordance with the requirements of Technical Specifications - CONCRETE

4.7 Select Backfill: General : The select material shall be composed of a natural or artificial mixture of sand, silt, clay or soil binder or other material of satisfactory cementing value. The sand shall be hard, sharp, and durable particles, preferably siliceous. The binder shall be a grade

of clay or other material having satisfactory cementing qualities and shall be homogenous in character, free from vegetable matter, clay balls or other deleterious substances that cannot be classed as serviceable base material.

A. Gradation: Any coarse aggregate contained in the material shall pass the one and one-half (1-1/2), sieve and not more than thirty-five percent (35%) shall be retained in the Number 10 sieve. The plasticity index (P.I.) shall not exceed 12, nor shall the liquid limit exceed 30.

The composite selected sand-clay material passing the Number 10 sieve shall conform to the following minimum and maximum gradation limits:

Sieve	Percent Passing by Weight
Number 40	40 - 85
Number 60	30 - 70
Number 270	8 - 30
Silt (.05 to .005 mm)	3 - 15
Clay (Passing .005 mm)	3 - 15

4.8 Backfill: All other backfill shall consist of excavated material removed from the trench unless otherwise directed by the Engineer. CONTRACTOR shall separate poor and acceptable material during excavation. Failure to separate material shall require CONTRACTOR to furnish acceptable backfill at no additional cost to the project.

5.0 CONSTRUCTION:

5.1 Earthwork:

A. Site Preparation: Topsoil shall be stripped and stockpiled in accordance with Technical Specifications - Restoration of Roads, Driveways, Fences, Lawns, and other Grassed Areas.

All vegetation such as brush, heavy sod, heavy growth of grass, decayed vegetative matter, rubbish and any other unsuitable material within the area of trenching shall be stripped or otherwise removed before the trenching is started, and in no case shall such objectionable material be allowed in the trench.

Stripping operation shall be to a depth of not less than 6 inches in all cases.

B. Asphalt or Concrete Removal: Before trenching operations begin, the existing asphalt or concrete pavement shall be scored or cut to a proper depth to give a straight verticle edge when removed. The asphalt or concrete shall be disposed of offsite by the Contractor. While removing the asphalt or concrete in the trench line, never shall the adjacent asphalt be raised or pulled from its base.

C. Trenching: The Contractor shall determine all requirements for trench dimensions,

alignment, and grades. The trench shall be excavated in conformance with all federal, state and local regulations for the protection of the workmen. Shoring, sheeting and/or a moveable form shall be used as required to provide earth stability during the laying operations.

The final excavation of the trench for the pipe installation shall be a indicated on the Plans. Minor variations in horizontal (within the permanent easement) or vertical alignment during construction shall be made during construction (with the Engineer's approval) to facilitate ease of installation and operation (due to potential conflicts; i.e., utility conflict) at no additional cost to the Owner except for additional piping, if any. The trench from the top of the pipe down to the bottom of the bedding shall be of a consistent width as indicated on the plans. Should the excavated width of the trench be larger than the design width, the Engineer may direct that a higher type or class of bedding be used; or other adjustments be made to increase the load carrying capacity of the pipe.

The Contractor shall not excavate more trench in advance of pipe laying than is necessary to perform the work efficiently. No more than 100 feet of open trench shall be allowed unless approved by the Engineer.

Excavated material shall be placed in a manner that will not obstruct sidewalks, driveways, or other structures. Excavated material shall not be placed so as to surcharge the walls and jeopardize trench stability.

If adequate area is not available on the construction site, the CONTRACTOR will be required to stockpile material off site Owner shall not bear any additional expense.

Ledge Rock, bolders and large stones shall be removed to provide a minimum clearance of 4 inches (10 cm) below and on each side of all pipes.

D. Disposal: The Contractor shall satisfactorily dispose of all excess earth from excavations either in approved (by the Engineer) areas within the construction limits or away from the project in disposal sites obtained by the Contractor.

The Contractor will be permitted to mound excess earth over the trench to a maximum depth of 12 inches above the original ground surface or finished grade where the trench is located in unimproved property. Wasting of excess excavated material will not be permitted within any road ROW. All material within the construction limits shall be placed so that natural drainage is maintained and the surface shall be graded to a smooth and uniform appearance. The disposal of waste and excess excavating materials, including hauling, handling, grading, and surfacing shall be subsidiary obligation of the contractor and no separate payment will be made. Therefore, the cost of such work shall be included in the Contract Unit Price for installation of sewer pipe.

E. Dewatering: The site shall be kept free of surface water at all times. The Contractor shall install drainage ditches and dikes and shall perform all pumping and other work necessary to divert or remove rainfall and other accumulations of surface water from the excavations. The

diversion and removal of surface water shall be performed in a manner that will prevent the accumulation of water behind temporary structures or at any other locations within the construction area where it may be detrimental. The Contractor shall provide, install, and operate sufficient trenches, sumps, pumps, hoses, piping, well points, deep wells, etc., necessary to depress and maintain the ground water level at least one foot below the base of the excavation during all stages of construction operations. The ground water table shall be lowered in advance of excavation and maintained a minimum of one foot below the lowest excavation subgrade made until the structure has sufficient strength and weight to withstand horizontal and vertical soil and water pressures.

Where groundwater is encountered, the Contractor shall make the effort necessary to secure a dry trench bottom before laying pipe. In sandy and in other suitable type soils, dewatering shall be done by well pointing. If, in the opinion of the Engineer, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Engineer may order the Contractor to excavate below grade and place not less than 6 inches of graded crushed stone fill material over the trench bottom to form trench drains to suitably located sumps and to remove the water by bailing or pumping. The graded crushed stone fill material shall be placed at the Contractor's own expense and shall be of such depth that there shall be not water in bell holes at the time of coupling pipe. All costs of equipment, labor, and materials required for dewatering shall be included in the pipe laying operation.

F. Bedding: The Contractor shall satisfactorily shape the trench area (to specified line, grade and cross section) to receive bedding material. The bottom of the trench shall be undisturbed soil. Should the Contractor over excavate the trench without direction from the Engineer, the trench shall be brought up to grade with select backfill and compacted to at least 90% of maximum laboratory density as measured by AASHTO T 99. Such additional work and materials for over excavation without direction of the Engineer shall be at the expense of the Contractor.

Holes for the bells shall be provided at each joint in the subgrade or in the granular fill bedding material as required. The holes shall be no larger than necessary for joint assembly and assurance that the pipe barrel will lie flat on the material. The Contractor shall install the proper bedding for the respective type of pipe and depth of installation as shown in the details and schedules on the plans. When depths vary in a particular manhole run, the Contractor shall change bedding systems in accordance with the depth installation requirements.

1. Stabilization Materials: When the subgrade is found to be unstable or to include ashes, refuse, organic material, or other unsuitable material, the Engineer may direct that the subgrade be over excavated to remove such material. The depths of over excavation shall be as directed by the Engineer. Stabilization material shall be placed into the over excavated area of the trench and shall be paid for in accordance with these specifications. Stabilization shall be compacted to at least 90% of maximum laboratory density in six inch lifts.

2. Bedding Materials: As detailed in the plans, bedding material shall be placed to the

specified depth below the pipe and tamped to a minimum of 90% of maximum laboratory density as determined in accordance with AASHTO T 99. Following placement of pipe, additional bedding material shall be placed and consolidated under the haunches of the pipe. Special tools shall be required to work the material into place and leave no voids beneath the pipe. The bedding material shall be tamped along the spring line (or along the top of the bedding material as indicated) of the pipe to sufficiently compact the material insofar as practical.

The Engineer may direct additional moisture be added to the bedding material to aid in the compaction effort. Mechanical tampers may be employed to aid the process. Depending on the particular bedding required , additional bedding shall be added and tamped to a minimum of 90% of maximum laboratory density, with AASHTO T-99.

3. Select Backfill: Select backfill shall be placed in 6 inch lifts and tamped to a minimum laboratory density with AASHTO T-99. Overall depth of the select backfill shall be as directed by the Engineer.

4. Normal Condition Bedding: Under normal conditions the trench bottom shall be undisturbed earth shaped to the specified line, grad, and cross section with proper bell holes at each joint to insure that pipe barrel lies flat on trench bottom. The bedding material will be selected native materials excavated from the trench and placed in two lifts. The first lift being placed up to the spring line of the pipe and extending out to the trench walls and hand tamped to a minimum of 90% of maximum laboratory density. Special care shall be used in placing and tamping bedding to insure no voids under the haunches of the pipe. The second lift shall extend to approximately 6" above pipe (Material permitting) and hand tamped to 90% density.

5. Backfilling: Upon completion of placement of select material the excavated materials shall be immediately placed back into the trench. Specific requirements are:

a Backfill requirements for road crossings, parking lots, driveways, and sidewalks shall be in accordance with Technical Specifications - RESTORATION OF ROADS, DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS.

b. Backfill requirements for unimproved areas (pastures, wooded areas) shall consist of placement and shaping of the soil in such a manner as to allow maximum natural consolidation. No compaction of the general backfill in the unimproved areas will be required, except that caused by conventional shaping equipment.

c. No debris shall be used as backfill which has a volume in excess of one-half of one cubic foot or a weight excess of 75 pounds.

6. Sheeting Removal: Wooden sheeting or other thick sheeting or shoring members which have been driven or otherwise placed along the trench walls to an elevation below the spring line of the pipe shall be cut off at the spring line or higher and left in place.

7. Grading and Grassing: Final grading and grassing shall be in accordance with Technical Specifications - RESTORATION OR ROADS, DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS.

5.2 PIPE HANDLING AND STORAGE: Pipe shall be handled, staked, and stored in accordance with manufacturer's printed literature. The Contractor shall provide security as required to prevent damage by vandals. PVC pipe shall be shaded from sunlight for extended lengths of time. Pipe damaged during storage and handling shall be rejected.

5.3 PIPE LAYING: Pipe laying shall proceed upgrade with the spigot ends of the bell-and-spigot pipe and tongue ends of the tongue and groove pipe jointing in the direction of flow. Each pipe shall be laid true to line and grade and in such a manner as to form a close concentric joint with the adjoining pipe and to prevent sudden offsets of the flow line. As the work progresses, the interior of the sewer shall be cleared of all dirt and superfluous materials of every description. Where cleaning after laying is difficult because of small pipe size, a suitable swab or drag shall be kept in the pipe and pulled forward past each joint immediately after the jointing has been completed. Trenches shall be kept free of water and pipe shall not be laid when the condition of the trench or the weather is unsuitable for such work. At times when work is not in progress, open ends of pipe and fittings shall be securely and satisfactorily closed so that no trench water earth, or other substance will enter the pipe or fittings.

Pipe laying shall be performed in such a manner that no foreign material enters the pipe. The Engineer may require that before lowering pipe, heavy canvas bags be placed over each end, and left in place until joints are ready to be made. If water is in the trench, the seals shall remain in place until the trench is pumped completely dry. If conditions are unsuitable, no pipe shall be laid until satisfactory laying conditions are obtained in accordance with the above specified requirements.

The Contractor shall utilize a commercial grade laser beam specifically manufactured to aid in maintaining grade and alignment of pipelines during installation. The primary unit shall be mounted on a heavy duty base and firmly anchored in the downstream manhole of the reach under construction. The maximum distance shall not exceed four hundred feet (400') per set-up.

Each joint of pipe shall be installed using an approved target to align the pipe with the projected laser beam. The methods and procedures shall be in strict accord with the manufacturer's recommendations and instructions. Proper ventilation shall be maintained at all times. Care shall be exercised in order to prevent bumping or misalignment of the projected bean. Sewer lines shall be laid such that the installed variation of invert elevations when compared with the construction plans does not exceed 0.05 feet. Sewer lines in which said variation exceeds 0.05 feet may be rejected. Sewer pipe shall be visually inspected for alignment by lamping, televising or by other appropriate means to determine alignment.

Whenever a movable steel box is used in place of sheeting, the Contractor shall take care to prevent the pipe from moving when the steel box is moved.

5.4 PIPE JOINTING: Piping shall be jointed in accordance with the manufacturer's printed recommendations. Gaskets shall be firmly set within the bells and grooves as required. The manufacturer's recommended lubricant or an approved equal shall be applied for slip type joints.

A. PVC Pipe Joint Construction: The bell and spigot ends of PVC sewer pipe shall be cleaned of all foreign material that could interfere with proper assembly of the joints. The spigot ends shall be cleaned one inch (1") beyond the joint assembly reference mark.

The spigot end of the pipe shall be thoroughly lubricated in accordance with the manufacturer's recommendations. The coating should be the equivalent of a brush coat of enamel paint and maybe applied by hand, cloth, pad sponge or glove.

The lubricated spigot end shall be inserted into the bell keeping the pipe length in proper alignment. The bell shall be braced while the spigot end is pushed in under the rubber ring, so that previously competed joints in the line will not be closed up. The spigot end shall be pushed into the bell until the reference mark is flush with the end of the bell.

Generally, the installation and jointing of PVC Pipe shall conform to the requirement so the latest edition of ASTM D-2321, "Underground Installation of Flexible Thermoplastic Sewer Pipe".

B. Ductile Iron Pipe Joint Construction: The installation and jointing of ductile iron pipe and shall generally conform to the applicable provisions of AWWA Standard Specifications C-600 for pipe laying.

Where mechanical joint pipe is used, the surfaces which come in contact with the gasket shall be thoroughly brushed with a wire brush just prior to assembly. The gasket should be brushed with soapy water prior to installation to remove loose dirt and to lubricate gasket as it is forced into its retaining space.

When tightening bolts, it is essential that the gland be brought up toward the pipe flange evenly. The bolts should be partially tightened; the bottom bolt first, then the top; next the bolts on either side; and last , the remaining bolts. Overstressing of bolts to compensate for poor installation will not be permitted. Bolt torque shall be in accordance with manufacturer's specifications.

All joints of whatever type shall be completely water tight after being subjected to the required tests.

C. Jointing Dissimilar Pipes: Suitable adaptor couplings are required for connecting dissimilar pipes. The couplings shall be approved by the Engineer before installation.

5.5 STREAM CROSSING: Ductile iron pipe Class 50 shall be used as shown on the

Drawings. Granular fill, concrete, and concrete collars shall be placed or constructed as shown on the contract drawings.

5.6 SERVICE LATERALS (LINES): Modified sewer tees shall be installed on the run pipe at the appropriate field locations. Service lines of the sizes specified shall be laid to a uniform grade so that the customer being served can be tied-in using good construction practices. All tamping and backfilling operations shall be performed the same as on main line pipe. Removable plugs shall be securely installed in pipe ends and a 2" x 2" treated post extending 12" above the ground line shall mark the pipe end location.

5.7 BORINGS: Borings shall be accomplished in accordance with Mississippi State Highway Department or Railway Standards. The contractor shall provide all necessary sheeting, bracing, cribbing, supports and appurtenances to insure the proper line and grade throughout the entire length of the crossing.

A. Casing Pipe: Casing Pipe shall be installed as indicated on the Contract Drawings. Joints shall be completely welded to provide structural integrity and shall be water tight.

B. Carrier Pipe: Carrier pipe may be any of the allowed options of piping. However, the piping and joints shall be capable of withstanding the stress exerted by pushing the pipe within the casing.

C. Carrier Pipe Supports: Supports for the carrier pipe shall be as recommended by the manufacturer for such installation. Supports shall be spaced to adequately support the piping under surcharged sewage conditions.

D. Casing Seal: The annulus between the casing and carrier pipe shall be sealed at each end with a quick setting grout.

5.8 RELATION TO WATER MAINS:

A. Horizontal Separation: Whenever possible, sewers should be laid at least 10 feet, horizontally, from any existing or proposed water main. Should local conditions prevent a lateral separation of 10 feet, a sewer may be laid closer that 10 feet to a water main if:

1. It is laid in a separate trench.

2. It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth.

3. In either case the elevation of the crown of the sewer is at least 18 inches below the invert of the water main.

B. Vertical Separation: Whenever sewers must cross under water mains, the sewer shall be

laid at such an elevation that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be buried to meet the above requirement, the water main shall be relocated to provide this separation or reconstructed with slip-on or mechanical-joint ductile iron pipe, or prestressed concrete cylinder pipe for a distance of 10 feet on each side of the sewer. One full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

C. Special Conditions: When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the water main should be constructed of slip-on or mechanical-joint ductile iron pipe. or prestressed concrete cylinder pipe and the sewer constructed of mechanical-joint ductile iron pipe and both services should be pressure tested to assure water tightness.

5.9 CONTINUATION OF SERVICE

The existing wastewater system shall remain in operation during the duration of the project. Should removal of facilities from operation become necessary, a plan which will avoid or minimize pollution effects on any receiving stream and provide alternate service for wastewater facilities shall be reviewed and approved in advance by the Mississippi Department of Environmental Quality and shall be adhered to during construction.

6.0 TESTING

6.1 Ductile Iron Pipe:

A. Field Inspection: The Engineer shall perform visual inspection of the material prior to placement by the Contractor. The Engineer may make non-destructive tests to determine the soundness of the pipe. The Contractor shall assist the Engineer in handling and moving the pipe as required.

B. Material Test: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittals. No other material test shall be required.

6.2 PVC PIPING: Material test shall be conducted during the manufacturing process and the results shall be included as part of the submittal. No other material test shall be required.

6.3 STEEL CASING PIPE: Material test shall be included as part the submittal. No other material test shall be required.

6.4. BEDDING MATERIAL AND STABILIZATION MATERIAL: Test for gradation and test for material passing the No. 40 sieve shall be as follows:

Gradation	-	AASHTO T 88
Liquid Limit	-	AASHTO T 89

Plasticity Index - AASHTO T 90

One set of each test listed above will be required for every 500 cubic yards or major fraction thereof.

6.5 COMPACTION TESTS: Compaction tests shall be performed in accordance with AASHTO T 191 or ASTM D 2922. Maximum compaction shall be determined in accordance with AASHTO T99. Compaction tests for sewer pipe related work shall not be less than as follows:

	(Number of Compaction Tests)	
	AASHTO T-191 or ASTM D 2922	AASHTO T-99
Select Backfill Material OR Stabilization Material One per 100 CY	1	
Bedding Material One per 600 LF	2	
Tamped Backfill One per 600 LF	2	

6.6 INFILTRATION/EXFILTRATION TEST: The Contractor shall provide all plugs, water supply, measuring devices, and all other equipment, material, labor and supervision to measure the infiltration and exfiltration tests as specified below. The Contractor shall perform the test in the presence of the Engineer. All gravity sewer pipe shall be tested in accordance with the following applicable requirements.

A. Infiltration Test: The infiltration test shall be conducted between adjacent manholes. The outlet pipe on the downstream manhole shall be plugged and tested for water tightness to the satisfaction of the Engineer. The accumulated depth of water in the downstream manhole shall be read at 12 hour intervals for two (2) days and the infiltration rate calculated from the data obtained. Any section exceeding an infiltration rate of 200 gallons/day/inch diameter/mile shall be relayed at the Contractor's expense. This means that the Contractor shall locate and repair leaks as necessary to pass the infiltration test. Infiltration test shall be utilized only when ground water is above pipe.

B. Exfiltration Test: The exfiltration test shall be conducted between adjacent manholes. The inlet pipes in the downstream and upstream manholes shall be plugged. The line being

MANHOLES

1.0 GENERAL:

This item shall consist of furnishing all materials, labor, supervision, tools, equipment and incidentals for the construction of standard manholes, in accordance with the Contract Drawings and Specifications. Included in the work are structural excavation, backfill, and disposal of excess material.

2.0 APPLICABLE DOCUMENTS:

The following publications form a part of this specification and where referred to by basic designation only, are applicable to the extent indicated. The latest editions of the publications referenced shall apply to the work.

American Society for Testing and Materials (ASTM)

A 48/A48M Standard Specification for Gray Iron Casting

C 39/C39M Standard Specification fo Test for Compressive Strength of Cylindrical Concrete Specimens

C 443 Standard Specification for Joints for Circular Concrete Pipe and Manholes Using Rubber Gaskets

C 478 Standard Specification for Precast Reinforced Concrete Manhole Sections

C 497 Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile

C 2922 Density of Soil and Soil Aggregate in Place by the Nuclear Method (Shallow Depths)

American Association of State Highway and Transportation Officials (AASHTO):

M-198 Standard Specifications for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

T-99 Standard Method of Test for the Moisture-Density Relations of Soils Using a (2.5kg) Rammer and (305 mm) Drop.

T-191 Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method.

3.0 SUBMITTALS

The following tests or data shall be submitted to the Engineer from the Contractor for approval prior to incorporation into the work:

3 .1 Certificates: The Contractor shall furnish certificates from supplier certifying the products conform to the required specifications included herein for the following items:

3.1.1. Flexible Plastic Gaskets
3.1.2. Precast Manhole Bases
3.1.3. Precast Manhole Riser Sections
3.1.4. Manhole Steps
3.1.5. Manhole Frames and Covers (ASTM A 48)
3.1.6. Epoxy Grout

3.2 Catalogue Cuts or Brochures: The Contractor shall also submit catalogue cuts or product brochures providing descriptive data, recommended application and use, and installation procedure for the following items:

3.2.1. Manhole Frames and Covers
3.2.2. Epoxy Grouts
3.2.3. Manhole Steps

4.0 MATERIALS

4.1 Manhole Riser Sections: Manhole riser sections shall be precast reinforced sections conforming to ASTM C 478 and as shown on the Contract Drawings.

4.2 Joints: Joints for precast riser sections shall be concrete pipe type flexible plastic gaskets. Joint material shall be preformed conforming the requirements of AASHTO M-198. Installation shall be in accordance with manufacturer's recommendations.

4.3 Concrete Manhole Bases: Concrete manhole bases shall be precast or cast-in-place as follows:

4.3.1 Cast-In-Place Manhole Bases and Box Type Bases (if used): Concrete and reinforcing steel shall conform to the requirements of Technical Specifications - CONCRETE.

4.3.2 Precast Concrete Bases: Precast concrete bases shall conform to the requirements of ASTM 478 with reinforcing steel (size and spacing as indicated on the plans).

4.4 Manhole Steps: Manhole steps shall be plastic coated corrosion resistant and shall be installed as shown on the Contract Drawings.

4.5 Cement Grout: Cement grout shall be high strength, non-metallic conforming to Corps of Engineers CRD-C-588. The grout shall be V-3 by W. R. Meadows, Inc., Masterflow 713 by Master Builders or equal.

4.6 Manhole Frame and Covers: Manhole frame and covers shall conform to ASTM A 48 as well as to the following requirements. All frame and covers shall be new when installed for the project.

4.6.1 Standard Manhole Cover and Frame - shall be as manufactured by Dews Foundry, Jackson Standard, Model DF-25 (7) or Vulcan Foundry, Model V-1115, 420 Pounds, marked "SEWER", domestic origin, or equal.

4.6.2 Water Tight Manhole Cover and Frame - shall be as manufactured by Vulcan Foundry, Model V2357, or Dews Foundry, Model DF-25(7)W.T., 410 pounds with neoprene gasket, four 5/8 inch stainless steel bolts recessed into cover. Cover labeled "SEWER", domestic origin, or approved equal.

4.7 Epoxy Grout: Epoxy Grout shall be high strength non-metallic, non-shrinking. The grout shall be as by EMBECO, Inc., SEAL-COAT or approved equal.

4.8 Drop Manholes: Concrete for drop manholes shall conform to the requirements of Technical Specifications - CONCRETE. Pipe and fittings shall be the same material and size as the incoming gravity sewer.

4.9 Flexible Connection: At all sewer connections to manholes, provide gasket flexible watertight connection that allows for differential settlement of the pipe and manhole wall.

4.10 All manholes: All manholes shall be lined inside with a sixteen (16) mil dry film thickness of an acceptable coal tax epoxy system.

5.0 CONSTRUCTION

5.1 Earthwork

5.1.1 General: Excavation shall be to the extent required to allow proper construction of the manhole. Shoring and sheeting shall be utilized where required by Federal, State and local codes and regulations for safe working conditions. In addition, shoring and sheeting shall be required to protect the integrity of adjacent structures or prevent adverse effects on surrounding areas. Dewatering shall be employed to the extent required to allow dry working conditions.

5.1.2 General Excavation: The Contractor shall "lay back" or employ shoring and

sheeting as required to assure stability of the excavation. Material shall be stockpiled so as not to surcharge adjoining pipe trenches. Topsoil shall be separated so as to allow the maximum reuse in grassing operations.

5.1.3 Structural Excavation: The area immediately beneath the manhole bases shall be graded and compacted. Compaction shall be to 96% of maximum laboratory density as determined by AASHTO T 99. Should unsuitable material be encountered, the Engineer may direct that the area be over excavated and filled with stabilization material. Specification for stabilization material and payment for such shall be in accordance with Technical Specifications.

5.1.4 Backfilling: Backfill material shall consist of select backfill in accordance with Technical Specifications. Backfilling shall be uniformly placed around the structure in 10-inch layers and be compacted to 90% of maximum density to full depth in unimproved areas. Backfill in paved areas and within five feet to any edge of pavement shall be compacted to 95% of maximum laboratory density in 8-inch layers to the subgrade line. Refer to Technical Sepcifications.

5.1.5 Salvage: Manhole frames and covers removed during excavation shall remain the property of the Owner and shall be delivered to a location designated by the Owner. All other items removed shall be disposed of by the CONTRACTOR at his expense.

5.2 Riser Installation: Precast concrete riser sections shall be installed plumb and in accordance with the details shown on the Contract Drawings. Joints shall be installed in accordance with manufacturer's recommendations.

The manhole invert channels shall be formed in the bases, smooth and semi-circular in shape conforming to the inside of the adjacent sewer section. Changes in the direction of flow shall be made with a smooth curve of as large a radius as the size of the manhole will permit. Changes in size and grade of the channels shall be formed directly in the concrete of the manhole base. The joint between the base and riser section shall be sealed with epoxy grout. Clean pea gravel shall be used as the epoxy grout filler.

Standard manhole cut-outs and lifting holes shall be sealed with epoxy grout.

5.3 Cast-In-Place Concrete: Bases, flat tops, and drop manhole risers shall be constructed in accordance with Technical specifications - CONCRETE.

5.4 Manhole Steps: Manhole steps shall be installed during the manufacturing of the riser or cone sections. Risers and cones shall be joined so the steps are vertically aligned.

5.5 Manhole Frame and Covers: Manhole frame and covers shall be set and grouted in place with cement grout. For manholes located in roads or streets, the manhole cover shall be flush with pavement or surface course.

6.0 TESTING

6.1 General: The Contractor shall conduct (and bear the cost of) all testing (Laboratory Approved by the Owner) as directed by the Engineer and furnish results of such tests prior to incorporating the material into the work. All testing is subsidiary to Manhole Payment Items.

6.1.1 Cast-In-Place Concrete Items: The concrete quality testing for manhole bases, drop manholes, and valve boxes shall be tested in accordance with Technical specifications - CONCRETE.

6.1.2 Manhole Risers and Precast Concrete Bases: Manhole risers and precast concrete bases shall be tested for concrete compressive strength. If the place of manufacture is local and reasonably available to the Engineer, Paragraph (a) shall be followed for testing requirements. Should the place of manufacture not be available, Paragraph (b) shall apply.

The contractor shall prepare (in the presence of the Engineer) standard rodded concrete cylinder or cylinders compacted and cured in a similar manner to the manhole sections. Concrete for such cylinders shall be typical fresh concrete mix drawn from the actual casting operation of a riser or base. Cylinders shall be tested in accordance with ASTM C 39. The average compressive strength shall be equal to or greater than the specified design strength (4000 psi). Not more than 10% of the cylinders shall fall below the design strength (4000 psi). In no case shall any cylinder tested fall below 3200 psi. Number of such cylinder tests shall be as follows:

6.1.2.1 One set of cylinders for each day's run castings or

6.1.2.2 One set of cylinders for each 200 linear feet of riser sections manufactured.

6.1.2.3 One set of cylinders per 20 bases or flat tops manufactured.

The Engineer may require additional tests should compressive test results fail.

6.1.3 Earthwork Test: Maximum laboratory density shall be measured in accordance with AASHTO T-99. Field densities shall be determined in accordance with AASHTO T-191 or ASTM D 2992. Standard proctors and field densities shall be performed in accordance with the following schedule.

Standard proctor tests shall be required for earthwork associated with manhole construction. At least two (2) field density tests shall be conducted for earth work associated with each manhole construction.

6.1.4 Inspection for Watertightness: All manholes shall be inspected for watertightness prior to placing into service.

tested shall be filled with water until water depth becomes two (2) feet above top of pipe being tested in the upstream manhole. The water loss shall be measured in the upstream manhole at 12 hour intervals for two (2) days and the exfiltration rate calculated from the data obtained. Any section exceeding an exfiltration rate of 200 gallons/day/inch diameter of pipe/mile shall fail the test. The Contractor shall locate and repair leaks as necessary to pass the exfiltration test. A low pressure air test conforming to ASTM C-828-80 or latest revision may be used in lieu of the exfiltration test.

6.7 DEFLECTION TESTS: 100% of the PVC gravity sewer shall be tested 30 days after the final backfill has been in place by the following method:

Use a "Go-, no-go" mandrel which is sized to such dimensions that it will not "go" when encountering a deflection greater than 5%. The instructions for its use are as follows:

A. Completely flush the line making sure the pipe is clean of any mud or debris that would hinder the passage of the mandrel.

B. During the final flushing of the line, attach a floating block or ball to the end of the mandrel, pull rope and float the rope through the line. (A) nylon ski rope is recommended)

C. After the rope is threaded through the line, connect the pull rope to the mandrel and place the mandrel in the entrance of the pipe.

D. Connect a retrieval rope to the back of the mandrel to pull it back if necessary.

E. By hand, remove all the slack in the pull rope and place a tape marker on the top at the end of the pipe where the mandrel will exit, determining the location of the mandrel in the line.

F. By hand, draw mandrel through the sewer lines. If any irregularities or obstructions are encountered in the line, they shall be corrected by the Contractor.

G. If a section with excessive deflection is found, locate it; dig down and uncover the pipe; if any damaged pipe is found, replace it; if pipe is not damaged, replace and thoroughly tamp haunching and initial backfill; replace remainder of backfill.

H. Re-test this section for deflection.

SECTION 33-15-15 SUBMERSIBLE PUMP SPECIFICATION

1.1 GENERAL

A. The contractor shall furnish and install submersible pumping units, complete with motor, equipped with cool agivent apparatus or approved equal. The pump shall be capable of continuously pumping with the liquid level at the top of the volute without overloading.

1.2 PUMP DETAIL

A. Pumps shall be rated for operating conditions as follows:

Qty	(2)
Model	4x12
GPM	120
TDH	35'
HP	5
RPM	1750
POWER	480 Volt, 3 Phase

1.3 PUMP CASINGS

A. The pumping casings shall be constructed of engineered cast iron and shall be completely clear from suction to discharge without coming into contact with the impeller. All internal case clearances shall be equal to discharge diameter so that large diameter solids and long length or stringy solids will pass through the pump with the greatest handling efficiency. The impeller shall be of 100% recessed design, with wear plate and shall be mounted in such a manner as to allow solids which enter the suction opening to leave the pump with minimal impeller contact. The solids or fluids being pumped shall not have to enter impeller in order to discharge. Impeller and wear plate shall conform to ASTM A-532 Type 2 material and shall be 25% chrome iron (no exception) with a minimum of 55 rockwell hardness. The impeller shall have 7 vanes, and encompass a lip on back shroud to increase the efficiency of the pump and allow impeller to have a "flywheel" effect. The impeller shall be attached to the shaft by a stainless steel bolt, stainless steel washer, stainless steel key, and "lock-tite"(or approved equal) applied to insure that impeller bolt will not back out if unit is operated backwards. Impeller shall be fastened to keyed motor shaft by means of a stainless steel threaded cap screw and washer. Before installation the impeller and wear plate shall be broken down and inspected by the engineer for compliance with the specifications.

B. Motor case and end brackets shall be cast iron. The motor shaft shall be one piece 416 stainless steel through both bearings with proper length to connect directly to pump impeller. Motor shall contain class b insulation with class f materials rated for continuous duty in 40 degree C liquid. Motor shall be sized so the nameplate horsepower is the actual continuous brake horsepower output without considering motor service factor. Motors shall be explosion proof containing underwriter's approved label.

C. Thrust bearing and radial bearing shall be anti-friction type ball bearings. Motor leads shall be joined to motor housing by the use of an epoxy mold in the motor end bracket. All exposed hardware shall be stainless steel. Motor shall utilize standard nema t-frame electrical components.

D. At the drive end the motor shall have a separate inner and outer seal with an oil filled chamber between the seals to provide complete protection for the motor windings. Each mechanical seal shall be constructed of the following parts: #420 stainless steel spring, ceramic cup, carbon washer and buna "n" bellows. A moisture sensing probe within the oil filled chamber shall be provided and connected to an alarm system, as shown on the drawings, to warn of impending seal failure. Overload protection of the thermal trip type shall be provided. "Quick trip" heater and motor thermal circuit shall be wired in series with starter coil.

E. Motor shall conform to the current issue of national electrical code, section 501-5, Para. (D) and section 501-8, Para. (A). All pumps, motors, fittings, accessories and controls shall be 100% American made.

1.4 GUIDE RAIL ASSEMBLY

A. The contractor shall furnish each pump with slide away coupling that are designed such that the pumping units can be removed from the wet well without entering the well or disconnecting the piping. The slide away coupling shall consist of a cast iron foot mounted discharge elbow with integral cast mounting base plate, sliding pump adapter, rail guides, lifting yoke and upper rail supports. All metal faces where movement can occur will be non-sparking. The slide away coupling is designed to conform to Underwriter’s Laboratory for use in Class I, Division I, Group D hazardous locations.

B. The guide rail pipes shall be 2" furnished by the contractor. Two guide rail pipes per pump are required.

SECTION 16050

PART 1 - BASIC ELECTRICAL MATERIALS AND METHODS

1.01 Related Work

A. Section 16060 – Grounding and Bonding
B. Section 16900 – Process Instrumentation and Control

1.02 ELECTRICAL SPECIFICATIONS: The electric supply will be 277/480 volts, three phase, four wire, 60 Hertz. The Contractor shall contact the power company prior to bidding and include in his bid the cost of labor and material necessary to supply the plant with electricity, including any cost which may be assessed by the power company for installation of power company furnished material. The Contractor shall coordinate all aspects of the construction concerning the electric service with the power company. The Approval Drawings shall include all details of the power company electric service and all associated equipment (to include all pole types and locations, switches, fuses, wire sizes and types, etc.) anywhere on the plant property.

1.03 TEMPORARY ELECTRIC SERVICE: The Temporary Electric Service for construction power shall be furnished, installed, and removed by the electrical contractor. Also, Contractor, shall make all necessary arrangements with the power company for metering and billing and provide for these charges and cost in his bid.

1.04 TESTING AND INSPECTIONS: Contractor shall assist in making periodic inspections or tests as required by the Engineer. When required, Contractor shall provide the assistance of foreman and qualified craftsmen for reasonable duration of each test, etc. Cooperate with other Contractors in preventing premature operation of equipment like water process equipment, etc., which should be first run in presence of personnel responsible for each item.

After wiring is completed, the Contractor shall test for shorts and open circuits, intentional and unintentional grounds. All shorts, open circuits, and unintentional grounds shall be corrected.

1.05 GUARANTEE: Workmanship and materials shall be guaranteed for period of one year from date of official acceptance of contract. Be responsible for any adjustments, replacements and corrections necessary to restore project to first-class condition if deficiency is due to faulty workmanship or materials.

1.06 CONDUIT SYSTEMS: Use galvanized or sheradized steel conduit in damp locations, exterior walls, exposed out of doors or when subject to mechanical damage after installation. Underground runs, use PVC, schedule 80 incased in concrete per NEMA standards and buried at required depth per NEMA standards. Provide electrical line red warning tape buried six (6) inches above conduit run. Protect conduits against entry of debris; keep ends capped during construction; clear or replace obstructed conduits.

Size and install conduits so that conductors may be installed without damage or excessive strain, using NEC as a minimum standard. For rigid conduit use double lock nut and bushings. For conduits larger than 1", use grounding type insulation bushing. Entire

conduit system shall provide a dependable path to ground. EMT fittings shall be watertight type, T&B 5100 series. Crimped or set screw types are not acceptable.

Ream ends after threading, make bends with an approved bending tool. Replace deformed bends or off-sets. Avoid hot water pipes, stay at least 3" from covering of hot pipes except as crossing, then at least 1".

1.07 **PULL BOXES AND JUNCTION BOXES**: Pull boxes shall be code gauge and size galvanized steel and shall be installed where accessible and in location shown on the drawings or where required to facilitate the easy pulling of wires. Boxes shall be sized properly for the conduits and wires entering them. In outdoor and process areas use weatherproof and corrosion resistant boxes.

1.08 **OUTLET BOXES**: On exposed conduit in process areas, use Crouse-Hinds No. FS or FD or other galvanized steel types. All boxes galvanized, or cadmium plated, or better.

1.09 **CONDUCTORS AND GENERAL WIRING METHODS**: Type THW 600-volt copper wire for general use and types THHN 600-volt copper for High Ambient Temperature; where Contractor sizes conduit based on conductor required, basis is type THW. Approved manufacturers, Triangle, General Cable, Collyer, National Electric Products, or approved equal. Size, type and trade name stamped permanently at regular intervals on all conductors. All wire shall be color coded.

Install wire in conduit after all work which may cause damage is completed. Powdered talc or other approved compound may be used as lubricant where necessary.

Make joints and splices in conductors with approved insulating type compression fittings, T&B, Sta-kon, or Buchanan splice caps. Wire-nuts are not acceptable.

1.10 **GROUNDING AND BONDING REQUIREMENTS**

In order to provide a safe and reliable system, all structures, piping, equipment and electrical services involved must be properly grounded and bonded to a properly sized and installed grounding electrode system.

All work will comply with every facet of the National Electric Code Article 250, current edition. Particular attention must be given to sections 250.56 and 250.58.

The article 250 requirement for a ground resistance of 25 ohms or less shall be considered as the minimum and a resistance of 4 ohms or less shall be the goal. This resistance will be measured with equipment using a three point resistance measurement and “fall of potential” system.

Ground and elevated water tanks are a major source of danger and damage due to lightning and transient voltages. Because of this, these structures will have as a minimum, a ground ring completely around the structure consisting of #2/0 bare copper wire and 10 foot long by ¾” diameter copper clad ground rods. The rods shall be spaced no more than 12 feet apart. There will be at least 4 radials to the tank legs or structure. All connections will be exothermic (Cadweld) performed by qualified personnel. All devices located at these tanks will be bonded to the ring.

All motor control centers and control panels shall have as a minimum, a ground ring near the structure or building consisting of #2/0 bare copper and 10 foot long by ¾" diameter copper clad ground rods. There will be at least three (3) ground rods spaced no more than twelve (12) feet apart to make a grounding "ring". All connections will be exothermic (Cadweld) performed by qualified personnel. All devices located near the structure or building shall be bonded to the ground ring.

Other structures will have a grounding system appropriate for the location per the National Electric Code article 250.

Conduit work, motors, panel boards and electrical equipment are to be effectively and permanently grounded. Feeder conduits shall provide a good path to system ground.

The grounding screw on all grounding type receptacles shall be securely grounded to the outlet box with lug and screw, or use self-grounding types.

Verify electrical continuity of all conduit runs and correct any discrepancies.

The Contractor shall be responsible for determining the extent of grounding and bonding requirements for equipment located at the site(s) covered under the contract(s) as listed herein. The Contractor shall provide for these charges, and cost in his bid.

1.11 **EXCAVATION AND BACKFILLING**: Excavate trenches for underground conduit or cable to required depth and width. After conduit of cable has been installed, inspected, and approved, backfill trench with earth free of trash, rock, brick and debris, and compact as required. Under slab, follow compaction rules for general work on this project. Underground workmanship applies under slab; depth can be reduced, but provide full and complete encasement. Bond conduit to any membrane passed through.

1.12 **CLEANING**: As required, clean all equipment or exposed material provided or installed under this section. Protect from any normal use of paint, mortar, etc.

1.13 **WORKMANSHIP**: All work shall be done in a thorough, substantial, and workmanlike manner by competent workmen. Applicable rules of National Electric Code apply as minimum standard for this contract but do not replace or reduce any specific requirement herein.

1.14 **INTERFERENCES**: The drawings are generally diagrammatic. Cooperate with other trades so that interferences of conduit, equipment, piping, etc., will be avoided. If interference develops, refer promptly to Engineer for decision.

END OF SECTION

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 DESCRIPTION

A. This section specifies the general grounding and bonding requirements for electrical equipment and operations to provide a low impedance path for possible ground fault currents.

B. "Grounding electrode system" refers to all electrodes required by NEC, as well as made, supplementary, and lightning protection system grounding electrodes. The terms "connect" and "bond" are used interchangeably in this specification and have the same meaning.

1.02 RELATED WORK

C. Section 16050 – Electrical Material and Methods

D. Section 16900 – Process Instrumentation and Control

1.03 SUBMITTALS

A. Shop Drawings:

1. Clearly present enough information to determine compliance with drawings and specifications.
2. Include the location of system grounding electrode connections and the routing of aboveground and underground grounding electrode conductors.

B. Test Reports: Provide certified test reports of ground resistance.

C. Certifications: Two weeks prior to final inspection, submit four copies of the following to the Project Engineer:

1. Certification that the materials and installation are in accordance with the drawings and specifications.
2. Certification by the Contractor that the complete installation has been properly installed and tested.

1.05 APPLICABLE PUBLICATIONS

Publications listed below (including amendments, addenda, revisions, supplements, and errata) form a part of this specification to the extent referenced. Publications are referenced in the text by designation only.

A. American Society for Testing and Materials (ASTM):

B1-07……Standard Specification for Hard-Drawn Copper Wire
B3-07……Standard Specification for Soft or Annealed Copper Wire
B8-04……Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft

B. Institute of Electrical and Electronics Engineers, Inc. (IEEE):

81-1983……IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System
C2-07……National Electrical Safety Code

C. National Fire Protection Association (NFPA):
70-08…….National Electrical Code (NEC)
99-2005…….Health Care Facilities

D. Underwriters Laboratories, Inc. (UL):
44-05…….Thermoset-Insulated Wires and Cables
83-08…….Thermoplastic-Insulated Wires and Cables
467-07……...Grounding and Bonding Equipment
486A-486B-03…..Wire Connectors

PART 2 – PRODUCTS

2.01 GROUNDING AND BONDING CONDUCTORS

A. Equipment grounding conductors shall be UL 44 or UL 83 insulated stranded copper, except that sizes No. 10 AWG [6 mm²] and smaller shall be solid copper. Insulation color shall be continuous green for all equipment grounding conductors, except that wire sizes No. 4 AWG [25 mm²] and larger shall be identified per NEC.

B. Bonding conductors shall be ASTM B8 bare stranded copper, except that sizes No. 10 AWG [6 mm²] and smaller shall be ASTM B1 solid bare copper wire.

C. Conductor sizes shall not be less than shown on the drawings, or not less than required by the NEC, whichever is greater.

D. Isolated Power Systems (if applicable): Type XHHW-2 insulation with a dielectric constant of 3.5 or less.

2.02 GROUND RODS

A. Steel or copper clad steel, 0.75 in [19 mm] diameter by 10 ft [30 M] long, conforming to UL 467.

B. Quantity of rods shall be as required to obtain the specified ground resistance, as shown on the drawings.

2.03 CONCRETE ENCASED ELECTRODE

Concrete encased electrode shall be No. 4 AWG bare copper wire, installed per NEC.

2.04 GROUND CONNECTIONS

A. Below Grade: Exothermic-welded type connectors.

B. Above Grade:
1. Bonding Jumpers: Compression-type connectors, using zinc-plated fasteners and external tooth lockwashers.
2. Connection to Building Steel: Exothermic-welded type connectors.
3. Ground Busbars: Two-hole compression type lugs, using tin-plated copper or copper alloy bolts and nuts.
4. Rack and Cabinet Ground Bars: One-hole compression-type lugs, using zinc-plated or copper alloy fasteners.

2.05 EQUIPMENT RACK AND CABINET GROUND BARS

Provide solid copper ground bars designed for mounting on the framework of open or cabinet-enclosed equipment racks with minimum dimensions of 0.375 in [4 mm] thick x 0.75 in [19 mm] wide.

2.06 GROUND TERMINAL BLOCKS

At any equipment mounting location (e.g., backboards and hinged cover enclosures) where rack-type ground bars cannot be mounted, provide screw lug-type terminal blocks.

2.07 GROUNDING BUS

Pre-drilled rectangular copper bar with stand-off insulators, minimum 0.25 in [6.3 mm] thick x 4 in [100 mm] high in cross-section, length as shown on drawings, with 0.281 in [7.1 mm] holes spaced 1.125 in [28 mm] apart.

PART 3 – EXECUTION

3.01 GENERAL

A. Ground in accordance with the NEC, as shown on drawings, and as specified herein.

B. System Grounding:

1. Secondary service neutrals: Ground at the supply side of the secondary disconnecting means and at the related transformers.
2. Separately derived systems (transformers downstream from the service entrance): Ground the secondary neutral.

C. Equipment Grounding: Metallic structures, including ductwork and building steel, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, and other conductive items in close proximity with electrical circuits, shall be bonded and grounded.

3.02 INACCESSIBLE GROUNDING CONNECTIONS

Make grounding connections, which are normally buried or otherwise inaccessible (except connections for which access for periodic testing is required), by exothermic weld.

3.03 SECONDARY VOLTAGE EQUIPMENT AND CIRCUITS

A. Main Bonding Jumper: Bond the secondary service neutral to the ground bus in the service equipment.

B. Metallic Piping, Building Steel, and Supplemental Electrode(s):

1. Provide a grounding electrode conductor sized per NEC between the service equipment ground bus and all metallic water pipe systems, building steel, and supplemental or made electrodes. Provide jumper insulating joints in the metallic piping. All connections to electrodes shall be made with fittings that conform to UL 467.
2. Provide a supplemental ground electrode and bond to the grounding electrode system.

C. Service Disconnect (Separate Individual Enclosure): Provide a ground bar bolted to the enclosure with lugs for connecting the various grounding conductors.

D. Switchgear, Switchboards, Panelboards, Motor Control Centers and Panelboards, Engine-Generators, and Automatic Transfer Switches:
   1. Connect the various feeder equipment grounding conductors to the ground bus in the enclosure with suitable pressure connectors.
   2. For service entrance equipment, connect the grounding electrode conductor to the ground bus.
   3. Provide ground bars, bolted to the housing, with sufficient lugs to terminate the equipment grounding conductors.
   4. Connect metallic conduits that terminate without mechanical connection to the housing, by grounding bushings and grounding conductor to the equipment ground bus.

E. Transformers:
   1. Exterior: Exterior transformers supplying interior service equipment shall have the neutral grounded at the transformer secondary. Provide a grounding electrode at the transformer.
   2. Separately derived systems (transformers downstream from service equipment): Ground the secondary neutral at the transformer. Provide a grounding electrode conductor from the transformer to the nearest component of the grounding electrode system **or** to the ground bar at the service equipment.

3.04 RACEWAY

A. Conduit Systems:
   1. Ground all metallic conduit systems. All metallic conduit systems shall contain an equipment grounding conductor.
   2. Non-metallic conduit systems, except non-metallic feeder conduits that carry a grounded conductor from exterior transformers to interior or building-mounted service entrance equipment, shall contain an equipment grounding conductor.
   3. Conduit that only contains a grounding conductor, and is provided for its mechanical protection, shall be bonded to that conductor at the entrance and exit from the conduit.
   4. Metallic conduits which terminate without mechanical connection to electrical equipment housing by means of locknut and bushings or adapters, shall be provided with grounding bushings. Connect bushings with a bare grounding conductor to the equipment ground bus.

B. Feeders and Branch Circuits: Install equipment grounding conductors with all feeders and power and lighting branch circuits.

C. Boxes, Cabinets, Enclosures, and Panelboards:
   1. Bond the equipment grounding conductor to each pullbox, junction box, outlet box, device box, cabinets, and other enclosures through which the conductor passes (except for special grounding systems for intensive care units and other critical units shown).
   2. Provide lugs in each box and enclosure for equipment grounding conductor termination.

D. Wireway Systems:

1. Bond the metallic structures of wireway to provide 100% electrical continuity throughout the wireway system, by connecting a No. 6 AWG [16 mm²] bonding jumper at all intermediate metallic enclosures and across all section junctions.
2. Install insulated No. 6 AWG [16 mm²] bonding jumpers between the wireway system, bonded as required above, and the closest building ground at each end and approximately every 50 ft [16 M].
3. Use insulated No. 6 AWG [16 mm²] bonding jumpers to ground or bond metallic wireway at each end for all intermediate metallic enclosures and across all section junctions.
4. Use insulated No. 6 AWG [16 mm²] bonding jumpers to ground cable tray to column-mounted building ground plates (pads) at each end and approximately every 49 ft [15 M].

E. Receptacles shall not be grounded through their mounting screws. Ground receptacles with a jumper from the receptacle green ground terminal to the device box ground screw and a jumper to the branch circuit equipment grounding conductor.

F. Ground lighting fixtures to the equipment grounding conductor of the wiring system when the green ground is provided; otherwise, ground the fixtures through the conduit systems. Fixtures connected with flexible conduit shall have a green ground wire included with the power wires from the fixture through the flexible conduit to the first outlet box.

G. Fixed electrical appliances and equipment shall be provided with a ground lug for termination of the equipment grounding conductor.

H. Raised Floors: Provide bonding of all raised floor components (if applicable).

3.05 OUTDOOR METALLIC FENCES AROUND ELECTRICAL EQUIPMENT

Fences shall be grounded with a ground rod at each fixed gate post and at each corner post. Drive ground rods until the top is 12 in [300 mm] below grade. Attach a No. 4 AWG [25 mm²] copper conductor by exothermic weld to the ground rods, and extend underground to the immediate vicinity of fence post. Lace the conductor vertically into 12 in [300 mm] of fence mesh and fasten by two approved bronze compression fittings, one to bond the wire to post and the other to bond the wire to fence. Each gate section shall be bonded to its gatepost by a 0.375 in x 1 in [3 mm x 25 mm] flexible, braided copper strap and ground post clamps. Clamps shall be of the anti-electrolysis type.

3.06 CORROSION INHIBITORS

When making ground and ground bonding connections, apply a corrosion inhibitor to all contact surfaces. Use corrosion inhibitor appropriate for protecting a connection between the metals used.

3.07 CONDUCTIVE PIPING

A. Bond all conductive piping systems, interior and exterior, to the grounding electrode system. Bonding connections shall be made as close as practical to the equipment ground bus.

B. In operating rooms and at intensive care and coronary care type beds, bond the gases and suction piping at the outlets directly to the room or patient ground bus.

3.08 LIGHTNING PROTECTION SYSTEM

Bond the lightning protection system to the electrical grounding electrode system.

3.09 ELECTRICAL ROOM GROUNDING

Building Earth Ground Busbars: Provide ground busbar and mounting hardware at each electrical room and connect to pigtail extensions of the building grounding ring.

3.10 EXTERIOR LIGHT POLES

Provide 20 ft [6.1 M] of No. 4 bare copper coiled at bottom of pole base excavation prior to pour, plus additional unspliced length in and above foundation as required to reach pole ground stud.

3.11 GROUND RESISTANCE

A. Grounding system resistance to ground of 25 ohms or less shall be considered as the **minimum** and a resistance of 5 ohms or less shall be the goal. Make any modifications or additions to the grounding electrode system necessary for compliance without additional cost to the Customer. Final tests shall ensure that this requirement is met.

B. Resistance of the grounding electrode system shall be measured using a four-terminal fall-of-potential method as defined in IEEE 81. Ground resistance measurements shall be made before the electrical distribution system is energized and shall be made in normally dry conditions not fewer than 48 hours after the last rainfall. Resistance measurements of separate grounding electrode systems shall be made before the systems are bonded together below grade. The combined resistance of separate systems may be used to meet the required resistance, but the specified number of electrodes must still be provided.

C. Services at power company interface points shall comply with the power company ground resistance requirements.

D. Below-grade connections shall be visually inspected by the Project Engineer prior to backfilling. The Contractor shall notify the Project Engineer 24 hours before the connections are ready for inspection.

3.12 GROUND ROD INSTALLATION

A. For outdoor installations, drive each rod vertically in the earth, until top of rod is 24 in [609 mm] below final grade.

B. For indoor installations, leave 4 in [100 mm] of rod exposed.

C. Where permanently concealed ground connections are required, make the connections by the exothermic process, to form solid metal joints. Make accessible ground connections with mechanical pressure-type ground connectors.

D. Where rock prevents the driving of vertical ground rods, install angled ground rods or grounding electrodes in horizontal trenches to achieve the specified resistance.

END OF SECTION

SECTION 16900

PROCESS INSTRUMENTATION AND CONTROL

PART 1 – GENERAL

1.01 WORK INCLUDED

The work covered under this section of the specifications includes the furnishing and installing of all instrumentation and control hereinafter specified to perform the intended function.

1.02 RELATED WORK

E. Section 16050 – Electrical Material and Methods
F. Section 16060 – Grounding and Bonding

PART 2 – PRODUCTS

2.01 SYSTEM SUPPLIER

All instrumentation and control systems equipment shall be furnished by a System Supplier. The System Supplier shall provide and be responsible for the proper operation of all Process Instrumentation and Controls and Control Panels. The System Supplier shall perform in house submittal drawings and assembly of products. Subcontracting submittal drawings and equipment assembly will not be permitted.

Substitutions of functions or equipment specified will not be acceptable.

The entire system shall be warranted for one year from date of substantial completion.

The Contractor shall assign full responsibility for the function operation of all new instrumentation and control systems to a System Supplier. This System Supplier shall be responsible for all coordination necessary in order to select, to furnish, to supervise installation and connections, to calibrate, and to place into operation all instrumentation and controls along with all other equipment and accessories as specified herein. The System Supplier shall be a licensed electrical contractor in the state of Mississippi.

The System Supplier shall be one of established favorable reputation who has designed and produced similar systems and components for a period of at least (10) ten years.

It shall be required of the System Supplier to execute and submit a guarantee to assume full responsibility as defined in Section 2.01, paragraph ‘A’ above. It is the duty of the Contractor to include this guarantee with his Bidding Documents.

Only the guarantee of the System Supplier whose name the Contractor has inserted in his Bidding Documents is required. Failure by a System Supplier to provide a written guarantee with his proposal shall be deemed by the Contractor as “NO BID” and

that System Supplier will not be acceptable. The written guarantee shall be on the named System Supplier's letterhead and shall be signed by a responsible representative who will be primarily involved in the fulfillment of this guarantee. The written guarantee shall be stated as follows:

"... (Name of Single Source System Supplier)...guarantees that the proposal offered provides for complete compliance with all requirements of this section of the project specifications without exceptions to these specifications.

Full responsibility will be placed upon... (Name of Single Source System Supplier)...for all coordination necessary to select, to furnish, to supervise installation and connections, to calibrate, and to place into operation Process Instrumentation and Controls, Control Panels, and all other equipment and accessories needed to provide a complete operating system to comply with requirements of this section of the project specifications.

... (Name of Single Source System Supplier)... guarantees to provide all submittal drawings, instruction manuals, and qualified personnel for specified field services and training, all as defined within this section of the project specifications."

... (Name of Single Source System Supplier)... is a licensed electrical contractor in the state of Mississippi; Certificate of Responsibility No._ _____, name of qualifying party_____;

Guarantee on system function and equipment shall be one (1) year from date of substantial completion or partial acceptance.

2.02 SUBMITTAL DRAWINGS

A. Descriptive literature and drawings for equipment and systems being furnished under this section shall be included in two submittals as a maximum. If two submittals are made, the first shall include all primary devices, transmitters, sensors, and field mounted equipment. The second submittal will include the balance of the submittal required. The submittal shall include as a minimum, equipment specifications, dimensional drawings, flow and other calculations, schematic drawings of each and every system within the complete offering, and such other information requested by the Engineer or considered necessary to the proper installation of the equipment. Furnish submittals in a Bound Booklet Form 8.5" X 11". No sheets shall be larger than 8.5" X 11". Foldout larger sheets will not be acceptable. This submittal shall include coordinated information and drawings for all items that the Single Source System Supplier is required to furnish under this section of the specifications, all in one integrated and coordinated manual. Each item of a submittal shall carry the appropriate title and be indexed against the appropriate specification item.

B. A quantity of eight (8) sets of submittals shall be furnished for the Engineer's approval.

2.03 INSTRUCTION MANUALS

Prior to 65% of the value of job completion, System Supplier shall furnish two (2) copies to the Engineer and one (1) copy to the Owner of all descriptive matter and complete system operation instruction manuals in separate indexed binders coordinated with the equipment that is furnished and installed for approval. System Supplier shall incorporate Engineer's comments and resubmit for approval within thirty (30) days of receipt of Engineer's comments. Once final approval is obtained, System Supplier shall furnish two (2) copies to the Owner and two (2) to the Engineer.

2.04 RELATED SYSTEM COMPONENTS

The attention of the System Supplier is called to sections concerned with electrical work, chemical feeders, valves, piping, etc., and such other devices not specified under this section, but related to it.

PART 3 – EXECUTION

3.01 ENGINEERING SUPERVISION

C. The services of a qualified representative of the selected Single Source System Supplier shall be provided to inspect the completed installation, suggest all adjustments necessary to place the system in proper operation, and instruct operating personnel in the care and operation of the equipment furnished. A minimum of one (1) day and one (1) trip start-up service and training operating personnel shall be included. The services shall be furnished by the Contractor as a part of the work included under this section of the specifications.

D. The System Supplier shall show satisfactory evidence that he maintains, a fully equipped factory organization capable of furnishing adequate service for the equipment furnished, included replacement parts. Suppliers employing outside organizations for “ON CALL” service shall not be considered.

3.02 GENERAL INSTALLATION

E. Installation of instrumentation and controls shall be in strict compliance with the manufacturer's instruction. The locations of these items as shown on the Contract Drawings are approximate only. Exact locations shall be as approved by the Engineer during construction. It is the duty of the Contractor to obtain, in the field, all relevant information required for proper placement of instrumentation and controls. In the case of interference with other work, proceed as instructed by the Engineer and provide all materials and labor required to prevent construction delays.

F. Execution of the installation shall be in full accordance with codes and local rulings. The Contractor shall be responsible for any expenses that are a result of work performed contrary to said codes and regulations.

G. The System Supplier shall coordinate with the Contractor the installation, the location of process equipment, and connections of process equipment to related equipment panels, subject to the Engineer's approval. The equipment being furnished with electrical controls or instrumentation must be submitted to the System Supplier for approval and coordination with all other control and instrumentation on this project. This engineer will not approve any equipment submittal until this coordination has been accomplished.

3.03 SPARE PARTS

H. Provide the following spare parts packaged for long-term storage and delivered to the owner.

QTY.	MODEL NO.	DESCRIPTION
1	DC	Duplex Pump Controller
1	MM	Motor Current Monitor
1	SP	Control Voltage Surge Protector
1	AP	Antenna Protector
1	UPS	Uninterruptible Power Supply

I. The System Supplier shall maintain an inventory at his facility of at least one (1) part of each type furnished on this project. These parts shall be available for delivery to the owner in a maximum of twenty-four (24) hours.

3.04 DELIVERY AND HANDLING

After delivery to the jobsite, the Contractor shall store the control panel off of the ground in a dry location until such time as it is mounted and supplied with electrical service. The contractor shall also insure that the pump power and control cords, as well as control floats, are protected from submergence until they are properly installed and sealed.

3.05 CONTROL PANEL STAND (when required)

Each control panel stand shall be fabricated per the detail indicated in the plans. Control panel stand legs shall be cemented into the ground a minimum of three feet (3') deep. The control panel shall be bolted at all four corners to the control panel stand with stainless steel hardware. Control panels shall be installed following manufacturer's instructions properly leveled. When installed, the bottom of the control panel shall be approximately four feet (4') above finished grade elevation.

PART 4 - CONTROL PANEL SPECIFICATIONS

4.01 GENERAL

A. Enclosure shall be constructed of a minimum 16 gauge, galvanized steel with stainless steel, quarter turn, quick-release latching mechanisms and a padlocking hasp. Enclosure shall be factory painted with white polyester powder paint inside and out over pretreated surfaces. The enclosure shall be rated NEMA Type 3R and manufactured by Hoffman, Electromate or approved equal. Enclosure

backplate shall be a minimum of 12-gauge steel, finished with white polyester powder paint or a conductive, corrosion-resistant coating.

B. All power and control wires shall be stranded copper type MTW. All wiring shall be in covered plastic wireway.

C. All points necessary for external connection in the controller, whether power or control, shall be wired to a terminal strip located at the top or bottom of the enclosure as directed by the engineer. The terminal strip shall be permanently marked with the same designation as the wire connected to it.

D. All power and control wires shall be marked at both ends using self-adhering wire markers. No two wires having different functions within the control panel shall have the same markings.

E. All circuit breakers, starters, and other control devices mounted within the controller panel shall be labeled for identification both within the panel and on the wiring schematic with corresponding designations.

F. Control power shall be 120 volts and shall be protected by a correctly sized circuit breaker. If required, provide a properly sized control power transformer with primary over current protection.

G. Each starter shall be provided with overload protection in all three phases and each individual starter shall have phase failure protection.

H. All selector switches, pilot lights and control devices shall be visible and operable from the Controller exterior door or an interior deadfront panel when required. The deadfront panel shall be constructed of anodized aluminum and shall have a continuous aluminum hinge. An anodized aluminum deadfront shall be utilized when the Controller environment is not conducive to exposed controls or as specified on drawings.

I. All approval drawings shall be prepared per J.I.C. standards for engineers review prior to any fabrication of control equipment. The Controller shall be produced by a UL 508 listed shop. Proof of label availability shall be submitted with above drawing.

J. The controller manufacturer shall provide a written warranty with approval drawings covering all Control materials and parts furnished for a period ending one year after final acceptance of the project. This warranty shall cover all material replacement, all labor, and all travel expenses.

K. The controller manufacturer shall show satisfactory evidence that he maintains a fully equipped factory organization capable of furnishing adequate service for the equipment furnished, including replacement parts within a 150 mile radius of the job site. Suppliers employing outside organizations for “ON CALL” service shall not be considered.

L. The quality establishing brand for the control panel(s) shall be that as manufactured by Control Systems, Inc. of Jackson, MS.

4.02 DUPLEX PUMP STATION CONTROL PANEL

A. SERVICE ENTRANCE: The control panel shall be designed for 277/480-volt, three-phase, four-wire power. The control panel shall be rated NEMA 3R.

B. MAIN BREAKER: Provide a properly sized Main Breaker. In addition, provide a through the door operator mounted on the interior deadfront. The operator shall prevent the deadfront from being opened while the breaker is in the "ON" position.

C. POWER DISTRIBUTION BLOCKS: Provide properly sized Power Distribution Block(s) (PDB), as required for the control panel. Power distribution blocks shall be manufactured by Marathon, Square D, or approved equal.

D. SERVICE ENTRANCE SURGE PROTECTION DEVICE: Provide a service entrance rated Type 2, AC power distribution Surge Protection Device (SPD), per Component Specifications, designed to protect all types of loads fed from distribution panels, branch panels and/or individual equipment panels. Units shall be UL listed and shall bear a UL label. Surge Protection Device shall be rated for 160kA per phase and 80kA per mode. Unit shall come complete with a 30 amp, 480 volt circuit breaker for disconnect means.

E. PHASE/POWER MONITOR: Provide a service entrance Power Monitor (PM), per Component Specifications. During power monitor failure detection, no three phase motors shall be allowed to operate.

F. LIFT STATION PUMPS NO.1 AND NO.2: Provide a combination circuit breaker and NEMA rated motor starter for each pump. Starters shall provide Class 10, ambient compensated overload protection and individual phase failure protection. In addition, provide the following equipment and controls.

1. Provide a Duplex Pump Controller with built-in remote telemetry unit and lift station analyzer (DC1-2), per Component Specifications. The duplex pump controller shall include all auxiliary modules required to transmit all pump input/output data signals to the existing City of Hattiesburg office site CTU and SCADA system computer. In the automatic mode, the Duplex Pump Controller shall receive stop and start commands based on the level in the pump station wet well as sensed by the float switches (F), as described below in Part 5.

2. Provide a float switch input indicator and test module with improper input sequence indicator and controls (FT1-2), per Component Specifications.

3. Provide Motor Monitors (MM-1 and MM-2) complete with properly sized Current Transformer, both per Component Specifications. The Motor Monitor shall provide a positive run signal, monitor motor running current, and indicate motor running time and motor full load running amperes. In

addition, the motor monitor shall come complete with high and low amperes set points for the pump. The pump motor current shall be transferred to the CTU and displayed on the SCADA system computer via the duplex pump controller, as described above.

G. DUPLEX RECEPTACLE: Provide a 120V, 20 amp, duplex receptacle mounted on the backplate of the controller enclosure for programming and diagnostic equipment use. Receptacle shall come complete with handy box.

H. POWER SUPPLY: Provide a Power Supply (DPS), per component specifications. The power supply shall provide 13.5V DC for the Radio Modem Transceiver and Current Monitor.

I. UNINTERRUPTIBLE POWER SUPPLY: Provide an Uninterruptible Power Supply (UPS), per Component Specifications. The unit shall be a 12V DC battery charger with 24V DC auxiliary power output option if required. In Addition, provide one (1) 12V DC 12 Ah Backup Battery (BAT) for the system in the event of a power failure.

J. RADIO ANTENNA: Provide a Radio Antenna (ANT), per Component Specifications. Radio Antenna shall be Omni or Yagi type unit with gain as required for signal strength. The antenna shall be connected to the radio (RMT), with RG/8U low loss coaxial cable. In addition, a coaxial type Antenna Protector (AP), also per Component Specifications, shall be provided for connection of coaxial cable to the control panel enclosure.

K. RADIO MODEM TRANSCEIVER: Provide a Radio Modem Transceiver (RMT), per Component Specifications and meeting the requirement of FCC Part 90. The RMT shall include built-in radio diagnostics capable of reporting specific unit conditions including programming, link testing, temperature, supply voltage, and Received Signal Strength Intensity (RSSI). Diagnostic data shall be capable of communication online with each transmission with no interruption in the application and with minimum overhead. All electrical connections to the RMT shall be plug-in type for ease of repair.

L. DISTRIBUTION TRANSFORMER FUSE: Provide two, 10 amp, 480 volt fuses for 2kVA distribution transformer primary side protection.

M. DISTRIBUTION TRANSFORMER: Provide a 2 kVA distribution transformer for single-phase loads. The transformer shall have 480-volt single-phase primary and 120 volt single-phase secondary. Transformer shall be dry-type, UL rated with 115 C temperature rise. Transformer shall be mounted inside the control panel.

N. BRANCH FEEDER BREAKERS: Provide the following 120-volt single pole circuit breakers.

1. 20 Amp, 1 pole for Control Power
2. 20 Amp, 1 pole for GFI Weatherproof Duplex Receptacle

A. CONTROL POWER SURGE PROTECTOR: Provide an in-line (series) 120 volt, single-phase, 20A continuous power Surge Protection Device (SPD), per Component Specifications, designed to protect all of the loads fed from the control power circuit.

B. GROUND FAULT INTERRUPTER RECEPTACLE: Provide a 120 Volt, 15 amp, Weatherproof Duplex GFCI Receptacle mounted on the side of enclosure for electrical hand tool use. Receptacle shall come complete with a weatherproof cover. Cover shall be UL listed for wet locations, with cover closed, and shall be constructed of tough plastic that is resistant to high impact and sunlight. In addition, the cover shall be non-corrosive, non-conductive and protect against rain, snow and ice.

C. COMMON ALARM LIGHT: Provide a weatherproof exterior Alarm Light (AL), per Component Specifications, with red Lexan lens and mounted on the side of building where shown on plans or as directed by the project engineer. The alarm light shall burn dim and steady during normal conditions to indicate electrical power "ON" and lamp good. During any alarm condition, the alarm light shall flash brightly.

PART 5 – FIELD INSTRUMENTATION, CONTROLS, AND MODIFICATIONS

5.01 **CENTRAL COMPUTER MODIFICATIONS**: Upon installation of radio telemetry and current monitoring equipment, necessary modifications shall be made to the existing central computer and associated equipment to incorporate all existing and new data to be transmitted from the Lake Forgetful Duplex Pump Station. All data installed on this project shall be incorporated into the existing City of Hattiesburg central telemetry unit (CTU) and SCADA system to provide the operator with graphical interface, monitoring and control as well as provide records of appropriate system transactions. The control system supplier shall be responsible for coordinating all work with the City of Hattiesburg and the project Engineer.

5.02 Provide a float control system for the pumping station to operate the pumps. Provide High Level, Lead Start, Lag Start, and All Stop Float Switches (F), per Component Specifications, mounted in wetwell. Float switches shall be set at operating levels per Project Engineers direction. The float switch shall be a direct acting switch and contain a single pole mercury switch, which actuates when the longitudinal axis of the float is horizontal and deactuates when the liquid level falls 1" below the actuation elevation. The float shall have a chemical resistant polypropylene casing with a firmly bonded electrical cable protruding. One end of the cable shall be permanently connected to the enclosed mercury switch and the entire assembly shall be capsulated to form a completely watertight and impact resistance unit. Provide the following float switches and control points:

A. High Level Alarm
B. Lag Start
C. Lead Start
D. All Stop

PART 6 – RTU SOFTWARE, PROGRAMMING AND LICENSING

6.01 **COMMUNICATIONS PROTOCOL**: All CTU/RTU=s shall include driver software for industry standard protocols including MODBUS and Bricknet. The Resource Management Facilities communications system shall be based upon an open, nonproprietary protocol. The protocol shall support "store and forward" as well as "peer-to-peer" communications. All protocols must be submitted with complete documentation including but not limited to all data structures and algorithms (such as CRC calculations) required to interface future equipment to the telemetry network. Documentation that the ENGINEER deems insufficient shall disqualify the protocol. The ENGINEER and OWNER reserve the right to disqualify the facilities supplier=s bid based upon a disqualified protocol. **No proprietary closed communication protocols shall be accepted.**

6.02 **PROGRAMMING LANGUAGE SOFTWARE**: The CTU/RTU programming language software shall be an industry standard so that future expansion and improvements may be economically accommodated. The programming language shall be Microsoft C/C++. Programming shall provide the specific resource management functions and capabilities for the CTU/RTU modules.

6.03 **LICENSING**: An application must be submitted to the Federal Communications Commission (FCC) in the name of the system owner and a license issued for the operation of VHF band radio data frequency. All application fees and processing fees for this purpose shall be the responsibility of the contractor.

6.04 **RADIO PATH SURVEY**: Provide a radio path survey to measure radio signal strength and to properly design transceivers, antennas, masts, and any other equipment necessary for data radio communication between each CTU/RTU site. Contractor shall provide radio repeaters as necessary for this purpose. The Owner=s existing facilities will be made available for installation of this equipment including 120V AC power if already existing. To assure reliable radio data communication, the minimum acceptable signal strength between RMT sites necessary for communication links shall be 85 dB. Provide a Radio Path Survey Report to the {Engineer including all measured field data, survey equipment used, site location including latitude and longitude of all sites, and recommended radio equipment and antennas necessary to achieve the required radio signal strength. This report shall be provided to the engineer for review prior to the installation of any radio equipment. Acceptance of the Radio Path Survey Report shall in no way absolve the Contractor from the responsibility for provision of reliable radio communication system required. Apply for, secure, and provide FCC license(s) in the owner=s name for VHF radio frequency as required for data radio communication. All application fees and processing fees for this purpose shall be the responsibility of the Contractor.

PART 7 – COMPONENT SPECIFICATIONS

7.01 **SERVICE ENTRANCE SURGE PROTECTION DEVICE** (SPD): The SPD shall be mounted in the control panel / motor control center section adjacent to the Main Breaker. The SPD is connected to the main bus in the panel with conductors of size and of no greater length than indicated in the Surge Protection Device manufacturer's installation instructions. SPD shall be a Type 2 device ideal for distribution panels, branch panels and critical loads.

A. SPD shall provide transient voltage surge suppression and electrical high frequency noise filtering. Unit is designed for parallel connection to the main bus. SPD unit uses selenium cells and metal oxide varistors to achieve its performance. Products using gas tubes, spark gaps, silicon avalanche diodes or other components, which under failed conditions would cause system failure, are not acceptable.

B. Manufacturer qualifications: The product of a manufacturer engaged in the commercial design and manufacture of the type of product described herein for a minimum five (5) years.

C. Standards: Product complies with the requirements of the following:

1. cUL
2. CE Compliant
3. UL 1449 3rd Edition
4. UL 1283 Listed
5. NEMA LS1 Compliance

A. Operating Voltage: 277/480 volts, 3-phase, 4-wire + ground

B. Maximum Continuous Operating Voltage (MCOV): greater than 115 percent of nominal voltage for all products. All suppression filter systems comply with NEMA LS 1.

C. Frequency: Operating frequency range of 47 – 64 Hertz.

D. Protection Modes: all phases – phase to ground; all phases – phase to neutral; all phases – phase to phase; and neutral to ground.

E. Rated Single Pulse Surge Current Capacity: at rated voltage, no less than:

160,000 A Line to Line
80,000 A Line to Neutral
80,000 A Line to Ground
80,000 A Neutral to Ground

F. Tested Single Pulse Surge Current Capacity: Filter system is designed to withstand a single pulse surge current up to 150 percent of the design rating and tested at an independent test laboratory. In the absence of testing facilities capable of such testing, testing of individual components or sub-assemblies within a mode is accepted by ANSI C62.41-1991; the testing includes a Category C1 surge test followed by a second Category C1 test. The test results demonstrate the unit does not degrade by more than 10 percent from the initial test.

G. Clamping Voltage: Suppression filter system clamping voltages are in compliance NEMA LS1-1992.

H. High Frequency Filter: EMI-RFI noise rejection or attenuation values comply with test and evaluation procedures of NEMA LS1-1992.

I. Overcurrent Protection: Unit includes coordinated UL 489 or UL 198 listed or recognized overcurrent protection devices.

J. Documentation: Provide product data including equipment manual, electrical and mechanical drawings indicated dimensions weights, mounting provisions, connection details and layout diagram, certified tests of UL1449 Listing/Clamp Voltages and NEMA LS1 compliance, certified single pulse surge current capacity testing, and minimum repetitive surge current capacity testing.

K. Status Indicators: Unit has long-life, solid state, externally visible status indicators that monitor the on-line status of each phase of the unit.

L. Warranty: 25-years Unlimited Free Replacement for service entrance Surge Protection Device.

M. TVSS system shall be equal to SSI SSMA163Y2 for service entrance.

TAG	SERVICE
SPD	Service Entrance Surge Protection Device

7.01 PHASE FAILURE/UNBALANCE/UNDER VOLTAGE/REVERSAL RELAY: Phase monitor shall be designed to protect 3-phase motors regardless of size and for use with 200 – 240 or 425 – 485 VAC, 50 to 60 Hz motors to prevent damage. The unit shall constantly monitor the three phase voltages to detect harmful power line conditions, caused by single phasing, low voltage, phase reversal and voltage unbalance. When a harmful condition is detected, an output relay is deactivated after a trip delay. The output relay shall reactivate after power line conditions return to an acceptable level for the specified Restart Delay. The trip delay shall prevent nuisance tripping due to rapidly fluctuating power line conditions. Phase monitor shall have the following features and functions.

A. Under Voltage:
Trip: -15% of setting for 230V (-10% for 480V)
Reset: -12% of setting for 230V (-8% for 480V)

B. Over Voltage:
Trip: -15% of setting for 230V (-10% for 480V)
Reset: -12% of setting for 230V (-8% for 480V)

C. Phase Unbalance:
Trip: 7% with 5 second trip delay
15% with 1 second trip delay
Reset: 6%

D. Trip Delay:
5 seconds (delay is reduced to 1 second if Phase Unbalance is 15% or greater)

E. Reset Delay:
2 seconds standard (5-60 seconds optional)

F. Voltage Range: 200V to 240V or 425V to 525V

G. Output Rating: 10A resistive @ 240VAC
6A resistive @ 240VAC

H. Operating Temp: -40ºC to +50ºC, -38ºF to +122ºF

I. Storage Temp: -45ºC to +85ºC, -47ºF to +185ºF

J. Enclosure: Lexan, surface mount

K. UL and cUL listed

TAG	SERVICE
PM	Electrical System Power Monitor

7.01 **POWER SUPPLY**: Power supplies shall be for 120V AC primary and 13.5V DC secondary and shall have a frequency range of 47-440 Hz with an inrush current of 35A. Secondary adjustment range shall be 10% minimum. Line and Load regulation shall be 0.3%. Output ripple shall be no more than 180mV. Voltage Tolerance shall be 1%. Over voltage protection shall clamp at 115-135% and short circuit protection shall be continuous, self-recovering.

TAG	SERVICE
DPS	DC Power Supply

7.02 **UNINTERRUPTIBLE POWER SUPPLY**: Provide a battery charger for 12V DC Sealed Lead Acid rechargeable batteries with an optional 24V DC isolated output. The maximum battery current charging current is 2.9 amps for a completely dead battery and typically less than 0.4 amps for battery voltages over 10V DC. Trickle charging shall stop at a battery voltage of 13.8V DC. The unit shall operate on 13.8V DC with a current rating of up to 11 amps. Provide an optional, integral battery backed up 24V DC option that is capable of being field mounted onto the unit, for powering external 4-20 mA loops or other instrumentation of up to 1 amp maximum load and shall be isolated from the input power supply if necessary. Provide quick-connect terminal blocks for all connectors. Provide High and Low input power supply voltage.

TAG	SERVICE
UPS	Uninterruptible Power Supply

7.03 **RECHARGEABLE BATTERY**: The battery shall be a sealed Lead-Acid type with ABS plastic case and spill proof construction allowing safe operation in any position. Nominal voltage shall be 12V DC (six cells in series). The nominal capacity shall be 12.0 Ah at a discharge rate of 20 hours (600 mA to 10.5 volts). Terminal configuration shall be via quick disconnect tabs type F1: 0.187” x 0.032”. Operating temperature range shall be at least -4° to +122°F. The unit shall be UL recognized.

TAG	SERVICE
BAT	Standby Power Supply

7.04 **RADIO MODEM TRANSCEIVERS**: Radio Modem Transceiver shall provide re-farming compliant high speed data link communication with system security and diagnostic reporting. The RMT shall provide full UHF, VHF, and 900 MHz MAS bands as required by the FCC license. The RMT shall be capable of transmitting MODBUS protocol messages. Built-in radio diagnostics shall be included and shall be capable of reporting specific unit programming, link testing, and radio performance statistics including RSSI, temperature, supply voltage, and additional parameters throughout the radio. Radio diagnostic information shall be capable of on-line communication with each transmission with no interruption in the application, and with minimum overhead. The RMT shall also comply with FCC re-farming and power regulations. Bandwidth shall not exceed 12.5 KHz. To assure communications with the OWNER=s existing resources and

to assure compliance with FCC regulations, Radio Modem Transceivers shall be Cal-Amp Model Guardian 100 - No Substitutes shall be accepted.

TAG	SERVICE
RMT	Radio Modem Transceiver

7.05 **ANTENNA**: Antennas shall be either of two types with masts/heights as indicated in the Signal Path Survey (which shall be conducted by the facilities supplier). Antenna types shall comply with the following:

Omni Directional Type 1:	Cushcraft Model #CRX-150B (or approved equal)
Yagi Directional Type 2:	Cushcraft Model #P154-4 (or approved equal)

Antenna Height:	Description:
20 Feet	Rohn Model #161005GHS (or approved equal)
30 Feet	Rohn Model #H30 (or approved equal)

TAG	SERVICE
ANT	Radio Modem Transceiver Antenna

7.06 **BULKHEAD LIGHTNING ARRESTER**: Radio lightning protection shall be bulkhead mounted and shall be rated as follows:

Throughput Energy:	600 J
Frequency Range:	1.5 to 400 MHz
Max. Power:	375 W, VHF

TAG	SERVICE
AP	CTU/RTU Radio Lightning Arrestor

7.07 **DUPLEX PUMP CONTROLLER**: Provide a Duplex Pump Controller including the following features:

A. OPERATORS AND FRONT PANEL INDICATORS (for each pump)

1. Manual-Off-Automatic selector switch
2. Green “Pump Running” pilot light
3. Red “Pump Failure” pilot light
4. Red “Pump Seal Failure” pilot light

B. A Pump NO.1 LEAD – ALTERNATE – Pump NO.2 LEAD sequence selector switch to select either pump as lead pump or to select that the pumps alternate as lead pump on each call for cycle.

C. Signal inputs for stop, lead pump start, lag pump start, and high/low alarm. The sensors shall be optically isolated and operate on 24V DC with a maximum current of 16 mA for intrinsic safety.

D. Pilot light indicators for each signal input described above, as well as, Pump No.1 and No.2 running inputs.

E. The controller shall operate a pump based upon various combinations of signal inputs. Normal operation shall operate pumps in the following automatic sequence:

1. With no signal inputs activated and both pumps off, a stop input activation shall not cause a pump to operate. With a stop input activated and a lead start input activated, the controller shall start a single pump that pump shall operate until the lead start and stop inputs are deactivated. With both the stop and lead start inputs activated and one pump operating, a lag start input being activated shall operate the second pump. Both pumps shall operate until the lag start, lead start, and stop inputs are deactivated.

2. In the event an input device(s) fails to activate the controller shall operate as follows:
3. With a stop input device failure, the controller shall operate a single pump based upon the status of the lead start input and a field adjustable short cycle delay. The short cycle delay shall keep the pump operating after the start input deactivates for the delay time setting. If the stop input device fails to activate, the controller shall operate one pump as described above with the lag start input starting the second pump. Both pumps shall operate until both start inputs are deactivated and the individual pump short cycle delays have expired. In the event both the stop and lead start inputs fail to operate, the controller shall operate both pumps based upon the status of the lag start input and the individual pump short cycle delay timers. Both pumps shall operate until the lag start input is deactivated and the individual pump short cycle delays have expired. If all input devices fail except the high/low alarm input, the controller shall operate both pumps based upon the status of the high/low alarm input and the individual pump short cycle delay timers. Both pumps shall operate until the high/low alarm input is deactivated and the individual pump short cycle delays have expired.

A. A field adjustable failure time delay for each pump, in the range of 5 seconds to 62 minutes, to start the lag pump at the lead pump start point if the lead pump fails or if the lead pump selector switch is placed in the off position. If a pump fails, the remaining functional pump shall remain the lead pump on future cycles. The failed pump shall only be called to operate at the lag pump operating point. Normal pump alternation shall resume when the failure condition is corrected and the pump has been reset.

B. Soft stop feature to require the pumps to stop three (3) seconds apart during the condition that both pumps are running when signaled to stop. Soft start feature to require the pumps to start three (3) seconds apart during conditions that the lead and lag pumps are called for simultaneously.

C. Individual field adjustable time controls to delay starting each pump in the automatic mode after power failure or during initial startup.

D. Pump failure, pump seal failure, and high/low alarm red pilot lights shall flash when activated. Provide field selectable controls to allow the seal failure indicator to burn steady when activated.

E. Manual override inputs for each pump, which can be used to manually override the duplex controls', pump outputs when the controls are in the Automatic mode. Inputs shall be provided to start or stop each pump from a remote location.

F. Provide a selectable improper sequence alarm to activate the common alarm in the event the control inputs are activated in the wrong order. The proper order shall be Stop, Lead Start, and Lag Start. The High water alarm shall not be included in the improper sequence test. Provide a selectable Lag Stop Level control to allow the lag pump to stop based upon the status of the lead start level input.

G. Provide automatic pump alternation on pump failure and seal failure when a failure condition is detected and the pumps are in the automatic mode. The failed pump shall be made the lag pump on future cycles until the failure condition is corrected. Pump failure shall require manual reset to clear the failure condition and the seal failure condition shall clear when the failure condition clears. Provide field selectable controls to allow the seal failure condition to not automatically alternate the pumps.

H. An exterior alarm light output that would flash the light brightly during any common alarm condition that includes pump failure, seal failure, improper sequence, and high water alarm. The output shall allow the light to dim glow under normal conditions to indicate that power is on and the lamp is good. A normally open common alarm output contact shall be energized by these alarm conditions. Provide selectable controls to prevent the seal failure input from activating the common alarm output and alarm light.

I. Provide an intelligent Lift Station Analyzer with the following features:

1. Provide the following additional inputs: an external normal power failure input for use in remote telemetry, three (3) 4-20 mA analog inputs with an input resistance of 100 ohms.

2. Provide the following additional outputs: pump no.1 is lead, pump no.2 is lead, pump no.1 selector switch is in the automatic position, and pump no.2 selector switch is in the automatic position.

3. Provide front panel status indicators for pump running, pump failure, pump seal failure, high/low alarm and auxiliary input.

4. Provide selectable first on/first off control to allow the first pump activated to be the first pump off when both pumps are activated.

5. Influent and Effluent flow rate calculation based on floats or portable submersible pressure level transmitter.

6. Provide two serial communications ports, one RS-232 and one RS-485 for interfacing with RTU's, PLC's, radio or telephone modems, operator interfaces, and PC's. The ports shall support industry standard

communication protocols, such as MODBUS^{tm} and BrickNet^{tm} at baud rates of 1200, 2400, 4800, and 9600.

7. Provide a user selectable unit address from 000 to 999. The switches shall allow the unit address to be set without software or special equipment.

8. Provide user selectable cross sectional area switches. The switches shall allow the cross sectional area of the wet well to be set without software or special equipment.

9. Provide user selectable float distance setting switches. The switches shall allow the distance between the stop, lead start and lag start floats to be set without software or special equipment.

10. Provide average pump capacity calculation as well as the following other statistics: Pump Runtimes, High/Low and Average Inflow for the last 24 hours, Average flow-capacity loss when more than one pump is running, Estimate Real-Time level based upon current flows and float positions.

11. Provide TRUE Volumetric Influent Flow calculation with long-term averaged error not to exceed 0.2% of Full Scale.

12. The analyzer shall be capable of operating with float switches or a level controller with dry contact outputs for All-Stop, Lead Start and Lag Start during normal operation and use a portable submersible pressure level transmitter (SPLT) for automatic calibration in determining the level positions of all floats. During the calibration process, the SPLT shall automatically start the calibration procedure when it is plugged into the lift-station analyzer, and stop the procedure when it is unplugged.

13. For level control systems using SPLT level sensing, the analyzer shall be capable of using the signal from the SPLT in all calculations.

14. The controller shall monitor key lift station functions such as Seal and Pump Failures, Improper Sequence, General Alarm, High Level Alarm, Pump Currents, pump runtimes, and pump duty cycles.

15. Data-logging and storage in non-volatile memory.

16. Capability for an optional external operator interface hex-keypad for easy entry of floating point numbers, setpoints, menu selections and other parameters that need to be entered into the controller.

TAB	SERVICE
DC1-2	Pump Station Duplex Pump Controller

7.01 **FLOAT TEST**: Provide input indicator and test module with improper input sequence indicator and controls. The following controls and equipment shall be supplied.

A. Four deadfront panel mounted input pilot light indicators: One for each of the following level control points Stop, Lead Start, Lag Start and High Level alarm.

B. Four deadfront panel mounted pushbuttons to test each pump level control input.

C. Automatic input sequence monitoring, such that if the inputs do not occur in proper order (stop, lead start and lag start); a red pilot light indicator shall be activated.

D. If stop input fails, followed by lead input activation, lead pump shall operate and continue until lead pump input is removed and a field adjustable time delay has expired.

E. If stop input fails, followed by lead and lag input activation, both motors shall operate and continue until their respective input is removed and an individual field adjustable time delay for each pump has expired.

F. If stop, lead and lag inputs fail, followed by high level input activation, both motors shall operate and continue until the high level input is removed and a field adjustable time delay for each pump has expired.

G. Improper sequence activation shall also activate the common external alarm controls.

H. Improper sequence alarm shall require reset button activation to remove the alarm light.

TAG	SERVICE
FT	Float Test Module

7.01 **FLOAT SWITCHES**: The float switch shall be a direct acting switch and contain a single pole mercury switch, which actuates when the longitudinal axis of the float is horizontal and de-actuates when the liquid level falls 1” below the actuation elevation. The float shall have a chemical resistant polypropylene casing with a firmly bonded electrical cable protruding. One end of the cable shall be permanently connected to the enclosed mercury switch and the entire assembly shall be capsulated to form a completely watertight and impact resistance unit. Float shall include a bracket for support pipe mounting.

TAG	SERVICE
F	Wetwell Float Switches (Qty. 4)

7.02 **MOTOR MONITOR**: Provide an electronic solid state Motor Monitor with proportional 4-20mA output, powered by 120 volt AC that will accept a zero (0) to five (5) amp input signal condition the signal to perform ON/OFF or OPEN/CLOSE discrete dry type setpoint contact conditions based on the input signal value. The Motor Monitor shall have the following features.

A. Provide an LCD readout meter providing field adjustable scales of 0-25.0, 0-50.0, 0-100.0, 0-250, 0-500 and 0-1000 to accurately indicate the motor full load current using the 0-5 amp input signal.

B. The Monitor shall be capable of displaying motor total running time up to 99,999.9 hours and be provided with reset capability from the rear of the monitor. The display shall include a non-volatile EEPROM memory backup that does not require battery backup during power failure.

C. Provide two (2) separate field adjustable setpoints, each with discrete, isolated sealed SPDT relay output contacts. The setting of each setpoint shall be adjustable throughout the complete signal range from the front of the Monitor. Each set point shall be provided with a field adjustable "ON" and "OFF" time delay, adjustable from zero (0) to fifteen (15) seconds. The actual setting of each setpoint shall be able to be displayed on the LCD readout at any time. An LED indicator shall be provided for each setpoint and shall operate as follows:

1. Setpoint No. 1: When setpoint is timing, the indicator shall burn amber. After timing period and current is at or above setpoint, indicator shall burn green.

2. Setpoint No. 2: When set point is timing, the indicator shall burn amber. After set timing period and current is at or above setpoint, indicator shall burn red.

D. Provide a 4-20mA or a 1-5Vdc output signal which is proportional to the amperes being measured. Load maximum impedance should not exceed 330 ohms. Output signal shall be factory calibrated.

TAG	SERVICE
MM-1	Pump No.1 Motor Monitor
MM-2	Pump No.2 Motor Monitor

7.01 **CURRENT TRANSFORMER**: Current transformers insulation class shall be 0.6 KV BIL, 10 KV Full Wave. They shall be manufactured to meet the requirements of UL1244 and have a minimum accuracy of 60Hz of 2%. Current transformers shall be provided with brass stud terminals and mounting bracket.

7.02 **COMMON ALARM LIGHT**: Alarm Light shall be RAB catalog number VBR100/GL100PGR or equal. Alarm light enclosure shall be constructed of die cast aluminum with a sturdy mounting bracket. Alarm light shall be suitable for wet location and comply with UL standard 1598, for hazardous locations where the lamp, socket and wiring require protection from rain, corrosive fumes, non-combustible dusts, moisture, non-explosive vapors and gases. The alarm light shall burn dim and steady during normal conditions to indicate electrical power "ON" and lamp good. During any alarm condition, the alarm light shall flash brightly. Alarm light mounted on the side of the enclosure or as directed by the project engineer.

TAG	SERVICE
AL	Common Alarm Light

7.03 **CONTROL POWER SURGE PROTECTION DEVICE (SPD)**: The surge protection device shall be mounted in the control panel in series with the control power circuit.

Provide a single-phase, in-line series AC power line surge protector with the following features:

A. Rated voltage shall be 120 VAC @ 60Hz.
B. Current rating shall be 20 Amps @ 40°C.
C. The protection circuitry shall automatically reset after the transient has passed.
D. Protection modes shall be: Line to Neutral, Line to Ground, and Neutral to Ground.
E. Provide three (3) Green LED indicators to indicate protection status of each mode when power is present (L-N, L-G, N-G).
F. Varistors with integral thermally activated elements shall be used to open in the event of overheating due to the abnormal overvoltage, limited current conditions outlined in UL1449. The lower inductance of the varistors shall result in improved clamping performance to fast overvoltage transients.
G. Metal Oxide Varistors (MOV) shall have cured, flame retardant epoxy polymer coating meeting UL94V-0 requirements.
H. Electromagnetic Interference (EMI) filtration shall be incorporated into the unit to dampen unwanted signals from the protected side of the unit.
I. Operating temperature shall be -40 to +70°C.
J. Screw terminals shall be provided for all wiring.
K. Maximum continuous operating VAC shall be 115% of rated line voltage.

TAG	SERVICE
SPD-2	Control Power Surge Protection Device

END OF SECTION

ADVERTISEMENT FOR BIDS:

NOTICE is hereby given that the City Clerk of the City of Hattiesburg, Mississippi, will receive sealed bids until **10:00 a.m.** on **March 23, 2017** in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements for the following:

LAKE FORGETFUL ROAD
HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of $150.00, non-refundable. All bids must be accompanied by bid security equal to 5% of the amount of the bid, in the form of a certified check, cashier's check or a bid bond written by a company properly licensed in Mississippi.

Each BID must be received in a sealed envelope which is marked in the lower left-hand corner EXACTLY as follows:

BID:

LAKE FORGETFUL ROAD
HATTIESBURG, MISSISSIPPI

No bid may be withdrawn for a period of sixty (60) days. The lowest and best proposal received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated and Amended, and other applicable State law; but the Council reserves the right to reject any or all proposals received and to waive informalities.

PUBLISHED by Order of the Council on the _____ day of_____A.D., 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____
Kermas Eaton, City Clerk

Publish on February 22, 2017 and March 1, 2017
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

FILE NUMBER: 2017-235 **MEETING DATE:** 02/21/2017 **MINUTE BOOK NUMBER:**

Brief Title: Approve the sale of Grave Spaces, per attached mem

Title: Approve the sale of Grave Spaces, per attached memo.

Type: Action Item

Drafter: Deborah Bourne

In Control: City Council

Reference:

Attachments: Grave Space Memo, Deeds(02-13-17), Receipts (02-13-17)

File Created: 02/13/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

Turned in 1/30/17
DB

To: CITY COUNCIL

From: John Williams, Assistant Division Manager of Cemeteries

Date: January 30, 2017

The following represents the grave spaces sold on January 30, 2017

Cleveland Earl Madison

(1) Space $ 150.00

North Half (N1/2) of the Northeast Quarter (NE1/4)

Lot 80, Section 2, South Hill Cemetery

David Wayne Mc Coy

(1) Space $ 150.00

West Half (W1/2) of the Southeast Quarter (SE ¼)

Lot 137, Section 1, South Hill Cemetery

Michael Farris

(1) Space $ 45.00

Baby Space# 35

Lot 2, Section 3, Highland Cemetery

Joan Tyler

(1) Space $ 175.00

North Half (N1/2) of the Southwest Quarter (SW1/4)

Lot 91, Section 34, Highland Cemetery

James Coleman

(1) Space $ 175.00

South Half (S1/2) of the Southeast Quarter (SE ¼)

Lot 32, Section 34, Highland Cemetery

John N. & Renee B. Galloway, Jr for: Claude Stafford

(2) Spaces $350.00

Southeast Quarter (SE1/4)

Lot 95, Section 23, Highland Cemetery

John N. & Renee B. Galloway, Jr

(3) Spaces $ 350.00

Southwest Quarter (SW ¼)

Lot 95, Section 23, Highland Cemetery

Turned in
2/1/17
DB

To: CITY COUNCIL

From: John Williams, Assistant Division Manager of Cemeteries

Date: February 1, 2017

The following represents the grave spaces sold on February 1, 2017

Robert E. & Dorothy M. Chapman

(2) Spaces $ 350.00

Northeast Quarter (NE ¼)

Lot 62, Section 34, Highland Cemetery

Turned in
2/3/17
DB

To: CITY COUNCIL

From: John Williams, Assistant Division Manager of Cemeteries

Date: February 3, 2017

The following represents the grave spaces sold on February 3, 2017

Marilyn Payne

(1) Space $ 175.00

North Half (N1/2) of the Northeast Quarter (NE1/4)

Lot 39, Section 35, Highland Cemetery

Martha L. Harris

(1) Space $ 150.00

North Half (N1/2) of the Northwest Quarter (NW1/4)

Lot 80, Section 2, South Hill Cemetery

Turned in 2/8/17
DB

To: CITY COUNCIL

From: Deborah Bourne, Assistant Division Manager of Cemeteries

Date: February 7, 2017

The following represents the grave spaces sold on February 7, 2017

Hazel M. Kersh

(1) Space $ 175.00

South Half (S1/2) of the Southeast Quarter (SE1/4)

Lot 68, Section 34, Highland Cemetery

Thelma Shepherd

(1) Space $ 175.00

North Half (N1/2) of the Northeast Quarter (NE1/4)

Lot 108, Section 24, Highland Cemetery

Veronica Lynn Scott

(1) Space $ 175.00

North Half (N1/2) of the Southwest Quarter (SW1/4)

Lot 86, Section 36, Highland Cemetery

Scott K. Smith

(2) Spaces $ 350.00

Northeast Quarter (NE1/4)

Lot 90, Section 37, Highland Cemetery

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, John N. & Renee B. Galloway, Jr, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southwest Quarter (SW ¼)

Lot Number 95 Section Number 23

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, John N. & Renee B. Galloway, Jr For: Claude Stafford, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southeast Quarter (SE ¼)

Lot Number 95 Section Number 23

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto James Coleman, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southeast Quarter (SE ¼)

Lot 32 Section 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Joan Tyler, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Southwest Quarter (SW ¼)

Lot 91 Section 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of FORTY-FIVE AND NO/100 Dollars ($45.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Michael Farris subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Baby Space #35

Lot Number: 2 Section Number: 3
according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

DEPUTY CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017.

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars ($150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto David Wayne McCoy, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

West Half (W ½) of the Southeast Quarter (SE ¼)

Lot Number: 137 Section Number: 1

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR
(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017.

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars ($150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Cleveland Earl Madison, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N ½) of the Northeast Quarter (NE ¼)

Lot Number: 80 Section Number: 2

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR
(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017.

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Robert E. & Dorothy M. Chapman, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northeast Quarter (NE ¼)

Lot Number 62 Section Number 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars ($150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Martha L. Harris, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N ½) of the Northwest Quarter (NW ¼)

Lot Number: 80 Section Number: 2

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR
(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office, on this the 21st day of February, 2017.

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Marilyn Payne, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Northeast Quarter (NE ¼)

Lot 39 Section 35

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Scott K. Smith, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northeast Quarter (NE ¼)

Lot Number 90 Section Number 37

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Veronica Lynn Scott, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Southwest Quarter (SW ¼)

Lot 86 Section 36

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Thelma Shepherd, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N½) of the Northeast Quarter (NE ¼)

Lot 108 Section 24

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Hazel M. Kersh, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S½) of the Southeast Quarter (SE ¼)

Lot 68 Section 34

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Grover L. & Olivia D. Smith, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northwest Quarter (NW ¼)

Lot Number 34 Section Number 24

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing

Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 21st day of February, 2017.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Johnny L. DuPree and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 21st day of February, 2017

Marti for
31 Pin Oak Ln.
Purvis, MS
39475

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 31 2017

SOLD TO:

Mr.. Mrs. Miss John N & Bence B. Galloway, Jr.

ADDRESS 205 Hardy Street Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

— 1/2 SW 1/4 Lot No. 95 Section No. 23 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CK #2779

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

Marti for
31 Pin Oak Ln.
Purvis, MS
39475

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 31 2017

SOLD TO:

Mr.. Mrs. Miss John N. & Bence B. Galloway, Jr. & Claude Stafford

ADDRESS 205 Hardy St. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

— 1/2 SE 1/4 Lot No. 95 Section No. 23 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CK # 2779

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 25 2017

SOLD TO:

Mr.. Mrs. Miss James Coleman

ADDRESS 210 Hillendale Dr Hattiesburg, MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

S 1/2 SE 1/4 Lot No. 32 Section No. 34 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CK # 2976

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 24 20 17

SOLD TO:

Mr.. Mrs. Miss Joan Tyler

ADDRESS 447 William Carey Parkway Apt 21 Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 SW 1/4 Lot No. 91 Section No. 34 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CK#8559

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

Mail to:
47 Rogers Rd
Hattiesburg, MS
39401

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 24 20 17

SOLD TO:

Mr.. Mrs. Miss Michael Ellis

ADDRESS 805 Hardy Street Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

Baby space #35

1/2 1/4 Lot No. 2 Section No. 3 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 45.00

Price Received $ 45.00

Ck # 4014

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 30 20 17

SOLD TO:

Mr.. Mrs. Miss David Wayne McCoy

ADDRESS 5752 Hwy 49 S. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

W 1/2 SE 1/4 Lot No. 137 Section No. 1 in South Hill Cemetery

Number of grave spaces 1 Price per grave space $ 150.00

Price Received $ 150.00

CK#8144

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., January 30 20 17

SOLD TO:

Mr.. Mrs. Miss Cleveland Earl Madison

ADDRESS 5752 Hwy 49 S. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 NE 1/4 Lot No. 80 Section No. 2 in South Hill Cemetery

Number of grave spaces 1 Price per grave space $ 150.00

Price Received $ 150.00

CK# 8142

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 01 20 17

SOLD TO:

Mr.. Mrs. Miss Robert E & Dorothy M Chapman

ADDRESS 2107 Gravel Line St Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

— 1/2 NE 1/4 Lot No. 62 Section No. 34 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CK# 2273

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

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mail to:
1311 Pawnee St.
Pascagoula, MS
39581

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 2 20 17

SOLD TO:

Mr.. Mrs. Miss Martha L. Harris

ADDRESS 103 Ashford Circle Hattiesburg, MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 NW 1/4 Lot No. 80 Section No. 2 in South Hill Cemetery

Number of grave spaces 1 Price per grave space $ 150.00

Price Received $ 150.00

CK# 1109

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 2 20 17

SOLD TO:

Mr.. Mrs. Miss Marilyn Payne

ADDRESS 707 Magnolia Ave. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ NE ¼ Lot No. 39 Section No. 35 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

cash

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 6 20 17

SOLD TO:

Mr.. Mrs. Miss Hazel M. Kersh

ADDRESS 1678 James Street, Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S ½ SE ¼ Lot No. 68 Section No. 34 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

cash

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 1 20 17

SOLD TO:

Mr.. Mrs. Miss Thelma Shepherd

ADDRESS 805 Hardy St. Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ NE ¼ Lot No. 108 Section No. 24 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CK# 52446

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 2 20 17

SOLD TO:

Mr.. Mrs. Miss Veronica Lynn Scott

ADDRESS 105 South St Hattiesburg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 SW 1/4 Lot No. 86 Section No. 36 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CK # 1068

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 02-04- 20 17

SOLD TO:

Mr.. Mrs. Miss Scott K. Smith

ADDRESS 1211 Windsor DR. Hattiesburg, Ms. 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

— 1/2 NE 1/4 Lot No. 90 Section No. 37 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

Ck # 1458

CITY OF HATTIESBURG, MISSISSIPPI

By Deborah Bowine
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., February 9 20 17

SOLD TO:

Mr.. Mrs. Miss Grover L. & Olivia D. Smith

ADDRESS 138 Monarch Blvd Hattiesburg, MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

— 1/2 NW 1/4 Lot No. 34 Section No. 24 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CK # 3451

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
GENERAL FUND							
00001 AAMCO TRANS/AUTOMOTIVE S	134403	00167786	16003089	REPRS U314497 TRAFFIC	02/17/17	255648	190.00-
AAMCO TRANS/AUTOMOTIVE S							
Sum							190.00-
00001 ACUITY GROUP OF MISSISSI	11377	00167756	16002973	MNTHLY CONTRACT 1/17	02/17/17	255649	1,134.00-
ACUITY GROUP OF MISSISSI							
Sum							1,134.00-
00001 ADAMS NURSERY	138781	00167653	16002975	TREES ARBOR DAY	02/17/17	255650	144.00-
ADAMS NURSERY							
Sum							144.00-
00001 ADVANCE AUTO PARTS	560470327887	00167603	16003193	REPRS U#13048 SANIT	02/17/17	255651	165.54-
ADVANCE AUTO PARTS							
Sum							165.54-
00001 ADVANCED CARPET CARE & R	17458	00166805	16003190	CARPET SHAMPOO DISPATCH CNTR	02/17/17	255652	192.25-
ADVANCED CARPET CARE & R							
Sum							192.25-
00001 ADVANCED JANITORIAL SERV	101050 CITY	00167576	16002817	SERVS 1/17 CITY HALL/ENGR	02/17/17	255653	1,925.00-
00001 ADVANCED JANITORIAL SERV	101050 TRAFF	00167576	16002818	SERVS 1/17 TRAFFIC	02/17/17	255653	250.00-
ADVANCED JANITORIAL SERV							
Sum							2,175.00-
00001 AFFORDABLE EMERGENCY LIG	952	00167546	16002937	REPRS U#17357/17577 POLICE	02/17/17	255654	170.00-
00001 AFFORDABLE EMERGENCY LIG	953	00167744	16003032	LIGHTBAR REPR U#20426	02/17/17	255654	85.00-
00001 AFFORDABLE EMERGENCY LIG	954	00167798	16003033	LIGHTBAR REPR U#17578/17579	02/17/17	255654	170.00-
00001 AFFORDABLE EMERGENCY LIG	955	00166919	16003225	INSTALL BODY CAMERAS 12 UNITS	02/17/17	255654	3,060.00-
AFFORDABLE EMERGENCY LIG							
Sum							3,485.00-
00001 AIRGAS USA LLC (NORDAN S	9059971914	00167728	16003049	MEDICAL OXYGEN FIRE DEPT	02/17/17	255656	64.95-
00001 AIRGAS USA LLC (NORDAN S	9942461851	00167923	16003072	CYL RENT 1/17 VARI DEPTS	02/17/17	255656	813.95-
AIRGAS USA LLC (NORDAN S							
Sum							878.90-
00001 ALLBRITTON CHAIN SAW & L	47841	00167378	16002833	CHAINSAW SUPP 2017 TORNADO	02/17/17	255657	441.00-
00001 ALLBRITTON CHAIN SAW & L	47944	00166987	16002869	CHAINSAW REPR PTS CEMETERY	02/17/17	255657	107.20-
ALLBRITTON CHAIN SAW & L							
Sum							548.20-
00001 ALWAYS IN STITCHES	2868	00167036	16002908	KNIT CAPS/LOGO ACADEMY STAFF	02/17/17	255658	258.00-
ALWAYS IN STITCHES							

Sum							258.00-
00001 AMERICAN PLANNING ASSN P	REG WHITE 5/	00167676	16002819	REG WHITE CONF NEW YORK	02/17/17	255659	830.00-
AMERICAN PLANNING ASSN P							
Sum							830.00-
00001 AMERICAN PUBLIC WORKS AS	792135 BARNE	00167580	16002843	DUES BARNES 4/17-3/18	02/17/17	255660	190.00-
AMERICAN PUBLIC WORKS AS							
Sum							190.00-
00001 ANOINTED HANDS SERVICES,	2919	00167766	16002976	SERV 2/17 EMP HEALTH CLINIC	02/17/17	255661	280.00-
ANOINTED HANDS SERVICES,							
Sum							280.00-
00001 ARNOLD LINE WATER ASSN I	2145 1/20/17	00020175	16002921	SERV 12/15-1/20/17 #8 FIRE STA	02/17/17	255662	32.00-
ARNOLD LINE WATER ASSN I							
Sum							32.00-
00001 AT&T	601 N81-8327	02017292	16002952	SERV 2/17 VARI DEPTS	02/17/17	255663	12,209.88-
00001 AT&T	601M23905500	00020175	16003017	VEHICLE LOCATOR 2/17 POLICE	02/17/17	255664	202.00-
00001 AT&T	601M26684200	00167992	16003099	INTERACT SOFTWARE SUPPORT	02/17/17	255665	6,151.00-
00001 AT&T	601M26491400	00167992	16003100	INTERACT SOFTWARE SUPPORT	02/17/17	255666	47.00-
00001 AT&T	601545491010	02017318	16003128	NEW SERV POLICE DISPATCH	02/17/17	255667	283.56-
AT&T							
Sum							18,893.44-
00001 AT&T CAPITAL SERVICES	3004649	00167960	16003103	HPD INTERACT SOFTWARE	02/17/17	255668	12,556.56-
AT&T CAPITAL SERVICES							
Sum							12,556.56-
00001 AT&T LONG DISTANCE SERVI	0266284183	02017236	16003016	LONG DISTANCE SERV 2/1/17	02/17/17	255669	205.18-
AT&T LONG DISTANCE SERVI							
Sum							205.18-
00001 AT&T MOBILITY	287273578351	00167919	16003067	SERVICE 12/16 VARI DEPTS	02/17/17	255670	5,763.42-
00001 AT&T MOBILITY	287273861504	00167972	16003105	GPS TRACKING 1/17 VARI DEPTS	02/17/17	255670	1,464.12-
AT&T MOBILITY							
Sum							7,227.54-
00001 AUTO ARMATURE SERVICE IN	08774	00167502	16002910	BATTERY U#20596 STREET	02/17/17	255671	125.95-
00001 AUTO ARMATURE SERVICE IN	08997	00167821	16003038	BATTERY U#13802 CONSTR	02/17/17	255671	127.95-
00001 AUTO ARMATURE SERVICE IN	08979	00167788	16003050	BATTERY U#16009 STREET	02/17/17	255671	428.85-
00001 AUTO ARMATURE SERVICE IN	08978	00167788	16003051	BATTERY U#18035 STREET	02/17/17	255671	138.95-
00001 AUTO ARMATURE SERVICE IN	08595	00167207	16003185	BATTERIES U#18318/16640	02/17/17	255671	305.90-
00001 AUTO ARMATURE SERVICE IN	08908	00167699	16003186	GENERATOR BATTERIES	02/17/17	255671	285.90-
00001 AUTO ARMATURE SERVICE IN	08951	00167731	16003187	BATTERY U#19345	02/17/17	255671	166.95-
00001 AUTO ARMATURE SERVICE IN	08990	00167807	16003188	BATTERIES MOBILE COMMAND	02/17/17	255671	1,000.65-
00001 AUTO ARMATURE SERVICE IN	PO#167929 2/	00167929	16003189	BATTERY U#18332	02/17/17	255671	166.95-
AUTO ARMATURE SERVICE IN							
Sum							2,748.05-

00001 AUTO GLASS-CITY GLASS SO	I212219	00167383	16002940	WINDSHIELD U#20369 TORNADO	02/17/17	255672	45.00-
AUTO GLASS-CITY GLASS SO							
Sum							45.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212314	00167450	16002932	WINDSHIELD U#19702 POLICE	02/17/17	255675	295.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212269	00167444	16002933	WINDSHIELD U#18333 TORNADO	02/17/17	255675	570.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212077	00167281	16002938	WINDOW REPR U#15212 POLICE	02/17/17	255675	254.47-
00001 AUTOMOTIVE GLASS SPECIAL	I212190	00167523	16003029	REPRS U#18763 BUS TORNADO	02/17/17	255675	1,090.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212353	00167531	16003030	COLLISION WRAP BUSES TORNADO	02/17/17	255675	870.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212484	00167705	16003104	WINDOWS U#16666 TORNADO 1/21	02/17/17	255675	3,100.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212189(A)	00167521	16003182	REPRS U#15648 TORNADO 1/21	02/17/17	255675	2,650.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212469	00167695	16003183	WINDSHIELD U#17899 TORNADO	02/17/17	255675	325.00-
00001 AUTOMOTIVE GLASS SPECIAL	I212189(B)	00168057	16003184	ADDL AMT DUE PO#167521	02/17/17	255675	225.00-
AUTOMOTIVE GLASS SPECIAL							
Sum							9,379.47-
00001 BARDING GENERATOR & STAR	160926	00167572	16003047	STARTER U#14517 FIRE DEPT	02/17/17	255676	48.50-
00001 BARDING GENERATOR & STAR	160959	00167572	16003048	ALTERNATOR U#14517 FIRE DEPT	02/17/17	255676	425.00-
BARDING GENERATOR & STAR							
Sum							473.50-
00001 BARNETT CONCRETE WORK LL	PO#167609 1/	00167609	16002982	ASBESTOS RMVL 716 E 7TH ST	02/17/17	255677	3,272.00-
BARNETT CONCRETE WORK LL							
Sum							3,272.00-
00001 BEECH, JANET	TRAV ADVANCE	00167834	16003026	TRAV ADV M TRANSIT PROCUREMNT	02/17/17	255679	1,400.00-
BEECH, JANET							
Sum							1,400.00-
00001 BENNETT'S LOCK & KEY SHO	65122	00167464	16002827	KEYS FOR DISPATCH OFFICE	02/17/17	255680	82.90-
BENNETT'S LOCK & KEY SHO							
Sum							82.90-
00001 BIG IRON DIESEL REPAIR L	RO1458	00167292	16002863	REPR PTS U#14406 SANIT	02/17/17	255682	380.00-
BIG IRON DIESEL REPAIR L							
Sum							380.00-
00001 BODY TECH INC	4750 PO#1674	00167478	16002953	REPRS U#15963 TORNADO 1/21/17	02/17/17	255684	1,097.10-
00001 BODY TECH INC	4750 PO#1676	00167641	16003163	REPRS U#18555 TORNADO 1/21	02/17/17	255684	1,479.35-
BODY TECH INC							
Sum							2,576.45-
00001 BONNER ANALYTICAL TESTIN	61617	00167921	16003073	ASBESTOS ANALYSIS 2101 W 4TH	02/17/17	255685	35.00-
BONNER ANALYTICAL TESTIN							
Sum							35.00-
00001 BRACKMAN MOWER WAREHOUSE	22855	00167602	16002870	REPLACE CHAINSAW 2017 TORNADO	02/17/17	255686	859.00-
00001 BRACKMAN MOWER WAREHOUSE	22981	00167761	16002954	CHAINSAW OIL TORNADO 1/21/17	02/17/17	255686	270.00-
00001 BRACKMAN MOWER WAREHOUSE	23113	00167856	16003154	MOTOR OIL VARI UNITS	02/17/17	255686	102.00-
BRACKMAN MOWER WAREHOUSE							
Sum							1,231.00-

00001	BRUCE ROSSMEYERS DAYTONA	01012017	00166671	16002979	MTRCYCLE LEASE 1/17-3/17	02/17/17	255689	12,420.00-
BRUCE ROSSMEYERS DAYTONA								
Sum								12,420.00-
00001	C SPIRE (MEGAGATE)	MGABUS-20587	00167962	16003097	INTERNET/NETWORK SERVICES	02/17/17	255691	17,961.40-
C SPIRE (MEGAGATE)								
Sum								17,961.40-
00001	CANON SOLUTIONS AMERICA	4021368948	00167809	16003025	COPIER 2/17 PURCHASING	02/17/17	255692	23.03-
CANON SOLUTIONS AMERICA								
Sum								23.03-
00001	CARQUEST AUTO PARTS STOR	14758-84261	00167810	16003084	DIAGNOSTIC TOOL FIRE MECHANIC	02/17/17	255693	212.00-
00001	CARQUEST AUTO PARTS STOR	14758-84262	00167814	16003085	ADDL AMT DUE PO#167810	02/17/17	255693	200.00-
00001	CARQUEST AUTO PARTS STOR	14758-84523	00168008	16003237	REPR PTS U#43 CEMETERY	02/17/17	255693	81.34-
CARQUEST AUTO PARTS STOR								
Sum								493.34-
00001	CASH & CARRY CLEANERS	K-12125	00167151	16002811	CLEANING JUDGES ROBES	02/17/17	255694	42.00-
CASH & CARRY CLEANERS								
Sum								42.00-
00001	CENTER FOR GOVERNMENT AN	REG LISA LUU	00167619	16002810	REG LUU MMCCA CERTIF TRNG CRS	02/17/17	255696	200.00-
CENTER FOR GOVERNMENT AN								
Sum								200.00-
00001	CERTIFIED ELECTRICAL TES	6243-000	00167184	16002842	INSPECTIONS BUCKET TRUCKS	02/17/17	255698	930.00-
CERTIFIED ELECTRICAL TES								
Sum								930.00-
00001	CERTIFIED LABORATORIES	2601176	00167451	16002918	CHEMICALS HEALTH DIV	02/17/17	255699	19,745.00-
00001	CERTIFIED LABORATORIES	2588104	00167194	16003155	PREMALUBE FOR SHOP	02/17/17	255699	870.00-
00001	CERTIFIED LABORATORIES	2581484	00167004	16003156	ICE PELLETS	02/17/17	255699	2,525.00-
00001	CERTIFIED LABORATORIES	2617039	00167894	16003236	CAR WASH SOAP FOR SHOP	02/17/17	255699	1,954.70-
CERTIFIED LABORATORIES								
Sum								25,094.70-
00001	CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16002800	TRF 1ST 2/17 PAYROLL	02/01/17	111564	1,086,113.08-
00001	CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16003172	TRF 2ND 2/17 PAYROLL	02/15/17	111589	1,310,930.66-
CITY OF HATTIESBURG FUND								
Sum								2,397,043.74-
00001	CLEMTS HARDWARE	117038	00167986	16003169	RAKES FOR SANIT CREW	02/17/17	255702	122.94-
CLEMTS HARDWARE								
Sum								122.94-
00001	COLEMAN, MARY (REFUNDS)	DAMAGE DEP R	02017313	16003129	DAMAGE DEPOSIT REFUND	02/17/17	255703	300.00-
COLEMAN, MARY (REFUNDS)								
Sum								300.00-
00001	COMCAST	PO#167330 1/	00167330	16003224	INSTALL CABLE 300 KLONDYKE	02/17/17	255704	2,021.70-

COMCAST								
Sum								2,021.70-
00001	COMCAST CABLEVISION OF H	095777456150	00167639	16002855	CABLE SERV 1/17 SANIT DEPT	02/17/17	255705	75.47-
00001	COMCAST CABLEVISION OF H	095777456110	00167722	16002934	CONVERTER BOX LEASE POLICE	02/17/17	255705	26.81-
00001	COMCAST CABLEVISION OF H	095776394130	00167780	16002983	CABLE TRAFFIC/CONSTR DEPTS	02/17/17	255705	6.71-
00001	COMCAST CABLEVISION OF H	095776209390	00168011	16003139	CABLE 1/30-2/28 EMP CLINIC	02/17/17	255705	150.58-
COMCAST CABLEVISION OF H								
Sum								259.57-
00001	COMMERCIAL STATIONERY CO	396738-0	00167585	16002821	SENTRY SAFE M TRANSIT TORNADO	02/17/17	255706	625.99-
COMMERCIAL STATIONERY CO								
Sum								625.99-
00001	COMSOUTH	185503	00166451	16003044	MOVE DISPATCH OFFICE EQUIP	02/17/17	255707	7,500.00-
00001	COMSOUTH	185633	00167637	16003091	RADIOS P/W CREWS TORNADO 1/21	02/17/17	255707	11,104.00-
00001	COMSOUTH	185634	00167638	16003092	RADIO CHARGERS TORNADO 1/21	02/17/17	255707	448.00-
COMSOUTH								
Sum								19,052.00-
00001	COPY CATS PRINTING	405787	00167627	16003161	PRINTED LOAD TICKETS TORNADO	02/17/17	255710	415.00-
COPY CATS PRINTING								
Sum								415.00-
00001	CUSTOM BUILT TRAILERS OF	999461	00167537	16002849	RIMS VARI UNITS 2017 TORNADO	02/17/17	255711	596.00-
CUSTOM BUILT TRAILERS OF								
Sum								596.00-
00001	D P S CRIME LAB	90058355	00167974	16003106	ANALYTICAL FEES	02/17/17	255713	480.00-
D P S CRIME LAB								
Sum								480.00-
00001	DAKTECH COMPUTERS	INV0329304	00167503	16002930	PC JOHNSON CFO OFFICE	02/17/17	255714	1,059.00-
00001	DAKTECH COMPUTERS	INV0329226	00167348	16002946	COMPUTERS PUBLIC WORKS	02/17/17	255714	2,273.00-
DAKTECH COMPUTERS								
Sum								3,332.00-
00001	DENSON OIL COMPANY INC	100954	00167023	16002923	DIESEL FOR FUEL STATION	02/17/17	255715	4,639.51-
DENSON OIL COMPANY INC								
Sum								4,639.51-
00001	DESERT SNOW LLC	5332 JARROD	00167977	16003109	REG J SMITH 2/21-23/17 CLASS	02/17/17	255716	599.00-
DESERT SNOW LLC								
Sum								599.00-
00001	DUNBAR MONROE PA	16158	00167827	16003028	SRVS CABLE FRANCHISE RENEWAL	02/17/17	255718	2,850.94-
DUNBAR MONROE PA								
Sum								2,850.94-
00001	ECONOMY SUPPLY CO	265898	00167446	16002828	COUNTER TOP PTS TEMP DISPATCH	02/17/17	255719	70.41-
00001	ECONOMY SUPPLY CO	265617	00167484	16002839	REPR SUPP TORNADO #2 FIRE STA	02/17/17	255719	75.32-
00001	ECONOMY SUPPLY CO	265350	00167406	16002862	WOOD PUBLIC WORKS '17 TORNADO	02/17/17	255719	45.60-

00001	ECONOMY SUPPLY CO	266085	00167652	16002985	BLDG MATLS CE ROY RAMP	02/17/17	255719	46.65-
00001	ECONOMY SUPPLY CO	266872	00167818	16003094	ROOF MATERIALS LIFE CENTER	02/17/17	255719	64.95-
ECONOMY SUPPLY CO								
Sum								302.93-
00001	EMERGENCY EQUIPMENT PROF	424976	00167558	16002981	REPR PTS U#13932 FIRE DEPT	02/17/17	255721	964.20-
00001	EMERGENCY EQUIPMENT PROF	425093	00167799	16003146	SIREN U#15491 FIRE DEPT	02/17/17	255721	280.45-
EMERGENCY EQUIPMENT PROF								
Sum								1,244.65-
00001	EMPIRE TRUCK SALES (H'BU	CE006118849:	00167648	16002955	REPRS U#15893 TORNADO 1/21/17	02/17/17	255722	167.75-
00001	EMPIRE TRUCK SALES (H'BU	CE006118717:	00167614	16002956	REPR PTS U#15893 TORNADO 1/21	02/17/17	255722	187.75-
00001	EMPIRE TRUCK SALES (H'BU	CE006118427:	00167615	16002987	REPR PTS U#20091 SANIT	02/17/17	255722	42.51-
EMPIRE TRUCK SALES (H'BU								
Sum								398.01-
00001	EXPRESS PRESS	32120	00167441	16003077	POLO SHIRTS	02/17/17	255724	1,730.96-
00001	EXPRESS PRESS	32148	00167518	16003078	M/C SHIRTS JARVIS K-9 SMITH	02/17/17	255724	427.25-
EXPRESS PRESS								
Sum								2,158.21-
00001	FARRIS, JONATHAN M ATTOR	20283	00167779	16002969	PRO TEMP JUDGE 1/3-25/17	02/17/17	255725	2,825.00-
FARRIS, JONATHAN M ATTOR								
Sum								2,825.00-
00001	FASTENAL COMPANY	MSHAT196538	00167458	16002865	WORK GLOVES PUBLIC WORKS	02/17/17	255726	50.54-
00001	FASTENAL COMPANY	MSHAT196539	00167488	16002947	SAFETY WEAR TORNADO 1/21/17	02/17/17	255726	625.85-
00001	FASTENAL COMPANY	MSHAT196629	00167488	16002948	SAFETY WEAR TORNADO 1/21/17	02/17/17	255726	673.75-
00001	FASTENAL COMPANY	MSHAT196805	00167642	16003034	REPR PTS U#15064/STOCK	02/17/17	255726	718.74-
00001	FASTENAL COMPANY	MSHAT196740	00167591	16003055	BATHROOM ACCESSORIES LIFE CTR	02/17/17	255726	195.20-
00001	FASTENAL COMPANY	MSHAT196883	00167751	16003093	RAINSUITS P/W TORNADO 1/21	02/17/17	255726	612.90-
00001	FASTENAL COMPANY	MSHAT196927	00167935	16003153	GENERAL SUPP TRAFFIC DEPT	02/17/17	255726	143.81-
00001	FASTENAL COMPANY	MSHAT196814	00167775	16003220	PAPER TOWELS/SOAP MUN COURT	02/17/17	255726	88.07-
00001	FASTENAL COMPANY	MSHAT196975	00167775	16003221	PAPER TOWELS/SOAP MUN COURT	02/17/17	255726	88.07-
FASTENAL COMPANY								
Sum								3,196.93-
00001	FEDERAL EXPRESS	5-641-92033	00167999	16003140	SERV 12/7/16 M/ADM	02/17/17	255727	51.26-
FEDERAL EXPRESS								
Sum								51.26-
00001	FERGUSON ENTERPRISES INC	6462930	00167477	16002857	PIPE FOR PUBLIC WORKS	02/17/17	255728	423.88-
00001	FERGUSON ENTERPRISES INC	6447259	00167340	16002858	FAUCET KIT FOR LIFE CENTER	02/17/17	255728	83.16-
00001	FERGUSON ENTERPRISES INC	6456834	00167410	16002859	TOILET/PTS FOR LIFE CENTER	02/17/17	255728	178.36-
00001	FERGUSON ENTERPRISES INC	6054927-1	00164086	16003014	SUPP LIFE CENTER	02/17/17	255728	17.54-
FERGUSON ENTERPRISES INC								
Sum								702.94-
00001	FLOWERS BY MARIAM	PO#164995 12	00164995	16003136	PINK RIBBONS	02/17/17	255729	240.00-
FLOWERS BY MARIAM								

Sum								240.00-
00001	FORREST GENERAL HOSPITAL EAP CHARGE 2		00167575	16002820	EAP CHARGE 2/17	02/17/17	255730	1,785.00-
FORREST GENERAL HOSPITAL								
Sum								1,785.00-
00001	FUELMAN OF MS	BG127044 NP4	00167601	16002825	FUEL CHGS 1/16-22/17 POLICE	02/17/17	255732	34.62-
00001	FUELMAN OF MS	BG127044 NP4	00167608	16002852	GAS VARI UNITS 2017 TORNADO	02/17/17	255732	120.72-
00001	FUELMAN OF MS	BG127044 NP4	00167895	16003069	FUEL CHG 12/6/16 RUSSELL MPO	02/17/17	255732	17.46-
00001	FUELMAN OF MS	BG127044 NP4	00167895	16003070	FUEL CHG 12/4/16 RUSSELL MPO	02/17/17	255732	15.72-
FUELMAN OF MS								
Sum								188.52-
00001	FV RECYCLING	2017-0191	00167800	16002990	RECYCLE FEES 1/17 SANIT	02/17/17	255733	48.00-
00001	FV RECYCLING	2017-0220	00167800	16002991	RECYCLE FEES 1/17 SANIT	02/17/17	255733	116.25-
00001	FV RECYCLING	2017-0221	00167800	16002992	RECYCLE FEES 1/17 SANIT	02/17/17	255733	36.75-
00001	FV RECYCLING	2017-0222	00167800	16002993	RECYCLE FEES 1/17 SANIT	02/17/17	255733	100.25-
FV RECYCLING								
Sum								301.25-
00001	G & K SERVICES	1035805073	00167655	16002881	UNIFORMS 1/30 TRAFFIC	02/17/17	255742	97.47-
00001	G & K SERVICES	1035805072	00167655	16002882	UNIFORMS 1/30 CONSTR	02/17/17	255742	70.91-
00001	G & K SERVICES	1035805087	00167655	16002883	UNIFORMS 1/30 PUBLIC WORKS	02/17/17	255742	70.56-
00001	G & K SERVICES	1035805084	00167655	16002884	UNIFORMS 1/30 PUBLIC WORKS	02/17/17	255742	27.30-
00001	G & K SERVICES	1035805086	00167655	16002885	UNIFORMS 1/30 PUBLIC WORKS	02/17/17	255742	64.53-
00001	G & K SERVICES	1035805088	00167655	16002886	UNIFORMS 1/30 SHOP	02/17/17	255742	48.40-
00001	G & K SERVICES	1035805085	00167655	16002887	UNIFORMS 1/30 SANIT	02/17/17	255742	171.10-
00001	G & K SERVICES	1035805089	00167655	16002888	UNIFORMS 1/30 HEALTH	02/17/17	255742	64.55-
00001	G & K SERVICES	1035805074	00167654	16002889	MATS 1/30 TRAFFIC	02/17/17	255742	6.40-
00001	G & K SERVICES	1035805090	00167654	16002890	MOP/MAT 1/30 GO&FS	02/17/17	255742	24.80-
00001	G & K SERVICES	1035805091	00167654	16002891	MOP/MAT 1/30 SANIT	02/17/17	255742	26.65-
00001	G & K SERVICES	1035805092	00167654	16002892	MATS 1/30 AIRPORT	02/17/17	255742	4.70-
00001	G & K SERVICES	1035796567	00167595	16002893	UNIFORMS 1/02 CEM/FORESTRY	02/17/17	255742	49.64-
00001	G & K SERVICES	1035798696	00167595	16002894	UNIFORMS 1/09 CEM/FORESTRY	02/17/17	255742	49.64-
00001	G & K SERVICES	1035800825	00167595	16002895	UNIFORMS 1/16 CEM/FORESTRY	02/17/17	255742	49.64-
00001	G & K SERVICES	1035802945	00167595	16002896	UNIFORMS 1/23 CEM/FORESTRY	02/17/17	255742	49.64-
00001	G & K SERVICES	1035805069	00167595	16002897	UNIFORMS 1/30 CEM/FORESTRY	02/17/17	255742	49.64-
00001	G & K SERVICES	1035796566	00167595	16002898	MOP/MAT 1/02 CEM/FORESTRY	02/17/17	255742	22.70-
00001	G & K SERVICES	103578695	00167595	16002899	MOP/MAT 1/09 CEM/FORESTRY	02/17/17	255742	22.70-
00001	G & K SERVICES	1035800824	00167595	16002900	MOP/MAT 1/16 CEM/FORESTRY	02/17/17	255742	22.70-
00001	G & K SERVICES	1035802944	00167595	16002901	MOP/MAT 1/23 CEM/FORESTRY	02/17/17	255742	22.70-
00001	G & K SERVICES	1035805068	00167595	16002902	MOP/MAT 1/30 CEM/FORESTRY	02/17/17	255742	22.70-
00001	G & K SERVICES	1035807186	00167792	16003002	UNIFORMS 2/06 TRAFFIC	02/17/17	255742	42.35-
00001	G & K SERVICES	1035807185	00167792	16003003	UNIFORMS 2/06 CONSTR	02/17/17	255742	56.91-
00001	G & K SERVICES	1035807200	00167792	16003004	UNIFORMMS 2/06 PUBLIC WORKS	02/17/17	255742	70.56-
00001	G & K SERVICES	1035807197	00167792	16003005	UNIFORMS 2/06 PUBLIC WORKS	02/17/17	255742	27.30-
00001	G & K SERVICES	1035807199	00167792	16003006	UNIFORMS 2/06 PUBLIC WORKS	02/17/17	255742	64.53-
00001	G & K SERVICES	1035807201	00167792	16003007	UNIFORMS 2/06 SHOP	02/17/17	255742	48.40-
00001	G & K SERVICES	1035807198	00167792	16003008	UNIFORMS 2/06 SANIT	02/17/17	255742	174.64-
00001	G & K SERVICES	1035807202	00167792	16003009	UNIFORMS 2/06 HEALTH	02/17/17	255742	64.55-
00001	G & K SERVICES	1035807187	00167793	16003010	MATS 2/06 TRAFFIC	02/17/17	255742	6.40-
00001	G & K SERVICES	1035807203	00167793	16003011	MOP/MAT 2/06 GO&FS	02/17/17	255742	24.80-
00001	G & K SERVICES	1035807204	00167793	16003012	MOP/MAT 2/06 SANIT	02/17/17	255742	26.65-

00001	G & K SERVICES	1035807205	00167793	16003013	MATS 2/06 AIRPORT	02/17/17	255742	4.70-
00001	G & K SERVICES	1035790077	00168028	16003197	UNIFORMS 12/12 FED/STATE	02/17/17	255742	4.55-
00001	G & K SERVICES	1035792247	00168028	16003198	UNIFORMS 12/19 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035794405	00168028	16003199	UNIFORMSF 12/26 FED/STATE PRG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035678199	00168028	16003200	UNIFORMS 12/28 FED/STATE PROG	02/17/17	255742	4.17-
00001	G & K SERVICES	1035796570	00168028	16003201	UNIFORMS 1/02 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035798699	00168028	16003202	UNIFORMS 1/09 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035805075	00168028	16003203	UNIFORMS 1/30 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035809292	00168028	16003204	UNIFORMS 2/13 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035807188	00168028	16003205	UNIFORMS 2/06 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035802948	00168028	16003206	UNIFORMS 1/23 FED/STATE PROG	02/17/17	255742	4.55-
00001	G & K SERVICES	1035809290	00168026	16003207	UNIFORMS 2/13 TRAFFIC	02/17/17	255742	31.37-
00001	G & K SERVICES	1035809289	00168026	16003208	UNIFORMS 2/13 CONSTR	02/17/17	255742	56.91-
00001	G & K SERVICES	1035809304	00168026	16003209	UNIFORMS 2/13 PUBLIC WORKS	02/17/17	255742	70.56-
00001	G & K SERVICES	1035809301	00168026	16003210	UNIFORMS 2/13 PUBLIC WORKS	02/17/17	255742	27.30-
00001	G & K SERVICES	1035809303	00168026	16003211	UNIFORMS 2/13 PUBLIC WORKS	02/17/17	255742	64.53-
00001	G & K SERVICES	1035809305	00168026	16003212	UNIFORMS 2/13 SHOP	02/17/17	255742	48.40-
00001	G & K SERVICES	1035809302	00168026	16003213	UNIFORMS 2/13 SANIT	02/17/17	255742	174.64-
00001	G & K SERVICES	1035809306	00168026	16003214	UNIFORMS 2/13 HEALTH	02/17/17	255742	84.55-
00001	G & K SERVICES	1035809291	00168027	16003215	MATS 2/13 TRAFFIC	02/17/17	255742	6.40-
00001	G & K SERVICES	1035809307	00168027	16003216	MOP/MAT 2/13 GO&FS	02/17/17	255742	24.80-
00001	G & K SERVICES	1035809308	00168027	16003217	MOP/MAT 2/13 SANIT	02/17/17	255742	26.65-
00001	G & K SERVICES	1035809309	00168027	16003218	MATS 2/13 AIRPORT	02/17/17	255742	4.70-
G & K SERVICES								
Sum								2,316.79-
00001	GARNER LUMLEY ELECTRIC S	532807	00167171	16002860	ELEC SUPP FOR LIFE CENTER	02/17/17	255743	1,451.46-
00001	GARNER LUMLEY ELECTRIC S	532564	00166964	16002867	LIGHT BULBS AIRPORT	02/17/17	255743	302.00-
GARNER LUMLEY ELECTRIC S								
Sum								1,753.46-
00001	GILLILANDS ELECTRONICS S	63479	00167796	16002970	MNTHLY PHONE RENTAL MUN COURT	02/17/17	255744	261.99-
00001	GILLILANDS ELECTRONICS S	62753	00167958	16003138	FIRE ALARM SERV TRAIN DEPOT	02/17/17	255744	134.96-
GILLILANDS ELECTRONICS S								
Sum								396.95-
00001	GULF COAST OFFICE PRODUC	27699-0	00167504	16002814	OFFICE SUPP PLANNING DEPT	02/17/17	255748	104.07-
00001	GULF COAST OFFICE PRODUC	27699-1	00167504	16002815	OFFICE SUPP PLANNING DEPT	02/17/17	255748	31.08-
00001	GULF COAST OFFICE PRODUC	27756-0	00167727	16003087	OFFICE SUPP LAND CODE	02/17/17	255748	244.20-
GULF COAST OFFICE PRODUC								
Sum								379.35-
00001	H'BURG CLINIC PA (ACCT#2	1028000103 4	00167934	16003082	PSY TEST LATERAL KINSEY	02/17/17	255749	275.00-
H'BURG CLINIC PA (ACCT#2								
Sum								275.00-
00001	H'BURG COCA COLA BOTTLIN	1097214615	00167530	16002809	BOTTLED WATER COUNCIL OFFICE	02/17/17	255750	68.50-
H'BURG COCA COLA BOTTLIN								
Sum								68.50-
00001	H'BURG HYDRAULICS INC	67864	00167686	16002994	REPR PTS U#11356 AIRPORT	02/17/17	255751	227.46-
00001	H'BURG HYDRAULICS INC	67883	00167752	16003041	REPR PTS U#16010 CEMETERY	02/17/17	255751	152.66-

00001 H'BURG HYDRAULICS INC	68051	00168009	16003162	REPR PTS U#15893/15892	02/17/17	255751	645.60-
H'BURG HYDRAULICS INC							
Sum							1,025.72-
00001 HEALTHWORKS LLC	20105730	00167889	16003059	POST ACCIDENT DRUG SCREEN	02/17/17	255752	70.00-
HEALTHWORKS LLC							
Sum							70.00-
00001 HICKS LAW FIRM, LLC	8078	00167917	16003071	SERV R WARD VS CITY POLICE	02/17/17	255753	1,809.93-
HICKS LAW FIRM, LLC							
Sum							1,809.93-
00001 HILL, LEROY COFFEE CO IN	898236	00167849	16003058	COFFEE SERV M/ADM	02/17/17	255754	66.39-
HILL, LEROY COFFEE CO IN							
Sum							66.39-
00001 HOL-MAC CORPORATION	337631	00167683	16002957	REPRS VARI UNITS TORNADO 1/21	02/17/17	255756	1,134.20-
00001 HOL-MAC CORPORATION	337730	00167813	16003170	REPR PTS U#15893 SANIT	02/17/17	255756	153.01-
HOL-MAC CORPORATION							
Sum							1,287.21-
00001 HUGHES SUPPLY	S149309196.0	00167335	16002861	A/C SUPP TRAFF/CONSTR OFFICE	02/17/17	255757	191.37-
HUGHES SUPPLY							
Sum							191.37-
00001 INDOFF INC	2915997	00167596	16003046	JANIT SUPP FIRE DEPT	02/17/17	255760	687.82-
00001 INDOFF INC	2914759	00167571	16003052	PRINTER BARNES TORNADO 1/21	02/17/17	255760	199.99-
00001 INDOFF INC	2916129	00167956	16003168	PRINTER SANIT DEPT	02/17/17	255760	199.99-
INDOFF INC							
Sum							1,087.80-
00001 INTAPOL INDUSTRIES, INC	04120	00167328	16002905	MTRCYCLE HELMETS VARI INDIV	02/17/17	255761	1,606.44-
INTAPOL INDUSTRIES, INC							
Sum							1,606.44-
00001 INTERNATIONAL POLICE MOU	2017 DUES TA	00167973	16003107	2017 DUES TAPP	02/17/17	255762	60.00-
INTERNATIONAL POLICE MOU							
Sum							60.00-
00001 IRBY, STUART C CO	S009929632.0	00166203	16003056	ELEC SUPP TEMP DISPATCH LOC	02/17/17	255764	37.31-
00001 IRBY, STUART C CO	S010029983.0	00167730	16003166	ELEC SUPP LIFE CENTER	02/17/17	255764	67.87-
00001 IRBY, STUART C CO	S010029983.0	00167730	16003167	ELEC SUPP LIFE CENTER	02/17/17	255764	14.85-
IRBY, STUART C CO							
Sum							120.03-
00001 JOHNNY'S WRECKER SERVICE	32153	00167789	16003054	TOWING U#11302 STREET	02/17/17	255768	250.00-
JOHNNY'S WRECKER SERVICE							
Sum							250.00-
00001 JONES-RUSSELL, CAROL L	JUDGE PRO TE	00167611	16002812	JUDGE PRO TEM SERVS COURT	02/17/17	255770	2,100.00-
JONES-RUSSELL, CAROL L							

Sum								2,100.00-
00001	K & K TRUCK-TRAILER PART	65594	00167560	16002988	REPR PTS U#11761 SANIT	02/17/17	255773	49.06-
00001	K & K TRUCK-TRAILER PART	65665	00167783	16003160	AXLE U#13029	02/17/17	255773	210.00-
K & K TRUCK-TRAILER PART								
Sum								259.06-
00001	KEELING COMPANY (HATTIES	S3142165.001	00167644	16003157	DRAIN PIPE PUB WORKS STOCK	02/17/17	255775	368.80-
00001	KEELING COMPANY (HATTIES	S3142165.002	00167644	16003158	DRAIN PIPE PUB WORKS STOCK	02/17/17	255775	3,529.20-
KEELING COMPANY (HATTIES								
Sum								3,898.00-
00001	KIDS HUB	KIDS HUB ADV	00168042	16003181	AD KIDS HUB ADVOCACY CENTER	02/17/17	255778	2,500.00-
KIDS HUB								
Sum								2,500.00-
00001	KRONOS INCORPORATED	11147616	00167957	16003101	SOFTWARE SUPPORT	02/17/17	255780	9,088.00-
KRONOS INCORPORATED								
Sum								9,088.00-
00001	LANCASTER'S MACHINE & WE	23004	00167743	16002995	KNUCKLEBOOM LOADER REPR CEM	02/17/17	255782	225.00-
LANCASTER'S MACHINE & WE								
Sum								225.00-
00001	LARD OIL COMPANY	0824412-IN	00167688	16002916	MOTOR OIL SANIT DEPT	02/17/17	255783	2,040.66-
LARD OIL COMPANY								
Sum								2,040.66-
00001	LARRY'S WRECKER SERVICE	1297	00167599	16002831	TOWING U#19345 POLICE	02/17/17	255784	55.00-
00001	LARRY'S WRECKER SERVICE	1391	00167599	16002832	TOWING U#19340 POLICE	02/17/17	255784	55.00-
00001	LARRY'S WRECKER SERVICE	2756	00167872	16003061	TOWING U#19340 POLICE	02/17/17	255784	55.00-
00001	LARRY'S WRECKER SERVICE	2853	00167941	16003083	TOWING U#18204 POLICE	02/17/17	255784	55.00-
LARRY'S WRECKER SERVICE								
Sum								220.00-
00001	LAUREL MACHINE & FOUNDRY	526470	00167205	16002847	FLAT BAR/PIPE PUBLIC WORKS	02/17/17	255785	1,835.50-
LAUREL MACHINE & FOUNDRY								
Sum								1,835.50-
00001	LINEBARGER GOGGAN BLAIR	1/13/2017	02017277	16002919	POLICE FINES COLL.FEE	02/17/17	255787	783.03-
00001	LINEBARGER GOGGAN BLAIR	1/31/2017	02017307	16003063	POLICE FINES COLL.FEE	02/17/17	255787	499.53-
LINEBARGER GOGGAN BLAIR								
Sum								1,282.56-
00001	LOWE'S HOME IMPROVEMENT	902648	00166774	16002846	QUIKCRETE PUBLIC WORKS	02/17/17	255789	158.34-
00001	LOWE'S HOME IMPROVEMENT	967392	00166933	16002868	HAND TOOLS CEMETERY	02/17/17	255789	375.14-
LOWE'S HOME IMPROVEMENT								
Sum								533.48-
00001	LOWE'S OF HATTIESBURG IN	953831	00167425	16002822	BLDG SUPP MASS TRANSIT	02/17/17	255788	131.72-
00001	LOWE'S OF HATTIESBURG IN	936790	00167129	16002834	GARDEN HOSE #8 FIRE STA	02/17/17	255788	75.97-
00001	LOWE'S OF HATTIESBURG IN	967317	00167425	16002872	BAL STMT	02/17/17	255788	27.06-

00001 LOWE'S OF HATTIESBURG IN	967318	00167425	16002873	BAL STMT	02/17/17	255788	27.06
LOWE'S OF HATTIESBURG IN							
Sum							207.69-
00001 M & E OIL SERVICES, INC	PO#167584 11	00167584	16002838	WASTE OIL REMOVAL FIRE DEPT	02/17/17	255791	75.00-
M & E OIL SERVICES, INC							
Sum							75.00-
00001 MAC PAPERS	381979	00167403	16002813	CARD/BOOKLET PAPER M/ADM	02/17/17	255793	79.38-
MAC PAPERS							
Sum							79.38-
00001 MCALISTERS DELI	PO#167914 2/	00167914	16003141	LUNCHES EMER HOUSING MEETING	02/17/17	255794	156.25-
MCALISTERS DELI							
Sum							156.25-
00001 MCCi LLC	00010640	00167735	16002927	SCAN/INDEX POL/COURT RECORDS	02/17/17	255795	2,861.64-
00001 MCCi LLC	00010702	00167959	16003102	LASERFICHE SOFTWARE MAINT	02/17/17	255795	17,437.10-
MCCi LLC							
Sum							20,298.74-
00001 MCELHANEY PLUMBING INC	252434	00167516	16002824	DRAIN SUPP POLICE DEPT	02/17/17	255796	37.80-
00001 MCELHANEY PLUMBING INC	253436	00167916	16003095	PLUMB SUPP PUBLIC WORKS	02/17/17	255796	52.49-
MCELHANEY PLUMBING INC							
Sum							90.29-
00001 MCMULLAN EQUIPMENT CO	3740061C	00168065	16003191	PROGRAM KEY	02/17/17	255797	50.00-
MCMULLAN EQUIPMENT CO							
Sum							50.00-
00001 METRIX SOLUTIONS	M22339	00165241	16002816	PORTSERVER AND SOFTWARE	02/17/17	255799	15,759.81-
METRIX SOLUTIONS							
Sum							15,759.81-
00001 METRO CRIMESTOPPERS INC	CITY COURT C	02017273	16002802	CITY COURT COSTS 1/17	02/02/17	111568	1,202.71-
METRO CRIMESTOPPERS INC							
Sum							1,202.71-
00001 MID SOUTH UNIFORM & SUPP	557970	00165944	16002931	BODY ARMOR CARRIER C DANIELS	02/17/17	255801	155.00-
00001 MID SOUTH UNIFORM & SUPP	558168	00165908	16003079	BODY ARMOR CARRIER HERRIN	02/17/17	255801	155.00-
00001 MID SOUTH UNIFORM & SUPP	558147	00166968	16003080	NAME PLATES/UNIFORMS-LATERALS	02/17/17	255801	996.97-
00001 MID SOUTH UNIFORM & SUPP	558167	00167522	16003081	L/S SHIRTS	02/17/17	255801	130.00-
MID SOUTH UNIFORM & SUPP							
Sum							1,436.97-
00001 MOLLY MAID	SERVS 2/17 C	00167691	16002917	SERVS 2/17 HILND CEMETERY	02/17/17	255803	245.00-
MOLLY MAID							
Sum							245.00-
00001 MOORE'S LOCK AND KEY LLC	22164	00167964	16003151	FABRICATE NEW KEY FIRE DEPT	02/17/17	255805	100.00-

MOORE'S LOCK AND KEY LLC

Sum								100.00-
00001	MR. SIPPI BEVERAGES	020893	00167640	16002829	DRINKING WATER POLICE DEPT	02/17/17	255807	180.20-
00001	MR. SIPPI BEVERAGES	004542	00167640	16002830	DRINKING WATER POLICE DEPT	02/17/17	255807	154.35-

MR. SIPPI BEVERAGES

Sum								334.55-
00001	MS ASSN OF CODE ENFORCEM	62546187 MCK	00168054	16003192	REG MCKINLEY 3/9-10 MERIDIAN	02/17/17	255808	50.00-

MS ASSN OF CODE ENFORCEM

Sum								50.00-
00001	MS ASSN OF PUBLIC FIRE S	2017 DUES RO	00167949	16003110	2J017 DUES ROBERTS	02/17/17	255809	100.00-
00001	MS ASSN OF PUBLIC FIRE S	2017 DUES RU	00167949	16003111	2017 DUES RUSSELL	02/17/17	255809	100.00-

MS ASSN OF PUBLIC FIRE S

Sum								200.00-
00001	MS DEPT OF INFORMATION T	IN 601 COH19	02017270	16002920	LONG DIST 1/17 VARI DEPTS	02/17/17	255810	203.32-
00001	MS DEPT OF INFORMATION T	COZ27Z272373	02017288	16002996	POLICE WAN CIRCUIT CHG 1/17	02/17/17	255810	224.00-

MS DEPT OF INFORMATION T

Sum								427.32-
00001	MS POWER COMPANY	2/17 GENERAL	00020179	16003131	MNTHLY ELEC-GENERAL	02/17/17	255814	13,954.78-

MS POWER COMPANY

Sum								13,954.78-
00001	MS STATE DEVELOPMENT AUT	GRANT #R-103	02017295	16003018	HCL LEVERAGE LENDER, LLC	02/08/17	111583	10,117.67-

MS STATE DEVELOPMENT AUT

Sum								10,117.67-
00001	MS STATE/SECRETARY OF ST	103771 HICKS	00168032	16003175	NOTARY RNWL HICKS CORRECTION	02/17/17	255816	25.00-
00001	MS STATE/SECRETARY OF ST	104622 CHAPM	00168032	16003176	NOTARY RNWL CHAPMAN CORRECTN	02/17/17	255816	25.00-

MS STATE/SECRETARY OF ST

Sum								50.00-
00001	MS STATE/TAX COMM/TAX EX	PO#167773 2/	00167773	16002978	RNWL/NEW TAGS UNDERCOVER UNTS	02/17/17	255817	254.50-

MS STATE/TAX COMM/TAX EX

Sum								254.50-
00001	MS STATE/TREASURER/FINAN	FINE COLLECT	02017274	16002806	FINE COLLECTIONS 1/17	02/02/17	111572	62,801.72-

MS STATE/TREASURER/FINAN

Sum								62,801.72-
00001	MS TURF	953976	00167064	16003031	INSTALL SOD TEMP POLICE DEPT	02/17/17	255818	3,000.00-

MS TURF

Sum								3,000.00-
00001	N & H ELECTRONIC DISTRIB	168084	00167690	16003045	ZIP TIES EVIDENCE COLLECTION	02/17/17	255819	53.00-
00001	N & H ELECTRONIC DISTRIB	168324	00167839	16003076	FIBER CONNECTION BOX ACCTG	02/17/17	255819	89.00-
00001	N & H ELECTRONIC DISTRIB	168323	00167840	16003222	FIBER CONNECT BOX CITY HALL	02/17/17	255819	89.00-

N & H ELECTRONIC DISTRIB

Sum								231.00-
00001	NAPA AUTO PARTS	557312	00167573	16002837	REPR PTS FIRE MECHANIC/STOCK	02/17/17	255820	378.64-
00001	NAPA AUTO PARTS	554337	00165902	16002856	COUPLERS FOR SHOP	02/17/17	255820	38.72-
00001	NAPA AUTO PARTS	557432	00167657	16003147	REPR PTS VARI UNITS/STOCK	02/17/17	255820	137.23-
00001	NAPA AUTO PARTS	557683	00167817	16003148	MAINT SUPP U#20315 FIRE DEPT	02/17/17	255820	98.78-
NAPA AUTO PARTS								
Sum								653.37-
00001	NEWELL PAPER COMPANY	891288	00167702	16003053	COPY PAPER P/W TORNADO 1/21	02/17/17	255822	251.00-
00001	NEWELL PAPER COMPANY	891505	00167776	16003135	JANIT SUPP MUN COURT	02/17/17	255822	583.33-
NEWELL PAPER COMPANY								
Sum								834.33-
00001	NORFOLK SOUTHERN CORP	90283869	00167890	16003074	2/17 LEASE RR ST PK LOT	02/17/17	255823	1,900.00-
NORFOLK SOUTHERN CORP								
Sum								1,900.00-
00001	OFFICE DEPOT INC	2028995597(A	00167300	16002844	PRINTER SUPP BARNES PUB WORKS	02/17/17	255825	93.96-
00001	OFFICE DEPOT INC	2028995597(B	00167285	16002845	ADDL AMT DUE PO#167300	02/17/17	255825	72.60-
00001	OFFICE DEPOT INC	2031281543	00167312	16002951	FAX MACH TONER PUBLIC WORKS	02/17/17	255825	60.39-
00001	OFFICE DEPOT INC	2034792183	00167698	16003075	OFFICE SUPP PURCHASING DEPT	02/17/17	255825	28.66-
00001	OFFICE DEPOT INC	900255214001	00167694	16003088	BACK UP BATTERY TRAFF OFFICE	02/17/17	255825	61.42-
00001	OFFICE DEPOT INC	2031278128	00167432	16003143	PRINTER POLICE DEPT	02/17/17	255825	145.99-
00001	OFFICE DEPOT INC	900267644001	00167708	16003145	STORAGE CONTAINERS P/F ACDMY	02/17/17	255825	62.64-
OFFICE DEPOT INC								
Sum								525.66-
00001	OVERHEAD DOOR CO OF HBUR	79521	00167604	16002943	BAY DOOR REPR #7 FIRE STA	02/17/17	255826	431.00-
OVERHEAD DOOR CO OF HBUR								
Sum								431.00-
00001	OWENS BUSINESS MACHINES	325930	00167590	16002850	FAX MACHINE TORNADO 2017	02/17/17	255827	840.00-
00001	OWENS BUSINESS MACHINES	324997	00168035	16003177	COPIER 2/17 M/ADM	02/17/17	255827	187.00-
00001	OWENS BUSINESS MACHINES	324998	00168035	16003178	COPIER 1/17 M/ADM	02/17/17	255827	39.03-
OWENS BUSINESS MACHINES								
Sum								1,066.03-
00001	PALM PROPERTY DEVELOPMEN	MB#2014/198-	02017294	16003015	DL RENEWAL STATION LEASE PYMT	02/17/17	255828	1,100.00-
PALM PROPERTY DEVELOPMEN								
Sum								1,100.00-
00001	PATTERSON AUTO ELECTRIC	18957	00167519	16002904	REPRS U#18572 BUS '17 TORNADO	02/17/17	255829	355.77-
PATTERSON AUTO ELECTRIC								
Sum								355.77-
00001	PEARL RIVER VALLEY EPA (	2/17 GENERAL	00020179	16003132	MNTHLY 2/17 PUBLIC SERVICES	02/17/17	255830	6,414.39-
PEARL RIVER VALLEY EPA (								
Sum								6,414.39-
00001	PEARL TO LEAF RIVER RAIL	CONTRIBUTION	00167816	16003040	ANNUAL CONTRIBUTION	02/17/17	255831	106,380.00-

PEARL TO LEAF RIVER RAIL

Sum							106,380.00-
00001	PINE BELT MENTAL HEALTHC JAN-17	00167892	16003068	JAIL DIVERSION GRANT 1/17	02/17/17	255833	1,642.14-

PINE BELT MENTAL HEALTHC

Sum							1,642.14-
00001	PINE BELT OIL COMPANY IN 10445081	00167570	16002807	GAS FOR FUEL STATION	02/17/17	255835	11,070.81-
00001	PINE BELT OIL COMPANY IN 10409291	00167570	16002808	DIESEL FOR FUEL STATION	02/17/17	255835	8,179.11-
00001	PINE BELT OIL COMPANY IN 10409101	00167025	16002924	GAS FOR FUEL STATION	02/17/17	255835	8,315.67-
00001	PINE BELT OIL COMPANY IN 10409161	00167248	16002925	GAS FOR FUEL STATION	02/17/17	255835	9,891.41-
00001	PINE BELT OIL COMPANY IN 10447171	00167248	16002926	DIESEL FOR FUEL STATION	02/17/17	255835	6,514.25-
00001	PINE BELT OIL COMPANY IN EMER MGT 1/1	00167802	16002966	REMOTE SITE FUEL CHGS 1/17	02/17/17	255835	1,313.38-
00001	PINE BELT OIL COMPANY IN POLICE 1/1-1	00167802	16002967	REMOTE SITE FUEL CHGS 1/17	02/17/17	255835	1,617.65-
00001	PINE BELT OIL COMPANY IN FIRE 1/1-1/3	00167802	16002968	REMOTE SITE FUEL CHGS 1/17	02/17/17	255835	1,285.94-
00001	PINE BELT OIL COMPANY IN 10409232	00167413	16003019	GAS FOR FUEL STATION	02/17/17	255835	8,235.72-
00001	PINE BELT OIL COMPANY IN 10409231	00167413	16003020	DIESEL FOR FUEL STATION	02/17/17	255835	6,559.44-
00001	PINE BELT OIL COMPANY IN 10445051	00167768	16003023	GAS FOR FUEL STATION	02/17/17	255835	11,120.11-
00001	PINE BELT OIL COMPANY IN 10447341	00167768	16003024	DIESEL FOR FUEL STATION	02/17/17	255835	7,381.71-
00001	PINE BELT OIL COMPANY IN 10339911	00167607	16003036	REPR GAS PUMPS TORNADO 1/21	02/17/17	255835	803.85-
00001	PINE BELT OIL COMPANY IN 2740914	00167873	16003060	DIESEL PURCHASE TORNADO 1/21	02/17/17	255835	459.80-
00001	PINE BELT OIL COMPANY IN 10409061	00166861	16003173	GAS FOR FUEL STATION	02/17/17	255835	8,430.15-
00001	PINE BELT OIL COMPANY IN 10407331	00166861	16003174	DIESEL FOR FUEL STATION	02/17/17	255835	5,144.66-
00001	PINE BELT OIL COMPANY IN 10393611	00167968	16003219	GAS FOR FUEL STATION	02/17/17	255835	11,484.92-

PINE BELT OIL COMPANY IN

Sum							107,808.58-
00001	PUCKETT MACHINERY COMPAN P05C5618444	00167293	16002848	REPR PTS U#20093 STREET	02/17/17	255838	80.44-
00001	PUCKETT MACHINERY COMPAN P05C5618751	00167499	16003164	GLASS REPR U#14956 TORNADO	02/17/17	255838	1,933.76-

PUCKETT MACHINERY COMPAN

Sum							2,014.20-
00001	PUCKETT RENTS 565134-0001	00168022	16003159	PIPE WRAP	02/17/17	255839	770.40-

PUCKETT RENTS

Sum							770.40-
00001	PYLE, MILLS & DYE PA 1292.0006M #	00167765	16002997	SERVS PETAL VS CITY	02/17/17	255840	635.93-
00001	PYLE, MILLS & DYE PA 1292.0010M #	00167765	16002998	SERVS 2015 ANNEXATION	02/17/17	255840	3,629.22-
00001	PYLE, MILLS & DYE PA 1292.0011M #	00167765	16002999	SERVS SEWER CONTRACTS	02/17/17	255840	1,428.25-
00001	PYLE, MILLS & DYE PA 1232.0012M #	00167765	16003000	SERVS 2016 ANNEXATION	02/17/17	255840	76,730.78-
00001	PYLE, MILLS & DYE PA 1292.0013M #	00167765	16003001	SERVS PETAL 2016 ANNEXATION	02/17/17	255840	1,242.25-

PYLE, MILLS & DYE PA

Sum							83,666.43-
00001	RAYNER, JACK 000015	00167717	16003144	POLYGRAPH ROSS KINSEY	02/17/17	255843	150.00-

RAYNER, JACK

Sum							150.00-
00001	RECYCLING PROMOTIONS.COM 62547 FRT	00167351	16003194	FREIGHT CHG PO#167334	02/17/17	255844	217.68-
00001	RECYCLING PROMOTIONS.COM 62547	00167334	16003195	SUPP EARTH DAY SCHOOL VISIT	02/17/17	255844	1,404.36-

RECYCLING PROMOTIONS.COM

Sum							1,622.04-

00001	REGIONS BANK (SANITATION	001-0000902-	02017319	16003130	GARB TRK LEASE DUE 2/28/17	02/15/17	111587	41,376.52-
REGIONS BANK (SANITATION								
Sum								41,376.52-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167990	16003112	HOTEL NAYLOR MML MBCLEO JKSN	02/17/17	255846	243.48-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167344	16003113	REG DELGADO WCM/NPA-LI CONF	02/17/17	255846	171.00-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167701	16003114	FUEL CHGS K EATON U#18999	02/17/17	255846	34.34-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167361	16003115	MAYOR'S U-VERSE PYMNT	02/17/17	255846	65.00-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167206	16003116	AIRFARE ARNOLD WASHINGTON	02/17/17	255846	517.60-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167140	16003117	AIRFARE COLEMAN NLC WASHINGTN	02/17/17	255846	520.60-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167991	16003118	RENTAL CAR BRANTLEY 5/17	02/17/17	255846	213.72-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167091	16003119	FOOD MPO TECH COMM MEET 1/11	02/17/17	255846	44.91-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167983	16003120	LATE PAYMENT FEE	02/17/17	255846	14.58-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167250	16003121	WORKFORCE TRIP L COLEMAN	02/17/17	255846	104.00-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167260	16003122	BOOTS MYERS-MITCHELL POLICE	02/17/17	255846	99.99-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00166838	16003123	DRUG OVERDOSE PRESCRIPTION	02/17/17	255846	2,447.29-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00166943	16003124	HOTEL/REG MYERS ASBESTOS TRNG	02/17/17	255846	833.42-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167136	16003125	HOTEL/REG COPELAND ASBESTOS	02/17/17	255846	861.20-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00166885	16003126	HOTEL/REG BARNES MML JACKSON	02/17/17	255846	320.61-
00001	REGIONS CARDHOLDER SERVI	7079 1/31/17	00167007	16003127	SMALL ENGINE REBUILD KIT	02/17/17	255846	116.77-
REGIONS CARDHOLDER SERVI								
Sum								6,608.51-
00001	RICOH CORP	1067907597	00167517	16002903	PRINTER SUPP VARI DEPTS	02/17/17	255848	2,315.86-
00001	RICOH CORP	22428647	00167734	16002929	COPIER 2/15-3/14/17 HUMAN RES	02/17/17	255848	221.67-
00001	RICOH CORP	5046911842	00167815	16003027	COPIER 1/17 HUMAN RES	02/17/17	255848	168.02-
RICOH CORP								
Sum								2,705.55-
00001	RJ YOUNG COMPANY	INV1710958	00167746	16002939	COPIER 12/28-1/27 DETECTIVES	02/17/17	255849	492.00-
00001	RJ YOUNG COMPANY	INV1720988	00167726	16002944	COPIER 12/28-1/27 FIRE DEPT	02/17/17	255849	361.19-
00001	RJ YOUNG COMPANY	INV1723541	00167569	16002965	PRINTER INK TORNADO 1/21/17	02/17/17	255849	1,504.20-
00001	RJ YOUNG COMPANY	INV1707528	00167797	16002971	COPIER 12/25-1/24 COURT	02/17/17	255849	335.00-
00001	RJ YOUNG COMPANY	INV1710957	00167749	16002980	COPIER 12/29-1/27 P/F ACDMY	02/17/17	255849	590.66-
00001	RJ YOUNG COMPANY	INV1730765	00168034	16003179	COPIER 1/6-2/5/17 PLANNING	02/17/17	255849	604.27-
00001	RJ YOUNG COMPANY	INV1698027	00168023	16003180	COPIER 12/16-1/15/17 MPO	02/17/17	255849	174.00-
RJ YOUNG COMPANY								
Sum								4,061.32-
00001	ROGERS, KEVIN & ASSOCIAT	TITLE OPINIO	00168017	16003152	2 TITLE OPINIONS LAND CODE	02/17/17	255852	500.00-
ROGERS, KEVIN & ASSOCIAT								
Sum								500.00-
00001	ROPER SUPPLY CO LLC	49061	00167468	16003223	REMOTE SIRENS POLICE STOCK	02/17/17	255853	891.20-
ROPER SUPPLY CO LLC								
Sum								891.20-
00001	RUTLAND, LAMAR	TRAVEL REIMB	00167885	16003196	EXPNS EPA MEET ATLANTA	02/17/17	255854	223.12-
RUTLAND, LAMAR								
Sum								223.12-
00001	RYAN MOTORS INC	211290	00167600	16002909	REPR PTS U#14497 TRAFFIC	02/17/17	255856	231.20-

RYAN MOTORS INC								
Sum								231.20-
00001	SACKS OUTDOOR SUPPLY	21697	00167528	16002826	DRESS SHOES WEAVER-HARRIS	02/17/17	255857	129.97-
00001	SACKS OUTDOOR SUPPLY	21706	00167586	16002911	WORK BOOTS 2017 TORNADO	02/17/17	255857	224.94-
SACKS OUTDOOR SUPPLY								
Sum								354.91-
00001	SCOTTS HYDRAULIC SERVICE	28154	00167685	16002989	REPRS U#17723 SANIT	02/17/17	255860	270.00-
SCOTTS HYDRAULIC SERVICE								
Sum								270.00-
00001	SHERWIN-WILLIAMS COMPANY	8063-9	00167714	16002928	PAINT PURCHASING DEPT OFFICE	02/17/17	255861	126.06-
00001	SHERWIN-WILLIAMS COMPANY	8064-7	00167710	16002986	PAINT SUPP CONSTR DEPT SHOP	02/17/17	255861	69.09-
00001	SHERWIN-WILLIAMS COMPANY	8131-4	00167760	16003037	PAINT SUPP CONSTR DEPT SHOP	02/17/17	255861	42.64-
SHERWIN-WILLIAMS COMPANY								
Sum								237.79-
00001	SMITH'S SPEED SHOP	0159	00167966	16003108	REPAIR RIFLE P/F ACADEMY	02/17/17	255865	120.00-
SMITH'S SPEED SHOP								
Sum								120.00-
00001	SOLAR SUPPLY INC	3487736	00167015	16002941	A/C FILTERS #6 FIRE STA	02/17/17	255866	41.64-
SOLAR SUPPLY INC								
Sum								41.64-
00001	SOUTHERN FINANCIAL SYSTE	CMCHAT 12/20	02017308	16003064	POLICE FINES COLL.FEE	02/17/17	255868	52.80-
00001	SOUTHERN FINANCIAL SYSTE	CMCHAT2 1/17	02017309	16003065	POLICE FINES COLL.FEE	02/17/17	255868	35.00-
00001	SOUTHERN FINANCIAL SYSTE	CMCHAT3 1/17	02017310	16003066	POLICE FINES COLL.FEE	02/17/17	255868	820.08-
SOUTHERN FINANCIAL SYSTE								
Sum								907.88-
00001	SOUTHERN PINE ELECTRIC P	2/17 GENERAL	00020179	16003133	MNTHLY 2/17 PUBLIC SERVICES	02/17/17	255870	1,211.93-
SOUTHERN PINE ELECTRIC P								
Sum								1,211.93-
00001	SOUTHERN PINES ANIMAL SH	1/17	00167578	16002866	HANDLING/HOUSING 1/17	02/17/17	255871	9,716.00-
00001	SOUTHERN PINES ANIMAL SH	2/17	00167936	16003096	HANDLING/HOUSING 2/17	02/17/17	255871	9,716.00-
SOUTHERN PINES ANIMAL SH								
Sum								19,432.00-
00001	SOUTHERN TIRE MART #9 (M	9017697	00167559	16002854	TIRES/REPRS U#17529 STREET	02/17/17	255872	701.75-
SOUTHERN TIRE MART #9 (M								
Sum								701.75-
00001	SOUTHERN TIRE MART LLC	11124062	00167536	16002851	TIRES VARI UNITS 2017 TORNADO	02/17/17	255873	3,320.96-
00001	SOUTHERN TIRE MART LLC	9017388	00166359	16002853	ALIGNMENT U#14715 STREET	02/17/17	255873	69.95-
00001	SOUTHERN TIRE MART LLC	11124204	00167645	16002912	TIRES VARI UNITS '17 TORNADO	02/17/17	255873	2,763.26-
00001	SOUTHERN TIRE MART LLC	11124203	00167647	16002913	TIRES VARI UNITS '17 TORNADO	02/17/17	255873	4,891.12-
00001	SOUTHERN TIRE MART LLC	11124675	00167893	16003086	TIRE REPR U#11353 FIRE DEPT	02/17/17	255873	42.45-
00001	SOUTHERN TIRE MART LLC	11124485	00167784	16003090	TIRES U#9596 STREET	02/17/17	255873	389.96-

SOUTHERN TIRE MART LLC							
Sum							11,477.70-
00001 STANDARD OFFICE SUPPLY C	0067750-001	00167588	16002906	PERFORATION PAPER INFO PACKET	02/17/17	255876	104.02-
00001 STANDARD OFFICE SUPPLY C	0067760-001	00167297	16002972	OFFICE SUPP HUMAN RES	02/17/17	255876	112.98-
00001 STANDARD OFFICE SUPPLY C	0067906-001	00167711	16003042	NOTARY SEAL MARTIN MUN CLERK	02/17/17	255876	33.00-
00001 STANDARD OFFICE SUPPLY C	0067994-001	00167925	16003142	OFFICE SUPP POLICE DEPT	02/17/17	255876	251.91-
00001 STANDARD OFFICE SUPPLY C	0068032-001	00167996	16003165	PRINTER INK ENGR DEPT	02/17/17	255876	109.99-
STANDARD OFFICE SUPPLY C							
Sum							611.90-
00001 STRIBLING EQUIPMENT CO L	CS006090618:	00167733	16002963	PTS U#20152 TORNADO 1/21/17	02/17/17	255878	40.32-
00001 STRIBLING EQUIPMENT CO L	RE006016871:	00167456	16003227	REPRS U#17898 PUBLIC WORKS	02/17/17	255878	1,065.26-
00001 STRIBLING EQUIPMENT CO L	CS006090832:	00167955	16003228	REPR PTS U#20152 PUBLIC WORK	02/17/17	255878	189.34-
STRIBLING EQUIPMENT CO L							
Sum							1,294.92-
00001 SUNBELT FIRE INC	111844	00167828	16003035	ENGINE DIAGNOSTICS U#13560	02/17/17	255879	279.01-
SUNBELT FIRE INC							
Sum							279.01-
00001 TAW POWER SYSTEMS, INC	26106586	00167697	16002935	SERV POLICE DEPT GENERATOR	02/17/17	255880	634.40-
TAW POWER SYSTEMS, INC							
Sum							634.40-
00001 TEMPLE INC	INV0157584	00165016	16002840	TIME SWITCHES TRAFFIC DEPT	02/17/17	255882	970.00-
TEMPLE INC							
Sum							970.00-
00001 TRANSUNION RISK AND ALTE	362606 2/01/	00167703	16002907	ONLINE INVESTIGATIONS 1/17	02/17/17	255885	222.25-
TRANSUNION RISK AND ALTE							
Sum							222.25-
00001 ULINE	84095893	00167723	16003043	PANEL DOLLY POLICE DEPT	02/17/17	255886	287.55-
ULINE							
Sum							287.55-
00001 UNDERWOOD OUTDOOR POWER,	36917	00167379	16002835	CHAINSAW SUPP 2017 TORNADO	02/17/17	255887	679.68-
00001 UNDERWOOD OUTDOOR POWER,	37418	00168003	16003149	POSITIVE PRESSURE FAN REPR	02/17/17	255887	26.15-
00001 UNDERWOOD OUTDOOR POWER,	37419	00168003	16003150	POSITIVE PRESSURE FAN REPR	02/17/17	255887	32.25-
UNDERWOOD OUTDOOR POWER,							
Sum							738.08-
00001 UNDERWOOD TREE SERVICE	PO #167725 2	00167725	16002974	STUMP REMOVAL-815 QUINN ST	02/17/17	255888	750.00-
UNDERWOOD TREE SERVICE							
Sum							750.00-
00001 UNIVERSITY TIRE & SERVIC	502741	00167374	16002945	MAINT U#19116 LAND CODE	02/17/17	255889	56.70-
UNIVERSITY TIRE & SERVIC							
Sum							56.70-
00001 V F W OF THE US	PARKING SPAC	00167574	16002871	PARKING SPACES 2/17	02/17/17	255890	75.00-

V F W OF THE US								
Sum								75.00-
00001 VERIZON WIRELESS	9779639762	00167963	16003098	WIRELESS SERVICE POLICE DEPT		02/17/17	255894	2,400.74-
VERIZON WIRELESS								
Sum								2,400.74-
00001 VERONICA CREATIVE DESIGN	0005	00167888	16003137	DOCUMENTARY TORNADO 1/21/17		02/17/17	255895	200.00-
VERONICA CREATIVE DESIGN								
Sum								200.00-
00001 VULCAN SIGNS	302300	00167112	16002841	VARI SIGNS TRAFFIC DEPT		02/17/17	255897	5,295.40-
VULCAN SIGNS								
Sum								5,295.40-
00001 WARREN PAVING INC	812286	00165911	16003057	STRIPE DOWNTOWN STREETS		02/17/17	255898	38,072.90-
WARREN PAVING INC								
Sum								38,072.90-
00001 WASTE MANAGEMENT OF SOUT	0009589-2526	00167811	16003039	REFUSE DISPOSAL SANIT		02/17/17	255900	6,551.82-
WASTE MANAGEMENT OF SOUT								
Sum								6,551.82-
00001 WATCH GUARD VIDEO	ACCINV001013	00167227	16002936	CAMERA CABLES POLICE STOCK		02/17/17	255901	215.00-
00001 WATCH GUARD VIDEO	ACCINV000889	00164252	16003021	CABLES VARIOUS UNITS-POLICE		02/17/17	255901	75.00-
00001 WATCH GUARD VIDEO	ACCINV001007	00164252	16003022	CABLES VARIOUS UNITS-POLICE		02/17/17	255901	765.00-
WATCH GUARD VIDEO								
Sum								1,055.00-
00001 WATERS INT'L TRUCKS (MER	08P828233	00167566	16002942	REPR PTS U#11100 FIRE DEPT		02/17/17	255902	487.84-
WATERS INT'L TRUCKS (MER								
Sum								487.84-
00001 WATERS INTERNATIONAL TRU	8-251450061	00152532	16002874	REPR PTS U#16081 SANIT		02/17/17	255903	178.22-
00001 WATERS INTERNATIONAL TRU	08P827350	00167605	16002984	REPR PTS U#16008/STOCK SANIT		02/17/17	255903	247.58-
00001 WATERS INTERNATIONAL TRU	8-251490064	00167762	16003171	REPR PTS U#152164 SANIT		02/17/17	255903	479.40-
WATERS INTERNATIONAL TRU								
Sum								905.20-
00001 WHEELER'S JANITORIAL SUP	040318	00167724	16002964	SAFETY GEAR TORNADO 1/21/17		02/17/17	255905	754.75-
00001 WHEELER'S JANITORIAL SUP	040363	00168038	16003226	JANIT SUPP PUBLIC WORKS		02/17/17	255905	31.90-
WHEELER'S JANITORIAL SUP								
Sum								786.65-
00001 WHITE LENOIR, LA'KEYLAH	TRAV ADVANCE	00167557	16002823	TRAV ADV NLC MEET WASHINGTON		02/17/17	255906	243.00-
WHITE LENOIR, LA'KEYLAH								
Sum								243.00-
00001 WILLMUT GAS & OIL COMPAN	2/17 GENERAL	00020179	16003134	MNTHLY GAS-GENERAL		02/17/17	255907	5,615.57-
WILLMUT GAS & OIL COMPAN								

Sum							5,615.57-
00001 1ST SOURCE SERVALL	AH8401396	00167309	16002836	STOVE HOOD #3 FIRE STA	02/17/17	255909	43.74-
1ST SOURCE SERVALL							
Sum							43.74-
00001 98 WASTE LLC	137	00167628	16002864	RUBBISH DISPOSAL SANIT	02/17/17	255911	105.00-
00001 98 WASTE LLC	135	00167587	16002875	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	11,137.00-
00001 98 WASTE LLC	110	00167587	16002876	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	3,808.00-
00001 98 WASTE LLC	133	00167587	16002877	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	12,544.00-
00001 98 WASTE LLC	129	00167587	16002878	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	10,339.00-
00001 98 WASTE LLC	120	00167587	16002879	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	9,205.00-
00001 98 WASTE LLC	119	00167587	16002880	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	9,226.00-
00001 98 WASTE LLC	134	00167719	16002914	RUBBISH DISPOSAL 2017 TORNADO	02/17/17	255911	16,296.00-
00001 98 WASTE LLC	138	00167719	16002915	RUBBISH DISPOSAL 2017 TORNADO	02/17/17	255911	14,924.00-
00001 98 WASTE LLC	132	00167738	16002949	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	8,519.00-
00001 98 WASTE LLC	148	00167738	16002950	RUBBISH DISPOSAL TORNADO 2017	02/17/17	255911	12,845.00-
00001 98 WASTE LLC	161	00167790	16002958	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	13,979.00-
00001 98 WASTE LLC	167	00167790	16002959	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	14,532.00-
00001 98 WASTE LLC	171	00167790	16002960	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	9,289.00-
00001 98 WASTE LLC	172	00167790	16002961	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	20,282.50-
00001 98 WASTE LLC	173	00167790	16002962	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	14,007.00-
00001 98 WASTE LLC	174	00168069	16003229	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	14,574.00-
00001 98 WASTE LLC	177	00168069	16003230	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	4,431.00-
00001 98 WASTE LLC	181	00168069	16003231	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	17,968.30-
00001 98 WASTE LLC	182	00168069	16003232	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	15,815.80-
00001 98 WASTE LLC	183	00168069	16003233	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	15,355.20-
00001 98 WASTE LLC	186	00168069	16003234	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	14,548.10-
00001 98 WASTE LLC	201	00168069	16003235	RUBBISH DISPOSAL TORNADO 1/21	02/17/17	255911	11,106.90-
98 WASTE LLC							
Sum							274,836.80-
Sum							3,492,878.95-

CITY OF HATTIESBURG
DOCKET OF CLAIMS
PERIOD ENDING FEBRUARY 17, 2017

Date - 02/16/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
PARKS & RECREATION FUND							
00002 A & R FARM AND GARDEN	320839	00167541	16000492	GRASS MATS GRNDS OFFICE	02/17/17	255647	148.00-
00002 A & R FARM AND GARDEN	321452	00167146	16000534	FERTILIZER/SEED CITY WIDE USE	02/17/17	255647	559.98-
00002 A & R FARM AND GARDEN	321581	00167771	16000536	PAPER PICK UP STICKS	02/17/17	255647	216.00-
00002 A & R FARM AND GARDEN	321620	00167672	16000538	SAND BAGS/FERTILIZER	02/17/17	255647	225.00-
A & R FARM AND GARDEN							
Sum							1,148.98-
00002 AGRI-AFC LLC	5302040	00167621	16000532	FERTILIZER FOR BALLFIELDS	02/17/17	255655	2,408.70-

AGRI-AFC LLC							
Sum							2,408.70-
00002 ANOINTED HANDS SERVICES,	2917	00167758	16000504	SERV 1/17 GRNDS MAINT	02/17/17	255661	310.00-
00002 ANOINTED HANDS SERVICES,	2918	00167759	16000505	SERV 2/17 GRNDS MAINT	02/17/17	255661	310.00-
ANOINTED HANDS SERVICES,							
Sum							620.00-
00002 AT&T MOBILITY	287273578351	00167919	16000531	SERVICE 12/16 PARKS & REC	02/17/17	255670	299.05-
AT&T MOBILITY							
Sum							299.05-
00002 BH ELECTRIC	79	00167678	16000500	LIGHT REPR TATUM SOCCER FLD	02/17/17	255681	125.00-
BH ELECTRIC							
Sum							125.00-
00002 BLUE DOLPHIN POOL	26977 & 2726	00165355	16000547	FOUNTAIN MNT 10-12/16 VARI	02/17/17	255683	1,140.00-
00002 BLUE DOLPHIN POOL	27264(B)	00166997	16000548	ADDL AMT DUE PO#165355	02/17/17	255683	60.00-
BLUE DOLPHIN POOL							
Sum							1,200.00-
00002 BRACKMAN MOWER WAREHOUSE	22886	00167629	16000494	TILLER CITY WIDE USE	02/17/17	255686	799.00-
00002 BRACKMAN MOWER WAREHOUSE	22795	00167544	16000495	REPRS U#17998 GRNDS MAINT	02/17/17	255686	123.50-
00002 BRACKMAN MOWER WAREHOUSE	22887	00167623	16000496	REPRS U#19465 GRNDS MAINT	02/17/17	255686	303.64-
00002 BRACKMAN MOWER WAREHOUSE	22793	00167436	16000499	CHAIN SAWS TORNADO 1/21/17	02/17/17	255686	1,769.10-
00002 BRACKMAN MOWER WAREHOUSE	22794	00167543	16000501	REPR SEAT SWITCH U#18867	02/17/17	255686	60.00-
BRACKMAN MOWER WAREHOUSE							
Sum							3,055.24-
00002 BRADDOCK, ARETHA	OFFICIAL 1/2	02017311	16000512	OFFICIAL-ADULT BASKETBALL	02/17/17	255687	150.00-
BRADDOCK, ARETHA							
Sum							150.00-
00002 CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16000483	TRF 1ST 2/17 PAYROLL	02/01/17	311263	52,702.43-
00002 CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16000555	TRF 2ND 2/17 PAYROLL	02/15/17	311284	64,549.99-
CITY OF HATTIESBURG FUND							
Sum							117,252.42-
00002 CLEMTS HARDWARE	116983	00167861	16000537	FLAG POLE ROPE TATUM PARK	02/17/17	255702	44.93-
CLEMTS HARDWARE							
Sum							44.93-
00002 CONNER, TOBARRA	SPORTS SERVS	02017312	16000522	SPORTS SUPPORT SERVICES	02/17/17	255708	140.00-
CONNER, TOBARRA							
Sum							140.00-
00002 DIXIE YOUTH BASEBALL	2107-233	00167880	16000507	2017 BASEBALL CONTRACT	02/17/17	255717	20,000.00-
DIXIE YOUTH BASEBALL							
Sum							20,000.00-
00002 FASTENAL COMPANY	MSHAT196848	00167772	16000533	SAFETY VESTS GRNDS CREWS	02/17/17	255726	199.80-

FASTENAL COMPANY
Sum 199.80-
00002 FERGUSON ENTERPRISES INC 6485865 00167673 16000540 WTR COOLER PTS TATUM SOCCER 02/17/17 255728 54.53-

FERGUSON ENTERPRISES INC
Sum 54.53-
00002 GLOBAL SECURITY INVESTIG 10117 00166873 16000489 SECURITY 12/3-2/4 YTH BSKTBALL 02/17/17 255745 330.00-
00002 GLOBAL SECURITY INVESTIG 10118 00167290 16000490 SECURITY 1-2/17 ADULT BSKTBALL 02/17/17 255745 240.00-

GLOBAL SECURITY INVESTIG
Sum 570.00-
00002 GREEN FOREST NURSERY INC 27080 00167753 16000546 CREPE MYRTLES VET DR TORNADO 02/17/17 255746 1,890.00-

GREEN FOREST NURSERY INC
Sum 1,890.00-
00002 GRIFFIN, GABRIEL OFFICIAL 1/2 02017311 16000513 OFFICIAL-ADULT BASKETBALL 02/17/17 255747 150.00-

GRIFFIN, GABRIEL
Sum 150.00-
00002 HINES, ERIC OFFICIAL 1/2 02017311 16000514 OFFICIAL-ADULT BASKETBALL 02/17/17 255755 275.00-

HINES, ERIC
Sum 275.00-
00002 JERRY'S AUTOMOTIVE REPAI 18336 00167675 16000541 REPRS U#18558 GRNDS MAINT 02/17/17 255766 1,074.40-

JERRY'S AUTOMOTIVE REPAI
Sum 1,074.40-
00002 JOHNSON, MYLES SPORTS SERVS 02017312 16000523 SPORTS SUPPORT SERVICES 02/17/17 255769 344.00-

JOHNSON, MYLES
Sum 344.00-
00002 JONES, ANN PETTY CASH 2 00167841 16000506 PETTY CASH GRNDS MAINT 02/17/17 255771 358.01-

JONES, ANN
Sum 358.01-
00002 KEATON, CHRISTOPHER OFFICIAL 1/2 02017311 16000515 OFFICIAL-ADULT BASKETBALL 02/17/17 255774 50.00-

KEATON, CHRISTOPHER
Sum 50.00-
00002 KETTLEY, ANNETTE SPORTS SERVS 02017312 16000524 SPORTS SUPPORT SERVICES 02/17/17 255776 276.00-

KETTLEY, ANNETTE
Sum 276.00-
00002 KETTLEY, VERONICA SPORTS SERVS 02017312 16000525 SPORTS SUPPORT SERVICES 02/17/17 255777 92.00-

KETTLEY, VERONICA
Sum 92.00-
00002 KINSEY WELDING 4940 00167938 16000549 REPR TATUM SOCCER GOALS 02/17/17 255779 525.00-

KINSEY WELDING
Sum 525.00-

00002 LARRY'S WRECKER SERVICE	1388	00167556	16000502	TOWING U#8937	02/17/17	255784	55.00-
LARRY'S WRECKER SERVICE							
Sum							55.00-
00002 MISSISSIPPI AG COMPANY,	PO3044	00167755	16000542	KEYS/SWITCH JOHN DEERE GATORS	02/17/17	255802	73.77-
MISSISSIPPI AG COMPANY,							
Sum							73.77-
00002 MS POWER COMPANY	2/17 PKS/REC	00020179	16000553	MNTHLY ELEC-PARKS & REC	02/17/17	255812	1,631.61-
MS POWER COMPANY							
Sum							1,631.61-
00002 MS RECREATION AND PARK A	MBRSHP TERRE	00167850	16000508	2017 MBRSHP TERRELL REC ADM	02/17/17	255815	65.00-
00002 MS RECREATION AND PARK A	MBRSHP ANN J	00167850	16000509	2017 MBRSHP A JONES REC ADM	02/17/17	255815	65.00-
00002 MS RECREATION AND PARK A	MBRSHP LOTT	00167850	16000510	2017 MBRSHP LOTT REC ADM	02/17/17	255815	65.00-
00002 MS RECREATION AND PARK A	MBRSHP SUSIE	00167850	16000511	2017 MBRSHP S JONES REC ADM	02/17/17	255815	65.00-
MS RECREATION AND PARK A							
Sum							260.00-
00002 PHILLIPS BARK PROCESSING	118114	00166906	16000535	LANDSCAPE MULCH CITY WIDE USE	02/17/17	255832	1,410.00-
PHILLIPS BARK PROCESSING							
Sum							1,410.00-
00002 PINE BELT READY MIX CONC	498138	00165476	16000484	CURB CONCRETE DOG PARK	02/17/17	255836	1,160.50-
00002 PINE BELT READY MIX CONC	498749	00165476	16000485	CURB CONCRETE DOG PARK	02/17/17	255836	377.00-
00002 PINE BELT READY MIX CONC	498749(B)	00165720	16000486	CONCRETE FOR DOG PARK	02/17/17	255836	871.25-
00002 PINE BELT READY MIX CONC	498758	00165720	16000487	CONCRETE FOR DOG PARK	02/17/17	255836	666.25-
PINE BELT READY MIX CONC							
Sum							3,075.00-
00002 POWELL, RANDY	SPORTS SERVS	02017312	16000526	SPORTS SUPPORT SERVICES	02/17/17	255837	424.00-
POWELL, RANDY							
Sum							424.00-
00002 REGIONS CARDHOLDER SERVI	7079 1/31/17	00167419	16000551	EMER FUEL TORNADO GRNDS MAINT	02/17/17	255846	110.65-
00002 REGIONS CARDHOLDER SERVI	7079 1/31/17	00167988	16000552	FUEL PKS/REC TORNADO 1/21/17	02/17/17	255846	34.60-
REGIONS CARDHOLDER SERVI							
Sum							145.25-
00002 ROBINSON, MARVIN	OFFIICAL 1/2	02017311	16000516	OFFICIAL-ADULT BASKETBALL	02/17/17	255851	50.00-
ROBINSON, MARVIN							
Sum							50.00-
00002 SOUTHERN ATHLETIC FIELDS	46931	00166905	16000539	TRACK MATLS TATUM BASEBALL	02/17/17	255867	3,800.00-
SOUTHERN ATHLETIC FIELDS							
Sum							3,800.00-
00002 SOUTHERN MS PINE STRAW	10186	00167612	16000493	PINE STRAW CITY WIDE USE	02/17/17	255869	275.00-
SOUTHERN MS PINE STRAW							
Sum							275.00-

00002 SOUTHERN TIRE MART #9 (M	9017713	00167563	16000498	TRAILER TIRE U#18558	02/17/17	255872	72.37-
00002 SOUTHERN TIRE MART #9 (M	9017834	00167718	16000543	TIRE U#14182 GRNDS MAINT	02/17/17	255872	47.24-
00002 SOUTHERN TIRE MART #9 (M	9017979	00167787	16000544	TIRE U#17050 GRNDS MAINT	02/17/17	255872	70.37-
00002 SOUTHERN TIRE MART #9 (M	9018014	00167843	16000545	TIRE REPR U#19532 GRNDS MAINT	02/17/17	255872	37.28-
SOUTHERN TIRE MART #9 (M							
Sum							227.26-
00002 SOUTHERN TIRE MART LLC	9017630	00167542	16000497	TIRE REPR U#19352	02/17/17	255873	34.60-
SOUTHERN TIRE MART LLC							
Sum							34.60-
00002 SPORTS ILLUSTRATED PLAY	283878	00167680	16000488	PROGRAM REG 1/17	02/17/17	255875	328.95-
SPORTS ILLUSTRATED PLAY							
Sum							328.95-
00002 STEWART, LARRY	SPORTS SERVS	02017312	16000527	SPORTS SUPPORT SERVICES	02/17/17	255877	300.00-
STEWART, LARRY							
Sum							300.00-
00002 TAYLOR, RODERICK	OFFICIAL 1/2	02017311	16000517	OFFICIAL-YOUTH BASKETBALL	02/17/17	255881	80.00-
TAYLOR, RODERICK							
Sum							80.00-
00002 THOMPSON, JESSE	OFFICIAL 1/2	02017311	16000518	OFFICIAL-ADULT BASKETBALL	02/17/17	255884	325.00-
THOMPSON, JESSE							
Sum							325.00-
00002 VARNADO, ALEXANDRIA	SPORTS SERVS	02017312	16000528	SPORTS SUPPORT SERVICES	02/17/17	255891	312.00-
VARNADO, ALEXANDRIA							
Sum							312.00-
00002 VARNADO, UNDREA	SPORTS SERVS	02017312	16000529	SPORTS SUPPORT SERVICES	02/17/17	255892	240.00-
VARNADO, UNDREA							
Sum							240.00-
00002 VAUGHN, MORAN A	OFFICIAL 1/2	02017311	16000519	OFFICIAL-ADULT BASKETBALL	02/17/17	255893	300.00-
VAUGHN, MORAN A							
Sum							300.00-
00002 VESCO TENNIS COURTS INC	533	00166095	16000550	RESURFACE TATUM PK TENNIS CRT	02/17/17	255896	44,890.00-
VESCO TENNIS COURTS INC							
Sum							44,890.00-
00002 WASHINGTON, TYLER ROYCE	OFFICIAL 1/2	02017311	16000520	OFFICIAL-YOUTH BASKETBALL	02/17/17	255899	180.00-
WASHINGTON, TYLER ROYCE							
Sum							180.00-
00002 WHEELER, CURTIS	SPORTS SERVS	02017312	16000530	SPORTS SUPPORT SERVICES	02/17/17	255904	256.00-
WHEELER, CURTIS							
Sum							256.00-
00002 WILLMUT GAS & OIL COMPAN	2/17 PKS/REC	00020179	16000554	MNTHLY GAS-PARKS & REC	02/17/17	255907	239.02-

WILLMUT GAS & OIL COMPAN								
Sum								239.02-
00002 WILSON, JESSICA B	OFFICIAL 1/2	02017311	16000521	OFFICIA-ADULT BASKETBALL	02/17/17	255908		475.00-
WILSON, JESSICA B								
Sum								475.00-
Sum								211,690.52-

CITY OF HATTIESBURG

DOCKET OF CLAIMS — Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
HATT.MUNICIPAL FIRE PROTECTION							
00005 INTL ASSN OF ARSON INVES	101892 13146	00167712	16000017	2017 DUES MOONEY ARSON INVEST	02/17/17	255763	125.00-
00005 INTL ASSN OF ARSON INVES	101840 13080	00167712	16000018	2017 DUES B COLLINS ARSON INV	02/17/17	255763	135.00-
00005 INTL ASSN OF ARSON INVES	101841 13146	00167712	16000019	2017 DUES J COLLINS ARSON INV	02/17/17	255763	135.00-
00005 INTL ASSN OF ARSON INVES	101876 13148	00167712	16000020	2017 DUES CLARK ARSON INVEST	02/17/17	255763	135.00-
INTL ASSN OF ARSON INVES							
Sum							530.00-
00005 TRUSTMARK NATIONAL BANK/	A/C 27335025	02017289	16000022	FIRE TRUCK LEASE NOTE #22568	02/08/17	22004	16,377.37-
00005 TRUSTMARK NATIONAL BANK/	ACCT#2840110	02017320	16000023	FIRE TRK LEASE NOTE #33523	02/15/17	22005	14,340.60-
TRUSTMARK NATIONAL BANK/							
Sum							30,717.97-
Sum							31,247.97-

CITY OF HATTIESBURG

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Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
PAYROLL FUND							
00006 MITCHELL, LATOSHA	2/3/17 PYRL	02017286	16000209	REFUND GARNISHMENT	02/03/17	111573	380.26-
MITCHELL, LATOSHA							
Sum							380.26-
00006 PROVIDENT LIFE AND ACCID	01/17	00201769	16000215	EMP CONTRIB 1/17	02/09/17	111584	6,574.42-
PROVIDENT LIFE AND ACCID							
Sum							6,574.42-
00006 THOMPSON, RICHARD (REFUN	REFUND HOSPI	02017293	16000210	REFUND HOSPITAL INSURANCE	02/08/17	111576	388.00-

THOMPSON, RICHARD (REFUN
Sum 388.00-

Sum 7,342.68-

CITY OF HATTIESBURG

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Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER OPERATION/MAINT.							
00009 ADVANCED JANITORIAL SERV	101050 WTR B	00167576	16000500	SERVS 1/17 WTR BILLING OFFICE	02/17/17	255653	495.00-
ADVANCED JANITORIAL SERV							
Sum							495.00-
00009 AT&T MOBILITY	287273578351	00167919	16000556	SERVICE 12/16 CUST ACCTS	02/17/17	255670	396.48-
00009 AT&T MOBILITY	287273861504	00167972	16000586	GPS TRACKING 1/17 WTR PLANT	02/17/17	255670	299.88-
AT&T MOBILITY							
Sum							696.36-
00009 AUTO ARMATURE SERVICE IN	08901	00167589	16000603	BATTERY SEWER DEPT BACKHOE	02/17/17	255671	166.95-
AUTO ARMATURE SERVICE IN							
Sum							166.95-
00009 AUTO GLASS-CITY GLASS SO	1090130	00167910	16000558	GLASS REPR PLT#2 TORNADO 1/21	02/17/17	255672	645.00-
AUTO GLASS-CITY GLASS SO							
Sum							645.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212224	00167767	16000567	GLASS REPR U#20056 TORNADO	02/17/17	255675	765.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212184	00167767	16000568	GLASS REPR U#13513 TORNADO	02/17/17	255675	450.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212183	00167767	16000569	GLASS REPR U#14760 TORNADO	02/17/17	255675	345.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212181	00167767	16000570	GLASS REPR U#15667 TORNADO	02/17/17	255675	470.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212180	00167767	16000571	GLASS REPR U#13061 TORNADO	02/17/17	255675	470.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212177	00167767	16000572	GLASS REPR U#20446 TORNADO	02/17/17	255675	875.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212235	00167764	16000573	GLASS REPR U#14128 TORNADO	02/17/17	255675	520.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212199	00167764	16000574	GLASS REPR U#13511 TORNADO	02/17/17	255675	450.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212255	00167763	16000575	GLASS REPR U#13513 TORNADO	02/17/17	255675	225.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212456	00167763	16000576	GLASS REPR U#15916 TORNADO	02/17/17	255675	345.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212187	00167763	16000577	GLASS REPR U#11546 TORNADO	02/17/17	255675	470.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212186	00167763	16000578	GLASS REPR U#18897 TORNADO	02/17/17	255675	1,090.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212178	00167763	16000579	GLASS REPR U#13176 TORNADO	02/17/17	255675	295.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212176	00167763	16000580	GLASS REPR U#15232 TORNADO	02/17/17	255675	1,263.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212188	00167757	16000583	GLASS REPR U#19777 TORNADO	02/17/17	255675	295.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212287	00167757	16000584	GLASS REPR U#12689 TORNADO	02/17/17	255675	550.00-
00009 AUTOMOTIVE GLASS SPECIAL	I212185	00167757	16000585	GLASS REPR U#14164 TORNADO	02/17/17	255675	375.00-
AUTOMOTIVE GLASS SPECIAL							
Sum							9,253.00-

00009 BONNER ANALYTICAL TESTIN	61867	00167848	16000552	SAMPLES 1915 RIDGEWAY	02/17/17	255685	26.50-
00009 BONNER ANALYTICAL TESTIN	61942	00167857	16000553	SAMPLES 2810 LAKEVW NEW WELL	02/17/17	255685	53.00-
BONNER ANALYTICAL TESTIN							
Sum							79.50-
00009 BRUNINI	215703 ADDL	00167853	16000555	ADDL AMT DUE PO#164954	02/17/17	255690	251.15-
BRUNINI							
Sum							251.15-
00009 CCS INDUSTRIAL SERVICES,	7943	00167684	16000523	BOILER REPR PLT#2 TORNADO '17	02/17/17	255695	571.25-
CCS INDUSTRIAL SERVICES,							
Sum							571.25-
00009 CENTRAL PIPE SUPPLY INC	S100086932.0	00167581	16000526	WATER METERS TRANS DEPT	02/17/17	255697	3,120.00-
00009 CENTRAL PIPE SUPPLY INC	S100086974.0	00167564	16000542	PLUMB SUPP TRANS STOCK	02/17/17	255697	3,111.65-
00009 CENTRAL PIPE SUPPLY INC	S100086974.0	00167564	16000543	PLUMB SUPP TRANS STOCK	02/17/17	255697	645.30-
00009 CENTRAL PIPE SUPPLY INC	S100086974.0	00167564	16000549	PIPE SUPP TRANS DEPT	02/17/17	255697	40.81-
CENTRAL PIPE SUPPLY INC							
Sum							6,917.76-
00009 CERTIFIED LABORATORIES	2611282	00167687	16000598	CHEMICALS SEWER DEPT	02/17/17	255699	5,510.00-
CERTIFIED LABORATORIES							
Sum							5,510.00-
00009 CHAIN ELECTRIC COMPANY	49659	00167739	16000534	GENERATORS VARI STA TORNADO	02/17/17	255700	3,132.45-
CHAIN ELECTRIC COMPANY							
Sum							3,132.45-
00009 CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16000499	TRF 1ST 2/17 PAYROLL	02/01/17	22002	91,011.61-
00009 CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16000601	TRF 2ND 2/17 PAYROLL	02/15/17	22006	116,341.25-
CITY OF HATTIESBURG FUND							
Sum							207,352.86-
00009 CONTROL SYSTEMS INC	52944	00164549	16000528	REPLACE NETWORK SWITCHES PLT2	02/17/17	255709	1,956.40-
00009 CONTROL SYSTEMS INC	52965	00167740	16000529	SERV BACK WASH PLT #2	02/17/17	255709	637.22-
00009 CONTROL SYSTEMS INC	53489	00167473	16000535	SERV CALL ELKS LAKE TORNADO	02/17/17	255709	798.20-
00009 CONTROL SYSTEMS INC	53512	00167741	16000540	SERVICE CALL WTR PLT-JAMES ST	02/17/17	255709	507.22-
CONTROL SYSTEMS INC							
Sum							3,899.04-
00009 D P C ENTERPRISES LP	212000162-17	00167411	16000531	CHEMICALS NORTH LAGOON	02/17/17	255712	1,101.00-
00009 D P C ENTERPRISES LP	212000163-17	00167411	16000532	CHEMICALS SOUTH LAGOON	02/17/17	255712	1,482.00-
00009 D P C ENTERPRISES LP	212000164-17	00167411	16000533	CHEMICALS PLT #2	02/17/17	255712	1,143.00-
D P C ENTERPRISES LP							
Sum							3,726.00-
00009 EDDIE PEARSON ROOFING, L	1550	00167887	16000554	ROOF REPR TORNADO 1/21 PLANT	02/17/17	255720	27,842.25-
EDDIE PEARSON ROOFING, L							
Sum							27,842.25-
00009 FASTENAL COMPANY	MSHAT196543	00167447	16000506	PUMP EQUIP PTS S LAUREL STA	02/17/17	255726	49.56-

FASTENAL COMPANY							
Sum							49.56-
00009 FRIERSON, CHADWICK	TRAVEL REIMB	00168071	16000607	EXPNS EPA MEETING ATLANTA	02/17/17	255731	183.38-
FRIERSON, CHADWICK							
Sum							183.38-
00009 G & K SERVICES	1035805076	00167616	16000508	UNIFORMS 1/30 TRANS	02/17/17	255742	61.16-
00009 G & K SERVICES	1035805080	00167616	16000509	MOP/MAT 1/30 PLANT	02/17/17	255742	14.40-
00009 G & K SERVICES	1035805079	00167616	16000510	UNIFORMS 1/30 PLANT	02/17/17	255742	50.51-
00009 G & K SERVICES	1035805077	00167616	16000511	UNIFORMS 1/30 SEWER	02/17/17	255742	54.60-
00009 G & K SERVICES	1035805078	00167616	16000512	UNIFORMS 1/30 LAGOON	02/17/17	255742	25.70-
00009 G & K SERVICES	1035800832	00167617	16000513	UNIFORMS 1/16 TRANS	02/17/17	255742	59.21-
00009 G & K SERVICES	1035800836	00167617	16000514	MOP/MAT 1/16 PLANT	02/17/17	255742	14.40-
00009 G & K SERVICES	1035800835	00167617	16000515	UNIFORMS 1/16 PLANT	02/17/17	255742	50.51-
00009 G & K SERVICES	1035800833	00167617	16000516	UNIFORMS 1/16 SEWER	02/17/17	255742	54.60-
00009 G & K SERVICES	1035800834	00167617	16000517	UNIFORMS 1/16 LAGOON	02/17/17	255742	25.70-
00009 G & K SERVICES	1035802952	00167618	16000518	UNIFORMS 1/23 TRANS	02/17/17	255742	59.21-
00009 G & K SERVICES	1035802956	00167618	16000519	MOP/MAT 1/23 PLANT	02/17/17	255742	14.40-
00009 G & K SERVICES	1035802955	00167618	16000520	UNIFORMS 1/23 PLANT	02/17/17	255742	50.51-
00009 G & K SERVICES	1035802953	00167618	16000521	UNIFORMS 1/23 SEWER	02/17/17	255742	54.60-
00009 G & K SERVICES	1035802954	00167618	16000522	UNIFORMS 1/23 LAGOON	02/17/17	255742	25.70-
00009 G & K SERVICES	1035807189	00167823	16000544	UNIFORMS 2/06 TRANS	02/17/17	255742	61.16-
00009 G & K SERVICES	1035807193	00167823	16000545	MOP/MAT 2/06 PLANT	02/17/17	255742	14.40-
00009 G & K SERVICES	1035807192	00167823	16000546	UNIFORMS 2/06 PLANT	02/17/17	255742	50.51-
00009 G & K SERVICES	1035807190	00167823	16000547	UNIFORMS 2/06 SEWER	02/17/17	255742	54.60-
00009 G & K SERVICES	1035807191	00167823	16000548	UNIFORMS 2/06 LAGOON	02/17/17	255742	25.70-
00009 G & K SERVICES	1035809297	00168005	16000593	MOP/MAT 2/13 PLANT	02/17/17	255742	14.40-
00009 G & K SERVICES	1035809293	00168005	16000594	UNIFORMS 2/13 LAGOON	02/17/17	255742	63.11-
00009 G & K SERVICES	103589296	00168005	16000595	UNIFORMS 2/13 PLANT	02/17/17	255742	50.51-
00009 G & K SERVICES	1035809294	00168005	16000596	UNIFORMS 2/13 SEWER	02/17/17	255742	54.60-
00009 G & K SERVICES	1035809295	00168005	16000597	UNIFORMS 2/13 LAGOON	02/17/17	255742	25.70-
G & K SERVICES							
Sum							1,029.90-
00009 GARNER LUMLEY ELECTRIC S	532819	00167118	16000502	ELEC SUPP WELL #3 PLT #2	02/17/17	255743	887.50-
00009 GARNER LUMLEY ELECTRIC S	533622	00167373	16000566	HAND TOOLS TRANS DEPT	02/17/17	255743	1,547.37-
GARNER LUMLEY ELECTRIC S							
Sum							2,434.87-
00009 GILLILANDS ELECTRONICS S	63523	00167696	16000539	RESTORE NETWORK SERV TORNADO	02/17/17	255744	700.00-
00009 GILLILANDS ELECTRONICS S	63524	00167908	16000559	PHONE SERV PLT#2 TORNADO 1/21	02/17/17	255744	91.70-
00009 GILLILANDS ELECTRONICS S	63549	00168043	16000602	PHONE SERV PLT #2	02/17/17	255744	75.00-
GILLILANDS ELECTRONICS S							
Sum							866.70-
00009 HYDRA SERVICE INC	119200	00168041	16000605	DISCHARGE HOSE SEWER DEPT	02/17/17	255759	224.00-
HYDRA SERVICE INC							
Sum							224.00-
00009 IRBY, STUART C CO	S009969536.0	00167288	16000530	TRACER WIRE SEWER DEPT	02/17/17	255764	234.57-

IRBY, STUART C CO							
Sum							234.57-
00009 JET CONSTRUCTION	2194	00167006	16000504	CLAY GRAVEL SEWER DEPT	02/17/17	255767	1,875.00-
JET CONSTRUCTION							
Sum							1,875.00-
00009 L & A CONTRACTING CO	483-074	00167610	16000507	AERATOR MNT 1/16-19 LAGOONS	02/17/17	255781	85,159.90-
00009 L & A CONTRACTING CO	483-075	00168001	16000600	AERATOR MNT 1/30-2/12 LAGOONS	02/17/17	255781	44,166.83-
L & A CONTRACTING CO							
Sum							129,326.73-
00009 MICHAEL'S WRECKER SERVIC	2688	00167577	16000505	TOWING U#18544 SEWER DEPT	02/17/17	255800	135.00-
MICHAEL'S WRECKER SERVIC							
Sum							135.00-
00009 MORGAN, C J INC	2017004	00167869	16000550	FIRE MAIN REPAIR	02/17/17	255806	9,609.06-
00009 MORGAN, C J INC	2016111	00167870	16000551	END OF YEAR BILLING	02/17/17	255806	9,350.00-
00009 MORGAN, C J INC	2017002	00167922	16000563	STORM WORK 1/21-2/3 TORNADO	02/17/17	255806	84,335.27-
MORGAN, C J INC							
Sum							103,294.33-
00009 MS POWER COMPANY	2/17 W&SO&M	00020179	16000589	MNTHLY ELEC-W&SO&M	02/17/17	255813	26,976.61-
MS POWER COMPANY							
Sum							26,976.61-
00009 NEWELL PAPER COMPANY	891436	00167635	16000565	PAPER PRODUCTS WTR BILLING	02/17/17	255822	338.57-
NEWELL PAPER COMPANY							
Sum							338.57-
00009 PEARL RIVER VALLEY EPA (	2/17 W&SO&M	00020179	16000590	MNTHLY 2/17 PUBLIC SERVICES	02/17/17	255830	8,880.35-
PEARL RIVER VALLEY EPA (							
Sum							8,880.35-
00009 PINE BELT OIL COMPANY IN	10364821	00167918	16000560	DIESEL GENERATORS TORNADO '17	02/17/17	255835	5,935.34-
00009 PINE BELT OIL COMPANY IN	10447051	00167918	16000561	DIESEL GENERATORS TORNADO '17	02/17/17	255835	2,966.76-
00009 PINE BELT OIL COMPANY IN	10447111	00167918	16000562	DIESEL GENERATORS TORNADO '17	02/17/17	255835	1,655.94-
PINE BELT OIL COMPANY IN							
Sum							10,558.04-
00009 RAWLS SPRINGS UTILITY DI	SEWER BILLIN	00167579	16000501	SEWER BILLING 12/16	02/17/17	255841	186.00-
00009 RAWLS SPRINGS UTILITY DI	SEWER BILLIN	00167891	16000557	SEWER BILLING 2/17	02/17/17	255841	188.00-
RAWLS SPRINGS UTILITY DI							
Sum							374.00-
00009 REGIONS CARDHOLDER SERVI	7079 1/31/17	00167582	16000587	REPLACE PRINTERS TORNADO 1/21	02/17/17	255846	835.41-
00009 REGIONS CARDHOLDER SERVI	7079 1/31/17	00167583	16000588	CLEAN SUPP PLT TORNADO 1/21	02/17/17	255846	382.17-
REGIONS CARDHOLDER SERVI							
Sum							1,217.58-
00009 RJM MCQUEEN CONTRACTING	1194	00167909	16000564	SEWER SERV BROOKLANE/21 AVE	02/17/17	255850	9,746.65-

00009 RJM MCQUEEN CONTRACTING	1174	00167937	16000581	SEWER REPPR MOBILE & NEWMAN	02/17/17	255850	2,026.00-
00009 RJM MCQUEEN CONTRACTING	1175	00167937	16000582	SEWER REPR HWY 49/CRIP DAVIS	02/17/17	255850	3,205.00-
00009 RJM MCQUEEN CONTRACTING	1195	00168002	16000604	FORCE MAIN HWY 49 PROJECT	02/17/17	255850	622.97-
RJM MCQUEEN CONTRACTING							
Sum							15,600.62-
00009 SCOGGINS PUMP REPAIR	10539	00166796	16000536	REPRS TATUM BLVD LIFT STA	02/17/17	255859	4,524.00-
00009 SCOGGINS PUMP REPAIR	10538	00167122	16000537	PUMP #1 REPR WES-PAK LIFT STA	02/17/17	255859	4,449.72-
00009 SCOGGINS PUMP REPAIR	10550	00165302	16000599	REPR 3RD PUMP NORTH LAGOON	02/17/17	255859	8,232.77-
SCOGGINS PUMP REPAIR							
Sum							17,206.49-
00009 SHOWS DEARMAN & WAITS IN	19434	00167658	16000503	SRV WAREHOUSE EXPAN PLT #2	02/17/17	255863	2,397.50-
SHOWS DEARMAN & WAITS IN							
Sum							2,397.50-
00009 SOUTHERN PINE ELECTRIC P	2/17 W&SO&M	00020179	16000591	MNTHLY 2/17 PUBLIC SERVICES	02/17/17	255870	851.39-
SOUTHERN PINE ELECTRIC P							
Sum							851.39-
00009 SOUTHERN TIRE MART #9 (M	9017497	00167390	16000527	TIRE U#20056 TRANS DEPT	02/17/17	255872	139.79-
SOUTHERN TIRE MART #9 (M							
Sum							139.79-
00009 SPEEDY PRINTING & SIGNS	23459	00167729	16000606	PERFORATED PAPER WTR BILLING	02/17/17	255874	708.00-
SPEEDY PRINTING & SIGNS							
Sum							708.00-
00009 STANDARD OFFICE SUPPLY C	0064310-001	00163688	16000525	OFFICE SUPP WTR BILLING	02/17/17	255876	29.99-
00009 STANDARD OFFICE SUPPLY C	0067743-001	00167636	16000541	OFFICE SUPP WTR BILLING	02/17/17	255876	432.35-
STANDARD OFFICE SUPPLY C							
Sum							462.34-
00009 WILLMUT GAS & OIL COMPAN	2/17 W&SO&M	00020179	16000592	MNTHLY GAS-W&SO&M	02/17/17	255907	665.07-
WILLMUT GAS & OIL COMPAN							
Sum							665.07-
Sum							596,568.96-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

PERIOD ENDING FEBRUARY 17, 2017

Date - 02/16/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER FUND							
00011 BARTON, PATRICIA A	METER DEP RF	02017278	16000335	METER DEP RFD	02/17/17	255678	43.00-

BARTON, PATRICIA A
Sum 43.00-
00011 BROWN, WHITNEY WTR OVRPMT R 02017316 16000339 WTR OVRPMT RFD 02/17/17 255688 75.00-

BROWN, WHITNEY
Sum 75.00-
00011 CITY OF HATTIESBURG FUND 1/17 WATER D 02017285 16000316 1/17 WATER DIST 2/17 02/02/17 311276 452,002.68-

CITY OF HATTIESBURG FUND
Sum 452,002.68-
00011 EVERETT, DOUGLAS L METER DEP RF 02017278 16000334 METER DEP RFD 02/17/17 255723 75.00-

EVERETT, DOUGLAS L
Sum 75.00-
00011 ISABELLE,JEREMY METER DEP RF 02017278 16000336 METER DEP RFD 02/17/17 255765 43.00-

ISABELLE,JEREMY
Sum 43.00-
00011 JONES, OPHELIA METER DEP RF 02017278 16000333 METER DEP RFD 02/17/17 255772 26.00-

JONES, OPHELIA
Sum 26.00-
00011 MCQUEEN JAMES METER DEP RF 02017278 16000331 METER DEP RFD 02/17/17 255798 40.00-

MCQUEEN JAMES
Sum 40.00-
00011 MONTS, GRADY METER DEP RF 02017278 16000337 METER DEP RFD 02/17/17 255804 16.32-

MONTS, GRADY
Sum 16.32-
00011 NETWORK SERVICES (NSI) 102014916053 02017297 16000320 WATER COLLECTIONS FEES 02/17/17 255821 476.59-
00011 NETWORK SERVICES (NSI) 102014916063 02017298 16000321 WATER COLLECTIONS FEES 02/17/17 255821 775.51-
00011 NETWORK SERVICES (NSI) 102014916073 02017299 16000322 WATER COLLECTIONS FEES 02/17/17 255821 532.52-
00011 NETWORK SERVICES (NSI) 102014916083 02017300 16000323 WATER COLLECTIONS FEES 02/17/17 255821 423.64-
00011 NETWORK SERVICES (NSI) 102014916093 02017301 16000324 WATER COLLECTIONS FEES 02/17/17 255821 471.06-
00011 NETWORK SERVICES (NSI) 102014916103 02017302 16000325 WATER COLLECTIONS FEES 02/17/17 255821 566.23-
00011 NETWORK SERVICES (NSI) 102014916113 02017303 16000326 WATER COLLECTIONS FEES 02/17/17 255821 537.65-
00011 NETWORK SERVICES (NSI) 102014916042 02017296 16000327 WATER COLLECTIONS FEES 02/17/17 255821 662.22-
00011 NETWORK SERVICES (NSI) 10201490000 02017304 16000328 WATER COLLECTIONS FEES 02/17/17 255821 612.10-
00011 NETWORK SERVICES (NSI) 010201490000 02017305 16000329 WATER COLLECTIONS FEES 02/17/17 255821 563.89-

NETWORK SERVICES (NSI)
Sum 5,621.41-
00011 RICKS, KATHRYN L WTR OVRPMT R 02017317 16000340 WTR OVRPMT RFD 02/17/17 255847 134.49-

RICKS, KATHRYN L
Sum 134.49-
00011 RUTLAND, SUSAN METER DEP RF 02017278 16000332 METER DEP RFD 02/17/17 255855 26.00-

RUTLAND, SUSAN
Sum 26.00-
00011 SHOEMAKER PROPERTIES METER DEP RF 02017278 16000338 METER DEP RFD 02/17/17 255862 75.00-

SHOEMAKER PROPERTIES							
Sum							75.00-
00011 SMITH, DARRELL	METER DEP RF	02017278	16000330	METER DEP RFD	02/17/17	255864	62.52-
SMITH, DARRELL							
Sum							62.52-
Sum							458,240.42-

CITY OF HATTIESBURG

DOCKET OF CLAIMS — Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
CITY B & I							
00013 MS STATE/TREASURER/LYNN	MBIA DUE 2/1	02017306	16000010	MBIA DUE 2/1/17	02/09/17	111586	290,000.00-
MS STATE/TREASURER/LYNN							
Sum							290,000.00-
00013 PEOPLES BANK (C/O TRUSTM	3/1/17 '07 G	02017291	16000008	PRIN/INT '07 GO REF	02/08/17	111581	712,900.00-
PEOPLES BANK (C/O TRUSTM							
Sum							712,900.00-
Sum							1,002,900.00-

CITY OF HATTIESBURG

DOCKET OF CLAIMS — Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
2002 TIF B&I-SOUTHERN POINTE							
00020 TRUSTMARK NATIONAL BANK/	ISSUE 5652 '	02017290	16000001	ISSUE 5652 '14 SO POINTE P&I	02/08/17	111580	191,987.50-
TRUSTMARK NATIONAL BANK/							
Sum							191,987.50-
Sum							191,987.50-

CITY OF HATTIESBURG

DOCKET OF CLAIMS — Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice	Purchase	Claims	Item	Check	Check	Check

	Number	Order	Number	Description	Date	No.	Amount
TAX COLLECTOR'S FUND							
00027 LIBRARY, THE	1/17 MILLAGE	02017271	16000042	1/17 MILLAGE DIST 2/17	02/02/17	311269	154,257.04-
LIBRARY, THE							
Sum							154,257.04-
Sum							154,257.04-

CITY OF HATTIESBURG

DOCKET OF CLAIMS Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
MUNICIPAL ROAD & BRIDGE							
00072 JET CONSTRUCTION	EST #8 L LEA	00167830	16000052	CONSTR FEES LL TRACE PH III	02/17/17	255767	129,418.56-
JET CONSTRUCTION							
Sum							129,418.56-
Sum							129,418.56-

CITY OF HATTIESBURG

DOCKET OF CLAIMS Date - 02/16/17

PERIOD ENDING FEBRUARY 17, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
MASS TRANSIT FUND							
00073 ADVANCED JANITORIAL SERV	101050 MASS	00167576	16000193	SERVS 1/17 MASS TRANS OFFICE	02/17/17	255653	345.00-
ADVANCED JANITORIAL SERV							
Sum							345.00-
00073 AT&T MOBILITY	287273578351	00167919	16000212	SERVICE 12/16 MASS TRANSIT	02/17/17	255670	119.62-
AT&T MOBILITY							
Sum							119.62-
00073 CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16000192	TRF 1ST 2/17 PAYROLL	02/01/17	111564	25,851.40-
00073 CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16000225	TRF 2ND 2/17 PAYROLL	02/15/17	111589	32,653.05-
CITY OF HATTIESBURG FUND							
Sum							58,504.45-
00073 EMPIRE TRUCK SALES (H'BU	RE006024895:	00167598	16000219	REPRS U#16235	02/17/17	255722	165.00-
EMPIRE TRUCK SALES (H'BU							
Sum							165.00-

00073	G & K SERVICES	1035796579	00167876	16000199	UNIFORMS 1/02 MECHANICS	02/17/17	255742	11.70-
00073	G & K SERVICES	1035798708	00167876	16000200	UNIFORMS 1/09 MECHANICS	02/17/17	255742	7.80-
00073	G & K SERVICES	1035800837	00167876	16000201	UNIFORMS 1/16 MECHANICS	02/17/17	255742	7.80-
00073	G & K SERVICES	1035802957	00167876	16000202	UNIFORMS 1/23 MECHANICS	02/17/17	255742	7.80-
00073	G & K SERVICES	1035805081	00167876	16000203	UNIFORMS 1/30 MECHANICS	02/17/17	255742	7.80-
00073	G & K SERVICES	1035796581	00167877	16000204	UNIFORMS 1/02 DRIVERS	02/17/17	255742	43.08-
00073	G & K SERVICES	1035798710	00167877	16000205	UNIFORMS 1/09 DRIVERS	02/17/17	255742	43.08-
00073	G & K SERVICES	1035800839	00167877	16000206	UNIFORMS 1/16 DRIVERS	02/17/17	255742	44.85-
00073	G & K SERVICES	1035802959	00167877	16000207	UNIFORMS 1/23 DRIVERS	02/17/17	255742	44.85-
00073	G & K SERVICES	1035805083	00167877	16000208	UNIFORMS 1/30 DRIVERS	02/17/17	255742	44.85-
00073	G & K SERVICES	1035796580	00167875	16000209	MATS 1/02	02/17/17	255742	5.10-
00073	G & K SERVICES	1035798709	00167875	16000210	MATS 1/09	02/17/17	255742	5.10-
00073	G & K SERVICES	1035800838	00167875	16000211	MATS 1/16	02/17/17	255742	5.10-
G & K SERVICES								
Sum								278.91-
00073	H'BURG HYDRAULICS INC	68010	00167940	16000218	REPR PTS U#16234	02/17/17	255751	82.82-
H'BURG HYDRAULICS INC								
Sum								82.82-
00073	JERRY'S AUTOMOTIVE REPAI	18326	00167630	16000198	REPRS U#16761 BUS	02/17/17	255766	32.00-
JERRY'S AUTOMOTIVE REPAI								
Sum								32.00-
00073	JOHNNY'S WRECKER SERVICE	31264	00164541	16000214	TOWING U#16759 BUS	02/17/17	255768	250.00-
00073	JOHNNY'S WRECKER SERVICE	31668	00167643	16000215	TOWING U#16761 BUS	02/17/17	255768	250.00-
00073	JOHNNY'S WRECKER SERVICE	31748	00167643	16000216	TOWING U#16761 BUS	02/17/17	255768	250.00-
JOHNNY'S WRECKER SERVICE								
Sum								750.00-
00073	REGIONS CARDHOLDER SERVI	7079 1/31/17	00166899	16000217	AIRFARE BEECH FTA 3/8-9/17	02/17/17	255846	750.60-
REGIONS CARDHOLDER SERVI								
Sum								750.60-
00073	THERMO KING OF JACKSON I	4129660	00167280	16000197	A/C REPR U#16761 BUS	02/17/17	255883	436.95-
THERMO KING OF JACKSON I								
Sum								436.95-
00073	WATERS INTERNATIONAL TRU	08812227	00166393	16000196	REPRS U#18572 BUS	02/17/17	255903	2,062.42-
00073	WATERS INTERNATIONAL TRU	08811921	00164502	16000220	A/C REPR U#18570	02/17/17	255903	2,038.97-
00073	WATERS INTERNATIONAL TRU	08P828026	00164502	16000221	BAL STMT	02/17/17	255903	16.22-
00073	WATERS INTERNATIONAL TRU	08P828068	00164502	16000222	BAL STMT	02/17/17	255903	16.22
00073	WATERS INTERNATIONAL TRU	08P829203	00164502	16000223	BAL STMT	02/17/17	255903	479.40-
00073	WATERS INTERNATIONAL TRU	08P829202	00164502	16000224	BAL STMT	02/17/17	255903	479.40
WATERS INTERNATIONAL TRU								
Sum								4,101.39-
Sum								65,566.74-

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WATER&SEWER CONSTRUCTION FUND							
00075 MORGAN, C J INC	2016108	00167874	16000040	WTR LINE BAKER GRAHAM CLINIC	02/17/17	255806	43,188.85-
MORGAN, C J INC							
Sum							43,188.85-
00075 RJM MCQUEEN CONTRACTING	1176	00167947	16000041	SWR REPR ACADEMY/JM TATUM IND	02/17/17	255850	25,363.00-
RJM MCQUEEN CONTRACTING							
Sum							25,363.00-
00075 SHOWS DEARMAN & WAITS IN	19509	00167829	16000039	SERVS EPA RESPONSE	02/17/17	255863	7,350.00-
SHOWS DEARMAN & WAITS IN							
Sum							7,350.00-
Sum							75,901.85-

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COMMUNITY CENTERS' FUND							
00077 AT&T MOBILITY	287273578351	00167919	16000178	SERVICE 12/16 COMM CNTRS	02/17/17	255670	59.81-
AT&T MOBILITY							
Sum							59.81-
00077 AUTOMOTIVE GLASS SPECIAL	I211760	00166837	16000179	GLASS REPR MCNAIR CENTER	02/17/17	255675	577.30-
AUTOMOTIVE GLASS SPECIAL							
Sum							577.30-
00077 CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16000169	TRF 1ST 2/17 PAYROLL	02/01/17	311263	15,781.63-
00077 CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16000187	TRF 2ND 2/17 PAYROLL	02/15/17	311284	23,186.30-
CITY OF HATTIESBURG FUND							
Sum							38,967.93-
00077 G & K SERVICES	1035798697	00167769	16000172	UNIFORMS 1/09 COMM CNTRS	02/17/17	255742	43.12-
00077 G & K SERVICES	1035800826	00167769	16000173	UNIFORMS 1/16 COMM CNTRS	02/17/17	255742	43.12-
00077 G & K SERVICES	1035802946	00167769	16000174	UNIFORMSF 1/23 COMM CNTRS	02/17/17	255742	43.12-
00077 G & K SERVICES	1035805070	00167769	16000175	UNIFORMS 1/30 COMM CNTRS	02/17/17	255742	134.12-
G & K SERVICES							
Sum							263.48-
00077 HUGHES, MARION (REFUNDS)	SHERRILL CEN	02017314	16000182	DAMAGE DEPOSIT REFUND	02/17/17	255758	100.00-

HUGHES, MARION (REFUNDS)							
Sum							100.00-
00077 LIFE SUPPORT (REFUNDS)	CE ROY CENTE	02017314	16000180	DAMAGE DEPOSIT REFUND	02/17/17	255786	100.00-
LIFE SUPPORT (REFUNDS)							
Sum							100.00-
00077 LYON REFRIGERATION A/C H	012639	00168047	16000188	REFRIGERATOR REPR SHERRILL CN	02/17/17	255790	431.29-
LYON REFRIGERATION A/C H							
Sum							431.29-
00077 MAACO COLLISION REPAIR &	37187-1(A)	00167592	16000176	WINDOW REPR U#5591	02/17/17	255792	639.30-
00077 MAACO COLLISION REPAIR &	37187-1(B)	00167593	16000177	ADDL AMT DUE PO#167592	02/17/17	255792	105.00-
MAACO COLLISION REPAIR &							
Sum							744.30-
00077 MS POWER COMPANY	2/17 COMM CN	00020179	16000185	MNTHLY ELEC-COMM CNTRS	02/17/17	255811	2,075.53-
MS POWER COMPANY							
Sum							2,075.53-
00077 NORTH FORREST FOOTBALL C	SHERRILL CEN	02017314	16000183	DAMAGE DEPOSIT REFUND	02/17/17	255824	100.00-
NORTH FORREST FOOTBALL C							
Sum							100.00-
00077 RAYDIAH FELTS & TERRELL	SHERRILL CEN	02017314	16000181	DAMAGE DEPOSIT REFUND	02/17/17	255842	100.00-
RAYDIAH FELTS & TERRELL							
Sum							100.00-
00077 WILLMUT GAS & OIL COMPAN	2/17 COMM CN	00020179	16000186	MNTHLY GAS-COMM CNTRS	02/17/17	255907	1,073.03-
WILLMUT GAS & OIL COMPAN							
Sum							1,073.03-
Sum							44,592.67-

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COMMUNITY DEVELOP. BLOCK GRANT							
00082 CITY OF HATTIESBURG FUND	TRF 1ST 2/17	02017280	16000058	TRF 1ST 2/17 PAYROLL	02/01/17	311264	6,160.04-
00082 CITY OF HATTIESBURG FUND	TRF 2ND 2/17	02017323	16000063	TRF 2ND 2/17 PAYROLL	02/15/17	311285	7,348.87-
CITY OF HATTIESBURG FUND							
Sum							13,508.91-
00082 MILLENNIUM CONSTRUCTION	12/20/16	00167993	16000062	414 DUMAS AVE, DRAW 1 & FINAL	02/14/17	311282	55,400.00-

MILLENNIUM CONSTRUCTION							
Sum							55,400.00-
00082 RICHARD & THOMAS, PLLC	01/03/17	00167681	16000061	516 BARKLEY ROAD DPA	02/09/17	311281	5,363.00-
RICHARD & THOMAS, PLLC							
Sum							5,363.00-
00082 RJ YOUNG COMPANY	INV1677995	00168024	16000064	COPIER 11/28-12/27/16	02/17/17	255849	1,114.15-
00082 RJ YOUNG COMPANY	INV1710959	00168024	16000065	COPIER 12/28-1/27/17	02/17/17	255849	187.22-
RJ YOUNG COMPANY							
Sum							1,301.37-
Sum							75,573.28-

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SPECIAL SALES TAX-T&A							
00107 H'BURG CONVENTION COMMIS	FOOD/BEVERAG	02017322	16000010	FOOD/BEVERAGE TAX 1/17	02/16/17	111591	443,649.31-
H'BURG CONVENTION COMMIS							
Sum							443,649.31-
00107 H'BURG TOURISM COMMISSIO	MOTEL SALES	02017321	16000009	MOTEL SALES TAX 1/17	02/16/17	111590	38,774.86-
H'BURG TOURISM COMMISSIO							
Sum							38,774.86-
Sum							482,424.17-
Grand Total Level							
Sum							7,020,591.31-