

City of Hattiesburg, MS

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



Meeting Agenda

Tuesday, February 7, 2017

5:00 PM

Council Chambers

City Council

I. Call to Order**II. Call to Prayer and Pledge of Allegiance****III. Agenda Order****IV. PRESENTATION AGENDA****V. Approval of Minutes****VI. POLICY AGENDA**

- VI.1. 2017-204** Adopt a resolution requesting the Mississippi Legislature to enact Local and Private Legislation for the City of Hattiesburg to provide for a tax on gross sales of all taxable items except hotels, motels, beverages, packaged liquor, motor vehicles, restaurants, groceries and prescription drugs in the City of Hattiesburg, Mississippi to defray the costs of certain public projects in the City, as described herein; to provide that such tax be collected by the State Tax Commission and paid to the City of Hattiesburg; to authorize the City of Hattiesburg to use the proceeds of such tax for the purposes of funding public projects of the City of Hattiesburg; and for related purposes.

1. 1% Sales Tax Legislation
2. Resolution - 1% Sales Tax

- VI.2. 2017-200** Adopt Resolutions adjudicating and directing the placement of an assessment for the cleanup cost, not to exceed the value of the property per State Law, against the following properties.

1. ADJUDICATION MEMO
2. 511 New Orleans St.
3. 225 W. 4th St.
4. 451 W. 4th St.
5. 806 Jordan Ave.
6. 202 N. 23rd Ave.
7. 204 Railroad Ave.
8. 309 Unetta St.
9. 3808 Eagle Dr.
10. 722 Walnut St.

- VI.3. 2017-172** Rescind condemnation resolution approved on October 18th, 2016 at MB 2016-280-281 for properties located at 1413 N. Main St., 321 Kimball Ave., 800 E. 7th St., 2507 W. 7th St. and 112 E. 8th St. Rescinding is being requested due to an error in the legal description. Adopt Resolution with corrected legal descriptions condemning properties located at 1413 N. Main St., 321 Kimball Ave., 800 E. 7th St., 2507 W. 7th St. and 112 E. 8th St.
1. RESCIND RESOLUTION MEMO
 2. 1413 N. Main St.
 3. 321 Kimball Ave.
 4. 800 E. 7th St.
 5. 2507 W. 7th St.
 6. 112 E. 8th St.
- VI.4. 2017-199** Adopt a Resolution authorizing Disbursement No. 12 from the Project Fund Escrow Account in connection with certain Equipment Lease/Purchase Agreement, dated as of February 4, 2016, by and between Banc of America Public Capital Corp and the City of Hattiesburg.
1. Energy Performance Disbursement 12
- VI.5. 2017-180** Adopt a Resolution authorizing Requisition No. 1 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. 1
- VI.6. 2017-198** Adopt a Resolution authorizing Requisition No. 63 from the Project Fund Construction Account in connection with a 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. 63
- VI.7. 2017-183** Approve Payment Application No. 8 and Final Payment to Griner Drilling Service, Inc. in the amount of \$22,400.00 for construction services for 1500 GPM Water Well at Plant #1 project; approve final acceptance of said project; and Authorize Publication of the Notice of Final Settlement of contract of said project.
1. Closing Documents
 2. Notice of Final Settlement

- VI.8. 2017-181** Approve and authorize Mayor to execute in triplicate a Contractor and Owner Agreement and a Housing Rehabilitation Grant Award to Ferry D. Coney of 106 Ruby Avenue in an amount not to exceed \$50,000 according to the Housing Rehabilitation and Housing Programs Manual Section VII (E). {Entitlement}
1. Housing Rehabilitation Grant Award - 106 Ruby Avenue 01.25.17
- VI.9. 2017-170** Authorize Mayor to sign in triplicate closing documents for the Katrina Community Development Block Grant # R-103-205-02-KED for the Hub City Lofts project.
1. HCL Grant Closing Documents
- VI.10. 2017-220** Designate the Convention Commission and Saenger Theatre's hosting of the Krewe of Zeus' Coronation Ceremony Friday night, February 24, 2017, as city-approved events for the purposes described in Ordinance 3148.
1. Letter of Request, R. Taylor
- VI.11. 2017-221** Designate the Historic Hattiesburg Downtown Association's list of events scheduled for 2017 as city-approved events for the purposes described in Ordinance Number 3148 (see attached list).
1. Letter of Request, A. Saffle
2. HHDA 2017 Schedule of Events
- VI.12. 2017-216** Declare the push back and removal of debris on various streets in the City of Hattiesburg as an emergency purchase per Mississippi Code 31-7-13(k) and approve payment to L & A Contracting Company in the amount of \$ 11,185.75 (purchase order #167466).
1. L & A Contracting Emergency Purchase
- VI.13. 2017-217** Declare the Removal of Fallen Trees in the City of Hattiesburg as an emergency purchase per Mississippi Code 31-7-13(k) and approve payment to Geddie Tree Service in the amount of \$ 13,720.00 (purchase order 167476).
1. Geddie Tree Service Emergency Purchase

- VI.14. 2017-202** Acknowledge application for participation in Federal Property Donation Program through the Mississippi Office of Surplus Property. (nunc pro tunc)

1. Surplus Program Application

VII. ROUTINE AGENDA

- VII.1. 2017-214** Acknowledge and accept award USDOJ Edward Byrne Memorial Justice Assistance Grant in the amount of \$19,703.

1. USDOJ Byrne JAG 2016 Award
2. USDOJ Bryne 2016 MOU & Grant Application

- VII.2. 2017-215** Acknowledge receipt of bids received January 19,2017 for Two (2) Year Depositories and accept bids received.

1. Regions
2. Hancock Bank
3. Bancorp
4. Trustmark
5. Great Southern
6. Community Bank
7. The First

- VII.3. 2017-179** Acknowledge bids received January 12, 2017 for the COMSWIP Water Improvements Phase IV - Miscellaneous Connections project and accept bid from C. B. Developers in the amount of \$271,676.78 as the lowest and best bid.

1. Bid Tab
2. Bid-CB Developers
3. Bid-Myers Underground

- VII.4. 2017-197** Approve plans and specifications for the Fourth Street Roadway Improvements Project-Phase II (Project No. HPP 7194-00(003) LPA/105845-801000); Authorize advertisement for bids for same.

1. Specifications
2. Plans
3. Bid Advertisement

- VII.5. 2017-186** Approve Specifications and Authorize Publication of Advertisement for Term Bid Item 4A Event Tee Shirts for the City of Hattiesburg Parks and Recreation Department, Term Bid beginning April 1, 2017.
1. Item 4A Notice to Bidders
 2. Item 4A Specifications
- VII.6. 2017-205** Approve Specifications and Authorize Publication of Advertisement for Term Bid #1 Striping of City Streets for the City of Hattiesburg, Term Bid beginning April 1, 2017.
1. Notice to Bidders
 2. Item 1 Street Striping Specifications
- VII.7. 2017-206** Approve Specifications and Authorize Publication of Advertisement for Term Bid Item #2 Repair and Rehabilitation of Streets for the City of Hattiesburg and Term Bid Item #2A Paving Alternatives for the City of Hattiesburg, Term Bids beginning April 1, 2017
1. Item 2 Notice to Bidders
 2. Item 2 Specifications
 3. Item 2A Notice to Bidders
 4. Item 2A Specifications
- VII.8. 2017-207** Approve Specifications and Authorize Publication of Advertisement for Term Bid #3 Ready Mix Concrete for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Notice to Bidders
 2. Item 3 Specifications
- VII.9. 2017-208** Approve Specifications and Authorize Publication of Advertisement for Term Bid #10 Vehicle Loop Sealant for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Notice to Bidders
 2. Item 10 Specifications
- VII.10. 2017-209** Approve Specifications and Authorize Publication of Advertisement for Term Bid #13 Furnish and Install Various Chain Link and Vinyl Coated Fencing for the City of Hattiesburg, Term Bid beginning April 1, 2017.
1. Item 13 Notice to Bidders
 2. Item 13 Specifications
- VII.11. 2017-210** Approve Specifications and Authorize Publication of Advertisement for Term Bid # 14 Street Marking Signs and Sign Posts for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Item 14 Notice to Bidders
 2. Item 14 Specifications

- VII.12. 2017-203** Approve Specifications and Authorize Publication of Advertisement for Term Bid Item #16 Uniforms for Hattiesburg Police Department and Item #16A Sports Shirts for Hattiesburg Police Department.
1. Notice to Bidders
 2. Item 16 Police Uniform Specifications
 3. Item 16A Police Dept. Sports Shirts Specifications
- VII.13. 2017-211** Approve Specifications and Authorize Publication of Advertisement for Term Bid # 25 Concrete & Brick Structures for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Item 25 Notice to Bidders
 2. Item 25 Specifications
- VII.14. 2017-187** Approve Specifications and Authorize Publication of Advertisement for Term Bid Item 32 Uniform Rental Service for Hub City Transit, Term Bid beginning April 1, 2017.
1. Item 32 Notice to Bidders
 2. Item 32 Specifications
- VII.15. 2017-212** Approve Specifications and Authorize Publication of Advertisement for Term Bid # 33 Crushed Concrete for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Item 33 Notice to Bidders
 2. Item 33 Specifications
- VII.16. 2017-213** Approve Specifications and Authorize Publication of Advertisement for Term Bid # 35 Traffic Safety Items for the City of Hattiesburg, Term Bid beginning April 1, 2017
1. Item 35 Notice to Bidders
 2. Item 35 Specifications
- VII.17. 2017-182** Approve and authorize issuance of manual check for CDBG Program Claim per the attached memorandum. {Entitlement CDBG}
1. Manual Check for Millennium Construction - 414 Dumas Avenue
01.25.17
- VII.18. 2017-201** Approve claims docket for the period ending January 31, 2017.
1. Claims Docket 1-31-2017



City of Hattiesburg, MS

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

FILE NUMBER: 2017-204

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: 1% Sales Tax Local and Private Legislation

Title: Adopt a resolution requesting the Mississippi Legislature to enact Local and Private Legislation for the City of Hattiesburg to provide for a tax on gross sales of all taxable items except hotels, motels, beverages, packaged liquor, motor vehicles, restaurants, groceries and prescription drugs in the City of Hattiesburg, Mississippi to defray the costs of certain public projects in the City, as described herein; to provide that such tax be collected by the State Tax Commission and paid to the City of Hattiesburg; to authorize the City of Hattiesburg to use the proceeds of such tax for the purposes of funding public projects of the City of Hattiesburg; and for related purposes.

Type: Resolution

Drafter: Sharon Waits

In Control: City Council

Reference:

Attachments: 1% Sales Tax Legislation, Resolution - 1% Sales Tax

File Created: 01/31/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

AN ACT TO PROVIDE FOR A TAX ON GROSS SALES OF ALL TAXABLE ITEMS EXCEPT HOTELS, MOTELS, BEVERAGES, PACKAGED LIQUOR, MOTOR VEHICLES, RESTAURANTS, GROCERIES AND PRESCRIPTION DRUGS IN THE CITY OF HATTIESBURG, MISSISSIPPI TO BE EXPENDED BY THE CITY OF HATTIESBURG TO DEFRAY THE COSTS OF CERTAIN PUBLIC PROJECTS IN THE CITY AS DESCRIBED HEREIN; TO PROVIDE THAT SUCH TAX BE COLLECTED BY THE STATE TAX COMMISSION AND PAID TO THE CITY OF HATTIESBURG; TO AUTHORIZE THE CITY OF HATTIESBURG TO USE THE PROCEEDS OF SUCH TAX FOR THE PURPOSES OF FUNDING PUBLIC PROJECTS OF THE CITY OF HATTIESBURG; AND FOR RELATED PURPOSES.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MISSISSIPPI:

SECTION 1. In the manner provided by this act, there shall be levied, assessed and collected from every person, firm, corporation or other entity in the City of Hattiesburg, Mississippi, a tax in addition to all other taxes or assessments now imposed, which shall be equal to one percent (1.00%) of the gross proceeds from sales of goods and services in the City of Hattiesburg, Mississippi, except that such tax shall not be applied to sales of rooms for hotels and motels, beverages, packaged liquor, motor vehicles, restaurants, groceries and prescription drugs. Persons, firms, corporations or other entities liable for the tax imposed herein shall add the amount of such tax to goods and services provided and in addition thereto shall collect, insofar as practicable, the amount of the tax due from the person receiving the services or goods at the time of payment therefor.

SECTION 2. For the purposes of this act, the words “hotel” and “motel” shall mean a place of lodging that at any one (1) time will accommodate transient guests on a daily or weekly basis and that are known to the trade as such.

SECTION 3. (a) The tax authorized by this act shall be paid to the State Tax Commission, or its successor, on a form to be prescribed by the State Tax Commission, in the same manner that state sales taxes are computed, collected and paid; and the full enforcement provisions and all other provisions of the Mississippi Sales Tax Law shall apply as necessary to the implementation and administration of this act.

(b) The State Treasurer is authorized to pay all of such funds to the City of Hattiesburg, and such funds may be used for the purposes authorized by this act.

(c) On or before the fifteenth day of the month following the month in which collected, the proceeds of such tax, less three percent (3%) to be retained by the State Tax Commission to defray the costs of collection, shall be paid by the commission to the City of Hattiesburg for expenditure as authorized in this act.

(d) Such tax shall be levied, assessed, collected and deposited in the Special Fund provided in Section 5 hereof to fund acquisition, construction, improvement, or expansion of the Projects described in said Section 5. Provided however, the State Tax Commission shall certify to the City once the total collected pursuant to this act exceeds \$300,000,000 over and above the amounts retained by the State Tax Commission as authorized in this section. Upon the City’s receipt of said certification from the State Tax Commission, the tax shall be discontinued by order or resolution of the City within thirty (30) days. Provided further, in no event shall the tax authorized herein be continued from and after September 30, 2047.

(e) Any receipts from the tax authorized by this act shall be deposited into the Special Fund and accumulated therein to defray the costs of the Project.

SECTION 4. Before the tax authorized by this act shall be imposed, sixty percent (60%) of the qualified electors of the City voting at a special election on _____ must authorize the imposition of the tax. At least thirty (30) days before the effective date of the tax authorized by the act, the governing authorities of the City shall furnish to the State Tax Commission a certified copy of the results of the election evidencing approval of the tax.

SECTION 5. The funds paid to the City of Hattiesburg as authorized by Section 3(b) of this act shall be deposited into a Special Fund in the City treasury. Monies in the Special Fund shall be expended by the City of Hattiesburg for the purpose of defraying the cost of (a) establishing sanitary, storm, drainage or sewerage systems, and repairing, improving and extending the same, (b) protecting the city, its streets and sidewalks from overflow, caving banks and other like dangers, (c) constructing, improving or paving streets, sidewalks, driveways, parkways, walkways or public parking facilities or public facilities, and purchasing land therefor, (d) constructing bridges and culverts, (e) altering or changing the channels of streams and water courses to control, deflect or guide the current thereof. Together (a) through (e) above are referred to as the "Project".

SECTION 6. The avails of the tax provided for in this act shall be used solely for the purposes of defraying the costs of the Project. Provided, however, the avails of such tax shall not be pledged as security for or otherwise used to fund debt service on any bonds of the City.

SECTION 7. This act shall be liberally construed for the purposes herein set out and shall be construed as additional, cumulative and supplemental to any power granted to the City by any general or local and private act of the legislature.

SECTION 8. The City is authorized under this act to enter into any interlocal agreements as may be necessary to carry out the purposes of this act.

SECTION 9. This act shall be repealed from and after September 30, 2047.

SECTION 10. This act shall take effect and be in force from and after its passage.

The City Council of the City of Hattiesburg, Mississippi (the “Governing Body” of the “City”), took up the matter of the need for local and private legislation to fund certain public projects for the City, and for related purposes. After full discussion of the subject, Council Member _____ offered and moved the adoption of the following resolution.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI REQUESTING THE LEGISLATURE OF THE STATE OF MISSISSIPPI TO ENACT CERTAIN LOCAL AND PRIVATE LEGISLATION.

WHEREAS, the City Council of the City of Hattiesburg, Mississippi (the “Governing Body” of the “City”) hereby finds, determines and declares that for the benefit of the people of the City, the increase of their commerce, welfare and prosperity, the Governing Body of the City requests the Legislature of the State of Mississippi to pass a local and private act to fund certain public projects of the City, and for related purposes.

NOW THEREFORE, BE IT RESOLVED by the City Council of the City that the Legislators representing the City are hereby requested to introduce, and the Legislature of the State of Mississippi is hereby requested, to enact local and private legislation in the forma and substance similar to the bill attached hereto as Exhibit A, authorizing the City to do those things provided herein.

The above and foregoing resolution, after having first been 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:

ABSTAIN:

The President thereby declared the motion carried and the resolution adopted, this the ____ day of _____, 2017.

(SEAL)

ATTEST:

ADOPTED:

Debbie Bernardo, Clerk of Council

Carter Carroll, President

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the ____ day of _____ 2017.

ATTEST:

ADOPTED:

Kermas Eaton, City Clerk

Johnny L. DuPree, Mayor



City of Hattiesburg, MS

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

FILE NUMBER: 2017-200

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Adopt Resolution Adjudications

Title: Adopt Resolutions adjudicating and directing the placement of an assessment for the cleanup cost, not to exceed the value of the property per State Law, against the following properties.

Type: Action Item

Drafter: Akw
ete
Muhammad

In Control: City Council

Reference:
Mark A.
Jordan

Attachments: ADJUDICATION MEMO, 511 New Orleans St., 225 W. 4th St., 451 W. 4th St., 806 Jordan Ave., 202 N. 23rd Ave., 204 Railroad Ave., 309 Unetta St., 3808 Eagle Dr., 722 Walnut St.

File
Created: 01/
31/2017

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

MEMORANDUM

TO: Mayor and City Council

FR: Mark Jordan, Code Enforcement Division Manager

DATE: February 7th, 2017

RE: Adopt Resolution

I recommend adopting Resolutions adjudicating and directing the placement as an assessment the cleanup cost, and Title Opinion Cost not to exceed the value of the property per State Law, against the following properties.

<u>Owner</u>	<u>Address</u>	<u>PPIN #</u>	<u>Cost</u>	<u>Ward</u>
1. Kenya May Vladimir Gavin	511 New Orleans St.	18931	\$3,432.00 \$250.00 (T.O.)	2
2. Terrence C. Brown	225 W. 4 th St.	25129	\$1,496.00 \$250.00 (T.O.)	2
3. Edgar L. Foreman	451 W. 4 th St.	14456	\$1,365.00 \$250.00 (T.O.)	2
4. Addie A. Coleman	806 Jordan Ave.	21534	\$1,131.00 \$250.00 (T.O.)	5
5. Anthony Shindelar	202 N. 23 rd Ave.	16132	\$774.20 \$500.00 (T.O.)	2
6. Lonzo Hawthorne Lottie Pack	204 Railroad Ave	09708	\$2,125.42 \$250.00 (T.O.)	2

7. Bobbie Rankin	309 Unetta St.	21933	\$748.00 \$250.00 (T.O.)	2
8. Jewel L. Kohnke	3808 Eagle Dr.	14898	\$3,045.00 \$250.00 (T.O.)	1
9. Jennie Fairman	722 Walnut St.	24089	\$1,260.00 \$250.00 (T.O.)	2

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Lot One (1) Block One Hundred Six (106) according to the Kamper and Whinnery Survey.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanliness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about October 15th, 2015 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Gavin Vladimir	511 New Orleans St.	2-029G-03-511	\$3,432.00
Kenya May			\$250.00 (T.O.)

The part of Lot One (1) Block One Hundred Six (106) according to the Kamper and Whinnery Survey of the city of Hattiesburg, Mississippi and more particularly described as follows: Commencing at NE corner of said Lot One and run thence West 40 feet, thence South 80 feet to the point of beginning being a part of the SW ¼ of SW ¼ Section 3 Township 4 North, Range 13 West addressing 511 New Orleans Street, of the city of Hattiesburg, MS, as per map or plat thereof on file in the office of the Chancery Clerk of the Forrest County, Mississippi.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: The East half of Lot 14 in Block 170 of the G.D. Wilson Subdivision of the Crittenden Survey.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about September 8th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Terrence C. Brown	225 W 4 th St.	2-029F-04-215	\$1,496.00
			\$250.00 (T.O.)

The East half of Lot 14 in Block 170 of the G.D. Wilson Subdivision of the Crittenden Survey of the City of Hattiesburg as per map or plat thereof which is on file in the office of the Chancery Clerk of Forrest County, Mississippi; together with all improvements thereon and appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Part of Lot two (2) of Block 171 of CRITTENDEN SURVEY.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about September 8th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Edgar L. Foreman	451 W. 4 th St.	2-029F-04-199	\$1,365.00
			\$250.00 (T.O.)

Better described as Part of Lot two (2) of Block 171 of CRITTENDEN SURVEY to the City of Hattiesburg, Forrest County, Mississippi, and more particularly described as beginning 253 feet West of the Southeast corner of said Lot Two (2), thence run North 236 feet, thence run West 58.25 feet, thence run South 239 feet to West 4th Street, thence run East 58 feet to the point of beginning, together with all improvements lying thereon and appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Begin 150 feet Southwest of the North Corner of Lot four (4), SE 100 feet; SW 50 feet; NW 100 feet; NE 50 feet to point of beginning, Block 50 D.D. McInnis 3rd Map or plat of said Subdivision.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about September 8th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Addie A. Coleman	806 Jordan Ave.	2-038F-16-213	\$1,131.00
			\$250.00 (T.O.)

Better described to Begin 150 feet Southwest of the North Corner of Lot four (4), SE 100 feet; SW 50 feet; NW 100 feet; NE 50 feet to point of beginning, Block 50 D.D. McInnis 3rd Map or plat of said Subdivision is on file and of record in the office of the Chancery Clerk of Forrest County, Mississippi.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: The South Half (S ½) of Lot Nine (9) and all of Lot Ten (10) of Block Eleven (11), Hattiesburg Heights Second Survey.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about June 3rd, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Anthony Shindelar	202 N. 23 rd Ave.	2-028J-08-257	\$774.20
			\$250.00 (T.O.)

The South Half (S ½) of Lot Nine (9) and all of Lot Ten (10) of Block Eleven (11), Hattiesburg Heights Second Survey, according to the map of plat thereof on file in the office of the Chancery Clerk of Forrest County, Mississippi, together with all improvements thereon and appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Lots 13 and 14, Block 1 of the W.A. CONNER SUBDIVISION.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about June 9th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Lonzo Hawthorne	204 Railroad Ave.	2-042F-26-123	\$2,125.42
Lottie Pack			\$250.00 (T.O.)

Lots 13 and 14, Block 1 of the W.A. CONNER SUBDIVISION, in the City of Hattiesburg, Forrest County Mississippi, as per the official map or plat thereof on file in the office of the Chancery Clerk of Forrest County, Mississippi, together with all improvements thereon and appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Lot 9, in Block 5, of the D.D. MCINNIS Second Survey.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about June 14th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Bobbie Rankin	309 Unetta St.	2-029I-10-191	\$748.00
			\$250.00 (T.O.)

Described as A parcel of land lying in and forming part of Lot 9, in Block 5, of the D.D. MCINNIS Second Survey to the City of Hattiesburg, Mississippi, and more particularly described as follows:

Beginning at the Southeasterly corner of Lot 9, of block 5 of said Survey, thence run Northwesterly along the Southeasterly line of said Lot 9, for 22 feet to and fore a point of beginning, thence run Northwesterly 28 feet more or less to the most Westerly corner of Lot 9, thence run Northwesterly 95 feet more or less to the Southwesterly line of Mrs. Katheryn Stewart’s land, thence run at right angles Southwesterly 28 feet more or less, thence run Southwesterly 95 feet more or less to the point of beginning, and for the same consideration the Grantor herein sell remises and quitclaims unto the Grantee herein all of my right, title and interest in and to a certain alley in Block 5, of the D.D. MCINNIS Second Survey which is adjacent to the above described property, in the City of Hattiesburg, as per map or plat on file in the office of the Chancery Clerk of Forrest County, Mississippi.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk’s Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Lot 36, EAGLES NEST SUBDIVISION.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanliness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about October 11th, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Jewel L. Kohnke	3808 Eagle Dr.	2-028E-06-023	\$3,045.00 \$250.00 (T.O.)

Better described as, Lot 36, EAGLES NEST SUBDIVISION, Forrest County, Mississippi, together with all improvements lying thereon and all appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 554-1027

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898
(601) 545-4596

RESOLUTION

INDEXING INSTRUCTIONS: Lot 21 and 22, in Block 92 of the STAPLETON AND BAYNE SUBDIVISION of the KAMPER AND LEWIN SURVEY.

WHEREAS, Section 21-19-11 of the Mississippi Code of 1972, Annotated, authorizes the governing authorities of municipalities to adjudicate the actual cost to the City of Hattiesburg for cleaning properties that have been determined to be in such a state of uncleanness as to be a Menace to the public health and safety of the community, and that the owner has failed, after appropriate notice, to clean said property; and

WHEREAS, the following property has been cleaned by the City of Hattiesburg (Public Works) on or about September 21st, 2016 on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the City of Hattiesburg, Mississippi:

Section 1. That the City Council of the City of Hattiesburg does hereby adjudicate and direct the placement as an assessment the cleanup cost, not to exceed the value of the property per State Law, against the following described property:

OWNER/LEGAL	ADDRESS	PARCEL NUMBER	CLEAN-UP COST
Jennie Fairman	722 Walnut St.	2-038B-15-010	\$1,260.00
			\$250.00 (T.O.)

A part of Lot 21 and 22, in Block 92 of the STAPLETON AND BAYNE SUBDIVISION of the KAMPER AND LEWIN SURVEY of the City of Hattiesburg, Forrest County, Mississippi, as per map or plat thereof on file, in the office of the Chancery Clerk of Forrest County, Mississippi, more particularly described as follows:

Beginning at the Northwest Corner of Lot 21, run thence, East 100 feet, thence run South 67 feet, thence run West 100 feet, thence run North 67 feet to the Point of Beginning; together with all improvements thereon and appurtenances thereunto belonging.

Section 2. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage.

Section 3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR



City of Hattiesburg, MS

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

FILE NUMBER: 2017-172

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Rescind Condemnation Resolution

Title: Rescind condemnation resolution approved on October 18th, 2016 at MB 2016-280-281 for properties located at 1413 N. Main St., 321 Kimball Ave., 800 E. 7th St., 2507 W. 7th St. and 112 E. 8th St. Rescinding is being requested due to an error in the legal description. Adopt Resolution with corrected legal descriptions condemning properties located at 1413 N. Main St., 321 Kimball Ave., 800 E. 7th St., 2507 W. 7th St. and 112 E. 8th St.

Type: Action Item

Drafter: Akwete
Muhammad

In Control: City Council

Reference: Mar
k A. Jordan

Attachments: RESCIND RESOLUTION MEMO , 1413 N. Main St., 321 Kimball Ave., 800 E. 7th St., 2507 W. 7th St., 112 E. 8th St.

File
Created: 01/23/
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

MEMORANDUM

TO: Mayor and City Council

FROM: Mark Jordan, Code Enforcement Division Manager

DATE: February 7th, 2017

RE: Rescind Resolution

Rescind condemnation resolution approved at MB 2016-280-281 for properties located at 1413 N. Main St., 321 Kimball Ave., 112 E. 8th St., 2507 W. 7th St. and 800 E. 7th St. Rescinding is being requested due to an error in the legal description.

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY

WHEREAS, on the 20th day of September 2016, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on, the 17th day of October, 2016, in the Council Meeting Room of City Hall in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanliness as to be a menace to the health and safety of the community, to-wit:

PARCEL: 2-029F-04-025, 1413 N. MAIN ST. HATTIESBURG, MS 39401, or better described as, COM SW/CR SE 1/4 SE ALG NE MGR, N MAIN ST 309.3 FOR POB E 490, MOL TO ROW G S I RR SELY, 265.53 SWLY 519.2MOL NLY 206, TO POB BLK 172, PREV of the CRITTENDEN SURVEY, in the City of Hattiesburg, Forrest County Mississippi, as per the official map or plat thereof on file in the office of the Chancery Clerk of Forrest County, Mississippi, together with all improvements thereon and appurtenances thereunto belonging.

WHEREAS, the owner of the property is: MARY FRANCIS MORRIS

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanliness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Maintenance Code, Sec. 302.4)
Accumulation of Rubbish/Garbage (International Property Maintenance Code, Sec. 308.1)
Vacant Structure X's 2 (International Property Maintenance Code, Sec. 301.3)
Hazardous Tree (Land Development Code, Sec. 79.13)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:	APPROVED:
---------	-----------

_____ CITY CLERK	_____ MAYOR
---------------------	----------------

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY

WHEREAS, on the 20th day of September 2016, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on, the 17th day of October, 2016, in the Council Meeting Room of City Hall in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanliness as to be a menace to the health and safety of the community, to-wit:

PARCEL: 2-028I-08-300, 321 KIMBALL AVE. HATTIESBURG, MS 39402, or better described as, The North Sixty-Six and Five-Tenths feet (66.5 feet) of Lot 12 in Block 3 of and according to the WILSON T.W. SURVEY OR ADDITION, to the City of Hattiesburg, Forrest County, Mississippi, as per the official map or plat thereon on file in the office of the Chancery Clerk of Forrest County, Mississippi, together with all improvements thereon and appurtenances thereunto belonging, the said property having frontage of 66.5' on Kimball Avenue in the City of Hattiesburg and extending back in parallel lines a distance of 150' to an alley.

WHEREAS, the owner of the property is: T.B. BARGE, RICHARD LEWIS WILKINS

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanliness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Maintenance Code, Sec. 302.4)
Accumulation of Rubbish/Garbage (International Property Maintenance Code, Sec. 308.1)
Vacant Structure (International Property Maintenance Code, Sec. 301.3)
Dangerous Structure (International Property Maintenance Code, Sec. 108.1.5)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY

WHEREAS, on the 20th day of September 2016, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on, the 17th day of October, 2016, in the Council Meeting Room of City Hall in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanness as to be a menace to the health and safety of the community, to-wit:

PARCEL: 2-029H-03-223, 800 E. 7TH ST. HATTIESBURG, MS 39401, or better described as PT E 1/2 SE 1/4 BEG SW COR NE, 1/4 N 122FT E 40FT S, 162FT W 40FT N 40FT TO BEG of Block 003/Section 03/Township 04N/Range 13W, in the City of Hattiesburg, as per map or plat on file in the office of the Chancery Clerk of Forrest County, Mississippi.

WHEREAS, the owner of the property is: BARBARA SIGWORTH ETAL CYNTHIA O'MAR, TIFFANY R. POWERS, & ALLIE TROTTER

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

**Dangerous Structure (International Property Maintenance Code, Sec. 108.1.5)
Vacant Structure (International Property Maintenance Code, Sec. 301.3)**

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:	APPROVED:
---------	-----------

_____ CITY CLERK	_____ MAYOR
---------------------	----------------

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY

WHEREAS, on the 20th day of September 2016, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on, the 17th day of October, 2016, in the Council Meeting Room of City Hall in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanliness as to be a menace to the health and safety of the community, to-wit:

PARCEL: 2-028G-05-051, 2507 W. 7TH ST. HATTIESBURG, MS 39401, or better described as BG 105 W SE CR LT 10 N 210 W 60 FT S 210 FT E60 TO BG BLK 10 PREV#: H0176-01-014 BERTIE BRASWELL ODOM-ESTATE of the DUNN M. SUBDIVISION, in the City of Hattiesburg, as per map or plat on file in the office of the Chancery Clerk of Forrest County, Mississippi.

WHEREAS, the owner of the property is: TTLBL LLC, MAXON LLC, BERTIE BRASWELL ODOM

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanliness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Maintenance Code, Sec. 302.4)
Dangerous Structure X's 2 (International Property Maintenance Code Sec. 108.1.5)
Accumulation of Rubbish/Garbage (International Property Maintenance Code, Sec. 308.1)
Vacant Structure (International Property Maintenance Code, Sec. 301.3)
Unsafe Structure (International Property Maintenance Code, Sec. 108.1.1)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

Prepared by:
City of Hattiesburg
Code Enforcement
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

Return to:
City of Hattiesburg
City Clerk's Office
P.O. Box 1898
Hattiesburg, Mississippi 39403-1898

RESOLUTION CONDEMNATION OF UNSAFE AND DILAPIDATED PROPERTY

WHEREAS, on the 20th day of September 2016, the Council of the City of Hattiesburg, Mississippi, passed a resolution announcing the intention of the City Council to hold a hearing on, the 17th day of October, 2016, in the Council Meeting Room of City Hall in Hattiesburg, Mississippi, as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the following described property is in such a state of uncleanliness as to be a menace to the health and safety of the community, to-wit:

PARCEL: 2-029F-04-009, 112 E. 8TH ST. HATTIESBURG, MS 39401, or better described as, LT 6 BLK 1, of KENNEDY MRS A.J. SUBDIVISON, PREV #:H0472-01-002, DB 778 PG 580 9/97, in the City of Hattiesburg, Forrest County, Mississippi, as per the official plat map thereof on file in the office of the Chancery Clerk of Forrest County, Mississippi.

WHEREAS, the owner of the property is: INTREPID GROUP LLC, ISAAC REED

WHEREAS, proper and timely notice of said hearing was given to said parties more than two weeks prior to the date of the hearing; and

WHEREAS, at said hearing it was determined that the aforementioned property is in such a state of uncleanliness as to be a menace to the health and safety of the community and should be condemned.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, as follows:

1. A period of fifteen (15) days shall be extended to the property owner for removal of the violations listed:

Overgrown Lot or Weeds (International Property Maintenance Code, Sec. 302.4)
Accumulation of Rubbish/Garbage (International Property Maintenance Code, Sec. 308.1)
Vacant Structure (International Property Maintenance Code, Sec. 301.3)
Dangerous Structure (International Property Maintenance Code, Sec. 108.1.5)

2. If the property owners do not take corrective action within fifteen (15) days to remove the violations, then after a complete and final legal review of the property conducted by the City Attorney, the City will take action to remove all violations listed, said work to be legally contracted with a private contractor or City crews, and the cost of same plus penalty to be certified to the City Clerk for further legal disposition.

3. A copy of this Resolution will be certified and recorded in the Chancery Clerk's Office of Forrest County, Mississippi.

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 7th 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 7th day of February, A.D., 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR



City of Hattiesburg, MS

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

FILE NUMBER: 2017-199

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Energy Performance Disbursement No. 12

Title: Adopt a Resolution authorizing Disbursement No. 12 from the Project Fund Escrow Account in connection with certain Equipment Lease/Purchase Agreement, dated as of February 4, 2016, by and between Banc of America Public Capital Corp and the City of Hattiesburg.

Type: Resolution

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Energy Performance Disbursement 12

File Created: 01/30/2017

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 Disbursement No. 12 of funds from the Escrow Account in connection with the Equipment Lease/Purchase Agreement between the City and Banc of America Public Capital Corp and an Escrow and Account Control Agreement between the City and Bank of America, N.A., as Escrow Agent, dated February 4, 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 DISBURSEMENT NO. 12 FROM THE ESCROW ACCOUNT IN CONNECTION WITH THAT EQUIPMENT LEASE/PURCHASE AGREEMENT DATED FEBRUARY 4, 2016, BY AND BETWEEN THE CITY AND BANC OF AMERICA PUBLIC CAPITAL CORP AND AN ESCROW AND ACCOUNT CONTROL AGREEMENT BETWEEN THE CITY AND BANK OF AMERICA, N.A., AS ESCROW AGENT, ALL IN CONNECTION WITH THAT CERTAIN PERFORMANCE CONTRACT UNDERTAKEN PURSUANT TO THE MISSISSIPPI DEVELOPMENT AUTHORITY CAPITAL LEASE PROGRAM TO FINANCE ENERGY EFFICIENCY AND CONVERSATION EQUIPMENT FOR CERTAIN FACILITIES LOCATED THROUGHOUT THE CITY, AND RELATED MATTERS.

Whereas, on February 4, 2016 the City entered into an Equipment Lease/Purchase Agreement between Banc of America Public Capital Corp and an Escrow Control Agreement between the Bank of America, National Association, as Escrow Agent, in an amount not to exceed \$7,528,000 (the "Lease") pursuant to the terms and conditions of that certain agreement, dated as February 4, 2016, by between Banc of America Public Capital Corp and Bank of America, National Association (the "Lease").

Whereas, the City Council of the City now finds it necessary to approve Disbursement No. 12 from the Escrow Account under the Lease in the total aggregate amount of \$ 116, 556.00 for the purpose of paying vendors in connection with the lease 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 Disbursement No. 12 from the Escrow Account under the Lease in the total aggregate amount of **One Hundred Sixteen Thousand Five Hundred Fifty-Six and no/100 Dollars (\$ 116,556.00)** for the purpose of paying vendors in connection with the Lease as more particularly described in Exhibit A.

SECTION 2. The City Council hereby directs Bank of America, National Association, as the Escrow Agent, to disburse funds of Disbursement No. 12 in the total aggregate amount **One Hundred Sixteen Thousand Five Hundred Fifty-Six and no/100 Dollars (\$ 116,556.00)** 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 7th 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 7th day of February, 2017.

ATTEST:

APPROVED:

CITY CLERK

MAYOR

EXHIBIT A

DISBURSEMENT OF ESCROW FUNDS REQUEST

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39401

PROJECT: City of Hattiesburg Energy Performance Contract
PROJECT MGR: Moore, Chip

APPLICATION NO: 12
PERIOD TO: 1/31/2017
PROJECT NO: SPYQ-0016

Distribution to:

☒	OWNER
☐	ARCHITECT
☐	CONTRACTOR
☐	
☐	

FROM CONTRACTOR:

JOHNSON CONTROLS, INC
South Region PC Branch
3021 W. Bend Drive

REMIT TO: Johnson Controls
PO Box 730068
Dallas, TX 75373

CONTRACT FOR: Energy Performance Upgrades

CONTRACT DATE: 28-Aug-15

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

1. ORIGINAL CONTRACT SUM \$ 7,249,714
2. Net change by Change Orders 0
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 7,249,714
4. TOTAL COMPLETED & STORED TO \$ 6,589,559

DATE (Column G on G703)

5. RETAINAGE:

a. 0 % of Completed Work
(Column D + E on G703) \$ 0
b. 0 % of Stored Material
(Column F on G703) \$ 0
Total Retainage (Lines 5a + 5b or
Total in Column I of G703) \$ 0

6. TOTAL EARNED LESS RETAINAGE
(Line 4 Less Line 5 Total) \$ 6,589,559

7. LESS PREVIOUS CERTIFICATES FOR
PAYMENT (Line 6 from prior Certificate) \$ 6,473,003

8. CURRENT PAYMENT DUE \$ 116,556

9. BALANCE TO FINISH, INCLUDING RETAINAGE
(Line 3 less Line 6) \$ 660,155

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

CONTRACTOR: Johnson Controls, Inc.

By: Derland Moore II Date: 1/27/2017

AMOUNT CERTIFIED \$ 116,556

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
Owner:

By: _____ Date: _____
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA DOCUMENT G702 APPLICATION AND CERTIFICATION FOR PAYMENT 1992 EDITION AIA® © 1992

THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE. N.W., WASHINGTON, DC 20005-5902

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0	\$0
Total approved this Month	\$0	\$0
TOTALS	\$0	\$0
NET CHANGES by Change Order	\$0	\$0

CONTINUATION SHEET

AIA Document G703, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column 1 on Contracts where variable retainage for line items may apply.

AIA DOCUMENT G703

ACT PROJECT NO: 28700-0016

APPLICATION NO:

APPLICATION DATE:

PERIOD TO:

27-Jan-17

31-Jan-17

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		E THIS PERIOD	F MATERIALS PRESENTLY STORED (NOT IN DOCK E)	G TOTAL COMPLETED AND STORED TO DATE (D + E + F)	H (G - C)	I BALANCE TO FINISH (C - G)	J RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)							
General Fund										
1	Lighting Upgrade	\$ 1,186,211	\$ 1,113,196	25,000		\$0	\$1,138,196	96%	\$48,015	\$0
2	Energy Management Control System	\$ 470,334	\$433,702	15,000		\$0	\$448,702	95%	\$21,632	\$0
3	Small Utility Equipment Replacement	\$ 362,896	\$359,367	0		\$0	\$359,367	99%	\$3,529	\$0
4	City Hall HVAC Upgrade	\$ 593,004	\$461,868	55,000		\$0	\$516,868	87%	\$76,136	\$0
5	Jackie Doyle HVAC Upgrade	\$ 102,285	\$102,285	0		\$0	\$102,285	100%	\$0	\$0
6	Solar Photo-Voltaic System	\$ 33,901	\$33,901	0		\$0	\$33,901	100%	\$0	\$0
Enterprise Fund										
7	Lighting Upgrade	\$ 394,328	\$359,608	0		\$0	\$359,608	91%	\$34,720	\$0
8	Energy Management Control System	\$ 33,262	\$28,904	0		\$0	\$28,904	87%	\$4,358	\$0
9	Boiler Replacement	\$ 144,945	\$144,945	0		\$0	\$144,945	100%	\$0	\$0
10	Water Treatment Plant Control Upgrade	\$ 1,240,751	\$1,086,781	0		\$0	\$1,086,781	88%	\$153,970	\$0
11	Lift Station Control Upgrade	\$ 1,409,975	\$1,225,236	0		\$0	\$1,225,236	87%	\$184,739	\$0
12	Water Conservation Option	\$ 1,277,822	\$1,123,210	21,556		\$0	\$1,144,766	90%	\$133,056	\$0
GRAND TOTALS:		\$7,249,714	\$6,473,003	116,556		\$0	\$6,589,559	91%	\$660,155	\$0

Bldg Name / Site	Completed	Ongoing	Have not started
Sanitation Office Facilities			
LED Lighting (65)			
Thermosets			
Public Works Facilities (5 Bldgs)			
LED Lighting (166)			
Thermosets			
Mass Transit Operations Building			
LED Lighting (64)			
Thermosets			
Maintenance Shop, Traffic Control			
LED Lighting (116)			
Thermosets			
L.T. Ben McVair Recreation Center			
LED Lighting (122)			
Thermosets			
AC unit replacement (2x10 ton)			
W. U. Bill Sigler Community Center			
LED Lighting (69)			
Thermosets			
Kemper Park Facilities			
LED Lighting (98) + Tennis Courts			
Thermosets			
Water Billing Office			
LED Lighting (53)			
Thermosets			
San Antonio Street Soccer Complex			
LED Lighting (10)			
Jaycee Park and Fields			
LED Lighting (42)			
Cameron Field with Buildings			
LED lighting (30)			
Hathiesburg Employee Clinic			
LED Lighting (22)			
Thermosets			
City Engineering Office			
LED Lighting (82)			
Thermosets			
HVAC upgrade (5 ton to 8 ton)			
Solar Shades			
Solar panels			
Car charging station			
Jackie Dole Sherill Community Center			
LED Lighting (374)			
Thermosets			
HVAC upgrade (2x10 ton)			
Solar shades			
Weather stripping			
Oseola McCarty Park Lighting / West Street Walking trail			
LED Lighting (19)			
LED Lighting (9)			
Percy Charles Bailey Fitness and Walking Trail Restrooms / East Side Park Facilities			
LED lighting (34)			
Bobby Chain Air Port Facilities			
LED Lighting (153)			
Police/Fire Training Building			
LED Lighting (162)			
Thermosets			

BLDG NAME / SITE	Completed	Ongoing	How not started
Fire Station #3			
LED Lighting (46)			
Thermotas			
Peoples Park			
LED Lighting (34)			
Walking Trail (18th St)			
LED Lighting (19)			
Walking Trail (5th St)			
LED Lighting (36)			
C E Roy Community Center / 5th Street Bell			
Sanderford			
LED Lighting (184)			
Thermotas			
WALK PARK WITH VERNAN DAHMER			
LED Lighting (33) * Tennis Courts			
Civic Center - Parking Garage			
LED Lighting (22)			
City Hall Building (Historic Building)			
LED Lighting (246)			
Thermotas			
HVAC upgrade			
Boiler Replacement			
Fluid Cookers Replacement			
Solar Shades			
Weather stripping			
Fire Station #1 (New Facility)			
LED Lighting (218)			
Thermotas			
Water Plant #1, 2 Bldgs & Pumps			
LED Lighting (172)			
Thermotas			
Water treatment plant controls upgrade			
Highland Cemetery			
LED Lighting (45)			
Thermotas			
AC unit replacement (2 x 5 ton)			
Fire Department Admin Bldg			
LED Lighting (45)			
Thermotas			
Water Plant #2 Admin Bldg			
LED Lighting (54)			
Thermotas			
Water Plant #2 Facilities, 4 Bldgs			
LED Lighting (72)			
Boiler Replacement			
Fire Station #2			
LED Lighting (22)			
Thermotas			
Fire Station #4			
LED Lighting (50)			
Thermotas			
Fire Station #5			
LED Lighting (85)			
Fire Station #6			
LED Lighting (81)			
Thermotas			
City of Hanesburg Municipal Water System			
Leak-Detection Services			

BLDG NAME / SITE	Completed	Ongoing	Have not started
Fire Station #7			
LED Lighting (87)			
Thermosals			
Fire Station #8			
LED Lighting (86)			
Thermosals			
Culture Center (Historic Building)			
LED Lighting (135)			
Thermosals			
Hattiesburg Train Depot			
LED Lighting (430)			
Thermosals			
HVAC Upgrade (2415 ton, 1x7.5 ton, 1x20 ton)			
Weather stripping			
Tatum Park Complex			
LED Lighting (242) + Tennis Courts			
Thermosals			
Unetta Street Gym			
LED Lighting (25)			
Thermosals			
AC unit replacement			
N.R. Burger Center			
Thermosals			
Timberton Complex			
LED Lighting (76)			
Thermosals			
Arena Drive Water Tank			
LED Lighting (1)			
Duncan Lake: RESTROOMS ONLY			
LED Lighting (4)			
Forrest General Water Tank and Booster Station			
LED Lighting (25)			
Thermosals			
LINCOLN RD EXTENSION / LINCOLN ROAD BOOSTER STATION			
LED Lighting (9)			
Lincoln Rd Tank			
LED Lighting (4)			
Lincoln Road Booster Station			
LED Lighting (50)			
North Lagoon Chlorine Bldg and Pump			
LED Lighting (4)			
RICHBURG ELEV. TANK: 40TH AVE			
LED Lighting (16)			
South Lagoon - Chlorine Bldg, East Laurel Lift Station, Bucket Lift			
LED Lighting (4)			
US Hwy 98 Water Tank & Booster Station			
LED Lighting (4)			
USM Tank - Storage used by USM under tank, Chlorine Bldg			
LED Lighting (4)			
Veteran's Memorial Park Facilities			
LED Lighting (33)			
W 4th St Well & Chlorine Bldg			
LED Lighting (3)			
Wesley Tank, Chlorine Bldg and Treatment Bldg			
LED Lighting (17)			

SCHEDULE 1
to the Escrow and Account Control Agreement

FORM OF DISBURSEMENT REQUEST

Re: Equipment Lease/Purchase Agreement dated as of February 4, 2016 by and between Banc of America Public Capital Corp, as Lessor and City of Hattiesburg, Mississippi, as Lessee (the "Lease") (Capitalized terms not otherwise defined herein shall have the meanings assigned to them in the Lease.)

In accordance with the terms of the Escrow and Account Control Agreement, dated as of February 4, 2016 (the "Escrow Account and Account Control Agreement") by and among Banc of America Public Capital Corp ("Lessor"), City of Hattiesburg, Mississippi ("Lessee") and Bank of America, National Association, (the "Escrow Agent"), the undersigned hereby requests the Escrow Agent pay the following persons the following amounts from the Escrow Account created under the Escrow Account and Account Control Agreement for the following purposes:

Disbursement Amounts:

Payee's Name and Address (if disbursement via wire, must include wire transfer instructions)	Invoice Number	Dollar Amount	Purpose
Johnson Control, Inc. JPM Chase One Bank Plaza Chicago, IL 60 670 ABA# 071000013 Account # 5514347	Pay App 12	\$116,556.00	Energy Performance Upgrades

(i) (a) Each obligation specified in the table herein titled as "Disbursement Amounts" has been incurred by Lessee in the stated amount, (b) the same is a proper charge against the Escrow Account for costs relating to the Equipment identified in the Lease, and (c) has not been paid (or has been paid by Lessee and Lessee requests reimbursement thereof).

(ii) Each item of Equipment relating to an obligation specified in the table herein titled as "Disbursement Amounts" has been delivered, installed and accepted by Lessee. Attached hereto is the original invoice with respect to such obligation.

(iii) The undersigned, as Authorized Representative, has no notice of any vendor's, mechanic's or other liens or rights to liens, chattel mortgages, conditional sales contracts or security interest which should be satisfied or discharged before such payment is made.

(iv) This requisition contains no item representing payment on account, or any retained percentages which Lessee is, at the date hereof, entitled to retain (except to the extent such amounts represent a reimbursement to Lessee).

(v) The Equipment is insured in accordance with the Lease.

(vi) No Event of Default, and no event which with notice or lapse of time, or both, would become an Event of Default, under the Lease has occurred and is continuing at the date hereof.

(vii) The disbursement shall occur during the Acquisition Period.

(viii) The representations, warranties and covenants of Lessee set forth in the Lease are true and correct as of the date hereof.

(ix) No Material Adverse Change has occurred since the date of the execution and delivery of the Lease.

Dated: February 7, 2017

CITY OF HATTIESBURG, MISSISSIPPI

By: _____

Mayor Johnny L. DuPree

Disbursement of funds from the Escrow
Account in accordance with the foregoing
Disbursement Request hereby is authorized

BANC OF AMERICA PUBLIC CAPITAL CORP
as Lessor under the Lease

By: _____
Name:
Title:



City of Hattiesburg, MS

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

FILE NUMBER: 2017-180

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: 2016 Bond Resolution No. 1

Title: Adopt a Resolution authorizing Requisition No. 1 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. 1

File Created: 01/24/2017

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. 1 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. 1 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. 1 from the Project Fund Construction Account under the Loan in the total aggregate amount of \$ **125,735.00** 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. 1 from the Project Fund Construction Account under the Loan in the total aggregate amount of **One Hundred Twenty-Five Thousand Seven Hundred Thirty-Five & 00/100 dollars (\$ 125,735.00)** 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. 1 in the total aggregate amount of **One Hundred Twenty-Five Thousand Seven Hundred Thirty-Five & 00/100 dollars (\$ 125,735.00)** 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 7th 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 7th 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.:

1

DATE OF REQUISITION:

2/7/2016

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	\$ 54,935.00	19464	Lake Forgetful Road Period: August 15 - December 31, 2016 MB: 2011-4/89-110 SDW #11209
2	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.63	\$ 11,112.50	19440	Infrastructure Improvements at 30th & Chevy Chase Period: November 27 - December 31, 2016 MB: 2016-289 SDW #11241
3	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.72	\$ 962.50	19432	Sewer Improvements Ph X - Quinn St. Area Period: November 27 - December 31, 2016 MB 2011-4/89-110 SDW #1273-S011
4	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.72	\$ 1,225.00	19395	Sewer Improvements Ph X - Quinn St. Area Period: October 23 - November 26, 2016 MB 2011-4/89-110 SDW #1273-S011
5	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.70	\$ 5,232.50	19396	Sewer Improvements Ph VIII - Camp St. Area Period: October 23 - November 26, 2016 MB 2011-4/89-110 SDW #1273-S010

EXHIBIT A

Item #	Payee Name & Address	Budget Line Item	Payment Amount	Invoice #	Purpose of Payment
6	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.70	\$ 14,980.00	19431	Sewer Improvements Ph VIII - Camp St. Area Period: November 27 - December 31, 2016 MB 2011-4/89-110 SDW #1273-S010
7	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.54	\$ 18,300.00	19441	Sewer Improvements Ph V Period: November 27 - December 31, 2016 MB 2012-1/413 SDW #1273-S005
8	Shows, Dearman, & Waits, Inc. 301 Second Ave Hattiesburg, MS 39401	093695.7220.54	\$ 18,987.50	19413	Sewer Improvements Ph V Period: October 23 - November 26, 2016 MB 2012-1/413 SDW #1273-S005

\$ 125,735.00



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

January 05, 2017
Project No: 11209
Invoice No: 19464

Project Manager Shea McNease

Project 11209 Lake Forgetful Road
Professional Services from August 15, 2016 to December 31, 2016

Professional Personnel

	Hours	Rate	Amount	
AUTO CAD TECHNICIAN				
Smith, Larry	353.50	105.00	37,117.50	
Sullivan, Richard	6.50	105.00	682.50	
CONSTRUCTION OBSERVER				
Tingle, William	4.00	95.00	380.00	
DESIGN ENGINEER				
Connolly, Nicholas	24.00	175.00	4,200.00	
FIELD CREW				
Crew, Field	17.50	175.00	3,062.50	
GRADUATE ENGINEER				
Riley, Ivy	6.00	105.00	630.00	
PROJECT ENGINEER				
McNease, Shea	39.00	175.00	6,825.00	
Wallace, Kyle	2.50	175.00	437.50	
Weeks, John	2.00	175.00	350.00	
Totals	455.00		53,685.00	
Total Labor				53,685.00

Consultants

GeoCon Laboratories, Inc.			1,250.00	
Total Consultants	1.0 times	1,250.00		1,250.00
Total this Invoice				\$54,935.00

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. 402
2011-4 | 89-110

LR



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

January 05, 2017
Project No: 11241
Invoice No: 19440

Project Manager Shea McNease

Project 11241 Infrastructure Improvements at 30th Ave & Chevy Chase

Professional Services from November 27, 2016 to December 31, 2016

Professional Personnel

	Hours	Rate	Amount	
CADD TECHNICIAN I				
Sullivan, Richard	5.00	105.00	525.00	
PROJECT ENGINEER				
McNease, Shea	60.50	175.00	10,587.50	
Totals	65.50		11,112.50	
Total Labor				11,112.50
		Total this Invoice		\$11,112.50

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

January 05, 2017
Project No: 1273-S011
Invoice No: 19432

Project Manager John Weeks
Project 1273-S011 ComSWIP Sewer Phase X - Quinn St. Area
Professional Services from November 27, 2016 to December 31, 2016
Professional Personnel

	Hours	Rate	Amount
PROJECT ENGINEER			
Weeks, John	5.50	175.00	962.50
Totals	5.50		962.50
Total Labor			962.50
Total this Invoice			\$962.50

Outstanding Invoices

Number	Date	Balance
19395	11/30/2016	1,225.00
Total		1,225.00
Total Now Due		\$2,187.50

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

November 30, 2016
Project No: 1273-S011
Invoice No: 19395

Project Manager John Weeks

Project 1273-S011 ComSWIP Sewer Phase X - Quinn St. Aarea

Professional Services from October 23, 2016 to November 26, 2016

Professional Personnel

	Hours	Rate	Amount	
PROJECT ENGINEER				
Weeks, John	7.00	175.00	1,225.00	
Totals	7.00		1,225.00	
Total Labor				1,225.00
		Total this Invoice		\$1,225.00

Please make checks payable to Shows, Dearman and Walts, Inc. Thank you.

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.72
2011-4/89-110 LR



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

November 30, 2016
Project No: 1273-S010
Invoice No: 19396

Project Manager John Weeks

Project 1273-S010 ComSWIP Sewer Phase VIII - Camp St. Area

Professional Services from October 23, 2016 to November 26, 2016

Professional Personnel

	Hours	Rate	Amount	
CADD TECHNICIAN I				
Sullivan, Richard	6.50	105.00	682.50	
FIELD CREW				
Crew, Field	16.00	175.00	2,800.00	
PROJECT ENGINEER				
Weeks, John	10.00	175.00	1,750.00	
Totals	32.50		5,232.50	
Total Labor				5,232.50
		Total this Invoice		\$5,232.50

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

42



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

January 05, 2017
Project No: 1273-S010
Invoice No: 19431

Project Manager John Weeks
Project 1273-S010 ComSWIP Sewer Phase VIII - Camp St. Area
Professional Services from November 27, 2016 to December 31, 2016

Professional Personnel

	Hours	Rate	Amount
CADD TECHNICIAN I			
Sullivan, Richard	1.00	105.00	105.00
FIELD CREW			
Crew, Field	72.50	175.00	12,687.50
PROJECT ENGINEER			
Weeks, John	12.50	175.00	2,187.50
Totals	86.00		14,980.00
Total Labor			14,980.00
Total this Invoice			\$14,980.00

Outstanding Invoices

Number	Date	Balance
19396	11/30/2016	5,232.50
Total		5,232.50
Total Now Due		\$20,212.50

Please make checks payable to Shows, Dearman and Waits, Inc. Thank you.

093695.7220.70
2011-4/89-110 4R



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

January 05, 2017
Project No: 1273-S005
Invoice No: 19441

Project Manager Kyle Wallace

Project 1273-S005 ComSWIP Sewer Phase V

Professional Services from November 27, 2016 to December 31, 2016

Phase CM Phase V - Construction Phase Services

Professional Personnel

	Hours	Rate	Amount	
PROJECT ENGINEER				
Wallace, Kyle	3.00	175.00	525.00	
Totals	3.00		525.00	
Total Labor				525.00
Total this Phase				\$525.00

Phase DD Phase V - Design Services

Professional Personnel

	Hours	Rate	Amount	
CADD TECHNICIAN I				
Sullivan, Richard	9.50	105.00	997.50	
CAD TECHNICIAN II				
Trahan, Beau	128.50	90.00	11,565.00	
SR. RESIDENT PROJECT REPRESENTATIVE				
Tingle, William	10.00	95.00	950.00	
PROJECT ENGINEER				
Sellers, Bennie	15.00	150.00	2,250.00	
Wallace, Kyle	11.50	175.00	2,012.50	
Totals	174.50		17,775.00	
Total Labor				17,775.00
Total this Phase				\$17,775.00

Total this Invoice \$18,300.00

Outstanding Invoices

Number	Date	Balance
19413	12/1/2016	18,987.50
Total		18,987.50

Total Now Due \$37,287.50

301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | (f) 601.544.0501 | sd-w.com

093695.7220.54
2012-1/413

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CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

December 01, 2016
Project No: 1273-S005
Invoice No: 19413

Project Manager Kyle Wallace
Project 1273-S005 ComSWIP Sewer Phase V
Professional Services from October 23, 2016 to November 26, 2016

Phase DD Phase V - Design Services

Professional Personnel

	Hours	Rate	Amount
CADD TECHNICIAN I			
Sullivan, Richard	39.50	105.00	4,147.50
CAD TECHNICIAN II			
Trahan, Beau	113.50	90.00	10,215.00
FIELD CREW			
Crew, Field	8.50	175.00	1,487.50
PROJECT ENGINEER			
Sellers, Bennie	4.00	150.00	600.00
Wallace, Kyle	13.50	175.00	2,362.50
PROFESSIONAL SURVEYOR			
Connolly, Nicholas	1.00	175.00	175.00
Totals	180.00		18,987.50
Total Labor			18,987.50

Total this Phase \$18,987.50

Total this Invoice \$18,987.50

Outstanding Invoices

Number	Date	Balance
19335	10/26/2016	2,330.00
Total		2,330.00

Total Now Due \$21,317.50

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
2012-11-413

LH



**City of Hattiesburg
2016 Sewer & Water Bond
Summary of Payments
As of 1/11/17**

Project Name	Payments by Project This Requisition	Payments to Date
Infrastructure Improvements at 30th & Chevy Chase Lake Forgetful Road	11,112.50	11,112.50
Sewer Improvements Ph V	54,935.00	54,935.00
Sewer Improvements Ph VIII	37,287.50	37,287.50
Sewer Improvements Ph X	20,212.50	20,212.50
	2,187.50	2,187.50
Grand Total	125,735.00	125,735.00

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: 2017-198

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Project Resolution Requisition No. 63 - 2013 Bonds

Title: Adopt a Resolution authorizing Requisition No. 63 from the Project Fund Construction Account in connection with a 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. 63

File Created: 01/30/2017

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. 63 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. 63 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. 63 from the Project Fund Construction Account under the Loan in the total aggregate amount of \$ 208,909.34 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. 63 from the Project Fund Construction Account under the Loan in the total aggregate amount of **Two Hundred Eight Thousand Nine Hundred Nine and 34/100 Dollars (\$ 208,909.34)** 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. 63 in the total aggregate amount of **Two Hundred Eight Thousand Nine Hundred Nine and 34/100 Dollars (\$ 208,909.34)** 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 **7th 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 **7th 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.: 63

DATE OF REQUISITION: 2/7/2017

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	\$ 51,804.46	Pay Est. 13	Water Improvements Ph III Period: October 29 - December 31, 2016 MB 2015-241
2	C B Developers, Inc. 1716 Evelyn Gandy Pkwy., Suite 40 Hattiesburg, MS 39401	105695.7245.11	\$ 134,704.88	Pay App 2	Water Line Ext on Old 98 and Runnels Period: December 1 - December 31, 2016 MB: 2016-187
3	Griner Drilling Services Inc. P.O. Drawer 825 1014 HWY 98 East Columbia, MS 39429	105695.7245.27	\$ 22,400.00	Pay App 8 - FINAL	1500 GPM Water Well @ Plant 1 Period: October 21 - December 20, 2016 MB 2016-54

\$ 208,909.34



To:	City of Hattiesburg (006003)	From:	Griner Drilling Service, Inc. P.O. Drawer 825, 1014 Highway 98 East Columbia, MS 39429	Via (Engineer):	SDW - Engineering Progress Attn: Kyle D. Wallace, P.E. 301 Second Avenue, Hattiesburg, MS 39401
Project:	1500 GPM Water Well	Contract:	1500 GPM Water Well at Plant No. 1	Engineer Project No.:	N/A
Owner's Project No.:	N/A	Contractor's Project No.:	2016M1002	Application Period:	10/21/2016 - 12/20/2016

Application Date:	12/20/2016
Contractor's Application for Payment No.	8/Final

Application For Payment
Change Order Summary

Approved Change Orders	
Number	Additions
Deductions	
TOTALS	
NET CHANGE BY	
CHANGE ORDERS	

1. ORIGINAL CONTRACT PRICE	\$448,000.00
2. Net change by Change Orders	\$
3. Current Contract Price (Line 1 ± 2)	\$448,000.00
4. TOTAL COMPLETED AND STORED TO DATE	\$
5. RETAINAGE:	
a. X \$448,000.00 Work Completed	\$
b. X Stored Material	\$
c. Total Retainage (Line 5a + Line 5b)	\$
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c)	\$448,000.00
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)	\$425,600.00
8. AMOUNT DUE THIS APPLICATION	\$22,400.00
9. BALANCE TO FINISH, PLUS RETAINAGE	(Column C on Progress Estimate + Line 5 above) \$

Contractor's Certification

The undersigned Contractor certifies that to the best of his knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Approved by: _____ Date: 12/20/2016

Payment of: \$22,400.00 (Line 8 or other - attach explanation of the other amount)

is recommended by: _____ (Engineer) 1-22-17

Payment of: \$22,400.00 (Line 8 or other - attach explanation of the other amount)

is approved by: _____ (Owner)

Approved by: _____ (Date)

Funding Agency (if applicable) _____ (Date)

105695.7245.27
2016-54

Contractor's Application For Payment No. 2

Application Period:	Beginning: 12/1/2016	Ending: 12/31/2016	Application Date: 4-Jan-17
To (Owner):	City of Hattiesburg		
Project:	Water Line Extension-WL Runnels & Old Hwy 98		
Owner's Contract No.:	Not Applicable		
Contractor's Project No.:	Not Applicable		
Contract:	C. B. Developers, Inc.		
From (Contractor):	Shows, Dearman & Waits		
Via (Engineer):			
Engineer's Project No.:			

1. ORIGINAL CONTRACT PRICE	\$	432,452.09
2. Net change by Change Orders	\$	-
3. CURRENT CONTRACT PRICE (LINE 1 + 2)	\$	432,452.09
4. TOTAL COMPLETED AND STORED TO DATE (column F on Progress Estimates)	\$	318,632.88
5. RETAINAGE:		
a. 5.0 % x Work Completed	\$	15,309.75
b. 5.0% x Stored Material	\$	621.89
c. Total Retainage (line 5a + line 5b)	\$	15,931.64
6. AMOUNT ELIGIBLE TO DATE (line 4 - line 5c)	\$	302,701.24
7. LESS PREVIOUS PAYMENTS (line 6 from prior Application)	\$	167,996.36
8. AMOUNT DUE THIS APPLICATION	\$	134,704.88
9. BALANCE TO FINISH, PLUS RETAINAGE		
(Column G on Progress Estimate + Line 5 above)	\$	129,750.85

Payment of:	
Is recommended by:	
Payment of:	
Is approved by:	
Is approved by:	
Approved by:	

(Line 8 or other - attach explanation of other amount)

\$134,704.88

(Date) 1-6-17

(Engineer)

(Owner)

(Owner)

(USDA)

105495.7445.11

2016-187

Page 1 of 3

Change Order Summary	
Approved Change Orders	
Number	Additions
Deductions	
TOTALS	\$ -
NET CHANGE BY	\$ -
CHANGE ORDERS	-
CONTRACTOR'S CERTIFICATION	
The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.	
By: 1-05-17	

Application Number:

Application Date: 4-Jan-17

Application Period:	12/1/2016	TO	12/31/2016
---------------------	-----------	----	------------

12/1/2016

12/31/2016

Application Date:

-17

100

	A	Bid Quantity	Unit Price	Bid Value	C	D	E	F	G
Pay Item.	Item Description	Quantity			Estimated Quantity Installed	Value	Materials Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F)
1	12" CL 35 DI WATER PIPE OPEN CUT	\$ 31.04		\$ 193,689.60	5,667	\$ 175,903.68	\$ 0.00	\$ 175,903.68	91%
2	12" CL 35 DI WATER PIPE BORED, NO CASING	\$ 20.0		\$ 68.62	-	\$ -	\$ 0.00	\$ -	0%
3	16" 200 PSI, DR9, HDPE DIRECTIONAL BORE INCL ADAPTER FIT	\$ 740.0		\$ 104.90	480	\$ 50,352.00	\$ 10,702.16	\$ 61,054.16	79%
4	18" STEEL CASING .25 WT BORED	\$ 280.0		\$ 105.51	220	\$ 23,212.20	\$ 1,735.71	\$ 24,947.91	84%
5	CONNECTION 1, PROPOSED 12" TO EXISTING 12"	\$ 1.0		\$ 2,348.24	-	\$ -	\$ 0.00	\$ -	0%
6	CONNECTION 2, PROPOSED 12" TO PROPOSED 12" AND 12", G	\$ 1.0		\$ 8,453.68	-	\$ -	\$ 0.00	\$ -	0%
7	CONNECTION 3, PROPOSED 12" TO EXISTING 12" AND 12", GA	\$ 1.0		\$ 7,631.80	-	\$ -	\$ 0.00	\$ -	0%
8	PRV WITH BYPASS AND GATE VALVES	\$ 1.0		\$ 27,469.17	-	\$ -	\$ 0.00	\$ -	0%
9	12" GATE VALVE	\$ 2,047.67		\$ 12,286.02	8	\$ 16,381.36	\$ 0.00	\$ 16,381.36	133%
10	12" INSERT A VALVE	\$ 1.0		\$ 18,433.72	-	\$ -	\$ 0.00	\$ -	0%
11	3 WAY FIRE HYDRANT WITH APPURT, INCL TEE, VALVE, HYDRAN	\$ 8.0		\$ 3,874.60	6	\$ 23,247.60	\$ 0.00	\$ 23,247.60	75%
12	CLEARING AND GRUBBING	\$ 1.0		\$ 4,696.49	1	\$ 4,696.49	\$ 0.00	\$ 4,696.49	100%
13	TEMPORARY EROSION CONTROL	\$ 1.0		\$ 7,044.73	1	\$ 3,522.37	\$ 0.00	\$ 3,522.37	50%
14	GRASSING	\$ 1.0		\$ 2,641.78	0	\$ 660.45	\$ 0.00	\$ 660.45	25%
15	MAINTENANCE OF TRAFFIC	\$ 1.0		\$ 2,935.31	1	\$ 2,935.31	\$ 0.00	\$ 2,935.31	100%
16	MOB	\$ 1.0		\$ 5,283.55	1	\$ 5,283.55	\$ 0.00	\$ 5,283.55	100%
17	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
18	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
19	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
20	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
21	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
22	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
23	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
24	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
25	0	\$ 0.0		\$ -	-	\$ -	\$ 0.00	\$ -	
TOTALS									
				\$ 432,452.09		\$ 306,195.00	\$ 12,437.88	\$ 318,632.88	
				\$ 113,819.21					

Stored Material Summary

Contractor's Application

For (contract):	Water Line Extension-WL Runnels & Old Hwy 98
Application Period:	12/1/2016 TO 12/31/2016
Application Number:	12
Application Date:	4-Jan-17

A	B	C	D	E	F	G
Pay Item No.	Unit Price	Materials Description	Quantity	Amount (\$)	Quantity	Amount (\$)
1	\$ 21.65	12" CL 35 DI WATER PIPE OPEN CUT	5,583	\$ 120,871.77	0	\$ 0
2		12" CL 35 DI WATER PIPE BORED, NO CASING			0	\$ 0
3	\$ 41.16	16" 200 PSI, DR9, HDPE DIRECTIONAL BORE INCL ADAPTER FITTINGS	740	\$ 30,460.00	0	\$ 0
4	\$ 28.93	18" STEEL CASING .25 WT BORED	280	\$ 8,100.00	0	\$ 0
5		CONNECTION 1, PROPOSED 12" TO EXISTING 12",			0	\$ 0
6		CONNECTION 2, PROPOSED 12" TO PROPOSED 12" AND 12", GATE VALVES AND FITTINGS			0	\$ 0
7		CONNECTION 3, PROPOSED 12" TO EXISTING 12" AND 12", GATE VALVES AND FITTINGS			0	\$ 0
8		PRV WITH BYPASS AND GATE VALVES			0	\$ 0
9	\$ 1,283.06	12" GATE VALVE	5	\$ 6,415.30	0	\$ 0
10		12" INSERT A VALVE			0	\$ 0
11	\$ 5,495.60	3 WAY FIRE HYDRANT WITH APPURT, INCL TEE, VALVE, HYDRANT, FIBERGLASS MARKER, BRASS	2	\$ 10,991.20	0	\$ 0
12		CLEARING AND GRUBBING			0	\$ 0
13		TEMPORARY EROSION CONTROL			0	\$ 0
14		GRASSING			0	\$ 0
15		MAINTENANCE OF TRAFFIC			0	\$ 0
16		MOB			0	\$ 0
17					0	\$ 0
18					0	\$ 0
19					0	\$ 0
20					0	\$ 0
21					0	\$ 0
22					0	\$ 0
23					0	\$ 0
24					0	\$ 0
25					0	\$ 0
TOTALS				\$ 176,838.27		\$ 192,050.57
						\$ 12,437.88

SHOWS, DEARMAN & WAITS, INC. - CONSULTING ENGINEERS -

Date: 11-16-17

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.: Thirteen (13)

Pay Period: October 29-December 31, 2016

Item No.	Item Description	Total Quantities				Unit		Amount
		Quantity On Contract	Allowed This Period	Allowed To Date	Unit	Price		

CONTRACT TOTAL: \$1,722,687.00

Site 1 - Columbia, Eupora, Lake, Philipps & 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
	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
	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
	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	0.05	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
							\$63,522.00

Site 2 - Montague Street

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
	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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2015-241

Item No.	Item Description	Total Quantities			Unit	Unit		Amount
		Quantity On Contract	Allowed This Period	Allowed To Date		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	15.33	19.73	SY	\$ 124.00	\$ 2,448.52	
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	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							
3	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	
	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		16.00	SY	\$ 95.00	\$ 1,520.00	
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	\$ 41,363.00	
	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			Unit	Price	Amount
		Quantity On Contract	Allowed This Period	Allowed To Date			
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
	3 Way Fire Hydrant w/ Appurtenances (Incl. Tee, Valve, Hydrant, Brass Tag, Pipe, & other fittings)						
25		18		18.00	Each	\$ 3,325.00	\$ 59,850.00
	Water Service Items						
26	Service Tubing (Bored) (Size Varies to 1 1/2") Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	1,240		1015.00	LF	\$ 24.00	\$ 24,360.00
27	Commercial Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	56		59.00	Each	\$ 275.00	\$ 16,225.00
28	Open Cut 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			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		274.70	SY	\$ 86.00	\$ 23,624.20
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	\$ 452,382.70
	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						
	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
	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
	Connection: Proposed 8" Water Line to Existing 6" Water Line (Cross & other fittings)	1		1.00	Each	\$ 1,800.00	\$ 1,800.00
	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
	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") Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	640		444.00	LF	\$ 24.00	\$ 10,656.00
12	Residential Meter (Incl: Meter, Meter Box, City Fees, etc)	25		27.00	Each	\$ 290.00	\$ 7,830.00
13		1			Each	\$ 435.00	\$ -

Item No.	Item Description	Total Quantities			Unit	Unit		Amount
		Quantity On Contract	Allowed This Period	Allowed To Date		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		62.70	SY	\$ 88.00	\$ 5,517.60	
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	\$	\$ 96,934.60	
	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	\$ -	
	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							
	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	67.54	137.34	SY	\$ 87.00	\$ 11,948.58	
14	Concrete Curb & Gutter Repair (All Types)	10			LF	\$ 85.00	\$ -	
15	Concrete Sidewalk Repair	15			SY	\$ 130.00	\$ -	
16	Temporary Erosion Control	1	0.10	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	0.20	0.90	LS	\$ 1,800.00	\$ 1,620.00	
					Sub-total	\$	\$ 53,217.58	
	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	
	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	\$ -	
	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			Unit	Unit	
		Quantity On Contract	Allowed This Period	Allowed To Date		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
15	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") Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	755		526.00	LF	\$ 24.00	\$ 12,624.00
20	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	23.54	224.44	SY	\$ 86.00	\$ 19,301.84
25	Concrete Curb & Gutter Repair (All Types)	50	37.00	37.00	LF	\$ 50.00	\$ 1,850.00
26	Concrete Sidewalk Repair	12	4.66	6.86	SY	\$ 130.00	\$ 891.80
27	Temporary Erosion Control	1	0.05	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	0.05	0.95	LS	\$ 2,350.00	\$ 2,232.50
					Sub-total	\$	\$ 223,239.56
	Site 8 - E 6th Street						\$94,447.00
	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") Residential Service Tap (All Sizes) (Incl: Open Cut Service Tubing, Tapping Saddle, Corp Stop, etc)	80		72.00	LF	\$ 24.00	\$ 1,728.00
8		7		6.00	Each	\$ 285.00	\$ 1,710.00
	Miscellaneous Construction Items						
9	Concrete Pavement Repair (All Depths)	44	11.54	19.74	SY	\$ 122.00	\$ 2,408.28
10	Asphalt Pavement Repair (All Depths)	301	55.75	55.75	SY	\$ 89.00	\$ 4,961.75
11	Concrete Curb & Gutter Repair (All Types)	20	3.00	3.00	LF	\$ 65.00	\$ 195.00
12	Concrete Sidewalk Repair	2			SY	\$ 130.00	\$ -
13	Temporary Erosion Control	1	0.05	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	0.20	0.90	LS	\$ 900.00	\$ 810.00
					Sub-total	\$	\$ 64,075.53
	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			Unit	Unit		Amount
		Quantity On Contract	Allowed This Period	Allowed To Date		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	6.32	6.32	SY	\$ 88.00	\$ 556.16	
15	Concrete Curb & Gutter Repair (All Types)	20	28.00	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	0.05	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	0.10	0.90	LS	\$ 2,400.00	\$ 2,160.00	
						Sub-total	\$ 73,224.16	
	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			Unit	Unit		Amount	
		Quantity On Contract	Allowed This Period	Allowed To Date		Price			
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	146.68	146.68	SY	\$	88.00	\$	12,907.84
21	Concrete Curb & Gutter Repair (All Types)	20	9.00	9.00	LF	\$	65.00	\$	585.00
22	Concrete Sidewalk Repair	8	5.54	7.14	SY	\$	130.00	\$	928.20
23	Temporary Erosion Control	1	0.05	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	0.30	0.90	LS	\$	1,800.00	\$	1,620.00
					Sub-total	\$	214,546.08		
					TOTAL SITES 1-10	\$	1,425,840.23		

Total Earned - Regular Work	\$ 1,425,840.23
Less 5% Retainage	\$ 71,292.01
Stored Materials	\$ 15,770.70
Total Due - Regular Work	1,370,318.92
Less Previous Payments	\$ 1,318,514.46
Net Amount Due This Estimate	\$ 51,804.46
Less Deductions	\$ -
Net Payment Due	\$ 51,804.46

Percent Complete: 83%
Time Elapsed to date: 133%

CERTIFIED CORRECT:
Shows, Dearman & Waits, Inc.

Project Engineer

APPROVED:

OWNER



**City of Hattiesburg
2013 Sewer & Water Bond
Summary of Payments
As of January 30, 2017**

Project Name	Payments by Project This Requisition	Payments to Date from This Bond
1500 GPM Water Well @ Plant No 1	22,400.00	539,421.83
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		221,571.83
Water Improvements Ph III	51,804.46	1,718,175.75
Water Improvements Ph IV		132,482.50
Water Improvements Ph V		61,865.00
Water Line Old 98 & Runnels Rd	134,704.88	612,164.28
Water Rate Study 2016		61,896.80
Wesley Water Well # 2		26,840.00
WTP #2 Filter #6 Repairs		110,863.40
Grand Total	208,909.34	22,803,568.56

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: 2017-183

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Approve Final Payment to Griner Drilling Service, Inc.

Title: Approve Payment Application No. 8 and Final Payment to Griner Drilling Service, Inc. in the amount of \$22,400.00 for construction services for 1500 GPM Water Well at Plant #1 project; approve final acceptance of said project; and Authorize Publication of the Notice of Final Settlement of contract of said project.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Closing Documents, Notice of Final Settlement

File Created: 01/25/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File



Engineering Progress

January 23, 2017

City of Hattiesburg
PO Box 1898
Hattiesburg MS 39403-1898

Attn: Lamar Rutland, P.E.

**RE: 1500 GPM Water Well at Water Plant #1
Hattiesburg, MS**

Dear Mr. Rutland:

This is to certify the above referenced project has been completed in accordance with the previously approved plans and specifications.

Enclosed are the following documents:

1. The final estimate no. 8 for the contractor in the amount of \$22,400.00
2. Contractor's Affidavit of Payment of Debts
3. Consent of Surety to final Payment
4. Warranty Letter

Please do not hesitate to contact me should you have questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kyle D. Wallace'.

Kyle D. Wallace, P.E.
Project Engineer

/aa

enclosures



8/Final

Application For Payment

Change Order Summary

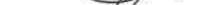
Contractor's Certification

The undersigned Contractor certifies that to the best of its knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:  Date: 12/20/2016

Payment of:	\$	\$22,400.00
-------------	----	-------------

(Line 8 or other - attach explanation of the other amount)

is recommended by:  1-22-
(Engineer) (Date)

Payment of:	\$	\$22,400.00
-------------	----	-------------

(Line 8 or other - attach explanation of the other amount)

is approved by: _____

(Owner) (Date)

Approved by: _____

	Funding Agency (if applicable)	(Date)
--	--------------------------------	--------

Progress Estimate - Unit Price Work

Contractor's Application

For (Contract): 1500 GPM Water Well at Plant No. 1							Application Number: 8/Final			
Application Period: 10/21/2016 - 12/20/2016							Application Date: 12/20/2016			
A				B	C	D	E	F		
Item		Bid Item Quantity	Unit Price	Bid Item Value (\$)	Estimated Quantity Installed	Value of Work Installed to Date	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F / B)	Balance to Finish (B - F)
Bid Item No.	Description									
1	Test Hole (Approximately 800' Deep)	1	\$80,000.00	\$80,000.00	1	\$80,000.00		\$80,000.00	100.0%	
2	16"x12" 1500 GPM Water Well (Approximately 800' Deep)	1	\$299,500.00	\$299,500.00	1	\$299,500.00		\$299,500.00	100.0%	
3	12" Master Water Meter	1	\$2,500.00	\$2,500.00	1	\$2,500.00		\$2,500.00	100.0%	
4	Yard Piping	1	\$20,000.00	\$20,000.00	1	\$20,000.00		\$20,000.00	100.0%	
5	Electrical Work	1	\$15,000.00	\$15,000.00	1	\$15,000.00		\$15,000.00	100.0%	
6	Well Controls	1	\$30,000.00	\$30,000.00	1	\$30,000.00		\$30,000.00	100.0%	
7	Erosion Control	1	\$1,000.00	\$1,000.00	1	\$1,000.00		\$1,000.00	100.0%	
	Totals			\$448,000.00		\$448,000.00		\$448,000.00	100.00%	



Document G707™ – 1994

Consent Of Surety to Final Payment

Bond # 2208060

PROJECT: *(Name and address)*
1500 GPM Water Well at Plant No. 1
Hattiesburg, MS

ARCHITECT'S PROJECT NUMBER:

OWNER: ☐

CONTRACT FOR: Construction

ARCHITECT: ☐

TO OWNER: *(Name and address)*
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39401

CONTRACT DATED: 2/16/2016

CONTRACTOR: ☐

SURETY: ☐

OTHER: ☐

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

North American Specialty Insurance Company
650 Elm Street
Manchester, NH 03101

, SURETY,

on bond of

(Insert name and address of Contractor)

Griner Drilling Service, Inc.
1014 Highway 98 Bypass
Columbia, MS 39429

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety
of any of its obligations to

(Insert name and address of Owner)

City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39401

, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: **December 14th, 2016**

(Insert in writing the month followed by the numeric date and year.)

North American Specialty Insurance Company

(Surety)

Kimberly B. Barhum
(Signature of authorized representative)

Kimberly B. Barhum, Attorney-in-Fact

(Printed name and title)

Attest:

(Seal): Gaven J. Ellis

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

JIM E. BRASHIER, TROY P. WAGENER, LOREN RICHARD HOWELL, JR., KATHLEEN B. SCARBOROUGH, JOHN B. SNEED,
DAVID ROBIN FORTENBERRY, SHARON TUTEN, KIMBERLY B. BARHUM, ANDREW P. UNDERWOOD, RICHARD TEB JONES.

MARY NORVAL, DEWEY E. BRASHIER and SUSAN SKRMETTA JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION (\$50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."



By

Steven P. Anderson, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company



By

Michael A. Ito, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 14th day of July, 2016.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook

ss:

On this 14th day of July, 2016, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Michael A. Ito, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



M. Kenny, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 14th day of December, 2016.

Jeffrey Goldberg, Vice President & Assistant Secretary of
Washington International Insurance Company & North American Specialty Insurance Company

AIA® Document G706™ – 1994

Contractor's Affidavit of Payment of Debts and Claims

PROJECT: *(Name and address)*

City of Hattiesburg
Plant No. 1

ARCHITECT'S PROJECT NUMBER: N/A

CONTRACT FOR: 1500 GPM Water Well

OWNER ☐

ARCHITECT ☐

CONTRACTOR ☒

TO OWNER: *(Name and address)*

City of Hattiesburg
200 Forrest Street
Hattiesburg, MS 39402

CONTRACT DATED: 02/16/2016

SURETY ☐

OTHER ☐

STATE OF: Mississippi

COUNTY OF: Marion

The undersigned hereby certifies that, except as listed below, payment has been made in full and all obligations have otherwise been satisfied for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or Owner's property might in any way be held responsible or encumbered.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

- Consent of Surety to Final Payment. Whenever Surety is involved, Consent of Surety is required. AIA Document G707™, Consent of Surety, may be used for this purpose.

Indicate Attachment ☒ Yes ☐ No

The following supporting documents should be attached hereto if required by the Owner:

- Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
- Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.
- Contractor's Affidavit of Release of Liens (AIA Document G706A™).

CONTRACTOR: *(Name and address)*

Griner Drilling Service, Inc
P.O. Drawer 825
Columbia, MS 39429

BY:


(Signature of authorized representative)

Thad M. Akers - CFO

(Printed name and title)

Subscribed and sworn to before me
on this date: 16th day of December 2016

ID # 62819

KAY D. FOXWORTH

Notary Public:

My Commission Expires: 06/28/2017



Griner Drilling Service, Inc.

CORPORATE OFFICE

Post Office Drawer 825 · Columbia, MS 39429

Telephone (601) 736-6347 · Facsimile (601) 731-1853

E-mail · takers@grinerdrillingservice.com

Website · www.grinerdrillingservice.com

January 16, 2016

Shows, Dearman, & Waits, Inc.
Attn: Kyle D. Wallace, P.E.
301 Second Avenue
Hattiesburg, MS 39401

Re: One (1) Year Warranty on the City of Hattiesburg - New 1500 GPM Water Well at Plant No. 1

Dear Mr. Wallace,

Griner Drilling Service, Inc. will warranty, for a period of one (1) year, the work completed on the above referenced project. The warranty will cover failure due to defective materials and/or workmanship. The warranty period began on December 8, 2016.

Sincerely,

Thad M. Akers
Chief Financial Officer

Spanish Fort, AL Office:
Griner Drilling Service, Inc.
11100 Highway 31 North
Spanish Fort, AL 36527

Rayne, LA Office:
Griner Drilling Service, Inc.
3833 Crowley-Rayne Highway
Rayne, LA 70578

Richland, MS Office:
Griner Drilling Service, Inc.
126 Interstate Drive
Richland, MS 39218

NOTICE OF FINAL SETTLEMENT

NOTICE is hereby given that the contract between the City of Hattiesburg, Mississippi, as Owner and Griner Drilling Service, Inc. dated February 16th, 2016, for the 1500 GPM Water Well at Water Plant #1 project, as per approved plans and specification on file in the City Clerk's Office, has been fully and completely performed and exercised, and that final settlement thereof and thereunder will be made.

THIS NOTICE is given pursuant to and under the terms and provisions of Section 31-5-53, Mississippi Code of 1972, annotated as amended and pursuant to the authority conferred by Order of the Mayor and City Council of Hattiesburg, Mississippi, appearing for record upon and as part of the official minutes of said City of Hattiesburg.

WITNESS my signature and the official seal of said City, on this the 7th day of February, 2017,
A.D.

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____
CITY CLERK

(S E A L)

Publish (1) Tuesday, February 14th, 2017
Return PROOF to City Clerk's Office
P O Box 1898
Hattiesburg, MS 39403



City of Hattiesburg, MS

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

FILE NUMBER: 2017-181

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Approve and authorize Mayor to execute in triplica

Title: Approve and authorize Mayor to execute in triplicate a Contractor and Owner Agreement and a Housing Rehabilitation Grant Award to Ferry D. Coney of 106 Ruby Avenue in an amount not to exceed \$50,000 according to the Housing Rehabilitation and Housing Programs Manual Section VII (E). {Entitlement}

Type: Action Item

Drafter: Kevin Jordan

In Control: City Council

Reference: La'Keylah White

Attachments: Housing Rehabilitation Grant Award - 106 Ruby Avenue
01.25.17

File
Created: 01/25/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication
Information:

History of Legislative File

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT
Homeowner Rehabilitation/Reconstruction Program
Project HRRP

Contractor & Owner Agreement

THIS AGREEMENT, made the 7th day of February, 2017 and between the City of Hattiesburg Community Development Division (COHCD) Homeowner Rehabilitation/Reconstruction Program (HRRP) and Ferry D. Coney of 106 Ruby Avenue, hereinafter called Owner, and _____, with its principal place of business located at _____, Hattiesburg, Mississippi _____, hereinafter called the Contractor.

WITNESSETH

1. **SCOPE OF WORK**

The Contractor shall furnish all labor, materials, tools, supplies, supervision and other services and shall perform all operations necessary and required to satisfactorily complete the work shown on the drawings, work write-up (Exhibit 1), work agreement (Exhibit 2) and described in the specifications and other Contract Documents prepared for the **106 Ruby Avenue** Project by COHCD, said work to be performed on the structure(s)/property located at **106 Ruby Avenue**, Hattiesburg, Mississippi, all in accordance with terms of the Contract Documents.

2. **TIME OF COMPLETION**

The Owner/COHCD shall issue a written Notice to Proceed within 5 days from the date of the Owner/COHCD signing of this Agreement, accepting the Contractor's bid and proposal, providing the Contractor has obtained the necessary permits and related documents (if needed) and has presented them to the Owner/COHCD. If the Notice to Proceed is not received by the Contractor within this 5 day period, the Contractor may at his option terminate his obligation under this Agreement, provided he has obtained the necessary permits and related documentation within (15) days from the date of the Owner's/COHCD's signing of this Agreement, the Owner/COHCD has the option of terminating the Contract for cause.

The Contractor shall commence working within ten (10) calendar days, as time is of the essence in the completion of this contract, after issuance of the Notice to Proceed, and it is to be completed within sixty (60) working days after the issuance of the Notice to Proceed. **One hundred dollars (\$100.00) per day, as liquidated damages, will be deducted from the final payment for every day project rehabilitation completion exceeds sixty (60) working days.** The Owner/COHCD has the option of terminating the Contract for failure to commence work within the time allowed by the Contract Agreement.

3. **COMPENSATION**

As full consideration for the satisfactory performance by Contractor of this Contract, the Owner/COHCD shall pay to the Contractor the sum of _____ () subject to any written additions or deductions provided and incorporated herein, in accordance with the payment provisions of this Contract.

4. CHANGES IN THE WORK

The Owner/COHCD without invalidating the Contract may order Changes in Work consisting of additions, deletions, or modifications, the Contract Sum and the Contract Time being adjusted accordingly. All such Changes in the Work shall be authorized by written Change Order signed by the Owner and COHCD or their duly authorized agent.

The Contract Sum and the Contract Time may be changed by a Change Order. The cost or credit to the Owner/COHCD from a Change in the Work shall be determined by mutual agreement before executing the Work involved.

5. CORRECTION OF WORK

The Contractor shall correct any work that fails to conform to the requirements of the Contract Documents where such failure to conform appears during the progress of the Work, and shall remedy any defects due to faulty materials, equipment or workmanship which appears within a period of one year from the Date of substantial Completion of the Contract or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents. The provisions of this statement apply to Work done by Subcontractors as well as to Work done by direct employees of the Contractor.

6. TERMINATION BY THE OWNER

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provisions of the Contract, the Owner/COHCD may, after seven days written notice to the Contractor and without prejudice to any other remedy they may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor. If the Contractor's workmanship is deficient and he fails to remedy such work within a specified time period, the Owner/COHCD, at their option, may terminate the Contract and take possession of the site and all materials, supplies and equipment incorporated in the work thereon. The Owner/COHCD may finish the Work by whatever method they may deem expedient. If the unpaid balance of the Contract Sum exceeds the expenses of finishing the Work, such excess shall be paid to the Contractor for approved work completed, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the Owner/COHCD.

7. PAYMENTS/DRAWS

Payments may be withheld on account of (1) defective Work not remedied, (2) claims filed, (3) failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment, (4) damage to another contractor or (5) unsatisfactory prosecution of the Work of the Contractor.

Final payment shall not be due until the Contractor has delivered to the Owner/COHCD filed lien waivers/releases, indemnifying them against any lien.

The making of final payment shall constitute a waiver of all claims by the Owner/COHCD except those arising from (1) unsettled liens, (2) faulty or defective Work appearing after Substantial Completion, (3) failure of Work to comply with the Requirements of the Contract Documents or (4) terms of any special guarantees required

by the Contract Documents. The acceptance of the final payment shall constitute a wavier of all claims by the Contractor except those preciously made in writing and still unsettled.

1. _____
2. _____
3. _____
4. _____
5. _____

8. ACCEPTANCE AND FINAL PAYMENT

Final payment shall be due thirty (30) days after completion and acceptance of the work, provided the Contract has been satisfactorily performed, subject to the provision of the General Conditions of the Contract.

9. DEED RESTRICTION

There will be deed restriction attached to **106 Ruby Avenue** for five (5) years. Homeowner agrees to occupy the rehabilitated home for five (5) years after rehabilitation activities are completed. The homeowner agrees to pay the prorated grant amount and legal fees associated with securing repayment to the City of Hattiesburg in the event the property is sold, transferred or disposed of prior to the expiration of the five (5) year affordability period. **Homeowner acknowledges and agrees that this contract shall be binding on his/hers/their heirs, executors and assigns.**

10. ASSIGNMENT OF CONTRACT

This agreement may not be assigned to any Contractor or Agent of Contractor. IN WITNESS WHEREOF, the parties hereto executed this Agreement the _____ day of _____, 2017.

Ferry D. Coney Date

Spouse's Signature Date

City of Hattiesburg, Mississippi

Contractor

By: _____
Johnny L. DuPree, Mayor

By: _____

Date: February 7, 2017

Date: _____

Attest: _____
City Clerk

Attest: _____

**CITY OF HATTIESBURG
HOUSING REHABILITATION (25K+)
GRANT AWARD AGREEMENT**

General Terms and Conditions

1. ____ I certify that I currently live in and own the home for which I am accepting repair assistance.
2. ____ I agree to remain in Hattiesburg during the course of the repairs being performed and to make my home accessible between the hours of 7:00 a.m. and 5:00 p.m., Monday through Friday, unless otherwise arranged.
3. ____ I understand that I am responsible for packing and storage of jewelry, family heirlooms, food, cleaning and other chemicals, lawn equipment, and toiletries for the duration of the repair work as necessary.
4. ____ I understand that the discovery of illegal activities or the use of verbal or physical threats of harm towards City employees, the contractor or his workers will result in an immediate termination of all repair activities.
5. ____ I agree that the City has irrevocable rights and permission to use my name and to use, reproduce, exhibit, copyright and publish photographic images and/or videotaped images of me and/or my home for advertising, trade and/or any other lawful purpose.
6. ____ I agree to attend Homeowner's Maintenance Training and understand that I will be contacted with the dates and times for this mandatory training.
7. ____ I certify that I am not an employee of the City of Hattiesburg, nor do I have an immediate family member who is an elected official of the City of Hattiesburg nor an employee who is responsible for the administration, management and oversight of the program (Community Development Division Staff).
8. ____ I hereby agree to occupy the home to be rehabilitated for a period of not less than **five (5)** years after completion of the repairs funded under in the Housing Rehabilitation Program. **(Homeowner acknowledges and agrees that this agreement shall be binding on his/hers/their heirs, executors and assigns.)**
9. ____ I agree to repay the prorated grant amount and legal fees associated with securing repayment to the City should I sale, transfer or dispose of the property prior to the expiration of the **five (5)** year affordability period.
10. ____ I understand that I cannot apply for another Housing Rehabilitation or Housing Repair Grant within the **five (5)** year affordability period.
11. ____ I hereby agree to maintain homeowner's insurance and when applicable, flood insurance.
12. ____ I hereby agree to maintain all county and city property taxes as they come due during the affordability period.
13. ____ I hereby agree that the completion of the repairs for which these grant funds are awarded shall constitute a complete work agreement and I will sign all the necessary paperwork to allow for payment to the contractor.

By my signature below I, Ferry D. Coney of 106 Ruby Avenue, agree to all the terms of this grant and understand that failure to abide by any of the terms will result in forfeiture of my grant and/or repayment of expended grant funds this the ____ day of _____, 2017.

Homeowner's Signature

Spouse's Signature

GRANT AWARD

The Homeowner(s), Ferry D. Coney of 106 Ruby Avenue, is hereby awarded a Housing Rehabilitation Grant for General Construction costs in an amount not to exceed \$50,000 [excluding 10% allowance for change order/discovery repairs according to the Housing Rehabilitation and Housing Programs Manual Section VIII (E)]. Lead and Asbestos activities have been contracted separately on this the 7th day of February, 2017.

City of Hattiesburg, Mississippi

Contractor

By: _____
Johnny L. DuPree, Mayor

By: _____

Date: February 7, 2017

Date: _____

Attest: _____
City Clerk

Attest: _____



City of Hattiesburg, MS

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

FILE NUMBER: 2017-170

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: HCL Grant closing documents

Title: Authorize Mayor to sign in triplicate closing documents for the Katrina Community Development Block Grant # R-103-205-02-KED for the Hub City Lofts project.

Type: Action Item

Drafter: Sharon Waits

In Control: City Council

Reference:

Attachments: HCL Grant Closing Documents

File Created: 01/18/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File

**MISSISSIPPI DEVELOPMENT AUTHORITY-DISASTER RECOVERY DIVISION
KATRINA COMMUNITY DEVELOPMENT BLOCK GRANT (KCDBG)
RECIPIENT CLOSEOUT PROCEDURES**

The closeout of a Mississippi Development Authority-Disaster Recovery Division (MDA-DRD) Katrina Community Development Block Grant (KCDBG) follows a process by which the MDA-DRD determines that all applicable administrative actions and all required work on the project have been completed. This closeout package is to be used for all DRD Economic Development, Community Revitalization, Tourism, Planning, and Code Enforcement Grant Programs. Please **check only one** box on the Certificate of Completion to indicate the grant project you are completing. Each Grant Recipient is responsible for ensuring an orderly and timely phase-out of projects. The Grant Recipient must also ensure that the financial settlement of the subcontracts and vendor claims has been satisfied.

The MDA-DRD must conduct onsite programmatic and fiscal monitoring reviews of the project prior to the closeout of the project. Any observations and findings identified through the monitoring process must be resolved to the satisfaction of the MDA-DRD prior to project closeout. Copies of the monitoring report and related documents must be included in the MDA-DRD official grant file.

Three (3) closeout packages bearing the original signatures of the designated signatory officials are due to the MDA-DRD within **90 days** after the completion or expiration of the subgrant/subcontract. The closeout may be revised no more than once after the initial package is received. The revision will be accepted no later than 120 days after the ending date of the subgrant/subcontract activities.

INSTRUCTIONS FOR COMPLETING THE MDA- DRD CLOSEOUT PACKAGE

The following documents are required components of the MDA- DRD closeout package:

I. Recipient's Closeout Checklist

Grant recipients should check the appropriate boxes concerning each of the closeout documents. Explain fully in the space provided any item(s) not submitted or any item(s) to be sent separately.

II. Certificate of Completion

Grant recipients should list all activities undertaken, certifying that they have been carried out in accordance with the grant agreement. It also ensures that the provisions have been made for the payment of all unpaid claims, and that neither the State nor the Federal government is under an obligation to make any further payments under the agreement in the excess of the amount stated in the document. This document requires the project to report all budgeted GRANT funds and other funds. Projects are also required to list the actual payment of all GRANT funds and other funds that were used for a specific subactivity.

III. Recipient Performance Certification Report

This document addresses the National Policy Objectives. By subactivity, grant recipients should list:

- Planned and actual total beneficiaries (the LOWMODUNIV column on the HUD table)
- Planned and actual low income beneficiaries
- Planned and actual moderate income beneficiaries

IV. Ethnic Beneficiary Information

Grant recipients should complete the table (appended to this section) regarding the number of persons in the area of service and the number of persons who will directly benefit from the project.

V. Outstanding Claimants List

When unclaimed funds are returned to MDA, a list of all possible claimants of these funds shall be prepared and attached to the Recipient's Release. The purpose is to reserve these funds and make future payments if necessary. The list shall include the following pertinent data:

- A. Claimant's name, last known address, amount of money due, and social security number (if claimant is a training program enrollee) for each individual to whom checks for wages (or other outstanding checks) were due.
- B. For employee checks, the pay period during which the money was earned, the number of hours, hourly rate of pay, and dates worked.
- C. Check number, date of issuance, and amount of each uncashed check.
- D. Name, address, and telephone number of any person who may be contacted in connection with any claim which may arise. Normally, this would be the individual who has control of the subcontractor.

Grant recipients who do not anticipate possible claimants of grant funds after closeout should enter “N/A” on this form.

VI. Inventory and Program Income Form

This document consists of three (3) categories: Real Estate, Equipment, and Program Income. The property and equipment that have been purchased with GRANT funds should be listed with the purchase price, use of the property and/or equipment, date to be used, disposition date and reason for and method of disposition (if applicable). All program income collected to date should be listed, including the activity, additional payments, and the use of the program income.

Use of real property, equipment and program income during the subgrant period and after closeout:

- A. Real Property- Reference 24 CFR Part 85.31(a-c). Real property acquired under a subgrant will vest upon acquisition in the subgrantee. Real property will be used for the originally authorized purposes as long as needed for those purposes, and the subgrantee shall not dispose of or encumber its title or other interests. When real property is no longer needed for the originally authorized purpose, the subgrant recipient will request disposition instructions from the MDA-DRD **prior to disposition**. All income derived from the sale or use of the property is program income and must be returned to the MDA-DRD.

The standards for the use of real property acquired or improved in whole or in part using CDBG funds in excess of \$25,000, as set forth in 24 CFR Part 570.505, apply for a period of **five (5) years** after the closeout of the grant from which the assistance to the property was provided, in this case the grant agreement between the MDA-DRD and the United States Department of Housing and Urban Development (HUD).

- B. Equipment- Per 24 CFR Part 85.32(c), equipment shall be used by the Recipient in the program or project for which it was acquired as long as needed, whether or not the program or project continues to be supported by Federal funds. When no longer needed for the original program or project, the equipment may be used in other activities currently or previously supported by a Federal agency, or disposed of following the guidelines set forth in 24 CFR Part 85.32 (e).
- C. Program Income- During the subgrant period, program income (other than program income deposited in a revolving fund) must be used to cover program costs before additional grant funds are requested. If program income is put in a revolving fund, the funds must be used for the same activity for which the revolving fund was established. The account must be interest bearing, and interest earned or funds held in the account must be remitted to the grantee (MDA-DRD) at least annually.

Pursuant to 73FR 75733-75736 1(a)(3)(ii) program income received after the closeout of the agreement between the MDA-DRD and the Recipient may be retained and utilized for other CDBG eligible purposes in accordance with 24 CFR 570 Part I or shall be returned to the MDA-DRD. Program income is defined in 24 CFR 85.25 and in 73FR 75733-73736 1(a).

VII. Certification of Recipient Compliance

- A. Release -- This document releases the unexpended or unobligated balance of the award back to the MDA. The total amount paid to the project by MDA must be entered. This amount must reflect the actual expenditure. Do not round off expenditures.

B. Assignment of Refunds, Rebates and Credits -- This execution guarantees that the recipient/subcontractor will immediately remit any refunds or credits applicable to the recipient/subcontractor. Examples: telephone refunds and insurance refunds.

C. Inventory Certification -- This section is used to account for all items or materials and equipment purchased, furnished or acquired.

VIII. Agreement Relative to Closeout of the Mississippi Development Authority-Disaster Recovery Division Grant Programs

By signing the Agreement Relative to Closeout of the MDA-DRD Grant, the Recipient is certifying that the entire closeout document meets the individual requirements included in the closeout package. Further, this document is an agreement between the Recipient and MDA-DRD that permits the closeout of the project activities contingent on the promise that all funds will be audited. Upon receipt of a copy of the Recipient's audit report and resolution of any findings related to the subgrant (if applicable), the MDA-DRD will notify the Recipient in writing that the Recipient has fulfilled its audit requirements relative to the subgrant agreement.

IX. Final Request for Cash (RFC) Consolidated Support Sheet

A Final RFC Consolidated Support Sheet with the actual final cost of the project, including match, must be completed and submitted with the closeout package. The Consolidated Support Sheet must be marked "final."

X. Final MDA-DRD Quarterly Report

A Final MDA-DRD Quarterly Report is due at the time of closeout, outlining the performance measures for the life of the project. This report should follow the same format as the quarterly performance reports submitted to the MDA-DRD during the operation of the project.

XI. Refund Check (if applicable)

**MISSISSIPPI DEVELOPMENT AUTHORITY
DISASTER RECOVERY DIVISION
RECIPIENT'S CLOSEOUT CHECKLIST**

Recipient: City of Hattiesburg

Subgrant/Contract Number: R-103-205-02-KED

In compliance with the requirements of the MDA-DRD Recipient Closeout Procedures and the terms and conditions of the subgrant/contract, the following closeout documents are enclosed: (Check the appropriate boxes concerning each of the closeout documents. Explain fully in the space provided below any item not submitted or any item to be sent separately. Use separate sheet, if necessary.)

Type of Document	Enclosed	Not Applicable	Sending Separately	Unable to Furnish
1. Certification of Completion	X			
2. Recipient Performance Certification Report	X			
3. Ethnic Beneficiary Information	X			
4. Outstanding Claimants List	X			
5. Inventory and Program Income Form	X			
6. Certificate of Recipient Compliance	X			
7. Agreement Relative to Closeout	X			
8. Final Request for Cash Consolidated Support Sheet	X			
9. Final MDA-DRD Quarterly Report	X			
10. Refund Check (if applicable)		X		

Explanation/Comments: _____

STATE OF MISSISSIPPI MISSISSIPPI DEVELOPMENT AUTHORITY DISASTER RECOVERY DIVISION KATRINA COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAMS		NAME OF RECIPIENT City of Hattiesburg								
CERTIFICATE OF COMPLETION		CONTRACT NUMBER R-103-205-02-KED GRANT NUMBER R-103-205-02-KED								
FINAL STATEMENT OF COST										
PROGRAM ACTIVITY CATEGORIES	To Be Completed by Recipient								To Be Completed By the State	State Comments Revision
Grant Type (check One): TOURISM () ECONOMIC DEVELOPMENT (X) COMMUNITY REVITALIZATION () COMM. REVITALIZATION GO ZONE () PLANNING () CODE ENFORCEMENT ()	GRANT Funds Budgeted	Other Funds Budgeted	A Actual GRANT Cost Paid	B Actual Other Cost Paid	C Total Cost	Deobligated GRANT Funds Unutilized to be Canceled	Refund Balance of Grant Payable	D Approved Total Cost		
1. Acquisition	\$2,000,000.00		\$2,000,000.00		\$2,000,000.00	0.00	0.00	\$2,000,000.00		
2. Building Renovations		\$11,379,377.00		\$11,379,377.00	\$11,379,377.00	0.00	0.00	\$11,379,377.00		
3. Center, Family (Senior Center/ Neighborhood)										
4. Public Facilities (a) Water (b) Sewer (c) Flood and Drainage Facilities (d) Other (Specify)										
5. Street, Bridges										
6. Other Public Facilities										
7. Contingencies										
8. Removal of Architectural Barriers										
9. Engineering										
10. Administration										
11. Building Rehab										
12. Training										
13. Advertising										

	GRANT Funds Budgeted	Other Funds Budgeted (MATCH)	A Actual GRANT Cost Paid	B Actual Other Cost Paid (MATCH)	C Total Cost	Deobligated GRANT Funds Unutilized to be Canceled	Refund Balance of Grant Payable	D Approved Total Cost		
14. Economic Development Activities:										
(a) Assistance to Non-Profit										
(b) Assistance to For-Profit Entities										
(c) Microenterprises or Small Businesses										
15. Unspecified Activities										
16. Planning										
17. Audit										
18. Total Other Cost (Match)		11,379,377.00		11,379,377.00	11,379,377.00			11,379,377.00		
19. Total GRANT Cost	\$2,000,000.00		\$2,000,000.00		\$2,000,000.00	0.00	0.00	\$2,000,000.00		
COMPUTATION OF GRANT BALANCE										
DESCRIPTION						TO BE COMPLETED BY RECIPIENT		TO BE COMPLETED BY THE STATE		
1. Grant Agreement Amount						\$2,000,000.00				
2. Amount for Unsettled Third-Party Claims						0.00				
3. Grant Amount Received (amount of "grant funds received")						\$2,000,000.00				
4. GRANT Amount Deobligated						0.00				
5. Amount of Refund										
* This amount shall be repaid to the State by check and must include the following:										
(a) Unexpended Funds Amount						0.00				
(b) Outstanding Claimant's Amount (as applicable)						0.00				
(c) Total Amount Refunded						0.00				
(d) Enter Check Number						0.00				
LIST ANY UNPAID COSTS AND UNSETTLED THIRD-PARTY CLAIMS AGAINST THE RECIPIENT'S GRANT. DESCRIBE CIRCUMSTANCES AND AMOUNTS INVOLVED: NOT APPLICABLE										

**MISSISSIPPI DEVELOPMENT AUTHORITY
DISASTER RECOVERY DIVISION
RECIPIENT PERFORMANCE CERTIFICATION REPORT**

Recipient: City of Hattiesburg Contract Number: R-103-205-02-KED

Completed By/Person Completing Form: Michele Moore, Professional Grant Management Services used to be Urban Planning Consultants, Inc.

National Policy Objective(s) Addressed:

Low and moderate income X
Urgent Needs/Threat to Health _____
Slums and Blight _____

MEASURES OF ACCOMPLISHMENTS (Enter data into all fields that apply to your program or project)

		Beneficiaries LOW		Beneficiaries MOD		Beneficiaries TOTAL	
		<u>Planned</u>	<u>Actual</u>	<u>Planned</u>	<u>Actual</u>	<u>Planned</u>	<u>Actual</u>
1.	Acquisition/Disposition	_____	_____	_____	_____	_____	_____
2.	Clearance/Code Enforcement	_____	_____	_____	_____	_____	_____
3.	Public Facilities	_____	_____	_____	_____	_____	_____
a.	water	_____	_____	_____	_____	_____	_____
b.	sewer	_____	_____	_____	_____	_____	_____
c.	flood/drainage	_____	_____	_____	_____	_____	_____
d.	Others (Specify)	_____	_____	_____	_____	_____	_____
4.	Streets	_____	_____	_____	_____	_____	_____
5.	Other Public Facilities	_____	_____	_____	_____	_____	_____
6.	Removal of Architectural Barriers	_____	_____	_____	_____	_____	_____
7.	Planning Only	_____	_____	_____	_____	_____	_____
8.	Administration	No Measures Required					
9.	Economic Development						
a.	Assistance to Non-Profit Entities	_____	_____	_____	_____	_____	_____
b.	Assistance to For-Profit Entities	_____	_____	_____	_____	_____	_____
c.	Micro-enterprises or Small Business	_____	_____	_____	_____	_____	_____

10.	Building Rehab	_____	_____	_____	_____	_____	_____
11.	Training	_____	_____	_____	_____	_____	_____
12.	Number of Households Served	_____	_____	_____	_____	_____	_____
13.	Number of Female Heads of Household Served	_____	_____	_____	_____	_____	_____
14.	Number of Elderly Beneficiaries	_____	_____	_____	_____	_____	_____
15.	Number of Handicapped Beneficiaries	_____	_____	_____	_____	_____	_____
16.	Number of Jobs Created	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>30</u>	<u>30</u>
17.	Unspecified Activities	No Measures Required					

FINANCIAL PERFORMANCE

	Planned	Actual
Total Grant Project Expenditures	<u>\$2,000,000.00</u>	<u>\$8,597,393.00</u>
Total Other Expenditures (Match)	<u>\$2,000,000.00</u>	<u>\$11,379,377.00</u>

Leveraging Ratio:

Total amount other funds allowable as leveraging*

*Do not use program income.

AUDIT

Date of most recent audit: 2014

Findings resolved, if any (Y/N): Yes, City has done a corrective action plan and is working on getting all issues resolved.

NOTE: For all water and sewer projects, Recipient must include copy of final approval by the State Department of Health and Bureau of Pollution Control (whichever is applicable). See last page of closeout package for agency contact information.

TOURISM INDUSTRY RESTORATION GRANTS ONLY:

Complete National Policy Objective, Financial Performance, and Audit sections only.

ETHNIC BENEFICIARY INFORMATION FOR GRANT AND EMERGENCY PROJECTS

Complete the following table regarding the number of persons who will directly benefit from this project.

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. White 2. Black/African American 3. Asian 4. American Indian/Alaskan Native 5. Native Hawaiian/Other Pacific Islander 6. American Indian/Alaskan Native and White 7. Asian and White 8. Black/African American & White | <ul style="list-style-type: none"> 9. American Indian/Alaskan Native and Black/African American 10. Other Multi Racial 11. Female Head of households 12. Total number of minorities 13. Number of elderly (+62) 14. Total number of handicapped 15. Number of children 18 or younger |
|---|---|

a. Activity:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Planned in Application	22	4	0	0	1	1	0	0	0	2	4	8	0	0	1		
Actual Beneficiaries	22	4	0	0	1	1	0	0	0	2	4	8	0	0	1		

b. Activity:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Planned in Application																	
Actual Beneficiaries																	

c. Activity:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Planned in Application																	
Actual Beneficiaries																	

d. Activity:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Planned in Application																	
Actual Beneficiaries																	

e. Activity:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Planned in Application																	
Actual Beneficiaries																	

INVENTORY AND PROGRAM INCOME FORM

Real Estate: List the property purchased with GRANT funds and considered to be surplus property, the type of property, (i.e., lots, land, buildings), price paid for each property, the proposed use of the property, and the date the property is expected to be used. If the real property was disposed of, list the reason for disposition, method of disposition, and the disposition date. As defined at 24 CFR Part 85.3, “real property” means land, including land improvements, structures and appurtenances thereto, excluding movable machinery and equipment.

Number or Amount	Type of Property	Purchase Price	Proposed Use of Property	Date to be Used	Disposition Date of Property (if applicable)	Reason for and Method of Disposition
N/A						

Equipment: List the equipment purchased with GRANT/LOAN funds, the price paid for each piece of equipment, and the use of the equipment. If the equipment was disposed of, list the reason for disposition, method of disposition, and the disposition date. As defined at 24 CFR Part 85.3, “Equipment” means tangible, nonexpendable, personal property having a useful life of more than one year and an acquisition cost of \$5,000 or more per unit.

Number or Amount	Type of Equipment	Purchase Price	Use of Equipment	Disposition Date of Equipment (if applicable)	Reason for and Method of Disposition
N/A					

Program Income: List the amount of program income collected to date, the type of activity generating program income (i.e., public facility, economic development, etc.), the estimated amount of additional program income payments expected, and the proposed use of the program income.

Pursuant to 73FR 75733-75736 1(a)(3)(ii) program income received after the closeout of the agreement between the MDA-DRD and the Recipient may be retained and utilized for other CDBG eligible purposes in accordance with 24 CFR 570 Part I or shall be returned to the MDA-DRD. Program income is defined in 24 CFR Part 85.25 and in 73FR 75733-75736 1(a). As defined at 24 CFR Part 85.25(b), “program income” means gross income received by the grantee or subgrantee directly generated by a grant supported activity, or earned only as a result of the grant agreement during the grant period. “During the grant period” is the time between the effective date of the award and the ending date of the award reflected in the final financial report.

Amount Collected To Date	Activity	Additional Payments	Proposed Use of Program Income
N/A			

MISSISSIPPI DEVELOPMENT AUTHORITY

DISASTER RECOVERY DIVISION

OUTSTANDING CLAIMANTS LIST

Recipient City of Hattiesburg

Contract Number R-103-205-02-KED

Claimant's Name, Address, S.S. # (Where Applicable)	Check #	Amount	Date	Pay Period Hours and Rate	Other Contact Name and Address
1. NO CLAIMANT					
2.					
3.					
4.					
5.					
6.					
7.					

CERTIFICATE OF RECIPIENT COMPLIANCE

1. Release

Pursuant to the terms of said subgrant/contract and in consideration of the sum of \$ 2,000,000.00 (Total Amount Paid & Payable by MDA-DRD), upon payment of the said sum the Recipient does remise, release, and discharge MDA-DRD, its officers, agents, and employees, of and from all liabilities, obligations, claims, and demands whatsoever under or arising from the said subgrant/contract, **except the following:**

- a. Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible of exact statement by the Recipient, as follows:

none

(If none, so state)

- b. Claims, together with reasonable expenses incidental thereto, based upon the liabilities of the Recipient to third parties arising out of the performance of the said subgrant/contract, which are not known to the Recipient on the date of execution of this release and of which the Recipient gives notice in writing to the MDA-DRD within the period specified in the said subgrant/contract.
- c. Claims, after closeout, for costs which result from the liability to pay Unemployment Insurance costs under a reimbursement system or to settle Worker's Compensation claims.

2. Assignment of Refunds, Rebates and Credits

Pursuant to the terms of said contract and in consideration of the reimbursement of costs and payment of fees as provided in the said contract and any assignment thereunder, the Contractor hereby does the following:

- a. Assign, transfer, set over and release to MDA-DRD all right, title and interest to all refunds, rebates, credits or other amounts (including any interest thereon) arising or which may hereafter accrue thereunder.
- b. Agree to take whatever action may be necessary to effect prompt collection of all such refunds, rebates, credits or other amounts (including interest thereon due or which may become due, and to forward promptly to MDA-DRD) for any proceeds so collected. The reasonable costs of any such action to effect collection shall constitute allowable costs when approved by the MDA-DRD as stated in the said contract and may be applied to reduce any amount otherwise payable to MDA-DRD under the terms hereof.
- c. Agree to cooperate fully with MDA-DRD as to any claim or suit in connection with such refunds, rebates, credits or other amounts due (including any interest thereon); to execute any protest, pleading, application, power of attorney or other papers in connection therewith; and to permit MDA-DRD or the Federal Grant of Agency to represent it at any hearing, trial or other proceeding arising out of such claim or suit.

3. Inventory Certification (Select One)

- a. _____ The Recipient hereby certifies that all items of materials and equipment purchased, furnished, or transferred for or to said Recipient were done so in accordance with the terms and conditions of said subgrant/contract.
- b. X The Recipient hereby certifies that no equipment was furnished or acquired under the terms and conditions of said subgrant/contract.

4. Recipient and Subrecipient Monitoring

The Recipient hereby certifies that onsite fiscal and programmatic reviews of the project(s) covered by this subgrant agreement were conducted, and that any findings identified in the monitoring report were resolved to the satisfaction of the MDA-DRD, prior to the submission of this closeout package. Further, the Recipient certifies that fiscal and programmatic reviews of subrecipient(s) (where applicable) were conducted by the Recipient, and any findings identified in the monitoring report(s) resolved, prior to the final fiscal and programmatic monitoring review of the Recipient. Copies of the Recipient and subrecipient monitoring reports and all related documents shall be maintained in the Recipient's official grant file for the period identified in the Record Retention section of the Agreement Relative to Closeout.

5. General Statement of Compliance

The Recipient further certifies that all other terms and conditions of said subgrant/contract have been complied with.

AGREEMENT RELATIVE TO CLOSEOUT OF DISASTER RECOVERY DIVISION GRANT PROGRAMS

This Agreement is between _____ City of Hattiesburg ("Recipient") and the Mississippi Development Authority Disaster Recovery Division ("Division").

Closeouts/Audits

The parties to this Agreement desire to close out the Recipient's Katrina Community Development Block Grant (KCDBG) Number R-103-205-02-KED (the "Grant").

Because of regulatory and legislative changes, the Division no longer requires a final audit of an individual grant at closeout.

Rather than waiting for Recipient's next periodic single or program-specific audit, the parties desire to close out the Grant **subject to subsequent audit(s)**.

THEREFORE, in consideration of the mutual promises contained herein, the parties to this Agreement agree as follows:

1. Recipient will submit to the Division its subsequent single or program-specific audit or audits, which shall comply with federal and state requirements and which shall cover all periods in which any Grant costs have been incurred. Recipients should refer to the KCDBG audit guidelines for further information and to determine whether a single or program-specific audit must be performed.
2. Recipient shall remit to the Division the amount of any costs which are disallowed by the subsequent single or program-specific audit(s) and which disallowances are sustained by the state.
3. Upon receipt of a copy of the Recipient's audit report and resolution of any findings related to the subgrant/contract (if applicable), the MDA-DRD will notify the Recipient in writing that the Recipient has fulfilled its audit requirements relative to the subgrant agreement.
4. Recipient acknowledges that the subgrant/contract is subject to monitoring by the United States Department of Housing and Urban Development (HUD), the Federal awarding agency, and that findings of noncompliance may be taken into account by HUD and the MDA-DRD as unsatisfactory performance of the Recipient in the consideration of any future grant award.
5. The Agreements contained herein are in addition to any other agreements between the parties relative to the closeout of the Grant. Recipient agrees to abide by all governing laws and regulations.

Record Retention

1. Pursuant to 24 CFR Subsection 570.490(d), the Recipient agrees to maintain records, including support documentation, **for the greater of** three years from closeout of the grant agreement between the Division and the United States Department of Housing and Urban Development (HUD), the Federal awarding agency, or the period required by other applicable laws and regulations as described in Subsections 570.487, relative to fair housing, lead-based paint poisoning prevention, the Architectural Barriers Act and the Americans with Disabilities Act, and 570.488, relative to the displacement, relocation, acquisition, and replacement of housing. The Division agrees to notify the Recipient of the closeout date of the grant agreement between the Division and HUD.
2. Pursuant to 24 CFR Part 85.42(c), the Recipient accepts that the starting dates of the retention period are as follows:

- a. General- When grant support is continued or renewed annually or at other intervals, the retention period for the records of each funding period starts on the day the Recipient submits to the Division its last expenditure report for that period. If grant support is continued or renewed quarterly, the retention period for each year's records starts on the day the Recipient submits its expenditure report for the last quarter of the Federal fiscal year. In all other cases, the retention period starts on the day the Recipient submits its final expenditure report as part of the closeout package.
 - b. Real Property and Equipment Records- The retention period for real property and equipment records starts from the date of disposition or replacement or transfer (as applicable) at the direction of the awarding agency.
 - c. Records for income transactions after grant or subgrant support- In instances where the Recipient earned income after the period of grant support, the retention period for the records pertaining to the earning of the income starts from the end of the grantee's fiscal year in which the income is earned.
 - d. Indirect cost rate proposals, cost allocation plans, and similar accounting computations of rates at which costs are charged- If the proposal, plan or other computation is required to be submitted to the Division to form the basis for the negotiation of the rate, the 3-year retention period starts from the date of such submission. If the proposal, plan or other computation is not required to be submitted to the Division for negotiation of the rate, the 3-year retention period starts from the end of the fiscal year (or other accounting period) covered by the proposal, plan or other computation.
3. Substitution of microfilm- Copies made by microfilming, photocopying, or similar methods may be substituted for the original records.
 4. Records to be maintained-
 - a. At a minimum, the Recipient's closeout file should contain a copy of this closeout package as well as all applicable documents listed on pages 32-35 of the Katrina Community Development Block Grant Program Implementation Manual.
 - b. Equipment- Per 24 CFR Part 85.32(d), property records must be maintained that include a description of the property, a serial number or other identification number, the source of property, who holds title, the acquisition date, and cost of the property, the percentage of Federal participation in the cost of the property, the location, use and condition of the property, and any ultimate disposition data including the date of disposal and sale price of the property. A physical inventory of the property must be taken and the results reconciled with the property records at least once every two years.
 - c. Real Property- Records to be retained include, but are not limited to, documentation of the acquisition, improvement, use and disposition of real property acquired or improved with CDBG assistance.

Flood Insurance Coverage

Pursuant to 24 CFR Subsection 570.509(c)(4)(iv), if applicable, the Recipient shall ensure that flood insurance coverage for property owners is maintained for the mandatory period for the grant program.

Certificate of Completion

It is hereby certified that all activities undertaken by the Recipient with funds provided under the grant agreement, hereof, have, to the best of my knowledge, been carried out in accordance with the grant agreement; that proper provision has been made by the Recipient for the payment of all unpaid costs and unsettled third-party claims identified, hereof; that the United States of America or the State of Mississippi is under no obligation to make any further payment to the Recipient under the grant agreement, hereof; and that every statement and amount set forth in this instrument is, to the best of my knowledge, true and correct as of this date.

Recipient Performance Certification Report

It is hereby certified that all planned and actual beneficiaries, and the planned and actual low-to-moderate-income beneficiaries as stated on the Recipient Performance Certification Report are, to the best of my knowledge, true and correct as of this date.

Ethnic Beneficiary Information

It is hereby certified that the information provided in the Ethnic Beneficiary form is, to the best of my knowledge, true and correct.

Outstanding Claimants List

It is hereby certified that the information as stated in the Outstanding Claimants List is, to the best of my knowledge, true and correct.

Inventory and Program Income Form

It is hereby certified that the information as stated in the Inventory and Program Income form is, to the best of my knowledge, true and correct.

Certificate of Recipient Compliance

It is hereby certified that the information as stated in the Certificate of Recipient Compliance form is, to the best of my knowledge, true and correct.

Final Request for Cash Consolidated Support Sheet

It is hereby certified that the information as stated in the Final Request for Cash Consolidated Support Sheet is, to the best of my knowledge, true and correct. It is also hereby certified that all requests for cash have been submitted to the MDA-DRD.

Final MDA-DRD Quarterly Report

It is hereby certified that the information in the final attached MDA-DRD Quarterly Report is, to the best of my knowledge, true and correct.

This Agreement is executed by the Parties on the date indicated by their respective signatures.

IN WITNESS THEREOF, this Agreement and Certification of Contract Compliance between the Recipient and the Division has been executed this _____ day of _____, 20__17__.

RECIPIENT

BY SIGNATORY OFFICIAL

TITLE

DATE

WITNESSED BY:

1. _____

2. _____

MISSISSIPPI DEVELOPMENT AUTHORITY DISASTER RECOVERY DIVISION:

BY SIGNATORY OFFICIAL _____

TITLE _____

DATE _____

BOARD OF HEALTH AND
BUREAU OF POLLUTION CONTROL

All water and sewer projects must have approval from the State Department of Health and/or Office of Pollution Control. Projects involving water improvements, whether potable or otherwise, require final approval from the Mississippi State Board of Health. Projects involving sewer improvements must obtain final project approval from the Office of Pollution Control.

Mississippi State Department of Health
Post Office Box 1700
2423 North State Street
Jackson, Mississippi 39215-1700
(601) 960-7400

Office of Pollution Control
Post Office Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171

February 2, 2017

Carter Carroll
President, City Council
City of Hattiesburg
PO Box 1898
Hattiesburg, MS 39403-1898

Dear Councilman Carroll and City Council Members:

Greetings from the Convention Commission and the Historic Saenger Theater.

It is February and we are entering the Mardi Gras season. For many years, the Saenger Theater has hosted the Krewe of Zeus' Coronation Ceremony and will again this year on Friday night, February 24th. This event is well attended and for the past several years has been a "full house."

One of the ways we create a safe environment for entry into the theater is to block the section of Forrest Street between the Saenger and City Hall. This has allowed guests to mingle and socialize outside of the theater lobbies. This is important because we offer concessions, including alcoholic beverages, at up to three locations within the Saenger Theater lobbies.

With the 2016 Entertainment District laws in place, we would like to request that the ½ block of Forrest Street between the Saenger and City Hall be declared an Entertainment District on February 24, 2017 so that we may permit the "on-street" consumption of all forms of alcoholic beverages in this closed street space.

Our staff is well-trained in alcoholic beverage service and control, and I believe we can provide a safe environment while alleviating some of the overcrowding of the theater lobbies that evening. We will barricade this section of the street without impeding the major traffic route of Front Street, assuring that the patrons will be safe.

As I contemplate future events such as FestivalSouth, Best of the Pine Belt, etc., I would like to suggest that we see how this one-time event works and then perhaps, declare this area an "Entertainment District" upon notification by the Saenger to the appropriate City department to accommodate events that would benefit from an expanded "lobby" with beverage service. This would allow the Saenger to offer this option at appropriate events in a manner that maximizes this location. Again, we would propose that we notify the City each and every time, just not seeking a City Council resolution each time. Anyway, an idea for the future, but I hope the Council will consider our request specifically for Friday night, February 24, 2017.

Please let me know if you have any questions or need more information.

Kind regards,



Rick Taylor
Executive Director

January 23, 2017



Mr. Carter Carroll, President
Hattiesburg City Council
P. O. Box 1898
Hattiesburg, MS 39403

Dear Carter:

I am requesting to be added to the City Council agenda for the meeting to be held on Tuesday February 7th, 2017. The Historic Hattiesburg Downtown Association, HHDA would like to submit a list of events for 2017 for consideration as city-approved event for the purposes described in Ordinance Number 3148. See attached list.

Thank you in advance for considering our request, if you need additional information please let me know.

Sincerely,

A handwritten signature in dark ink, appearing to read "Andrea Saffle", is written over a light gray circular background.

Andrea Saffle
Executive Director, Historic Hattiesburg Downtown Association

HHDA Events and HHDA Partnered Events for 2017

Compiled list of events so far for 2017 for consideration as city-approved event for the purposes described in Ordinance Number 3148. As additional events are developed during the year, they will be submitted.

Date	Time	Event	Location	Alcohol in Street- BYOB - NOT provided by HHDA	Est # people
Feb 3, Mar 3, Apr 6, May 5. June 2, July 7, Aug 4, Sept 1, Oct 6, Nov 3, Dec 1	5pm - 9pm	(12 dates) First Friday Downtown Arts Market	Alley between Front & E Pine St & the area of E Pine Street between Mobile Street and Main Street	yes	200
Mar 23,30 April 6,13, 20, 27; May 4, 11, 18, 25; June 1, 8, 15, 22, 29; July 6, 13, 20, 27; Aug 3, 10, 17, 24, 31; Sept 7, 14, 21, 28; Oct 5, 12, 19, 26	3-6 pm	(32 dates) Farmers Market	Town Square Park	NO	200
25-Mar	3-7pm	Spring Art Walk	Main Street, E Pine, E Front, Walnut	Yes	500
1-Apr	9a - 5pm	HubFest (ADP)	Downtown	yes	20,000
Apr 24,25	Friday 5-9 Sat 11a-10p	Local Life Festival (partnered event)	Walnut & Buschman, Town Square Park	yes (Promoter will contract w HPD)	5000

April 7 April 21 April 28 May 5 May 12 May 19 June 9(FS) Sept 22 Sept 29 Oct 6 Oct 13 Oct 20 Oct 27	5-9pm	Live @ 5 (13)	Town SqPark	Yes	1200-1500
10-Jun	5-10 pm	Hburg Craft Beer Festival	Town Square Park	Yes-provided by HHDA	1800
June 24 July 8 July 22 August 12 August 26	7-10pm	Summer Tunes concert series (5)	Town Square Park	Yes	1200-1500
July 7 July 14 July 21 July 28 Aug 4 Aug 11 Aug 18 Aug 25 Sept 1 Sept 8	5-9pm	Levitt Amp Concert Series (10)	Chain Park	Yes	1200-1500
Oct 6,7,8		Mobile Street Festival	Mobile Street	yes	2000
Nov 4 or 11	3-7pm	Fall Art Walk	Downtown	Yes	800
10-Dec	5-9pm	Downtown Candlelit Christmas Open house	Downtown	Yes	1000
31-Dec	7p-2am	New Year's Eve	Downtown	yes	1000



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 31, 2017

Janet Beech, Division Manager
Purchasing Department

Re: Emergency Purchase Orders

Dear Janet,

Please accept this statement as justification for POs 167476 and 167466 per Section 31-7-13(k) of Mississippi Code of 1972, Annotated.

The F-3 Tornado that struck Hattiesburg on 1/21/2017 caused an immense amount of heavy debris to block roadways and prevent local and state emergency management personnel from traveling throughout the City. Geddie Tree Service and L & A Contracting Company were asked to come in on 1/21/17 and 1/22/17, respectively, and remove debris from road right of ways.

A competitive bidding process is certainly preferable, but in this emergency situation we had neither the personnel available to enter a two-quote, nor the time for vendors to respond back with a quote. As this event happened on a Saturday, most vendors would not have been able to send a response back until Monday, January 23rd, at the very earliest. In short, time was genuinely of the essence as we couldn't expect emergency personnel or our residents to wait that long for assistance.

Please let me know if you need additional information.

Thank you,

Lamar Rutland, P.E.

Director of Engineering

MS Code 37 k) *Governing authority emergency purchase procedure.* If the governing authority, or the governing authority acting through its designee, shall determine that an emergency exists in regard to the purchase of any commodities or repair contracts, so that the delay incident to giving opportunity for competitive bidding would be detrimental to the interest of the governing authority, then the provisions herein for competitive bidding shall not apply and any officer or agent of such governing authority having general or special authority therefor in making such purchase or repair shall approve the bill presented therefor, and he shall certify in writing thereon from whom such purchase was made, or with whom such a repair contract was made. At the board meeting next following the emergency purchase or repair contract, documentation of the purchase or repair contract, including a description of the commodity purchased, the price thereof and the nature of the emergency shall be presented to the board and shall be placed on the minutes of the board of such governing authority.

CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

PURCHASE ORDER
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

Date - 01/25/17

POINT OF CONTACT:

PO No. - 167466
Req No. - 191165

VENDOR MAILING:
L & A CONTRACTING CO
PO BOX 16749
HATTIESBURG MS 39404-6749

HARRIS, MARIE

(601) 5454541

SHIP TO :
CITY OF HATTIESBURG
ENGINEERING/PUBLIC SERVICES
212 WEST FRONT STREET-CENTENNIAL BLDG
HATTIESBURG MS 39401

VENDOR # 00072727

PROCESSING CODE: RIP

PROJECT LINE: JANUARY 21, 2017 TORNADO-DEBRIS PUSHBACK

Account # Description

001203.6351

DEBRIS REMOVAL FEE
INV# 495-001
JANUARY 24, 2017

QTY 1.00 EA 11,185.7500 TOTAL COST 11,185.75

TOTAL CONTRACT AMOUNT NOT TO EXCEED

11,185.75

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.

KERMAE EATON
CITY CLERK

APPLICATION AND CERTIFICATE FOR PAYMENT

AIA DOCUMENT G702/CMA

CONSTRUCTION MANAGER-ADVISER EDITION
PAGE 1 OF 1 PAGES

TO OWNER:

City of Hattiesburg
200 Forrest St.
Hattiesburg, Ms 39403

PROJECT:

2017 Tornado Debris Push Back

FROM CONTRACTOR:

L&A CONTRACTING CO, INC.
P.O. BOX 16749
HATTIESBURG, MS 39404-6749

CONTRACT FOR:

VIA CONSTRUCTION MANAGER-
VIA ENGINEER:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 11,185.75
2. Net change by Change Orders \$ 0.00
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 11,185.75
4. TOTAL COMPLETED & STORED TO DATE \$ 11,185.75
(Column G on G703)
5. RETAINAGE:
a. % of Completed Work \$ 0.00
(Column D + E on G703)
b. % of Stored Material \$ 0.00
(Column F on G703)
Total Retainage (Lines 5a + 5b or
Total in Column I of G703) \$ 0.00

6. TOTAL EARNED LESS RETAINAGE \$ 11,185.75
(Line 4 less Line 5 total)
7. LESS PREVIOUS CERTIFICATES FOR \$ 0.00
PAYMENT (Line 6 from prior Certificate)
8. CURRENT PAYMENT DUE \$ 11,185.75
9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ 0.00
(Line 3 less Line 6)

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	0	
Total approved this Month		
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order		\$0.00

APPLICATION NO: 495-001 Distribution to:
☒ OWNER
☐ CONSTRUCTION MANAGER
PERIOD TO: 1/22/17
PROJECT NO:
FEMA ID:
CONTRACT DATE:
NOTICE TO PROCEED:

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:
L&A CONTRACTING COMPANY
By:  Date: 24 Jan. 2017
C.T. SUTHERLAND, Vice President

State of _____ County of _____
Subscribed and sworn to before me this _____ day of _____
Notary Public:
My Commission expires: _____

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Construction Manager and Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ _____
(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that changed to conform to the amount certified.)
CONSTRUCTION MANAGER:
By: _____ Date: _____
ENGINEER:
By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

To the Account of: The City of Project:

2017Tornado
Push Back

Invoice #
495-001

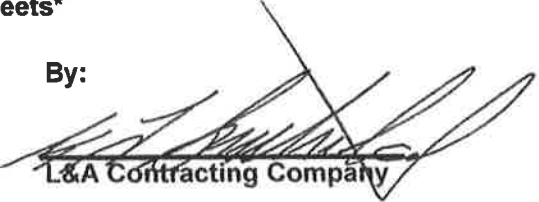
Street Clearing Description	Date Rate	1/24/2017 Hrs	Total
Diaster Event Manager	\$ 95.00	8.5	\$ 807.50
Project M'ger w/ vehicle	\$ 75.00	8.5	\$ 637.50
Project M'ger w/ vehicle	\$ 75.00	8	\$ 600.00
Foreman	\$ 65.00	8	\$ 520.00
Team Safety Director	\$ 129.00	8	\$ 1,032.00
Chainsaw & Operator (8 ea)	\$ 55.00	64	\$ 3,520.00
Equipment Transfer	\$ 100.00	6	\$ 600.00
Skid steer (3 ea) w/ operator	\$ 115.00	24	\$ 2,760.00
Pick Up w/ fuel tank	\$ 19.50	7.5	\$ 146.25
Service Truck w/ operator	\$ 75.00	7.5	\$ 562.50
		Total	\$ 11,185.75

Description of work: Cleared Streets*

Approved by:

By:

Customer Representative


L&A Contracting Company

* Alcorn St, S. Tipton, Greely, Lincoln, Sullivan, Webster, McKinley
Hall, Klondyke, Old River Ave, Gulfport, Chestnut
Road leading into South Lagoon



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 31, 2017

Janet Beech, Division Manager
Purchasing Department

Re: Emergency Purchase Orders

Dear Janet,

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Please let me know if you need additional information.

Thank you,

Lamar Rutland, P.E.

Director of Engineering

MS Code 37 k) *Governing authority emergency purchase procedure.* If the governing authority, or the governing authority acting through its designee, shall determine that an emergency exists in regard to the purchase of any commodities or repair contracts, so that the delay incident to giving opportunity for competitive bidding would be detrimental to the interest of the governing authority, then the provisions herein for competitive bidding shall not apply and any officer or agent of such governing authority having general or special authority therefor in making such purchase or repair shall approve the bill presented therefor, and he shall certify in writing thereon from whom such purchase was made, or with whom such a repair contract was made. At the board meeting next following the emergency purchase or repair contract, documentation of the purchase or repair contract, including a description of the commodity purchased, the price thereof and the nature of the emergency shall be presented to the board and shall be placed on the minutes of the board of such governing authority.

BILL TO:
CITY OF HATTIESBURG
ACCOUNTING DEPT
PO BOX 1898
HATTIESBURG, MS 39403-1898
FAX INVOICE TO: 601-584-4895

PURCHASE ORDER
THE CITY IS NOT LIABLE FOR SALES TAX ID# 64-6000432

Date - 01/25/17
PO No. - 167476
Req No. - 191177

VENDOR MAILING:
GEDDIE TREE SERVICE
190 JP GEDDIE ROAD
ELLISVILLE MS 39437

HARRIS, MARIE
VENDOR # 00105738

(601) 5454541

SHIP TO :
CITY OF HATTIESBURG
ENGINEERING/PUBLIC SERVICES
212 WEST FRONT STREET-CENTENNIAL BLDG
HATTIESBURG MS 39401

PROCESSING CODE: RIP

PROJECT LINE: JANUARY 21, 2017 TORNADO-DEBRIS REMOVAL SERVICE

Account #	Description	QTY	UM	UNIT COST	TOTAL COST
001203.6351	DEBRIS REMOVAL FEE INV# 102 JANUARY 24, 2017	1.00	EA	13,720.0000	13,720.00

TOTAL CONTRACT AMOUNT NOT TO EXCEED

13,720.00

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.

KERMAE EATON
CITY CLERK



Geddie Tree Service

Invoice No: 102
Date: January 24, 2017
Terms: NET 30
Due Date: February 23, 2017

Invoice

190 JP Geddie Rd.
Ellisville Ms. 39437

601-498-8690

Bill To: City Of Hattiesburg
Nellwood Dr.
Hattiesburg Ms.

Description	Quantity	Rate	Amount
Provided one skid steer, three men, one work truck and two chainsaws per crew to cut and clean out Bellwood Dr. We also cleaned out several side streets off of Bellwood dr. We cut and pushed all the trees that had fallen in the road and moved them to the ditches. I had four crews working from 10:00 AM- 5:00 PM. ON 01-21-17 at a rate of \$490/hr.	1	\$13,720.00	\$13,720.00

* Indicates non-taxable item

Subtotal	\$13,720.00
TAX (0.00%)	\$0.00
Total	\$13,720.00
Paid	\$0.00

Balance Due \$13,720.00



Mississippi Office of Surplus Property
P.O. Box 5778, Jackson, MS. 39288
Phone: 601-939-2050
Fax: 601-939-4505

**UPDATE APPLICATION FOR ELIGIBILITY
FOR FEDERAL PROPERTY DONATION PROGRAM**

To Receive Federal and State Surplus Property

Director's Approval: _____

Date Approved: _____

I. Legal Name and Mailing Address of Organization (Donee):

Name of Organization: CITY OF HATTIESBURG

Mailing Address: P.O. BOX 1898, HATTIESBURG, MS 39403-1898

Email Address: jbeech@hattiesburgms.com

If P. O. Box or Route, give street address/location of facility: 220 WEST FRONT STREET,
HATTIESBURG, MS 39401

County: LAMAR

Federal ID Number: 64-6000432

Telephone No.: (601) 545-4510

FAX No.: (601) 545-6661

II. Update Donee Status (See Page 2, Item IV.) YOU MUST CHECK ONE:

☒ Public Agency including Public Schools (tax supported) ☐ Nonprofit, Tax-exempt Organizations

☐ Veteran's Organization ☐ Small Business Administration (8a Contractor) ☐ Service Educational Activity

III. Changes: Have the operations of your organization changed since your last update or approval application in population serving, area serving or type of program? ☒ No ☐ Yes If yes, please explain in full.

NOTE: Please attach the information explaining any changes, if required. If the information in #5 is not attached to this update application, your account will remain or will be placed in and "INACTIVE" status.

PLEASE attach evidence of approval, accreditation or licensing, if required, for one or more programs.

RESOLUTION

"Be it resolved by the Governing Board, or Chief Administrative Officer, and hereby ordered that the official whose name, title and signature are listed below shall be and is hereby authorized as our representative to acquire Surplus Property from the Mississippi Office of Surplus Property under the Terms and Conditions specified in the Certifications and Agreements." This representative will be our "Contact Person" for all issues regarding this account.

JANET BEECH

PURCHASING MANAGER

Contact Person

Title

Signature

Signature of Authorized Official: _____

(Must be CEO/Director of Organization)

Date: 1/27/17

Print/Type Name: _____

Title: _____

IV. Update Donee Status:

Tax Supported organizations qualify as a public agency. This includes all cities, counties and state government offices. Also, public schools, public hospitals, etc.

Also included as a public agency is any rural fire department which has obtained its "Certificate of Incorporation" from the Secretary of State's Office of Mississippi. Rural, volunteer fire departments **MUST** attach a copy of the "Certificate of Incorporation" from the Secretary of State's Office, a letter from the County Coordinator stating amount received from tax mil and a letter stating one year's training classes for each month.

Non-profit / tax exempt organizations are not always eligible to qualify for this program. Only certain nonprofit / tax exempt organizations are eligible. An organization must provide an accredited education service (school, including non-profit / tax exempt daycares) or be a licensed health facility (clinic, hospital, etc.).

*Homeless shelters and/or organizations which provide assistance to the NEEDY. These organizations **MUST** provide a letter from a city, county or state official confirming their operation is a beneficial help to the area **AND THE APPROXIMATE NUMBER OF PERSONS SERVED PER MONTH** _____.

Museums which meet specific criteria (at least one full time staff member, open to the public no less than 1,000 hours per year); and programs which operate under the Older Americans Act.

If you have any questions as to your eligibility feel free to call this office.

V. All organizations applying as NON-PROFIT must provide a written description of their program/services offered, including a description of the facility.

VI. Source of Funding (Attach supporting documentation):

☒ Tax Supported ☐ Grant ☐ Contributions ☐ Other _____

VII. Has the organization been determined to be tax exempt under Section 501 of the Internal Revenue Code of 1954?

Letter must have same name and address as shown on this application.

☒ No ☐ Yes (attach a copy of the letter)

VIII. Is the Donee organization approved, accredited, or licensed?

By what authority? _____

(attach a copy)

If, by state law, your organization must be licensed, you must provide us with a current copy of your license and update this copy with us every time it expires.

If you are a school and not listed in the Department of Education's Directory such as some private schools, you must provide us with letters from three (3) facilities of higher education which state that they will accept your students.

Signature of Authorized Official: _____ *N/A* **Date:** _____

COMPLIANCE INFORMATION:

What you will agree to when you sign your distribution document (Invoice):

You agree to use the surplus property only in the official program which you represent; **AND**

You agree to put the surplus property into use within 12 months and to use it for at least 12 months; **AND**

You agree to use certain items (such as vehicles) for eighteen (18) months or longer (these items are distinguished by a notation on the distribution document (Invoice); **AND**

You agree to pay the U.S. Government if you do not use the property according to your agreement.

HOW PROPERTY IS ALLOCATED TO DONEES:

After completing these forms mail, email, or fax all back to this office, with necessary documentation. You will be sent a letter or email as to your status. Once you receive the letter that your organization has been updated you may start using this program. We have a stocked warehouse and yard for your convenience. You may acquire as much property as you need as often as you like, however, the items you obtain must work with your program function. For example, a hospital would not be allowed to acquire an armored personnel carrier.

Invoices:

There is service charge/handling fee for all items processed through this office. However, this charge will be a small percentage of the original acquisition cost.

All items are invoiced through our Warehouse Office and must be signed by an authorized representative from the approved Donee organization.

A copy of the invoice will be given to the authorized representative for your records. Monthly statements will be sent showing the balance, if any, on your account.

PAYMENT OF INVOICES (SERVICE CHARGES):

Invoices must be paid for with a check imprinted with the name of the approved organization for which the items were invoiced. NO EXCEPTIONS! This means no cash, no money orders, no personal checks, etc.

Though it is acceptable to pay for more than one invoice per check, these invoices must all be for the same Donee organization. The Donee's account number is listed on the invoice. Checks must be for only one (1) account number.

Signature of
Authorized Official:



Date: 1/27/17

NONDISCRIMINATION ASSURANCE

The Donee, agrees that the program for or in connection with which any property is donated to the donee will be conducted in compliance with, and the donee will comply with and will require any other person (any legal entity) through contractual or other arrangements with the donee is authorized to provide services or benefits under said program to comply with all requirements imposed by or pursuant to the regulation of the General Services Administration (41 CFR 101-6.2 and 101-8) issued under the provisions of Title VI of the Civil Rights Act of 1964, as amended, Section 606 of Title VI of the Federal Property and Administrative Services Act of 1949, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, Title IX of the Education Amendment of 1972, as amended, Section 303 of the Age Discrimination Act of 1975, and the Civil Rights Restoration Act of 1987, to the end that no person in the United States shall, on the grounds of race, color, national origin, sex, or age, or that no otherwise qualified handicapped person shall solely by reason of the handicap, be excluded from participation in, be denied benefits of, or be subjected to discrimination under any program or activity for which the donee received federal assistance from the General Services Administration; and hereby gives assurance that it will immediately take any measures necessary to effectuate Administration; and hereby gives assurance that it will immediately take any measures necessary to effectuate the agreement.

Signature of

Authorized Official: _____



Date: _____

1/27/17

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
INELIGIBILITY AND VOLUNTARY EXCLUSION FOR COVERED CONTRACTS**

State Plan of Operation requires the Mississippi Office Surplus Property to screen each Applicant Organization to determine whether the applicant has a right to obtain financial assistance/property in accordance with federal regulation on debarment, suspension, ineligibility and exclusion. Each applicant organization/covered contractor must also screen each of its covered subcontractors. In this certification "contractor" refers to both contractor and subcontractor; "contract" refers to both contract and subcontract.

By signing and submitting this certification the Applicant organization accepts the following terms:

1. The certification herein below is a material representation of fact upon which reliance was placed when this contract was entered into. If it is later determined that the Organization rendered an erroneous certification, in addition to other remedies available to the federal government, Mississippi Office of Surplus Property, the United States General Services Administrator or any other federal department or agency may pursue available remedies, including suspension and/or debarment.
2. The Organization shall provide immediate written notice to the Agency to which this certification is submitted if at any time the Organization learns that the certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
3. The words "covered contract," "debarred," "suspended," "ineligible," "participant," "person," "principal," "proposal," and "voluntary exclusion," as used in this certification have meaning based upon material in the State Plan of Operation of Mississippi Office of Surplus Property.
4. The Organization agrees by submitting this certification that, should eligibility to acquire property be granted, it shall not knowingly enter into any subcontract with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by Mississippi Office of Surplus Property, the United States General Services Administration or any other federal department or agency.
5. The Organization further agrees by submitting this certification that it will include this certification titled "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion for Covered Contract" without modification, in all covered subcontracts in solicitation for all covered subcontracts.
6. The Organization may rely upon a certification of a potential subcontractor that is not debarred, suspended, ineligible, or voluntarily excluded from the covered contract, unless it knows that the certification is erroneous. An Organization must at a minimum obtain certifications from its covered subcontractors upon each subcontract's initiation and upon each renewal.
7. Nothing contained in all the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this certification document. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
8. Except for contracts authorized under paragraph 4 of these terms, if an Organization in a covered contract knowingly enters into a covered subcontract with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, the United States General Services Administration, or any other federal department or agency, as applicable, may pursue available remedies, including suspension and/or debarment.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION FOR COVERED CONTRACTS.

Indicate in the appropriate space which statement applies to the covered potential contractor:

☒ [X] The organization certifies, by submission of this certification, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this contract by any federal department, agency or by the State of Mississippi.

☐ [] The organization is unable to certify to one or more of the terms in this certification, and the organization must attach an explanation for each of the above terms to which they are unable to make certification.

Signature of

Authorized Official:

Date:

MOSP-03 (2/28/2016)

Page # 5

AUTHORIZED REPRESENTATIVES

I. Who to Authorize:

Any person listed below will be recognized as a representative of the applicant organization with the authority to sign for and pick up property. The organization agrees to pay for all invoices signed by those listed and be held liable for property being used as the program requires.

At any time this list may be changed (persons added or deleted) with a letter on organization letterhead signed by the authorized official you have noted on these forms. This letter can be mailed, faxed or hand delivered.

Please note that the changes must be in writing, on letterhead and signed by the "authorized official", not by one of the "representatives".

II. Representatives:

Name (Print/Type)

Title/Email

Signature

JANET BEECH, PURCHASING MANAGER, jbeech@hattiesburgms.com

CHIEF ANTHONY PARKER, CHIEF OF POLICE, alparker@hattiesburgms.com

CAPTAIN TONY FONTAINE, ACADEMY CAPTAIN, tfontaine@hattiesburgms.com

EATON, KERMA, CITY CLERK, Keaton@hattiesburgms.com

NOTE:

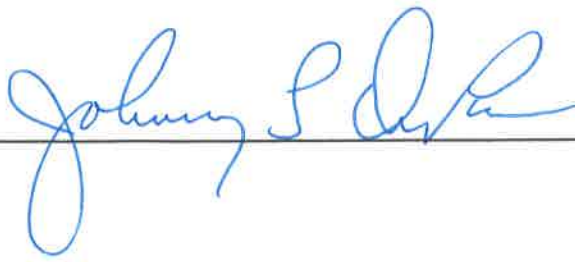
[X] Purchase orders will be honored if required by the organization.

(Check this box if a P.O. number is required before releasing any property.)

Signature of

Authorized Official:

MOSP-03 (2/28/2016)

A handwritten signature in blue ink, appearing to read "Johnny S. Davis", is written over a horizontal line.

Date: 1/27/17

Page # 6



City of Hattiesburg, MS

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

FILE NUMBER: 2017-214

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: USDOJ Byrne 2016 Acknowledgement

Title: Acknowledge and accept award USDOJ Edward Byrne Memorial Justice Assistance Grant in the amount of \$19,703.

Type: Action Item

Drafter: Lindsay Coleman,
Federal and State
Programs

In Control: City Council

Reference:

Attachments: USDOJ Byrne JAG 2016 Award, USDOJ Bryne 2016
MOU & Grant Application

File Created: 01/31/2017

Budget Information: Acknowledge and accept award USDOJ
Edward Byrne Memorial Justice Assistance Grant in the amount of
\$19,703 to be split 60/40 with Forrest County (\$11,822.00 city/
\$7,881.00 FC).

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File



U.S. Department of Justice

Office of Justice Programs

Bureau of Justice Assistance

Office of Justice Programs

Washington, D.C. 20531

September 8, 2016

The Honorable Johnny L. Dupree
City of Hattiesburg
P.O.Box 1898
Hattiesburg, MS 39403-1898

Dear Mayor Dupree:

On behalf of Attorney General Loretta Lynch, it is my pleasure to inform you that the Office of Justice Programs has approved your application for funding under the FY 16 Edward Byrne Memorial Justice Assistance Grant (JAG) Program - Local Solicitation in the amount of \$19,703 for City of Hattiesburg.

Enclosed you will find the Grant Award and Special Conditions documents. This award is subject to all administrative and financial requirements, including the timely submission of all financial and programmatic reports, resolution of all interim audit findings, and the maintenance of a minimum level of cash-on-hand. Should you not adhere to these requirements, you will be in violation of the terms of this agreement and the award will be subject to termination for cause or other administrative action as appropriate.

If you have questions regarding this award, please contact:

- Program Questions, Erich W. Dietrich, Program Manager at (202) 616-1733; and
- Financial Questions, the Office of the Chief Financial Officer, Customer Service Center (CSC) at (800) 458-0786, or you may contact the CSC at ask.ocfo@usdoj.gov.

Congratulations, and we look forward to working with you.

Sincerely,

Denise O'Donnell

Denise O'Donnell
Director

Enclosures



OFFICE FOR CIVIL RIGHTS

Office of Justice Programs

U.S. Department of Justice

810 7th Street, NW
Washington, DC 20531

Tel: (202) 307-0690

TTY: (202) 307-2027

E-mail: askOCR@usdoj.gov

Website: www.ojp.usdoj.gov/ocr

September 8, 2016

The Honorable Johnny L. Dupree
City of Hattiesburg
P.O.Box 1898
Hattiesburg, MS 39403-1898

Dear Mayor Dupree:

Congratulations on your recent award. In establishing financial assistance programs, Congress linked the receipt of federal funding to compliance with federal civil rights laws. The Office for Civil Rights (OCR), Office of Justice Programs (OJP), U.S. Department of Justice (DOJ) is responsible for ensuring that recipients of financial assistance from the OJP, the Office of Community Oriented Policing Services (COPS), and the Office on Violence Against Women (OVW) comply with the applicable federal civil rights laws. We at the OCR are available to help you and your organization meet the civil rights requirements that come with DOJ funding.

Ensuring Access to Federally Assisted Programs

Federal laws that apply to recipients of financial assistance from the DOJ prohibit discrimination on the basis of race, color, national origin, religion, sex, or disability in funded programs or activities, not only in employment but also in the delivery of services or benefits. A federal law also prohibits recipients from discriminating on the basis of age in the delivery of services or benefits.

In March of 2013, President Obama signed the Violence Against Women Reauthorization Act of 2013. The statute amends the Violence Against Women Act of 1994 (VAWA) by including a nondiscrimination grant condition that prohibits discrimination based on actual or perceived race, color, national origin, religion, sex, disability, sexual orientation, or gender identity. The new nondiscrimination grant condition applies to certain programs funded after October 1, 2013. The OCR and the OVW have developed answers to some frequently asked questions about this provision to assist recipients of VAWA funds to understand their obligations. The Frequently Asked Questions are available at <http://ojp.gov/about/ocr/vawafaqs.htm>.

Enforcing Civil Rights Laws

All recipients of federal financial assistance, regardless of the particular funding source, the amount of the grant award, or the number of employees in the workforce, are subject to prohibitions against unlawful discrimination. Accordingly, the OCR investigates recipients that are the subject of discrimination complaints from both individuals and groups. In addition, based on regulatory criteria, the OCR selects a number of recipients each year for compliance reviews, audits that require recipients to submit data showing that they are providing services equitably to all segments of their service population and that their employment practices meet equal opportunity standards.

Providing Services to Limited English Proficiency (LEP) Individuals

In accordance with DOJ guidance pertaining to Title VI of the Civil Rights Act of 1964, 42 U.S.C. § 2000d, recipients of federal financial assistance must take reasonable steps to provide meaningful access to their programs and activities for persons with limited English proficiency (LEP). See U.S. Department of Justice, Guidance to Federal Financial Assistance Recipients Regarding Title VI Prohibition Against National Origin Discrimination Affecting Limited English Proficient Persons, 67 Fed. Reg. 41,455 (2002). For more information on the civil rights responsibilities that recipients have in providing language services to LEP individuals, please see the website <http://www.lep.gov>.

Ensuring Equal Treatment for Faith-Based Organizations

The DOJ regulation, Equal Treatment for Faith-Based Organizations, 28 C.F.R. pt. 38, requires State Administering Agencies (SAAs) to treat faith-based organizations the same as any other applicant or recipient. The regulation prohibits SAAs from making awards or grant administration decisions on the basis of an organization's religious character or affiliation, religious name, or the religious composition of its board of directors.

The regulation also prohibits faith-based organizations from using financial assistance from the DOJ to fund inherently (or explicitly) religious activities. While faith-based organizations can engage in non-funded inherently religious activities, they must hold them separately from the program funded by the DOJ, and recipients cannot compel beneficiaries to participate in them. The Equal Treatment Regulation also makes clear that organizations participating in programs funded by the DOJ are not permitted to discriminate in the provision of services on the basis of a beneficiary's religion. For more information on the regulation, please see the OCR's website at http://www.ojp.usdoj.gov/about/ocr/equal_fbo.htm.

SAAs and faith-based organizations should also note that the Omnibus Crime Control and Safe Streets Act (Safe Streets Act) of 1968, as amended, 42 U.S.C. § 3789d(c); the Victims of Crime Act of 1984, as amended, 42 U.S.C. § 10604(e); the Juvenile Justice and Delinquency Prevention Act of 1974, as amended, 42 U.S.C. § 5672(b); and VAWA, Pub. L. No. 113-4, sec. 3(b)(4), 127 Stat. 54, 61-62 (to be codified at 42 U.S.C. § 13925(b)(13)) contain prohibitions against discrimination on the basis of religion in employment. Despite these nondiscrimination provisions, the DOJ has concluded that it may construe the Religious Freedom Restoration Act (RFRA) on a case-by-case basis to permit some faith-based organizations to receive DOJ funds while taking into account religion when hiring staff, even if the statute that authorizes the funding program generally forbids recipients from considering religion in employment decisions. Please consult with the OCR if you have any questions about the regulation or the application of RFRA to the statutes that prohibit discrimination in employment.

Using Arrest and Conviction Records in Making Employment Decisions

The OCR issued an advisory document for recipients on the proper use of arrest and conviction records in making hiring decisions. See Advisory for Recipients of Financial Assistance from the U.S. Department of Justice on the U.S. Equal Employment Opportunity Commission's Enforcement Guidance: Consideration of Arrest and Conviction Records in Employment Decisions Under Title VII of the Civil Rights Act of 1964 (June 2013), available at http://www.ojp.usdoj.gov/about/ocr/pdfs/UseofConviction_Advisory.pdf. Recipients should be mindful that the misuse of arrest or conviction records to screen either applicants for employment or employees for retention or promotion may have a disparate impact based on race or national origin, resulting in unlawful employment discrimination. In light of the Advisory, recipients should consult local counsel in reviewing their employment practices. If warranted, recipients should also incorporate an analysis of the use of arrest and conviction records in their Equal Employment Opportunity Plans (EEOs) (see below).

Complying with the Safe Streets Act

An organization that is a recipient of financial assistance subject to the nondiscrimination provisions of the Safe Streets Act, must meet two obligations: (1) complying with the federal regulation pertaining to the development of an EEO (see 28 C.F.R. pt. 42, subpt. E) and (2) submitting to the OCR findings of discrimination (see 28 C.F.R. §§ 42.204(c), .205(c)(5)).

Meeting the EEOP Requirement

If your organization has less than fifty employees or receives an award of less than \$25,000 or is a nonprofit organization, a medical institution, an educational institution, or an Indian tribe, then it is exempt from the EEOP requirement. To claim the exemption, your organization must complete and submit Section A of the Certification Form, which is available online at <http://www.ojp.usdoj.gov/about/ocr/pdfs/cert.pdf>.

If your organization is a government agency or private business and receives an award of \$25,000 or more, but less than \$500,000, and has fifty or more employees (counting both full- and part-time employees but excluding political appointees), then it has to prepare a Utilization Report (formerly called an EEOP Short Form), but it does not have to submit the report to the OCR for review. Instead, your organization has to maintain the Utilization Report on file and make it available for review on request. In addition, your organization has to complete Section B of the Certification Form and return it to the OCR. The Certification Form is available at <http://www.ojp.usdoj.gov/about/ocr/pdfs/cert.pdf>.

If your organization is a government agency or private business and has received an award for \$500,000 or more and has fifty or more employees (counting both full- and part-time employees but excluding political appointees), then it has to prepare a Utilization Report (formerly called an EEOP Short Form) and submit it to the OCR for review within sixty days from the date of this letter. For assistance in developing a Utilization Report, please consult the OCR's website at <http://www.ojp.usdoj.gov/about/ocr/eeop.htm>. In addition, your organization has to complete Section C of the Certification Form and return it to the OCR. The Certification Form is available at <http://www.ojp.usdoj.gov/about/ocr/pdfs/cert.pdf>.

To comply with the EEOP requirements, you may request technical assistance from an EEOP specialist at the OCR by telephone at (202) 307-0690, by TTY at (202) 307-2027, or by e-mail at EEOSubmission@usdoj.gov.

Meeting the Requirement to Submit Findings of Discrimination

If in the three years prior to the date of the grant award, your organization has received an adverse finding of discrimination based on race, color, national origin, religion, or sex, after a due-process hearing, from a state or federal court or from a state or federal administrative agency, your organization must send a copy of the finding to the OCR.

Ensuring the Compliance of Subrecipients

SAAs must have standard assurances to notify subrecipients of their civil rights obligations, written procedures to address discrimination complaints filed against subrecipients, methods to monitor subrecipients' compliance with civil rights requirements, and a program to train subrecipients on applicable civil rights laws. In addition, SAAs must submit to the OCR every three years written Methods of Administration (MOA) that summarize the policies and procedures that they have implemented to ensure the civil rights compliance of subrecipients. For more information on the MOA requirement, see http://www.ojp.usdoj.gov/funding/other_requirements.htm.

If the OCR can assist you in any way in fulfilling your organization's civil rights responsibilities as a recipient of federal financial assistance, please contact us.

Sincerely,



Michael L. Alston
Director

cc: Grant Manager
Financial Analyst



U.S. Department of Justice
Office of Justice Programs
Bureau of Justice Assistance

Grant

PAGE 1 OF 13

1. RECIPIENT NAME AND ADDRESS (Including Zip Code) City of Hattiesburg P.O.Box 1898 Hattiesburg, MS 39403-1898		4. AWARD NUMBER: 2016-DJ-BX-0570	
		5. PROJECT PERIOD: FROM 10/01/2015 TO 09/30/2017 BUDGET PERIOD: FROM 10/01/2015 TO 09/30/2017	
		6. AWARD DATE 09/08/2016	7. ACTION Initial
2a. GRANTEE IRS/VENDOR NO. 646000432	8. SUPPLEMENT NUMBER 00		
2b. GRANTEE DUNS NO. 079448130	9. PREVIOUS AWARD AMOUNT		\$ 0
3. PROJECT TITLE City of Hattiesburg, Forrest County Byrne JAG Program 2016	10. AMOUNT OF THIS AWARD		\$ 19,703
	11. TOTAL AWARD		\$ 19,703
12. SPECIAL CONDITIONS THE ABOVE GRANT PROJECT IS APPROVED SUBJECT TO SUCH CONDITIONS OR LIMITATIONS AS ARE SET FORTH ON THE ATTACHED PAGE(S).			
13. STATUTORY AUTHORITY FOR GRANT This project is supported under FY16(BJA - JAG) 42 USC 3750, et seq.			
14. CATALOG OF DOMESTIC FEDERAL ASSISTANCE (CFDA Number) 16.738 - Edward Byrne Memorial Justice Assistance Grant Program			
15. METHOD OF PAYMENT GPRS			
AGENCY APPROVAL		GRANTEE ACCEPTANCE	
16. TYPED NAME AND TITLE OF APPROVING OFFICIAL Denise O'Donnell Director		18. TYPED NAME AND TITLE OF AUTHORIZED GRANTEE OFFICIAL Johnny L. Dupree Mayor	
17. SIGNATURE OF APPROVING OFFICIAL 		19. SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL	19A. DATE
AGENCY USE ONLY			
20. ACCOUNTING CLASSIFICATION CODES FISCAL FUND BUD. DIV. YEAR CODE ACT. OFC. REG. SUB. POMS AMOUNT X B DJ 80 00 00 19703		21. RDJUGT1349	

OJP FORM 4000/2 (REV. 5-87) PREVIOUS EDITIONS ARE OBSOLETE.

OJP FORM 4000/2 (REV. 4-88)



U.S. Department of Justice
Office of Justice Programs
Bureau of Justice Assistance

**AWARD CONTINUATION
SHEET
Grant**

PAGE 2 OF 13

PROJECT NUMBER 2016-DJ-BX-0570

AWARD DATE 09/08/2016

SPECIAL CONDITIONS

1. Applicability of Part 200 Uniform Requirements

The Uniform Administrative Requirements, Cost Principles, and Audit Requirements in 2 C.F.R. Part 200, as adopted and supplemented by the Department of Justice (DOJ) in 2 C.F.R. Part 2800 (together, the "Part 200 Uniform Requirements") apply to this 2016 award from the Office of Justice Programs (OJP).

The Part 200 Uniform Requirements were first adopted by DOJ on December 26, 2014. If this 2016 award supplements funds previously awarded by OJP under the same award number (e.g., funds awarded in 2014 or earlier years), the Part 200 Uniform Requirements apply with respect to all funds under that award number (regardless of the award date, and regardless of whether derived from the initial award or a supplemental award) that are obligated on or after the acceptance date of this 2016 award.

For more information and resources on the Part 200 Uniform Requirements as they relate to OJP awards and subawards ("subgrants"), see the Office of Justice Programs (OJP) website at <http://ojp.gov/funding/Part200UniformRequirements.htm>.

In the event that an award-related question arises from documents or other materials prepared or distributed by OJP that may appear to conflict with, or differ in some way from, the provisions of the Part 200 Uniform Requirements, the recipient is to contact OJP promptly for clarification.

2. Compliance with DOJ Grants Financial Guide

The recipient agrees to comply with the Department of Justice Grants Financial Guide as posted on the OJP website (currently, the "2015 DOJ Grants Financial Guide"), including any updated version that may be posted during the period of performance.

3. Required training for Point of Contact and all Financial Points of Contact

Both the Point of Contact (POC) and all Financial Points of Contact (FPOCs) for this award must have successfully completed an "OJP financial management and grant administration training" by 120 days after the date of the recipient's acceptance of the award. Successful completion of such a training on or after January 1, 2015, will satisfy this condition.

In the event that either the POC or an FPOC for this award changes during the period of performance, the new POC or FPOC must have successfully completed an "OJP financial management and grant administration training" by 120 calendar days after -- (1) the date of OJP's approval of the "Change Grantee Contact" GAN (in the case of a new POC), or (2) the date the POC enters information on the new FPOC in GMS (in the case of a new FPOC). Successful completion of such a training on or after January 1, 2015, will satisfy this condition.

A list of OJP trainings that OJP will consider "OJP financial management and grant administration training" for purposes of this condition is available at <http://www.ojp.gov/training/fmts.htm>. All trainings that satisfy this condition include a session on grant fraud prevention and detection.

The recipient should anticipate that OJP will immediately withhold ("freeze") award funds if the recipient fails to comply with this condition. The recipient's failure to comply also may lead OJP to impose additional appropriate conditions on this award.



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8. Specific post-award approval required to use a noncompetitive approach in any procurement contract that would exceed \$150,000

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements to obtain specific advance approval to use a noncompetitive approach in any procurement contract that would exceed the Simplified Acquisition Threshold (currently, \$150,000). This condition applies to agreements that -- for purposes of federal grants administrative requirements -- OJP considers a procurement "contract" (and therefore does not consider a subaward).

The details of the requirement for advance approval to use a noncompetitive approach in a procurement contract under an OJP award are posted on the OJP web site at <http://ojp.gov/funding/Explore/NoncompetitiveProcurement.htm> (Award condition: Specific post-award approval required to use a noncompetitive approach in a procurement contract (if contract would exceed \$150,000)), and are incorporated by reference here.

9. Requirements pertaining to prohibited conduct related to trafficking in persons (including reporting requirements and OJP authority to terminate award)

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements (including requirements to report allegations) pertaining to prohibited conduct related to the trafficking of persons, whether on the part of recipients, subrecipients ("subgrantees"), or individuals defined (for purposes of this condition) as "employees" of the recipient or of any subrecipient.

The details of the recipient's obligations related to prohibited conduct related to trafficking in persons are posted on the OJP web site at <http://ojp.gov/funding/Explore/ProhibitedConduct-Trafficking.htm> (Award condition: Prohibited conduct by recipients and subrecipients related to trafficking in persons (including reporting requirements and OJP authority to terminate award)), and are incorporated by reference here.

10. Compliance with applicable rules regarding approval, planning, and reporting of conferences, meetings, trainings, and other events

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable laws, regulations, policies, and official DOJ guidance (including specific cost limits, prior approval and reporting requirements, where applicable) governing the use of federal funds for expenses related to conferences (as that term is defined by DOJ), including the provision of food and/or beverages at such conferences, and costs of attendance at such conferences.

Information on the pertinent DOJ definition of conferences and the rules applicable to this award appears in the DOJ Grants Financial Guide (currently, as section 3.10 of "Postaward Requirements" in the "2015 DOJ Grants Financial Guide").

11. Requirement for data on performance and effectiveness under the award

The recipient must collect and maintain data that measure the performance and effectiveness of activities under this award. The data must be provided to OJP in the manner (including within the timeframes) specified by OJP in the program solicitation or other applicable written guidance. Data collection supports compliance with the Government Performance and Results Act (GPRA) and the GPRA Modernization Act, and other applicable laws.

12. OJP Training Guiding Principles

Any training or training materials that the recipient -- or any subrecipient ("subgrantee") at any tier -- develops or delivers with OJP award funds must adhere to the OJP Training Guiding Principles for Grantees and Subgrantees, available at <http://ojp.gov/funding/ojptrainingguidingprinciples.htm>.



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13. Effect of failure to address audit issues

The recipient understands and agrees that the DOJ awarding agency (OJP or OVW, as appropriate) may withhold award funds, or may impose other related requirements, if (as determined by the DOJ awarding agency) the recipient does not satisfactorily and promptly address outstanding issues from audits required by the Part 200 Uniform Requirements (or by the terms of this award), or other outstanding issues that arise in connection with audits, investigations, or reviews of DOJ awards.

14. The recipient agrees to comply with any additional requirements that may be imposed by the DOJ awarding agency (OJP or OVW, as appropriate) during the period of performance for this award, if the recipient is designated as "high-risk" for purposes of the DOJ high-risk grantee list.

15. Compliance with DOJ regulations pertaining to civil rights and nondiscrimination - 28 C.F.R. Part 42

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements of 28 C.F.R. Part 42, specifically including any applicable requirements in Subpart E of 28 C.F.R. Part 42 that relate to an equal employment opportunity program.

16. Compliance with DOJ regulations pertaining to civil rights and nondiscrimination - 28 C.F.R. Part 38

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements of 28 C.F.R. Part 38, specifically including any applicable requirements regarding written notice to program beneficiaries and prospective program beneficiaries. Part 38 of 28 C.F.R., a DOJ regulation, was amended effective May 4, 2016.

Among other things, 28 C.F.R. Part 38 includes rules that prohibit specific forms of discrimination on the basis of religion, a religious belief, a refusal to hold a religious belief, or refusal to attend or participate in a religious practice. Part 38 also sets out rules and requirements that pertain to recipient and subrecipient ("subgrantee") organizations that engage in or conduct explicitly religious activities, as well as rules and requirements that pertain to recipients and subrecipients that are faith-based or religious organizations.

The text of the regulation, now entitled "Partnerships with Faith-Based and Other Neighborhood Organizations," is available via the Electronic Code of Federal Regulations (currently accessible at <http://www.ecfr.gov/cgi-bin/ECFR?page=browse>), by browsing to Title 28-Judicial Administration, Chapter 1, Part 38, under e-CFR "current" data.

17. Restrictions on "lobbying"

Federal funds may not be used by the recipient, or any subrecipient ("subgrantee") at any tier, either directly or indirectly, to support or oppose the enactment, repeal, modification or adoption of any law, regulation, or policy, at any level of government.

Should any question arise as to whether a particular use of Federal funds by a recipient (or subrecipient) would or might fall within the scope of this prohibition, the recipient is to contact OJP for guidance, and may not proceed without the express prior written approval of OJP.



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18. Compliance with general appropriations-law restrictions on the use of federal funds (FY 2016)

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable restrictions on the use of federal funds set out in federal appropriations statutes. Pertinent restrictions, including from various "general provisions" in the Consolidated Appropriations Act, 2016, are set out at <http://ojp.gov/funding/Explore/FY2016-AppropriationsLawRestrictions.htm>, and are incorporated by reference here.

Should a question arise as to whether a particular use of federal funds by a recipient (or a subrecipient) would or might fall within the scope of an appropriations-law restriction, the recipient is to contact OJP for guidance, and may not proceed without the express prior written approval of OJP.

19. Reporting Potential Fraud, Waste, and Abuse, and Similar Misconduct

The recipient and any subrecipients ("subgrantees") must promptly refer to the DOJ Office of the Inspector General (OIG) any credible evidence that a principal, employee, agent, subrecipient, contractor, subcontractor, or other person has, in connection with funds under this award -- (1) submitted a claim that violates the False Claims Act; or (2) committed a criminal or civil violation of laws pertaining to fraud, conflict of interest, bribery, gratuity, or similar misconduct.

Potential fraud, waste, abuse, or misconduct involving or relating to funds under this award should be reported to the OIG by-- (1) mail directed to: Office of the Inspector General, U.S. Department of Justice, Investigations Division, 950 Pennsylvania Avenue, N.W. Room 4706, Washington, DC 20530; (2) e-mail to: oig.hotline@usdoj.gov; and/or (3) the DOJ OIG hotline: (contact information in English and Spanish) at (800) 869-4499 (phone) or (202) 616-9881 (fax).

Additional information is available from the DOJ OIG website at <http://www.usdoj.gov/oig>.



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20. Restrictions and certifications regarding non-disclosure agreements and related matters

No recipient or subrecipient ("subgrantee") under this award, or entity that receives a procurement contract or subcontract with any funds under this award, may require any employee or contractor to sign an internal confidentiality agreement or statement that prohibits or otherwise restricts, or purports to prohibit or restrict, the reporting (in accordance with law) of waste, fraud, or abuse to an investigative or law enforcement representative of a federal department or agency authorized to receive such information.

The foregoing is not intended, and shall not be understood by the agency making this award, to contravene requirements applicable to Standard Form 312 (which relates to classified information), Form 4414 (which relates to sensitive compartmented information), or any other form issued by a federal department or agency governing the nondisclosure of classified information.

1. In accepting this award, the recipient--

a. represents that it neither requires nor has required internal confidentiality agreements or statements from employees or contractors that currently prohibit or otherwise currently restrict (or purport to prohibit or restrict) employees or contractors from reporting waste, fraud, or abuse as described above; and

b. certifies that, if it learns or is notified that it is or has been requiring its employees or contractors to execute agreements or statements that prohibit or otherwise restrict (or purport to prohibit or restrict), reporting of waste, fraud, or abuse as described above, it will immediately stop any further obligations of award funds, will provide prompt written notification to the federal agency making this award, and will resume (or permit resumption of) such obligations only if expressly authorized to do so by that agency.

2. If the recipient does or is authorized under this award to make subawards ("subgrants"), procurement contracts, or both--

a. it represents that--

(1) it has determined that no other entity that the recipient's application proposes may or will receive award funds (whether through a subaward ("subgrant"), procurement contract, or subcontract under a procurement contract) either requires or has required internal confidentiality agreements or statements from employees or contractors that currently prohibit or otherwise currently restrict (or purport to prohibit or restrict) employees or contractors from reporting waste, fraud, or abuse as described above; and

(2) it has made appropriate inquiry, or otherwise has an adequate factual basis, to support this representation; and

b. it certifies that, if it learns or is notified that any subrecipient, contractor, or subcontractor entity that receives funds under this award is or has been requiring its employees or contractors to execute agreements or statements that prohibit or otherwise restrict (or purport to prohibit or restrict), reporting of waste, fraud, or abuse as described above, it will immediately stop any further obligations of award funds to or by that entity, will provide prompt written notification to the federal agency making this award, and will resume (or permit resumption of) such obligations only if expressly authorized to do so by that agency.



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21. Compliance with 41 U.S.C. 4712 (including prohibitions on reprisal; notice to employees)

The recipient must comply with, and is subject to, all applicable provisions of 41 U.S.C. 4712, including all applicable provisions that prohibit, under specified circumstances, discrimination against an employee as reprisal for the employee's disclosure of information related to gross mismanagement of a federal grant, a gross waste of federal funds, an abuse of authority relating to a federal grant, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a federal grant.

The recipient also must inform its employees, in writing (and in the predominant native language of the workforce), of employee rights and remedies under 41 U.S.C. 4712.

Should a question arise as to the applicability of the provisions of 41 U.S.C. 4712 to this award, the recipient is to contact the DOJ awarding agency (OJP or OVW, as appropriate) for guidance.

22. Encouragement of policies to ban text messaging while driving

Pursuant to Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving," 74 Fed. Reg. 51225 (October 1, 2009), DOJ encourages recipients and subrecipients ("subgrantees") to adopt and enforce policies banning employees from text messaging while driving any vehicle during the course of performing work funded by this award, and to establish workplace safety policies and conduct education, awareness, and other outreach to decrease crashes caused by distracted drivers.

23. The recipient agrees to comply with OJP grant monitoring guidelines, protocols, and procedures, and to cooperate with BJA and OCFO on all grant monitoring requests, including requests related to desk reviews, enhanced programmatic desk reviews, and/or site visits. The recipient agrees to provide to BJA and OCFO all documentation necessary to complete monitoring tasks, including documentation related to any subawards made under this award. Further, the recipient agrees to abide by reasonable deadlines set by BJA and OCFO for providing the requested documents. Failure to cooperate with BJA's/OCFO's grant monitoring activities may result in sanctions affecting the recipient's DOJ awards, including, but not limited to: withholdings and/or other restrictions on the recipient's access to grant funds; referral to the Office of the Inspector General for audit review; designation of the recipient as a DOJ High Risk grantee; or termination of an award(s).
24. Program income (as defined in the Part 200 Uniform Requirements) must be used in accordance with the provisions of the Part 200 Uniform Requirements. Program income earnings and expenditures both must be reported on the quarterly Federal Financial Report, SF 425.
25. In order to promote information sharing and enable interoperability among disparate systems across the justice and public safety community, OJP requires the grantee to comply with DOJ's Global Justice Information Sharing Initiative (DOJ's Global) guidelines and recommendations for this particular grant. Grantee shall conform to the Global Standards Package (GSP) and all constituent elements, where applicable, as described at: http://www.it.ojp.gov/gsp_grantcondition. Grantee shall document planned approaches to information sharing and describe compliance to the GSP and appropriate privacy policy that protects shared information, or provide detailed justification for why an alternative approach is recommended.
26. To avoid duplicating existing networks or IT systems in any initiatives funded by BJA for law enforcement information sharing systems which involve interstate connectivity between jurisdictions, such systems shall employ, to the extent possible, existing networks as the communication backbone to achieve interstate connectivity, unless the grantee can demonstrate to the satisfaction of BJA that this requirement would not be cost effective or would impair the functionality of an existing or proposed IT system.



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27. The recipient agrees that any information technology system funded or supported by OJP funds will comply with 28 C.F.R. Part 23, Criminal Intelligence Systems Operating Policies, if OJP determines this regulation to be applicable. Should OJP determine 28 C.F.R. Part 23 to be applicable, OJP may, at its discretion, perform audits of the system, as per the regulation. Should any violation of 28 C.F.R. Part 23 occur, the recipient may be fined as per 42 U.S.C. 3789g(c)-(d). Recipient may not satisfy such a fine with federal funds.
28. Grantee agrees to comply with the requirements of 28 C.F.R. Part 46 and all Office of Justice Programs policies and procedures regarding the protection of human research subjects, including obtainment of Institutional Review Board approval, if appropriate, and subject informed consent.
29. Grantee agrees to comply with all confidentiality requirements of 42 U.S.C. section 3789g and 28 C.F.R. Part 22 that are applicable to collection, use, and revelation of data or information. Grantee further agrees, as a condition of grant approval, to submit a Privacy Certificate that is in accord with requirements of 28 C.F.R. Part 22 and, in particular, section 22.23.
30. Award recipients must verify Point of Contact(POC), Financial Point of Contact (FPOC), and Authorized Representative contact information in GMS, including telephone number and e-mail address. If any information is incorrect or has changed, a Grant Adjustment Notice (GAN) must be submitted via the Grants Management System (GMS) to document changes.
31. The grantee agrees that within 120 days of award acceptance, each current member of a law enforcement task force funded with these funds who is a task force commander, agency executive, task force officer, or other task force member of equivalent rank, will complete required online (internet-based) task force training. Additionally, all future task force members are required to complete this training once during the life of this award, or once every four years if multiple awards include this requirement. The training is provided free of charge online through BJA's Center for Task Force Integrity and Leadership (www.ctfli.org). This training addresses task force effectiveness as well as other key issues including privacy and civil liberties/rights, task force performance measurement, personnel selection, and task force oversight and accountability. When BJA funding supports a task force, a task force personnel roster should be compiled and maintained, along with course completion certificates, by the grant recipient. Additional information is available regarding this required training and access methods via BJA's web site and the Center for Task Force Integrity and Leadership (www.ctfli.org).
32. The recipient agrees to participate in BJA-sponsored training events, technical assistance events, or conferences held by BJA or its designees, upon BJA's request.
33. Approval of this award does not indicate approval of any consultant rate in excess of \$650 per day. A detailed justification must be submitted to and approved by the Office of Justice Programs (OJP) program office prior to obligation or expenditure of such funds.



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34. The grantee agrees to assist BJA in complying with the National Environmental Policy Act (NEPA), the National Historic Preservation Act, and other related federal environmental impact analyses requirements in the use of these grant funds, either directly by the grantee or by a subgrantee. Accordingly, the grantee agrees to first determine if any of the following activities will be funded by the grant, prior to obligating funds for any of these purposes. If it is determined that any of the following activities will be funded by the grant, the grantee agrees to contact BJA.

The grantee understands that this special condition applies to its following new activities whether or not they are being specifically funded with these grant funds. That is, as long as the activity is being conducted by the grantee, a subgrantee, or any third party and the activity needs to be undertaken in order to use these grant funds, this special condition must first be met. The activities covered by this special condition are:

- a. New construction;
- b. Minor renovation or remodeling of a property located in an environmentally or historically sensitive area, including properties located within a 100-year flood plain, a wetland, or habitat for endangered species, or a property listed on or eligible for listing on the National Register of Historic Places;
- c. A renovation, lease, or any proposed use of a building or facility that will either (a) result in a change in its basic prior use or (b) significantly change its size;
- d. Implementation of a new program involving the use of chemicals other than chemicals that are (a) purchased as an incidental component of a funded activity and (b) traditionally used, for example, in office, household, recreational, or education environments; and
- e. Implementation of a program relating to clandestine methamphetamine laboratory operations, including the identification, seizure, or closure of clandestine methamphetamine laboratories.

The grantee understands and agrees that complying with NEPA may require the preparation of an Environmental Assessment and/or an Environmental Impact Statement, as directed by BJA. The grantee further understands and agrees to the requirements for implementation of a Mitigation Plan, as detailed at <http://www.ojp.usdoj.gov/BJA/resource/nepa.html>, for programs relating to methamphetamine laboratory operations.

Application of This Special Condition to Grantee's Existing Programs or Activities: For any of the grantee's or its subgrantees' existing programs or activities that will be funded by these grant funds, the grantee, upon specific request from BJA, agrees to cooperate with BJA in any preparation by BJA of a national or program environmental assessment of that funded program or activity.

35. The recipient is required to establish a trust fund account. (The trust fund may or may not be an interest-bearing account.) The fund, including any interest, may not be used to pay debts or expenses incurred by other activities beyond the scope of the Edward Byrne Memorial Justice Assistance Grant Program (JAG). The recipient also agrees to obligate the grant funds in the trust fund (including any interest earned) during the period of the grant and expend within 90 days thereafter. Any unobligated or unexpended funds, including interest earned, must be returned to the Office of Justice Programs at the time of closeout.
36. JAG funds may be used to purchase vests for an agency, but they may not be used as the 50% match for purposes of the Bulletproof Vest Partnership (BVP) program.
37. Ballistic-resistant and stab-resistant body armor purchased with JAG funds may be purchased at any threat level, make or model, from any distributor or manufacturer, as long as the vests have been tested and found to comply with applicable National Institute of Justice ballistic or stab standards and are listed on the NIJ Compliant Body Armor Model List (<http://nij.gov>). In addition, ballistic-resistant and stab-resistant body armor purchased must be American-made. The latest NIJ standard information can be found here: <http://www.nij.gov/topics/technology/body-armor/safety-initiative.htm>.



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38. The recipient agrees to submit a signed certification that all law enforcement agencies receiving vests purchased with JAG funds have a written "mandatory wear" policy in effect. Fiscal agents and state agencies must keep signed certifications on file for any subrecipients planning to utilize JAG funds for ballistic-resistant and stab-resistant body armor purchases. This policy must be in place for at least all uniformed officers before any JAG funding can be used by the agency for body armor. There are no requirements regarding the nature of the policy other than it be a mandatory wear policy for all uniformed officers while on duty.
39. The recipient agrees to monitor subawards under this JAG award in accordance with all applicable statutes, regulations, OMB circulars, and guidelines, including the DOJ Financial Guide, and to include the applicable conditions of this award in any subaward. The recipient is responsible for oversight of subrecipient spending and monitoring of specific outcomes and benefits attributable to use of JAG funds by subrecipients. The recipient agrees to submit, upon request, documentation of its policies and procedures for monitoring of subawards under this award.
40. The recipient agrees that funds received under this award will not be used to supplant State or local funds, but will be used to increase the amounts of such funds that would, in the absence of Federal funds, be made available for law enforcement activities.
41. Award recipients must submit quarterly Federal Financial Reports (SF-425) and semi-annual performance reports through GMS (<https://grants.ojp.usdoj.gov>). Consistent with the Department's responsibilities under the Government Performance and Results Act (GPRA), P.L. 103-62, applicants who receive funding under this solicitation must provide data that measure the results of their work. Therefore, quarterly performance metrics reports must be submitted through BJA's Performance Measurement Tool (PMT) website (www.bjaperformancetools.org). For more detailed information on reporting and other JAG requirements, refer to the JAG reporting requirements webpage. Failure to submit required JAG reports by established deadlines may result in the freezing of grant funds and future High Risk designation.
42. Any law enforcement agency receiving direct or sub-awarded JAG funding must submit quarterly accountability metrics data related to training that officers have received on the use of force, racial and ethnic bias, de-escalation of conflict, and constructive engagement with the public.
43. BJA strongly encourages the recipient to submit annual (or more frequent) JAG success stories. To submit a success story, sign in to your My BJA account at <https://www.bja.gov/Login.aspx> to access the Success Story Submission form. If you do not yet have a My BJA account, please register at <https://www.bja.gov/profile.aspx>. Once you register, one of the available areas on your My BJA page will be "My Success Stories". Within this box, you will see an option to add a Success Story. Once reviewed and approved by BJA, all success stories will appear on the new BJA Success Story web page at <https://www.bja.gov/SuccessStoryList.aspx>.
44. Recipient understands and agrees that award funds may not be used for items that are listed on the Controlled Expenditure List at the time of purchase or acquisition, including as the list may be amended from time to time, without explicit written prior approval from BJA. The Controlled Expenditure List, and instructions on how to request approval for purchase or acquisitions may be accessed here: <https://www.bja.gov/funding/JAGControlledPurchaseList.pdf>



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45. The recipient understands that, pursuant to recommendation 2.1 of Executive Order 13688, law enforcement agencies that acquire controlled equipment through Federal programs must adopt robust and specific written policies and protocols governing General Policing Standards and Specific Controlled Equipment Standards. General Policing Standards includes policies on (a) Community Policing; (b) Constitutional Policing; and (c) Community Input and Impact Considerations. Specific Controlled Equipment Standards includes policies specifically related to (a) Appropriate Use of Controlled Equipment; (b) Supervision of Use; (c) Effectiveness Evaluation; (d) Auditing and Accountability; and (e) Transparency and Notice Considerations. Upon OJP's request, the recipient agrees to provide a copy of the General Policing Standards and Specific Controlled Equipment Standards, and any related policies and protocols.
46. Recipient understands and agrees that the purchase or acquisition of any item on the Controlled Expenditure List at the time of purchase or acquisition, including as the list may be amended from time to time, with award funds by an agency will trigger a requirement that the agency collect and retain (for at least 3 years) certain information about the use of 1) any federally-acquired Controlled Equipment in the agency's inventory, and 2) any other controlled equipment in the same category as the federally-acquired controlled equipment in the agency's inventory, regardless of source; and make that information available to BJA upon request. Details about what information must be collected and retained may be accessed here: https://www.whitehouse.gov/sites/default/files/docs/le_equipment_wg_final_report_final.pdf
47. Recipient understands and agrees that failure to comply with conditions related to Prohibited or Controlled Expenditures may result in a prohibition from further Controlled Expenditure approval under this or other federal awards.
48. Recipient understands and agrees that award funds may not be used for items that are listed on the Prohibited Expenditure List at the time of purchase or acquisition, including as the list may be amended from time to time. The Prohibited Expenditure list may be accessed here: <https://www.bja.gov/funding/JAGControlledPurchaseList.pdf>.
49. Recipient understands and agrees that, notwithstanding 2 CFR § 200.313, no equipment listed on the Controlled Expenditure List that is purchased under this award may be transferred or sold to a third party, except as described below:
- a. Agencies may transfer or sell any controlled equipment, except riot helmets and riot shields, to a Law Enforcement Agency (LEA) after obtaining prior written approval from BJA. As a condition of that approval, the acquiring LEA will be required to submit information and certifications to BJA as if it was requesting approval to use award fund for the initial purchase of items on the Controlled Expenditure List.
- b. Agencies may not transfer or sell any riot helmets or riot shields purchased under this award.
- c. Agencies may not transfer or sell any Controlled Equipment purchased under this award to non-LEAs, with the exception of fixed wing aircraft, rotary wing aircraft, and command and control vehicles. Before any such transfer or sale is finalized, the agency must obtain prior written approval from BJA. All law enforcement-related and other sensitive or potentially dangerous components, and all law enforcement insignias and identifying markings must be removed prior to transfer or sale.
- Recipient further understands and agrees to notify BJA prior to the disposal of any items on the Controlled Expenditure List purchased under this award, and to abide by any applicable laws and regulations in such disposal.
50. Recipient understands that the initial period of availability of funds for this award is two years. Recipient further understands that any requests for additional time for performance of this award, up to two additional years, will be granted automatically, pursuant to 42 U.S.C. § 3751(f) and in accordance with current fiscal year solicitation. Requests for additional time beyond a four year grant period will be subject to the discretion of the Director of the Bureau of Justice Assistance.



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AWARD DATE 09/08/2016

SPECIAL CONDITIONS

51. Recipient acknowledges that it may not expend or drawdown grant funds until it has submitted all delinquent reports for grants funded by OJP, including the 1) Federal Financial Report (SF 425); 2) annual performance reports; 3) quarterly performance metrics reports; or 4) final reports. Recipients are encouraged to contact their BJA grant manager with questions concerning these delinquent reports. All reports must be submitted electronically. Only after all of these delinquent reports have been submitted will OJP issue a Grant Adjustment Notice to remove this condition.
52. Recipient may not expend, or drawdown funds until the Bureau of Justice Assistance, Office of Justice Programs has reviewed and approved the Budget Narrative portion of the application and has issued a Grant Adjustment Notice (GAN) informing the recipient of the approval.



U.S. Department of Justice
Office of Justice Programs
Bureau of Justice Assistance

Washington, D.C. 20531

Memorandum To: Official Grant File

From: Orbin Terry, NEPA Coordinator

Subject: Incorporates NEPA Compliance in Further Developmental Stages for City of Hattiesburg

The Edward Byrne Memorial Justice Assistance Grant Program (JAG) allows states and local governments to support a broad range of activities to prevent and control crime and to improve the criminal justice system, some of which could have environmental impacts. All recipients of JAG funding must assist BJA in complying with NEPA and other related federal environmental impact analyses requirements in the use of grant funds, whether the funds are used directly by the grantee or by a subgrantee or third party. Accordingly, prior to obligating funds for any of the specified activities, the grantee must first determine if any of the specified activities will be funded by the grant.

The specified activities requiring environmental analysis are:

- a. New construction;
- b. Any renovation or remodeling of a property located in an environmentally or historically sensitive area, including properties located within a 100-year flood plain, a wetland, or habitat for endangered species, or a property listed on or eligible for listing on the National Register of Historic Places;
- c. A renovation, lease, or any proposed use of a building or facility that will either (a) result in a change in its basic prior use or (b) significantly change its size;
- d. Implementation of a new program involving the use of chemicals other than chemicals that are (a) purchased as an incidental component of a funded activity and (b) traditionally used, for example, in office, household, recreational, or education environments; and
- e. Implementation of a program relating to clandestine methamphetamine laboratory operations, including the identification, seizure, or closure of clandestine methamphetamine laboratories.

Complying with NEPA may require the preparation of an Environmental Assessment and/or an Environmental Impact Statement, as directed by BJA. Further, for programs relating to methamphetamine laboratory operations, the preparation of a detailed Mitigation Plan will be required. For more information about Mitigation Plan requirements, please see <https://www.bja.gov/Funding/nepa.html>.

Please be sure to carefully review the grant conditions on your award document, as it may contain more specific information about environmental compliance.



U.S. Department of Justice
Office of Justice Programs
Bureau of Justice Assistance

**GRANT MANAGER'S MEMORANDUM, PT. I:
PROJECT SUMMARY**

Grant

PROJECT NUMBER
2016-DJ-BX-0570

PAGE 1 OF 1

This project is supported under FY16(BJA - JAG) 42 USC 3750, et seq.

1. STAFF CONTACT (Name & telephone number)

Erich W. Dietrich
(202) 616-1733

2. PROJECT DIRECTOR (Name, address & telephone number)

Brett Benson
Grant Coordinator
308 Newman Street
P.O.Box 1898
Hattiesburg, MS 39403-1898
(601) 545-6250

3a. TITLE OF THE PROGRAM

2016 Edward Byrne Memorial Justice Assistance Grant Program

**3b. POMS CODE (SEE INSTRUCTIONS
ON REVERSE)**

4. TITLE OF PROJECT

City of Hattiesburg, Forrest County Byrne JAG Program 2016

5. NAME & ADDRESS OF GRANTEE

City of Hattiesburg
P.O.Box 1898
Hattiesburg, MS 39403-1898

6. NAME & ADDRESS OF SUBGRANTEE

7. PROGRAM PERIOD

FROM: 10/01/2015 TO: 09/30/2017

8. BUDGET PERIOD

FROM: 10/01/2015 TO: 09/30/2017

9. AMOUNT OF AWARD

\$ 19,703

10. DATE OF AWARD

09/08/2016

11. SECOND YEAR'S BUDGET

12. SECOND YEAR'S BUDGET AMOUNT

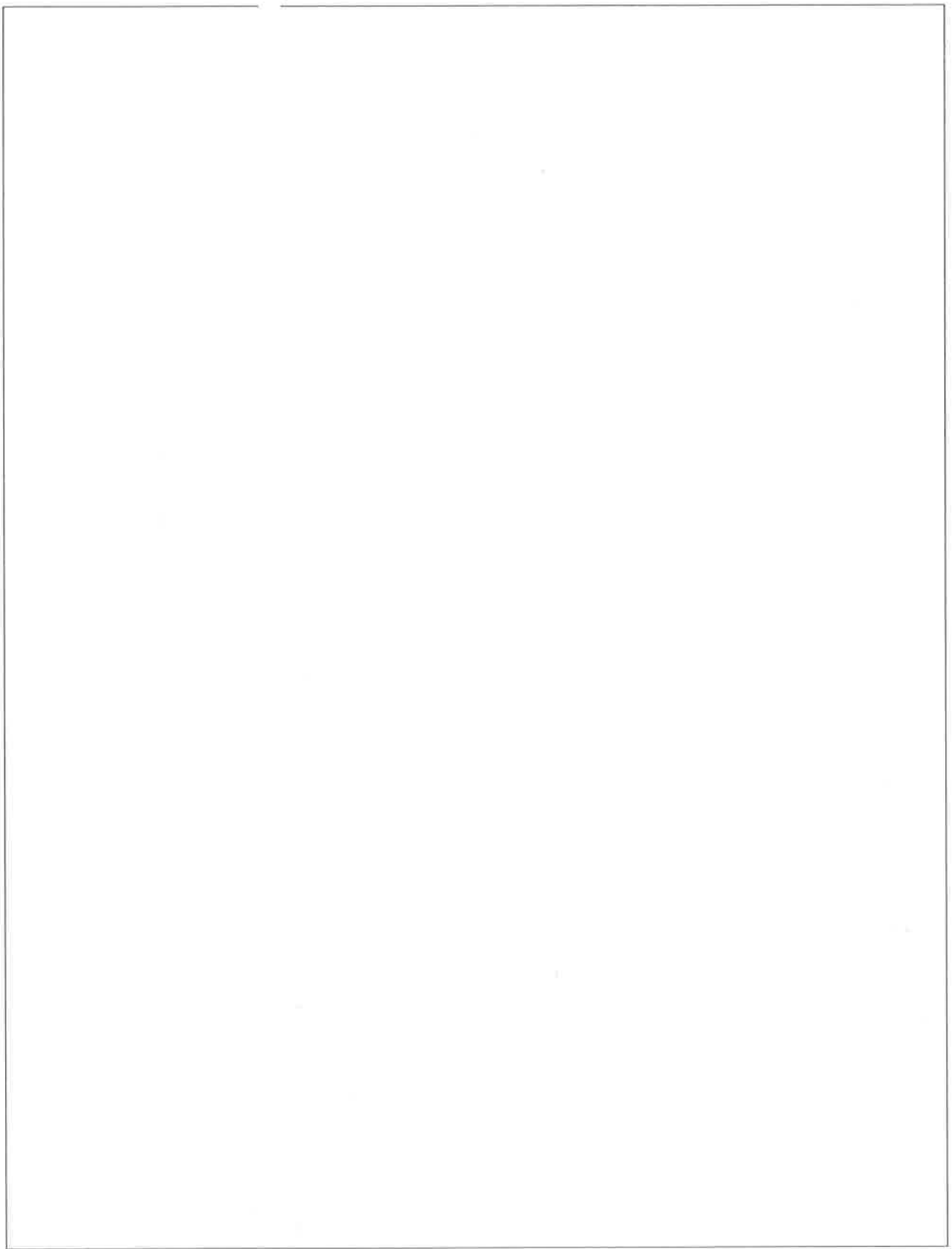
13. THIRD YEAR'S BUDGET PERIOD

14. THIRD YEAR'S BUDGET AMOUNT

15. SUMMARY DESCRIPTION OF PROJECT (See instruction on reverse)

The Edward Byrne Memorial Justice Assistance Grant Program (JAG) allows states and units of local government, including tribes, to support a broad range of activities to prevent and control crime based on their own state and local needs and conditions. Grant funds can be used for state and local initiatives, technical assistance, training, personnel, equipment, supplies, contractual support, and information systems for criminal justice, including for any one or more of the following program areas: 1) law enforcement programs; 2) prosecution and court programs; 3) prevention and education programs; 4) corrections and community corrections programs; 5) drug treatment and enforcement programs; 6) planning, evaluation, and technology improvement programs; and 7) crime victim and witness programs (other than compensation).

The disparate jurisdictions will utilize the JAG award to enhance law enforcement operations. Funds will be used to purchase firearms, radios, sonar equipment, and fingerprinting equipment. NCA/NCF



MEMORANDUM OF UNDERSTANDING

City of Hattiesburg, Mississippi

Forrest County, Mississippi

RE: 2016 Byrne Justice Assistance Grant Local Solicitation funding cycle

This agreement meets the disparate jurisdiction finding requirement as mandated by the U.S. Department of Justice (USDOD) Byrne Justice Assistance Grant (JAG).

This Memorandum of Understanding between Forrest County, and the City of Hattiesburg covers the Byrne Justice Assistance Grant 2016 grant cycle in the amount of \$19,703. Both city and the county proposed program budgets comply with all USDOD expenditure guidelines, certifications and assurances for this grant program and should not require any waivers.

The City of Hattiesburg will act as fiscal agent for USDOD Byrne JAG including drawing down funds that will be divided as follows: (60%) Hattiesburg - \$11,822.00; (40%) Forrest County - \$7881.00.

Chief
Hattiesburg Police Department

Sheriff
Forrest County, Mississippi

Mayor
Hattiesburg

Board President
Forrest County, Mississippi

Date

ABSTRACT

TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

This is information concerning the 2016 Byrne Justice Assistance Grant to the U.S. Department of Justice totaling \$19,703.00. Due to a determination that Hattiesburg, and Forrest County meet the criteria of a disparate jurisdiction status by USDOJ the city and county have agreed on how to disperse the funds and that the City of Hattiesburg will act as fiscal agent for the grant.

Due to the small amount of the funding both parties have agreed to waive any reimbursement for administrative costs associated with the grant. All funds will be used towards equipment purchases aimed at a programmatic goal of improving delivery of community-oriented policing to residents of the city and county.

As fiscal agent for the grant the City of Hattiesburg will receive the funds and disperse them as follows:

- Forrest County \$7,881.00 (100% equipment)
- City of Hattiesburg \$11,822.00 (100% equipment)

Forrest County is seeking to use its funds to improve its officer equipment with the purchase of:

- | | |
|---|---------------------|
| • radios for the county jail | under Identifiers: |
| • sonar equipment for Search and Rescue | EQUIPMENT- JAIL |
| • Fingerprinting equipment | EQUIPMENT- GENERAL |
| | EQUIPMENT- FORENSIC |

The City of Hattiesburg is seeking to use its funds to purchase:

RIFLES of .223 CAL. Under the Identifier: EQUIPMENT - TACTICAL---

Prepared on behalf of the City of Hattiesburg and Forrest County, MS

Brett R. Benson, Grant Coordinator, City of Hattiesburg

PROGRAM NARRATIVE

TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

This is information concerning the 2016 Byrne Justice Assistance Grant to the U.S. Department of Justice totaling ~~\$17,435.00~~ ^{\$19,703.00}. Due to a determination that Hattiesburg, and Forrest County meet the criteria of a disparate jurisdiction status by USDOJ the city and county have agreed on how to disperse the funds and that the City of Hattiesburg will act as fiscal agent for the grant.

Due to the small amount of the funding both parties have agreed to waive any reimbursement for administrative costs associated with the grant. All funds will be used programmatically towards equipment purchases aimed at a goal of improving delivery of community-oriented policing to residents of the city and county.

As fiscal agent for the grant the City of Hattiesburg will receive the funds and disperse them as follows:

- Forrest County (40%) - \$7,881.00. (100% equipment)

- City of Hattiesburg (60%) - \$11,822.00 (100% equipment)

The City of Hattiesburg will use its funds toward purchase of twenty (20) M4 SCOUT RIFLE w/ 16 inch barrel 5.56/.223 A2 Front Sight at a cost of \$631.10 each.

This will improve safety, efficiency and the effectiveness of officers in by providing additional defense capability in situations when they are required to use their weapon.

Forrest County will use its funds to improve capabilities of the following departments:

1. County Jail through purchase of additional officer radios.
2. Search and Rescue Underwater Dive Team through purchase of sonar system to assist with underwater recovery of victims and evidence.
3. Fingerprinting kits with tape to assist county forensic units with recovery of fingerprint evidence.

Prepared on behalf of the City of Hattiesburg and Forrest County, MS

Brett R. Benson, Grant Coordinator, City of Hattiesburg

CITY OF HATTIESBURG:

Budget Review

TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

BUDGET

Equipment

- EQUIPMENT – Tactical
 - .223 cal. rifles

\$11,822.00 Federal

+\$ 0	Local
\$ 11,822.00	

Prepared on behalf of the City of Hattiesburg and Forrest County, MS

Brett R. Benson, Grant Coordinator, City of Hattiesburg

FORREST COUNTY:

Budget Review

TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

BUDGET: COST Estimate

Forrest County is seeking to use its funds to improve its officer equipment with the purchase of:

- radios for the county jail
- sonar equipment for Search and Rescue
- Fingerprinting equipment

under Identifiers:
EQUIPMENT- JAIL
EQUIPMENT- GENERAL
EQUIPMENT- FORENSIC

Total \$7,881.00

- vehicle

Total grant \$7,881.00.

Prepared on behalf of the disparate jurisdiction

Brett R. Benson, Grant Coordinator, City of Hattiesburg

Budget Narrative

TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

CITY OF HATTIESBURG

BUDGET COST The City of Hattiesburg is seeking to use its funds to purchase rifles for vehicles. The goal is to increase tactical capabilities of patrol units/officers. The balance of any units purchased will come from the city's general fund.

RIFLES of .223 CAL. Under the Identifier: EQUIPMENT - TACTICAL---

Equipment

• EQUIPMENT	Grant	\$11,822.00
-------------	-------	-------------

•	Cost	=\$11,822.00
---	------	--------------

Budget Narrative

Prepared on behalf of the disparate jurisdiction

Brett R. Benson, Grant Coordinator, City of Hattiesburg

Forrest County, Mississippi: Budget Narrative
TITLE: Hattiesburg & Forrest County USDOJ Byrne JAG Project 2016

2016-H3552-MS-DJ

#07 944 8130 City of Hattiesburg Duns & Bradstreet ID

Budget: Byrne 2016
 Forrest County \$ 7,881.00

Equipment: Corrections vehicle

Budget Narrative:

The Forrest County Sheriff's Department is currently seeking to update its existing capabilities through the upgrading of current equipment by expansion of the jail radio communications, underwater search and rescue and forensic unit.

The goal is to improve Forrest County Sheriff's Corrections Department response to needs of officers and defendants and improve community corrections, S&R and evidence-based policing for the residents of Forrest County. The balance of the costs of the equipment will come from the county's general fund.

Any unused funds will remain to City of Hattiesburg and Forrest County, MS

Prepared on behalf of the disparate jurisdiction

Brett R. Benson, Grant Coordinator, City of Hattiesburg



CITY OF HATTIESBURG
P. O. BOX 1898
HATTIESBURG, MS 39403-1898

Depository Services Proposal

Submitted by



January 19, 2017

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Executive Summary

On behalf of Regions Bank, thank you for the opportunity to submit the following proposal in response to City of Hattiesburg's Request for Proposal - Depository Services. We have read the provided documents, Mississippi Code of 1972 and will comply with the laws of the State of Mississippi.

Regions provides a complete line of products and services to the public sector client base. This client base is defined as governmental entities, large non-profit entities, healthcare, and higher education. We have an in-depth knowledge of public policy issues and legislation. Regions understands the fiduciary responsibility in the management of your financial resources.

We have a multi-functional relationship team of bankers to service your financial needs. Investment management, trust services, cash management, investment banking and information systems are combined for greater efficiencies in meeting our clients' needs.

Regions is committed to providing quality service to our governmental agencies and currently has a significant portfolio of governmental clients.

Key Areas of the RFP

- (1) Online Banking**
- (2) Wire Transfer and ACH Services**
- (3) Customer Service and Support**
- (4) About Regions Bank**
- (5) Pricing**
- (6) Additional Services**

Proposed Solutions and Benefits

Regions is positioned to exceed City of Hattiesburg's expectations in each service area noted above.

We have provided details on each of the key areas listed above in our response to your proposal request. While we can certainly deliver the minimal services required by the City of Hattiesburg, Regions has so much more to offer its commercial, government and corporate clients. Along with providing details on the services required, we are including information on additional products and services, which could benefit the City of Hattiesburg by streamlining operations and possibly improving your cash flow.

It is important to note that our proposed interest rate for interest bearing accounts is .40%, while any non-interest bearing accounts will qualify for earnings credit @ .22% to help offset fees. Any combination of interest bearing and non-interest bearing accounts can be utilized by the City of Hattiesburg.

Regions Bank has over \$6 billion in deposits with the #2 market share among banks in the state of Mississippi. Contained in this proposal is information about Regions Bank, our history, rankings, and financial strength.

The relationship team for the City of Hattiesburg represents many years of experience and knowledge. Regions' executive management team for South Mississippi is based in Hattiesburg with Greg Garraway and John Griffith representing more than fifty-four years of experience, collectively. Jim Wild will serve as the overall Relationship Manager and John Fraiser will serve as the primary contact for all treasury management needs. Other commercial and treasury management team members will provide additional support.

Minimum Services Required

Online Banking

Regions Bank has offered online banking and information reporting to its clients for over 30 years.

iTreasury, Regions online banking system, is available through Regions OnePass, a single, secure logon portal to access commercial online services. OnePass consolidates the login authentication process eliminating the need to manage multiple sets of user credentials. The portal also provides enhanced security against unauthorized access with Regions Out-of-Band Authentication (ROOBA).

Regions' iTreasury suite of services is available for the City to meet your daily on-line banking and information reporting needs. iTreasury provides an electronic window to your bank accounts through any computer with access to the Internet, and gives you the tools required to manage your accounts from one point of control.

iTreasury can be utilized to perform the following activities:

- Access an executive view of real-time account balances and activity on a convenient Dashboard
- Review all previous and current day transactions
- Review intraday cash position
- Initiate ACH transactions with a variety of ACH modules
- Initiate Domestic and International (FX and USD) Wire Transfers
- Generate an assortment of cash management reports
- Initiate internal Account Transfers in real-time
- Initiate Stop Payments in real-time
- Import Positive Pay files of issues/voids and review/decision exception items
- Enter manual issues/voids for Positive Pay if needed
- View paid check images
- View deposit ticket and deposited item images
- Export data (comma delimited, fixed format or BAI2)
- Export data utilizing Quicken or QuickBooks
- Utilize data exchange information
- Establish specific Alerts such as balance thresholds, transactions clearing, ACH batches releases, outgoing wires, and Positive Pay exceptions

Online Banking System Security:

The iTreasury (online information reporting system) security controls are as follows:

- Utilizes 128-bit Secure Socket Layer (SSL) strong encryption for the highest level of data encryption, message integrity and server authentication.
- Provides strong multi-factor authentication at login and at monetary release utilizing the OnePass.
- Employs intrusion detection software to assist with the security and protection of the application.

The Regions OnePassSM commercial online services gateway introduced recently, will provide a single, secure logon portal to access all commercial online services.

iTreasury Features are included as an attachment.

Wire Transfers

Regions Bank will process all incoming and outgoing wire transfers for the City.

The Bank's iTreasury Wire Transfer service can provide City of Hattiesburg with the most immediate, reliable, and secure funds transfer solution available. Using a standard web browser, City of Hattiesburg can access this Internet based Wire Transfer service from virtually anywhere in the world. Because wire transfers are often high-dollar, time-sensitive transactions, Regions provides you with an experienced, proven support staff with the most up-to-date technology and system capabilities. These resources are dedicated to ensuring timely and accurate delivery of all your wire transfers.

Using iTreasury Wire, you can:

- Initiate Repetitive and Non-Repetitive wire transfers
- Originate domestic and international wire transfers
- Designate individuals to initiate, approve and release a wire
- Use the Wire Activity report to see summary or detailed information for incoming outgoing wire transfers
- View the status of your outgoing wire transfers
- Wire Transfer requests are processed in real-time

The Bank's iTreasury Wire Transfer service provides the City of Hattiesburg with safe and secure processing, and supports a full range of Federal Reserve wires, internal transfers, and special reporting capabilities.

Security: iTreasury Wire Transfer services provides City of Hattiesburg with the highest standards of security available by establishing security codes and procedures tailored to City of Hattiesburg's wire transfer needs and volumes. The on-line wire system requires logon credentials (Customer ID, User ID, and Password), along with strong multi-factor authentication at login and at monetary release utilizing OnePass. Regions Bank also provides a full range of repetitive and non-repetitive transfer templates that can be assigned to specific personnel.

- **Initiation:** Only those individuals who are authorized to initiate a wire will be allowed to do so. This is controlled by presented limited options based upon the setup requests you provide to Regions. Once a wire is initiated, you can request that separate individuals be used to approve and/or release the wires. iTreasury wires can be set up to require as many as 3 approvals before an outgoing wire is initiated through the on-line system.
- **Reporting Capabilities:** iTreasury Wire reporting provides real-time reporting to you via the wire activity report, wire history and current day reporting.

The deadline for outgoing wire initiation via telephone and the Bank's on-line banking system, iTreasury, is 4:00PM CST. Incoming Domestic Wires received by 5:00PM CST will be credited to City of Hattiesburg's account on the same day. All wire activity is reported on the Bank's on-line banking system, iTreasury, through current day and intraday balance reporting and the wire activity report.

ACH (Automated Clearing House)

Regions Bank will provide the necessary ACH services to the City allowing for the transfer of funds and to accept and/or debit funds from bank accounts owned by other individuals or organizations.

Regions offers the following origination options:

- Internet-based system input and transmission – iTreasury
- Direct transmission of a NACHA, ANSI X12 or proprietary file
- Third Party Processor such as Ceridian or ADP

Regions' clients use the following products and services to originate ACH transactions:

- Internet-based system input and transmission = (93.7%)
- Direct transmission = (4.1%)
- Third Party Processor = (2.0%)

iTreasury ACH Services

Regions Bank offers initiation and monitoring of ACH transactions through direct transmission, and various modules of iTreasury ACH. Regions accepts all NACHA formatted transactions for a number of applications including direct deposit of payroll, cash concentration, internal transfers, vendor payments, consumer collections, and state/federal tax payments. ACH files should be transmitted to the Bank no later than 8:00 PM CST and at least one business day prior to the effective date. Regions Bank strongly recommends that all ACH files be delivered to the bank two business days prior to the effective date. Regions can also warehouse transactions for up to thirty days.

iTreasury ACH

The iTreasury suite of services enables the City to initiate ACH transactions with a variety of ACH modules whenever and wherever by leveraging the ease of access provided by the Internet. Regions iTreasury service provides many significant and measurable benefits to the City's Treasury Management activity, including:

- Initiate direct deposit, consumer debits and credits, cash concentration and disbursement or even vendor payments in easy to use ACH screens pre-defined for that specific application.
- Data import simplifies ACH origination.
- Security features to ensure appropriate entry, review, and release of ACH and wire transactions.
- Leverages the convenience and efficiency of the Internet in accessing cash management activity with no software installation.
- Gives peace of mind in using the Internet by providing state-of-the-art security capabilities.
- Provides experienced professionals to assist with the iTreasury Internet Banking Service.

- Allows you to transmit ACH files to Regions, whether they are in a valid or non-valid NACHA format.

Account Statements

The **monthly bank statements** for accounts are generated on the last day of the month and mailed within 5 business days. In addition, the bank statement is available on-line via iTreasury the following business day after the statement cut-off.

Statement content includes a summary of Beginning and Ending balances for the month along with detailed Deposit, Credit, and Withdrawal information. Included in the detailed information is a transaction type with description, date, and amount. In addition, a Daily Balance Summary is included providing end of day balances by business day.

Separate statements will be provided for each account.

A sample statement is included as an attachment.

Account Analysis statements are produced on the 7th calendar day of the month, or the preceding Friday, if the 7th falls on a weekend or holiday. The paper statement is mailed, on request, the following business day. In addition, Account Analysis statements are currently available through EDI 822 transmission and iTreasury.

Analysis statements are available via iTreasury. The statements are available for 6 months.

Online Statement Monthly Reports are available for 3 years via iTreasury.

A sample account analysis statement is included as an attachment.

Customer Service and Support

At Regions, we take a team approach to relationship management. A primary relationship manager will be assigned to your accounts. The relationship manager and his assistant will work with other partners to ensure that the proper product set for optimum efficiency is in place for your company or agency. Those other partners may include, the Treasury Management Officer, Regions Trust Officer, Regions Insurance, Regions Merchant Services, and Global Trade Finance to name a few.

Additionally, our Relationship Managers have a systemized process called CashCor for engaging our clients and prospects in a disciplined discussion of their cash operating cycle in order to make recommendations for overall improvement of City of Hattiesburg's operations, banking and cash management, and products and services utilized.

Regions also has a group dedicated to meeting the needs of public, institutional, and nonprofit agencies. Regions Government and Institutional Banking, commonly referred to as "GIB", is housed within our Business Services division under Commercial and Industrial banking. GIB relationship teams specialize in understanding the unique financial needs of the following types of entities:

- educational institutions

- nonprofit organizations
- state, county, and local governments

Some distinctive characteristics of GIB clients include:

- heavy use of deposit and treasury management services
- relative insulation from the economic/credit cycle
- unique credit underwriting considerations, fund accounting GAAP, and special applications of the tax code and tax exempt bond market products

Support and Implementation of services:

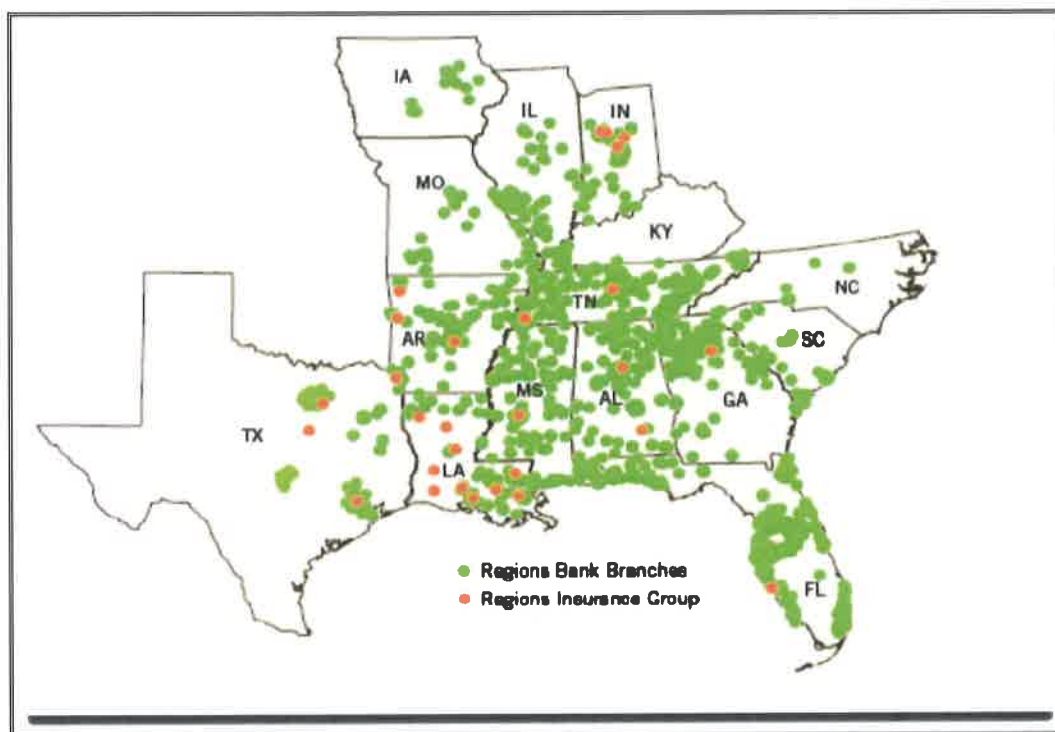
Your Relationship Manager and Treasury Services Officer will manage the implementation process and will provide all necessary training, support, and technical assistance throughout the term of the contract. As well, they will keep you abreast of new products and services and any enhancements to your existing products and services. We also have teams dedicated to certain functions with regard to training and implementation who will also work with the City of Hattiesburg during the process.

Client Technical Services is a dedicated team within the Client Services area. This team of representative is assigned to assist clients with questions related to the iTreasury internet banking platform. This group is engaged, if the Client Services representatives are unable to resolve an issue related to iTreasury. The technical support group is available 8:00 a.m. to 6:00 p.m. CST, Monday through Friday.

Regions Bank Qualifications

- Headquarters: Birmingham, Alabama
- Among the largest U.S. financial services providers
- Approximately \$126 billion in assets
- More than 23,000 employees
- 15-state footprint
- Strong corporate banking presence, including:
 - Syndications
 - Treasury Services
 - Leasing
 - Insurance
- Included in the S&P 500 and Forbes “Platinum” 400

Regions Bank Geographic Footprint:



Regions Financial Corporation serves customers in 15 states. Over 23,000 employees serve clients from over 1,600 banking offices and 2,000 ATM machines.



REGIONS FINANCIAL CORPORATION



Company Profile

Regions Financial Corporation (NYSE: RF), with \$126 billion in assets, is a member of the S&P 500 Index and is one of the nation's largest full-service providers of consumer and commercial banking, wealth management, mortgage, and insurance products and services. Regions serves customers across the South, Midwest, and Texas, and through its subsidiary, Regions Bank, operates approximately 1,600 banking offices and 2,000 ATMs. Additional information about Regions and its full line of products and services can be found at www.regions.com.

History

Regions Financial Corporation was formed in 1971 as First Alabama Bancshares Inc., Alabama's first multibank holding company. With the combination of three well-respected banks, the holding company began operations with a total of \$543 million in assets and 40 banking locations in Birmingham, Huntsville, and Montgomery.

The company was renamed Regions Financial Corp. in 1994 to better reflect its growing presence throughout the South. Its merger with Memphis, Tenn.-based Union Planters Corp. took place in July 2004, creating a Top 15 U.S. bank. Its merger with AmSouth Bancorporation on November 4, 2006, created a Southeast-based financial powerhouse ranking as one of the top 10 banks in the nation. Serving some 5 million households throughout the South, Midwest and Texas, Regions is a full-service provider of retail and commercial banking, wealth management, mortgage, and insurance products and services.

Retail and Commercial Banking

Regions Bank is a full-service institution with a full range of financial products and services in the areas of wealth management, mortgage banking, and insurance, in addition to traditional banking products and services. The bank operates in approximately 1,600 offices and a 2,000-ATM across Alabama, Arkansas, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, and Texas.

Commercial banking at Regions has expanded to mean not only increased lending capacity and a responsive credit approval process, but enhanced treasury management and international products, as well. Regions offers its commercial banking customers a full range of capital markets and investment banking products and services, as well as permanent loan placements, public finance, corporate finance and merger and acquisition products and services, and risk management products such as interest rate derivatives.

Within the Hattiesburg Metro Area, Regions has six branch locations:

- Arbor Branch – 4800 Hardy Street, Hattiesburg, MS
- Front Street Branch – 130 West Front Street, Hattiesburg, MS
- Hattiesburg Main Branch – 202 South 40th Avenue, Hattiesburg, MS
- Petal Main Branch – 120 South Main Street, Petal, MS
- Turtle Creek Mall Branch – 1000 Turtle Creek Drive, Hattiesburg, MS
- West Broadway Branch - 1491 Broadway Drive, Hattiesburg, MS

Facts about Regions

- Regions, which trades on the New York Stock Exchange under ticker symbol RF, ranks on the Fortune 500 listing of America's largest companies.
- Regions is a member of the Identity Theft Assistance Corp., a non-profit consortium of financial institutions piloting an Identity Theft Assistance Center (ITAC) that helps fight identity theft and assists consumers who have been affected by the crime.
- Regions is a member of the S&P 500 Index.
- Ranked #1 among all measured banks based on the 2015 American Customer Satisfaction Index Retail Banking Study.

Strong capital and solid liquidity

Regions' Basel III Common Equity Tier 1 is estimated at 10.8% and Tier 1 Capital ratio is estimated at 11.7%. ending September 30, 2016.*

*To be well capitalized per federal regulations, an insured depository institution would be required to maintain a total risk-based capital ratio equal to or greater than 10 percent; a tier 1 capital ratio equal to or greater than 8 percent; a common equity tier 1 capital ratio equal to or greater than 6.5 percent; and a leverage ratio equal to or greater than 5 percent.

Regions Bank National Ranking

Total Assets of Top 20 U.S. Banks

Rank	Institution Name	Location	Total Assets
1	JPMORGAN CHASE & CO.	COLUMBUS, OH	\$2,051,004
2	WELLS FARGO & COMPANY	SAN FRANCISCO, CA	\$1,699,435
3	BANK OF AMERICA CORPORATION	CHARLOTTE, NC	\$1,657,878
4	CITIGROUP INC.	NEW YORK, NY	\$1,365,660
5	U.S. BANCORP	CINCINNATI, OH	\$433,463
6	PNC FINANCIAL SERVICES GROUP, INC.	WILMINGTON, DE	\$350,224
7	BANK OF NEW YORK MELLON	NEW YORK, NY	\$298,719
8	CAPITAL ONE FINANCIAL CORPORATION	MCLEAN, VA	\$278,661
9	TD GROUP US HOLDINGS LLC	WILMINGTON, DE	\$255,727
10	STATE STREET CORPORATION	BOSTON, MA	\$251,261
11	BB&T CORPORATION	WINSTON SALEM, NC	\$217,159
12	HSBC NORTH AMERICA HOLDINGS INC.	MCLEAN, VA	\$206,206
13	SUNTRUST BANKS, INC.	ATLANTA, GA	\$194,679
14	GOLDMAN SACHS GROUP, INC.	NEW YORK, NY	\$160,666
15	CHASE BANK USA	WILMINGTON, DE	\$146,939
16	FIFTH THIRD BANCORP	CINCINNATI, OH	\$141,112
17	MORGAN STANLEY	SALT LAKE CITY, UT	\$135,608
18	REGIONS FINANCIAL CORPORATION	BIRMINGHAM, AL	\$125,256
19	M&T BANK CORPORATION	BUFFALO, NY	\$123,130
20	NORTHERN TRUST CORPORATION	CHICAGO, IL	\$121,145

Last Updated: June 30, 2016

Regions Bank Commitment to Excellence and Quality Service

Commercial banking at Regions has expanded to mean not only increased lending capacity and a responsive credit approval process, but enhanced treasury management and international products, as well. Regions offers its commercial banking customers a full range of capital markets and investment banking products and services, as well as permanent loan placements, public finance, corporate finance and merger and acquisition products and services, and risk management products such as interest rate derivatives

Regions Bank has the expertise and resources required by the *City of Hattiesburg*. Our associates aligned with the *City of Hattiesburg* relationship are leaders in the industry and many carry distinguished certifications as Certified Treasury Professional, Accredited ACH Professional, as well as participate in continuing education and help lead industry developments.

Quality Management is a critical aspect in Regions' service to our clients. For each major service area, Service Level Agreements (SLAs) are established and then monitored to maintain high levels of performance. Regions also conducts partnership reviews with key stakeholders for these processes on an ongoing basis. As variations in performance against expected results are identified, root cause analysis is performed to determine opportunities to improve results and reduce the variability of errors. Any systemic issues are monitored for resolution by the Root Cause Roundtable, a sub-committee of Regions enterprise wide Customer Experience Forum. This monthly executive committee is responsible for overall Customer Excellence, monitors trends and ensures overall corporate support is provided if incremental resources are required.

Treasury Management relies extensively on Voice of the Customer feedback which is collected by our Client Services teams, where direct customer issues are identified and escalated for immediate remediation. This data is continuously reviewed for trends and opportunities for improvement.

Additionally, Regions subscribes to several independent survey processes to collect customer feedback on quality performance and to benchmark with major competitors ensuring that products and service delivery remain competitive and meet customer needs.

Regions has once again been recognized for our commitment to quality service. Greenwich Associates awarded Regions 10 national 2015 Excellence Awards for Small Business Banking and two national 2015 Excellence Awards for Middle Market Banking (which represents Commercial Banking). Additionally, most these awards, across both business segments, are for specific Treasury Management performance categories. This recognition is the result of our associates' focus on creating a differentiated experience for our clients and meeting their needs through Regions360.

Greenwich Excellence Awards Categories:

The Small Business Banking awards were in the categories of:

- Likelihood to Recommend
- Branch Satisfaction
- Industry Expertise
- Relationship Manager Performance



- **Cash Management** - Overall Satisfaction
- **Cash Management** - Accuracy of Operations
- **Cash Management** - Customer Service
- **Cash Management** - Sales Specialist Performance
- Digital Functionality
- Ease of Product Implementation

The Middle Market Banking awards were in the categories of:

- **Cash Management** - Overall Satisfaction
- **Cash Management** - Accuracy of Operations



Regions Named Greenwich Best Brand in 2015

Regions continues to be recognized by our customers for providing distinctive service by being named in the Greenwich Best Brand Awards. The bank was recently awarded Greenwich Best Brand for Small Business, which includes businesses with sales between \$1-10 million.

Greenwich evaluated the performance of more than 750 brands between January and September 2015 to determine the award winners. Regions was one of just twenty-one to be recognized as a Best Brand winner.

Best Brand Awards are based on an overall brand rating and feedback from customers and non-customers alike on whether they would consider a specific institution for a lending, cash management or trade financing products or would consider the brand trustworthy and easy to do business with.

AMERICAN BANKER.



Regions Bank has the best overall reputation among top U.S. banks and the best reputation among customers for the second consecutive year according to a newly released survey from advisory firm Reputation Institute and the American Banker Magazine.

Regions Bank has an “excellent” reputation ranking, as defined by the Reputation Institute, and received the highest overall score as well as the highest score among customers in the annual survey. Regions ranked second among non-customers.

Regions Chairman, President and CEO Grayson Hall said, “We are pleased to be ranked the most reputable U.S. bank overall by the Reputation Institute and to once again receive the top ranking among customers. We are fortunate to have some of the best associates in the industry who dedicate themselves to providing an outstanding customer experience. Our associates are making a positive difference for our customers and communities, and I am proud that our team was recognized for that.”



Results from continuing operations unless otherwise noted

Financial Highlights

Balance Sheet (\$000)	12/31/15	12/31/14
Total Loans, Gross	\$81,162,000	77,307,000
Less: Allowance for Loan & Lease Losses	(1,106,000)	(1,103,000)
Total Loans, Net	80,056,000	76,204,000
Intangible Assets	5,099,000	5,103,000
Total Assets	126,050,000	119,563,000
Total Deposits	98,430,000	94,200,000
Total Borrowings	8,359,000	5,715,000
Total Equity	16,844,000	16,873,000
Total Shares Outstanding	1,288,000,000	1,354,000,000

Income Statement (\$000)	12/31/15	12/31/14
Net Interest Income	3,307,000	3,280,000
Provision for Loan Losses	241,000	69,000
Net Interest Income after Provision	3,066,000	3,211,000
Total Noninterest Income	2,071,000	1,903,000
Total Noninterest Expense	3,629,000	3,432,000
Income Before Taxes	1,508,000	1,599,000
Provision for Income Taxes	455,000	457,000
Income from Continuing Operations	1,075,000	1,134,000
Income from Discontinued Operations	-13,000	13,000
Net Income	1,062,000	1,147,000

Per Share Items (\$)	12/31/15	12/31/14
Dividends per Share-Common Stock	\$ 0.23	0.18
EPS from Continuing Operations - Basic	0.76	0.79
EPS from Continuing Operations - Diluted	0.76	0.79
EPS As Reported - Basic	0.75	0.80
EPS As Reported - Diluted	0.75	0.80
Book Value/Share - As Reported	12.35	11.81

Profitability Ratios (%)	12/31/15	12/31/14
Return on Assets - As Reported	0.83	0.91
Return on Equity - As Reported	8.96	10.00
Net Interest Margin - As Reported	3.13	3.21
Efficiency Ratio	64.87	64.45

Capital Adequacy Ratios (%)	12/31/15	12/31/14
Tier 1 Capital Ratio (%)	11.65	12.54
Total Capital Ratio (%)	13.88	15.26
Leverage Ratio (%)	10.25	10.86
Tangible Equity/Tangible Assets	9.13	9.66



Regions Bank Debt Rating

	As of September 30, 2016			
	S&P	Moody's	Fitch	DBRS
Regions Financial Corporation				
Senior notes	BBB	Baa3	BBB	BBB
Subordinated notes	BBB-	Baa3	BBB-	BBBL
Regions Bank				
Short-term debt	A-2	P-2	F2	R-1L
Long-term bank deposits	N/A	A3	BBB+	BBBH
Long-term debt	BBB+	Baa3	BBB	N/A
Subordinated debt	BBB	Baa3	BBB-	BBB
Outlook	Stable	N/A	Stable	Positive

N/A - Not applicable.

Regions Bank Debt Rating

	As of December 31, 2015			
	S&P	Moody's	Fitch	DBRS
Regions Financial Corporation				
Senior notes	BBB	Baa3	BBB	BBB
Subordinated notes	BBB-	Baa3	BBB-	BBBL
Regions Bank				
Short-term debt	A-2	P-2	F2	R-1L
Long-term bank deposits	N/A	A3	BBB+	BBBH
Long-term debt	BBB+	A3	BBB	BBBH
Subordinated debt	BBB	Baa3	BBB-	BBB
Outlook	Stable	Stable	Stable	Positive

In general, ratings agencies base their ratings on many quantitative and qualitative factors, including capital adequacy, liquidity, asset quality, business mix, probability of government support, and level and quality of earnings. Any downgrade in credit ratings by one or more ratings agencies may impact Regions in several ways, including, but not limited to, Regions' access to the capital markets or short-term funding, borrowing cost and capacity, collateral requirements, and acceptability of its letters of credit, thereby potentially adversely impacting Regions' financial condition and liquidity. See the "Risk Factors" section in the Annual Report on Form 10-K for the year ended December 31, 2015 for more information.

A security rating is not a recommendation to buy, sell or hold securities, and the ratings are subject to revision or withdrawal at any time by the assigning rating agency. Each rating should be evaluated independently of any other rating.

The Regions Bank Team



Regions Bank's Basic Values of Banking are the principles we live by daily. They include:

- Put People First
- Do What Is Right
- Focus On Your Customer
- Reach Higher
- Enjoy Life

We take these values seriously, and Regions' Relationship Team will go out of its way to exceed your needs.

Your primary contact for customer service and problem resolution is your Relationship Manager. If your Relationship Manager or their assistant is unable to respond to your inquiry, they will contact the Client Services department.

Bank Contacts:

Primary Contacts and Relationship Manager: *Jim Wild*

Relationship Banking Assistant: *Carla S. Biedenharn*

Treasury Management Officer: *John Fraiser*

Treasury Management Assistant: *Tandi Pevey*

Regions Bank's Client Services is also available for your daily needs. Our Client Services department is dedicated exclusively to our commercial and treasury management clients. Client Services assigns a team of specialists to respond to all inquiries regardless of the product. This research team is dedicated to your inquiries, ensuring a quick and knowledgeable response to your day-to-day service needs. The department observes Regions' bank-wide "sun down" policy of responding to all customer inquiries during the same business day. Regions' average resolution time is less than 24 hours. Regions provides the toll free number below for inquiries. The customer service representatives are available 7:00 a.m. to 6:00 p.m. CST. We also accept fax and email inquiries.

Treasury Management Customer Service:

Phone: 800-787-3905

Fax No: 205-581-7028

Email: clientservicesgroup@regions.com

Proposal Pricing

<u>Service Description</u>	<u>Price</u>
Monthly Account Maintenance Fee	\$ 9.00
Electronic Debits	.15
Electronic Credits	.15
Deposits – Credits	.37
Items Deposited - On Us	.08
Items Deposited - Transit	.09
Return Item Deposited	6.00
Stop Payment Online	20.00
Checks Paid - Debits	.15
Branch Cash Deposit per \$100 (No charge for first \$5,000)	.15
Incoming Wire Transfer	9.00
ACH per Debit Transaction	.11
ACH per Credit Transaction	.11
ACH Return	3.00
ACH Notification of Change	2.00
iTreasury Previous Day Monthly Maintenance (includes 5 accounts)	45.00
iTreasury Previous Day - Per Additional Account	3.50
iTreasury per User Fee (\$30.00 maximum charge)	3.00
iTreasury Information Reporting per Item (No charge for first 500)	.02
iTreasury ACH Module Monthly Maintenance	45.00
iTreasury ACH per Batch	1.00
iTreasury Stop Payment Monthly Maintenance (includes 5 accounts)	15.00
iTreasury Stop Payment – Per Additional Account	3.00
iTreasury Wire Transfer Module Monthly Maintenance	45.00
iTreasury Outgoing Domestic Wire	12.00

Rates

Interest Bearing Accounts

Interest Rate	.40%
---------------	------

Non-Interest Bearing Accounts

Earnings Credit Allowance	.22%
---------------------------	------

Administrative Balance Fee	.06%
----------------------------	------

Proposal Attachments

Information and Sample Documents

iTreasury Online Banking and Information Reporting Features

Sample Monthly Bank Statement

Sample Account Analysis Statement

Additional Services

Quick Deposit

ACH Alert

Positive Pay

Regions At Work



iTreasury Online Banking and Information Reporting Features

FEATURE	DESCRIPTION
Previous Day Reporting	▪ Previous day balance information for accounts, including ledger, available and float balances ▪ Transaction Information for posted transactions within specified date range
Current Day Reporting	▪ Dashboard (real-time information for up to 30 accounts, including DDA, savings, money markets, CDs, lines of credit and loans) ▪ Current day balance information ▪ Current day wire activity ▪ Current day ACH activity ▪ Memo posted transactions
Special Reports	Vary with reports selected. Available reports include: ▪ Sweep account statements ▪ Repurchase agreement confirmations ▪ Valid and invalid EDI transactions ▪ Account Analysis statements ▪ Commercial Loan report ▪ Return Deposited Item report ▪ ACH returns report ▪ DDA statement report
Account Transfer	▪ Ability to make real-time transfers between DDA accounts ▪ Recurring Transfers ▪ Transfers can be set up for dual approval ▪ Limits can be established on transfer amounts ▪ Make loan and line of credit payments
ACH Payments	▪ Fee includes any ACH modules selected ▪ ACH limits set by Regions Risk Analysis ▪ Second authentication required for batch release for increased security ▪ ACH modules include: Tax payments (federal and state), Payroll, Vendor Payments and Debits ▪ Out of Band Technology and ROOBA Authentication for secure multifactor authentication
Wire Transfer	▪ Make domestic and international wire transactions ▪ Second authentication required for wire release and confirmations for increased security ▪ Templates for tax payments ▪ Complete SWIFT BIC database for international wire transfers ▪ Out of Band Technology and ROOBA Authentication for secure multifactor authentication



iTreasury Online Banking and Information Reporting Features

FEATURE	DESCRIPTION
Stop Payments	▪ Issue or cancel a single stop ▪ Issue or cancel a stop on a range of items
Positive Pay	▪ Decision positive pay exceptions ▪ Import or manually enter issued checks
QuickBooks Download	▪ Download transaction information into QuickBooks
Data Exchange	▪ View balance and transaction information for non-Regions accounts
BAI Export	▪ Export BAI formatted files from iTreasury for use in other programs
Deposit Item Imaging	▪ View deposit details and images of individual items in a deposit
Email Alerts (open/close of business and intraday)	▪ Create notifications of key events throughout the business day. ▪ Email alerts ▪ Delivered to multiple employees and provides the following notices: ▪ ACH Batches or Wire Transfers requiring approval ▪ Balance changes (above, below or equal to a specified amount) ▪ Checks paid ▪ Positive Pay exceptions requiring attention ▪ Transactions posted
Loan Payments and Advances	▪ Make payments on loans and lines of credit ▪ For certain types of lines of credit, request advances and credit to your Regions deposit account.
Online Statements	▪ Provides 18 months of official bank statements archived in PDF format for easy download, local storage and email.



Customer DDA Statement



Regions Bank

Memphis, TN 38117

Return Address

This shows the address of the of the Regions city office.

OPERATING ACCOUNT

MEMPHIS TN

Customer Name and Address

This section shows the name and address of the customer.

ACCOUNT #

Cycle
Enclosures
Page

053
27
76
1 of 5

COMMERCIAL ANALYZED CHECKING

October 1, 2008 through October 31, 2008

Product Type

This shows the product type of the account.

Automatic Transfers
Checks
Ending Balance

SUMMARY

Statement Date

The time period covered by this statement.

\$3,343.18 -

Cycle

Shows the day of the month when the statement dropped.

Enclosures

Number of pages included with Statements reflecting details of transactions during month.

DEPOSITS & CREDITS

10/01	Deposit - Thank You	2,978.48
10/01	Adv From Cr Line	29,287.00
10/02	Deposit - Thank You	19,155.49
10/03	Transfer Fr	664.81
10/03	Deposit - Thank You	32,798.67
10/06	Deposit - Thank You	30,676.97
10/07	Transfer Fr	220.69
10/07	Deposit - Thank You	2,328.40
10/07	Adv From Cr Line	1,603.00
10/08	Deposit - Thank You	7,246.99
10/08	Adv From Cr Line	5,568.00
10/09	Transfer Fr	425.85
10/09	Deposit - Thank You	65,579.80
10/09	Deposit - Thank You	2,071.62
10/09	Deposit - Thank You	1,267.84
10/09	Deposit - Thank You	894.53
10/09	Deposit - Thank You	472.38
10/09	Buckeye Cln Payment Sibley.Payable	1,085.56
10/10	Deposit - Thank You	13,511.42
10/14	Transfer Fr	78.00
10/14	Deposit - Thank You	51,128.16
10/14	Deposit - Thank You	7,013.89
10/14	Deposit - Thank You	238.00
10/14	Adv From Cr Line	55,205.00
10/14	Buckeye Cln Payment Sibley.Payable	4,270.00
10/15	Transfer Fr	5,105.87
10/15	Deposit - Thank You	15,383.90
10/15	Adv From Cr Line	78,245.00
10/15	Buckeye Cln Payment Sibley.Payable	74.00
10/16	Deposit - Thank You	2,637.97
10/16	Buckeye Cln Payment Sibley.Payable	7,409.70
10/17	Deposit - Thank You	11,843.90
10/17	Deposit - Thank You	5,097.44
10/20	Deposit - Thank You	16,654.90



OPERATING AC
MEMPHIS TN

Balance Summary

High level accounting of Beginning Balance to the Ending Balance for the month.

- Beginning Balance + Deposits & Credits – Withdrawals – Fees + Auto Transfers + Returned Checks – Checks = Ending Balance for the month

Minimum Balance is the lowest daily (end of day) balance at any point in during the statement period.

ACCOUNT #

Cycle
Enclosures
Page

053
27
76
1 of 5

COMMERCIAL ANALYZED CHECKING

October 1, 2008 through October 31, 2008

SUMMARY

Beginning Balance	\$27,042.00	Minimum Balance	\$3,343-
Deposits & Credits	\$680,715.04 +		
Withdrawals	\$492,566.70 -		
Fees	\$583.46 -		
Automatic Transfers	\$0.00 +		
Checks	\$217,950.06 -		
Ending Balance	\$3,343.18 -		

DEPOSITS & CREDITS

10/01 Deposit - Thank You
10/01 Adv From Cr Line
10/02 Deposit - Thank You
10/03 Transfer Fr
10/03 Deposit - Thank You
10/06 Deposit - Thank You
10/07 Transfer Fr
10/07 Deposit - Thank You
10/07 Adv From Cr Line
10/08 Deposit - Thank You
10/08 Adv From Cr Line
10/09 Transfer Fr
10/09 Deposit - Thank You
10/09 Deposit - Thank You
10/09 Deposit - Thank You
10/09 Deposit - Thank You
10/09 Deposit - Thank You
10/09 Buckeye Cln Payment Sibley Payable
10/10 Deposit - Thank You
10/14 Transfer Fr
10/14 Deposit - Thank You
10/14 Deposit - Thank You
10/14 Deposit - Thank You
10/14 Adv From Cr Line
10/14 Buckeye Cln Payment Sibley Payable
10/15 Transfer Fr
10/15 Deposit - Thank You
10/15 Adv From Cr Line
10/15 Buckeye Cln Payment Sibley Payable
10/16 Deposit - Thank You
10/16 Buckeye Cln Payment Sibley Payable
10/17 Deposit - Thank You
10/17 Deposit - Thank You
10/20 Deposit - Thank You

Deposits & Credits

Shows all deposits and other credits to customers' account during the stated time period.

- Advance from Credit Line** – automated sweep from the line of credit overdraft protection into the account to cover cash shortage
- Transfer from Checking Acct #** - shows book transfer to this account from another internal Regions acct.

Customer sees this level of detail and may have questions. There may be more activity with different products so the statement could be longer.

11,843.90
5,097.44
16,654.90



WITHDRAWALS

10/01 Transfer to
 10/01 Transfer to
 10/01 IRS USATAXPYMT
 10/01 IRS USATAXPYMT
 10/02 Transfer to
 10/02 Pay to Cr Line
 10/03 Pay to Cr Line
 10/06 Transfer to
 10/06 Pay to Cr Line
 10/08 Transfer to
 10/08 IRS USATAXPYMT
 10/09 Transfer to
 10/09 Pay to Cr Line
 10/10 Pay to Cr Line
 10/14 Transfer to
 10/14 IRS USATAXPYMT
 10/15 Regions Auto Pymt
 10/15 Transfer to
 10/15 IRS USATAXPYMT
 10/15 IRS USATAXPYMT
 10/16 Rtrn Depstd ltm # of ltm(S)
 10/16 Transfer to

Withdrawals

Shows all withdrawals from customers' account during the stated time period

1. Transfer to Checking Acct # - shows book transfer to another internal Regions account the customer account.
2. Payment to Credit Line - automated sweep payment to from the account to pay down/pay off line of credit overdraft.

Automated Tax Payments (IRS or Sales Tax) show only if the customer requests this feature. To set this up, flag the account for this option.

958.05

FEES

10/09 Analysis Charge 09-08

583.46

CHECKS

Date	Check No.	Amount	Date	Check No.	Amount
10/01	6	188.75	10/15	6	297.10
10/02	6	220.95	10/16	6	22,952.86
10/08	6	6,434.83	10/15	6	11,710.48
10/10	6	24.28	10/16	6	388.18
10/07	6	26,757.51	10/15	6	495.40
10/03	6	374.96	10/09	6	746.93
10/09	6	245.00	10/14	6	2,473.46
10/08	6	103.56	10/10	6	1,195.72
10/07	6	3,120.00	10/10	6	86.25
10/06	6	238.17	10/14	6	6,766.90
10/07	6	478.48	10/16	6	3,999.06
10/15	6	4,855.00	10/14	6	39.49
10/09	6	389.29	10/09	6	8,910.60
10/10	6	1,485.09	10/10	6	1,462.50
10/09	6	479.67	10/10	6	556.87
10/21	6	400.00	10/15	6	255.55
10/14	6	4,035.34	10/14	6	174.75

Fees

Reflects the total net fees charged to the account based on the analysis statement from the previous month.

Also indicates the date that Analysis was charged.

Checks

Shows all checks written on the account during the statement period. Check data includes:

1. Date check posted to the account
2. Check Number
3. Dollar amount of the check

Checks are listed in order of when they post to the account. Checks posted out of chronological order are identified with an asterisk.

DAILY BALANCE SUMMARY

Date	Balance	Date	Balance	Date	Balance
10/01	26,842.03	10/14	60,401.03	10/24	23,934.49
10/02	25,800.46	10/15	55,861.34	10/27	98,194.65
10/03	48,537.98	10/16	1,933.59	10/28	89,291.83
10/06	76,880.29	10/17	10,544.15	10/29	26,261.89
10/07	50,676.39	10/20	27,718.12	10/30	6,408.10
10/08	24,834.38	10/21	47,379.70	10/31	3,343.18-
10/09	76,272.13	10/22	29,949.64		
10/10	10,047.84	10/23	221.03		

Daily Balance Summary

- Represents the balance in the account as of the end of each business day
- There will be a daily balance listed for each business day during the month



Return Address

This shows the address of the of the Regions city office.

Customer Analysis Statement



MEMPHIS, TN 38117
CONTACT

Contact

Officer responsible for the account.

- Accounts assigned to a department, other than the branch, reflect the responsible RM, and phone #.
 - Accounts assigned to branch reflect the responsible Branch Manager
- The contact may be located in a city different from the return address on the statement.

OPERATING ACCOUNT

MEMPHIS TN 38118-7811

FROM 10-01
TO 10-31

Statement Date

The month in which the services were used

PAGE 1

Customer Name and Address

This section shows the name and address of the customer.

BEGINNING IN FEBRUARY 2009, YOU WILL NO LONGER AUTOMATICALLY RECEIVE A ANALYSIS STATEMENT. IF YOU WOULD LIKE TO CONTINUE RECEIVING A MONTHLY STATEMENT, PLEASE CALL 1-866-463-5799 OR EMAIL YOUR REQUEST TO ACCOUNTANALYSIS@REGIONS.COM.

ACCOUNT NO. 0053 01		COMMERCIAL ANALYZED CHECKING			
	BALANCE	RATE	AMOUNT		
AVERAGE LEDGER BALANCE	32,607				
LESS AVERAGE FLOAT	34,081-				
AVERAGE COLLECTED BALANCE	1,474-				
NEGATIVE COLLECTED BALANCE	1,474-				
POSITIVE COLLECTED BALANCE	0				
LESS RESERVES/ANALYSIS ASSESSMENT	0	10.000			
POSITIVE NET COLLECTED BALANCE	0	.250	.00		
	UNITS	RATE	AMOUNT	BAL REQUIRED	
NEG COLL BAL INTEREST CHARGE	1,474	8.000	10.15	47,934.19	
ACCT MAINT	1	18.000	18.00	85,006.45	
RETURN ITEM	1	8.000	8.00	37,780.64	
ELECTRONIC DEBITS	9	.160	1.44	8,800.51	
ELECTRONIC CREDITS	8	.200	1.60	7,556.12	
CHECKS PAID-DEBITS	76	.180	13.68	64,604.90	
DEPOSITS-CREDITS	34	.500	17.00	80,283.87	
ITEMS DEPOSITED ON US	20	.100	2.00	9,445.16	
ITEMS DEPOSITED LOCAL	41	.100	4.10	19,362.58	
ITEMS DEPOSITED REGIONAL	33	.110	3.63	17,142.96	
ITEMS DEPOSITED OTHER FED	126	.110	13.86	65,454.96	
BRANCH DEP PER \$100 CURR STAND	23	.170	3.91	18,465.29	
BRANCH CASH ORDER STANDING	1	6.000	6.00	28,335.48	
BRANCH ORDER COIN ROLL	1	.160	.16	755.61	
ZBA MASTER MO MAINT	1	35.000	35.00	165,290.32	
SWEEP CREDIT LINE MO MAINT	1	110.000	110.00	519,483.87	
ITREASURY PREV DAY INFORMATION	3	11.666	35.00	165,290.32	
ITREASURY CASH CON & DISB MOD	1	35.000	35.00	165,290.32	
ITREASURY DIRECT DEP ACH MOD	1	35.000	35.00	165,290.32	
ITREASURY STATE TX PMT ACH MOD	1	35.000	35.00	165,290.32	
ITREAS SECUREID MO MAINT	3	5.000	15.00	70,838.70	
ITREASURY COMMERCIAL LOAN RPT	1	35.000	35.00	165,290.32	
QUICK DEP MO MAINT PER WKST	1	75.000	75.00	354,193.54	
QUICK DEP PER ITEM	83	.070	5.81	27,438.19	
TOTAL CHARGE FOR SERVICES			519.34	2,452,624.94	
NET CHARGE FOR SERVICES			519.34-		
POSITIVE NET COLLECTED BALANCE	0				
LESS COLLECTED BAL REQUIRED	2,452,624-				
EXCESS (DEFICIT) NET COLLECTED BALANCE	2,452,624-				
ADDITIONAL RESERVE REQUIRED	272,513-				
TOTAL BALANCE DEFICIT	2,725,138-				

Balance Form

- Customer can use this page to balance their account monthly.
- If the customer feels that there is a discrepancy with the monthly statement, this form is then submitted to the bank.
- It is the responsibility of the customer or RM to update this section and return it to the bank.



MEMPHIS, TN
CONTACT

OPERATING
MEMPHIS

Parent Group, Group Master or Individual Account

Section shows account type and account number.

First three #s represent the bank #:

- 0001 = AL, MS, LA, and TX
- 0053 = AR, IL, IN, IA, KY, MO, and TN
- 0060 = GA, NC, SC, and VA
- 0092 = FL

Second two #s represent the application #:

- 00 = Parent Group or Master Account
- 01 = Individual Account

BEGINNING IN FEBRUARY 2009, YOU WILL NO LONGER AUTOMATICALLY RECEIVE AN ANALYSIS STATEMENT. IF YOU WOULD LIKE TO CONTINUE RECEIVING A MONTHLY STATEMENT, PLEASE CALL 1-866-463-5799 OR EMAIL YOUR REQUEST TO ACCOUNTANALYSIS@REGIONS.COM.

ACCOUNT NO. 0053 01

COMMERCIAL A

	BALANCE	RATE	AMOUNT
AVERAGE LEDGER BALANCE	32,607		
LESS AVERAGE FLOAT	34,081-		
AVERAGE COLLECTED BALANCE	1,474-		
NEGATIVE COLLECTED BALANCE	1,474-		
POSITIVE COLLECTED BALANCE	0		
LESS RESERVES/ANALYSIS ASSESSMENT	0	10.000	
POSITIVE NET COLLECTED BALANCE	0	.250	

	UNITS	RATE	AMOUNT	BAL REQ
NEG COLL BAL INTEREST CHARGE	1,474	8.000	10.15	47.9
ACCT MAINT	1	18.000	18.00	85.0
RETURN ITEM	1	8.000	8.00	37.7
ELECTRONIC DEBITS	9	.160	1.44	6.8
ELECTRONIC CREDITS	8	.200	1.60	7.5
CHECKS PAID-DEBITS	76	.180	13.68	64.6
DEPOSITS-CREDITS	34	.500	17.00	80.2
ITEMS DEPOSITED ON US	20	.100	2.00	9.4
ITEMS DEPOSITED LOCAL	41	.100	4.10	19.3
ITEMS DEPOSITED REGIONAL	33	.110	3.63	17.1
ITEMS DEPOSITED OTHER FED	126	.110	13.86	65.4
BRANCH DEP PER \$100 CURR STAND	23	.170	3.91	18.4
BRANCH CASH ORDER STANDING	1	6.000	6.00	28.3
BRANCH ORDER COIN ROLL	1	.160	.16	.7
ZBA MASTER MO MAINT	1	35.000	35.00	165.2
SWEEP CREDIT LINE MO MAINT	1	110.000	110.00	519.4
ITREASURY PREV DAY INFORMATION	3	11.666	35.00	165.2
ITREASURY CASH CON & DISB MOD	1	35.000	35.00	165.2
ITREASURY DIRECT DEP ACH MOD	1	35.000	35.00	165.2
ITREASURY STATE TX PMT ACH MOD	1	35.000	35.00	165.2
ITREAS SECUREID MO MAINT	3	5.000	15.00	70.8
ITREASURY COMMERCIAL LOAN RPT	1	35.000	35.00	165.2
QUICK DEP MO MAINT PER WKST	1	75.000	75.00	354.1
QUICK DEP PER ITEM	83	.070	5.81	27.4

TOTAL CHARGE FOR SERVICES

519.34 2,452.6

NET CHARGE FOR SERVICES

519.34-

POSITIVE NET COLLECTED BALANCE	0
LESS COLLECTED BAL REQUIRED	2,452,624-
EXCESS (DEFICIT) NET COLLECTED BALANCE	2,452,624-
ADDITIONAL RESERVE REQUIRED	272,513-
TOTAL BALANCE DEFICIT	2,725,138-

Balances, Reserves, Earnings Allowance

- 1 Avg Ledger Balance minus Avg Float = Avg Collected Balance
- 2 Negative Collected Balance occurs when company uses uncollected funds during the month but does not mean that the company was necessarily overdrawn in the ledger balance which generates an NSF Charge.
- 3 Positive Collected Balance minus Reserve Requirement = Avg Net Collected Balance
- 4 Avg Positive Collected Balance x 10% = Reserve Requirement
- 5 Positive/Average Net Collected Balance x Earnings Rate divided by the # of days per year x # days per month = Total Earnings Credit Allowance

Service Charges

- 1 Charge for services x # days in the month divided by # days in the year x Earnings Rate = Balance Required (Collected Balance Required)
- 2 Negative Collected Balance : Overdraft Rate x # days per month divided by # days in the year = Interest on Overdraft

Overdraft Rates can be found on life@regions > Business Units > Commercial > Treasury Management > Pricing.

Net Charges for Services

Shows net difference between total service charge and total earnings credit allowance. If service charge exceeds earnings allowance, net charge is shown. If earnings allowance exceeds total service charge, net charge for services appears as a zero on the statement.

Balance Summary

If Excess (Deficit) Balance is negative, a line called Additional Reserves Required is added to calculate total balance deficit. Additional reserves required to support service charges include allowances for reserves.

- 1 Avg Collected Balance - Reserve Requirement = Avg. Net Collected Balance
- 2 Avg. Net Collected Balance - Collected Balance Requirement = Excess (Deficit) Net Collected Balance
- 3 Total Balance Deficit minus Excess (Deficit) Net Collected Balance = Additional Reserve Requirement
- 4 Excess (Deficit) Net Collected Balance + Additional Reserve Required = Total Balance Deficit



Regions Quick Deposit

Regions Quick Deposit enables commercial clients to electronically capture the checks they have received, convert them to check images, and transmit the images to the bank as deposits. Regions Quick Deposit offers convenience and flexibility.

- **Streamline Check Deposit Operations** – Clients save money – Regions makes it convenient. Quick Deposit reduces the need to travel to a bank branch, saving clients both time and money. By having the ability to make remote deposits, clients can spend their valuable time on more productive assignments.
- **Eliminate Geographical Constraints** – Regions provides reliability. Regions Quick Deposit can be used from any location with Internet access. Therefore, clients can send deposits from virtually anywhere.
- **Improve Funds Availability** – Regions gives clients freedom. The faster clients can process payments while maintaining accuracy, the sooner funds are available for investing, for loan payments, and other business purposes. Regions Quick Deposit also has an extended ledger deposit deadline from 2:00 p.m. CT to 8:00 p.m. CT.

How Quick Deposit Works

- No special software is required. Only a scanner driver must be downloaded to the client's PC.
- Using a specifically designed desktop scanner and software, clients have the capacity to scan and electronically capture images of receivable checks to a PC – allowing clients to process transactions at their place of business instead of having to drive to a bank branch.
- For security purposes, each user must log into the Quick Deposit application using a specific user ID and password.
- Before scanning the checks, the user must first indicate the deposit total – which is used to balance the deposit amount.
- The user simply drops the checks into the scanner. As checks are scanned, each item is verified – ensuring that it contains a valid readable MICR line, passes a specified image quality standard, and is not a duplicate of a previously scanned check.
- When the entire deposit transaction is completed and balanced, the user will end the deposit and securely transmit the data via the Internet to Regions for processing.

Benefits of Regions Quick Deposit

- ✓ Eliminates trips to the bank
- ✓ Make deposits convenient
- ✓ Extended cutoff times
- ✓ View images of deposited items for 45 days
- ✓ Fast and easy to use

- ✓ Consolidate banking relationships
- ✓ Maximize cash flow
- ✓ Control receivables quickly and easily
- ✓ Create and manage deposits from business location
- ✓ Enhances in-house research capabilities
- ✓ Centralizes management of deposit activity



Regions ACH Alert

Regions ACH Alert is a web-based service that facilitates the detection of Automated Clearing House (ACH) fraud. ACH Alert will monitor the client's account and compare the activity to a list of ACH debits that have been pre-authorized by the client. If any unrecognized ACH debits arrive, ACH Alert will send the client an email, enabling the client to detect and return any unauthorized or fraudulent transactions.

ACH Alert enhances the Regions Positive Pay tool set and further positions the bank to offer an all encompassing fraud protection package which can be marketed to all business segments.

ACH Alert is accessed at <https://achalert.regions.com>.

How ACH Alert Works

The ACH Network allows clients to bypass traditional paper payments and use electronic payments. While the growth of electronic payments has been a positive development for companies, it has also presented a new risk to manage - ACH payment fraud. Regions ACH Alert works in tandem with clients' internal controls to reduce exposure to ACH fraud.

Clients provide a list of transactions which are allowed to post, thus rejecting all unauthorized ACH debits. Per regulations, corporate accounts must identify and return unauthorized ACH transactions within 24 hours after posting. Based upon the client's elected configurable notification parameters, email alerts are generated and sent to the client when an ACH debit has been posted.

ACH Alert enables ACH debit activity to be monitored

ACH Alert also allows clients to pre-authorize specific ACH debits to their accounts. Each business day, ACH Alert will provide a list of all ACH debit activity for the client's review. If any unrecognized ACH debits are detected, ACH Alert will send email notifications to designated ACH Alert users.

ACH Alert allows clients to select and return unauthorized transactions

Once a fraudulent or unauthorized ACH debit is detected, clients simply reject via the online tool by selecting the transaction from the list provided, and clicking "Decline" to have the item returned. As a best practice clients should review ACH activity each morning, regardless of whether an ACH Alert notification email is received. The deadline for declining transactions posted the previous day is 2:00 p.m. Central. Clients are not charged for returning unauthorized items. Regions ACH Alert will maintain a record of all of the client's ACH debit activity and return decisions for ease of future reference and research.

Features of Regions ACH Alert

- ✓ User-friendly web-based application
- ✓ Allows complete online management enabling clients to monitor and control all ACH debit transactions

- ✓ Dual control functionality for increased security with user assigned access and functionality levels
- ✓ Notification Rules function allows users to configure when email alerts are generated and for which transactions. Options include:
 - Notify for all ACH debits
 - Notify only when an ACH debit is over an identified amount
 - Notify only when an ACH debit was created from a payment made by check, over the Internet or by phone.
 - Notify only when an ACH debit is created by a company not found in the client's Approved Company list
- ✓ Provides multi-user access
- ✓ Three contacts per company can be selected to receive email notifications (if more than three contacts are desired, the client may choose to establish/use a group email account)
- ✓ The Approved List feature allows the client to list companies that are approved to send ACH debits. Companies on the Approved List will not generate an email alert.
- ✓ The Transaction History feature allows clients to view and search ACH debit activity for all accounts that have been set up on ACH Alert
- ✓ Enables clients to authorize future ACH transactions based on information accompanying a current payment

Benefits of Regions ACH Alert

- ✓ Helps minimize risk associated with ACH transactions, reducing exposure to ACH fraud
- ✓ Prevents fraud and potential losses through early detection, enabling clients to accept or reject ACH debits before the transactions post to the client's account
- ✓ Allows clients to pre-authorize specific transactions directly using the online application with no paperwork required
- ✓ Provides email notification if any unrecognized ACH debit activity posts to the client's account
- ✓ Convenience and flexibility
- ✓ Enables risk to be managed more accurately



Positive Pay Services

Regions Positive Pay is an automated anti-fraud service that provides clients with additional protection against check fraud arising from counterfeit checks where the amount, serial number or payee name is altered. Positive Pay quite simply reduces a client's exposure to unauthorized or fraudulent paper checks.

How Positive Pay Works

Next Day Positive Pay Service (with Account Reconciliation service). This positive pay election protects against check fraud and enables clients to maintain a cumulative checks issued database on file with Regions. This file is used to verify paid checks as they are presented for payment. The checks issued database includes information such as the account number, check number, issue date and dollar amount. Optionally, clients may include payee names for digital comparison to paid checks. This service provides exceptions the day after the item has posted to the client's account.

- The client provides a check issue file to Regions prior to writing/issuing checks
- Each check presented to clear the account is compared to the check issue file
- Regions will correct any encoding errors or MICR line misreads
- If a check presented for payment is not identified within the client database or differs in amount or payee (if this option is chosen), the client will be notified of the unmatched items the next business day via iTreasury online banking
- Positive Pay exception ("suspect items") data is available at approximately 9:30 AM CT
- Client dispositions are due by 2:00 PM CT

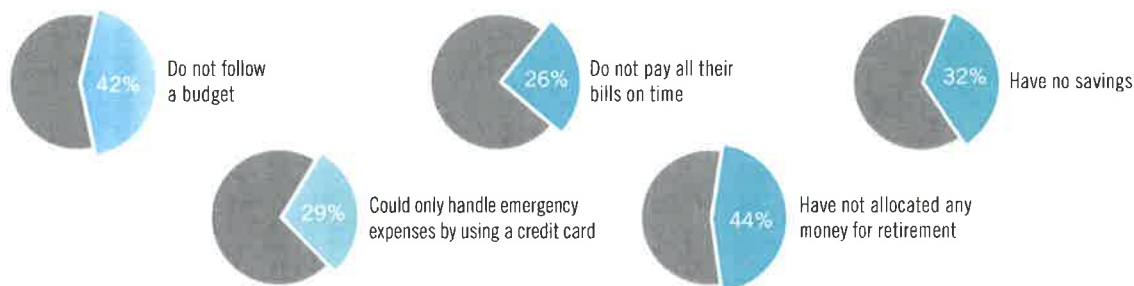
Features and Benefits of Positive Pay

- ✓ Early detection and reduction in check fraud
- ✓ Increases fraud prevention to minimize exposure
- ✓ Enables checks issued to be matched daily against presentments instead of monthly with reconciliation, improving accuracy and allowing fraud to be intercepted as it occurs
- ✓ Daily online reporting of mismatches (exceptions) via iTreasury
- ✓ Ability to make pay/return decisions on questionable items with online review and initiation of returns using iTreasury
- ✓ Improves audit control
- ✓ Enables enhanced reconciliation reporting for better accounting and analysis
- ✓ All Positive Pay services enable quick acceptance of return items

Why should your business partner with Regions?

Personal financial issues are the No. 1 cause of employees' workplace stress. Employees with high levels of stress from debt are twice as likely to experience a heart attack, three times more likely to suffer from stomach ulcers and migraines, and seven times more likely to suffer from anxiety. Due to the pressure and distractions that come from this level of financial burden, employee financial stress costs employers an average of \$5,000 per employee per year in lost productivity.

Research by Harris Interactive revealed the following findings about American adults:



Most common financial concerns? Saving money, personal credit health, identity theft, budgeting, student loans and mortgage issues.

When employees' personal financial concerns become burdensome, your business may begin to see:

- Decreased productivity
- Lower commitment to the organization
- Less satisfaction with pay
- Work time spent dealing with personal finances
- More absenteeism
- Poorer health

As an employer, you want your employees to make the most of their money. With Regions Financial Fundamentals, a knowledgeable and friendly Regions associate will walk your employees through easy-to-understand seminars and action-oriented handouts to get them on the road to financial success, all **at no cost to your business.**

SEMINARS

- Wise Use of Credit
- Protect Yourself From Identity Theft
- The Importance of Saving
- Managing Your Money
- Saving for Retirement
- Building Financial Confidence
- Your Road to Home Ownership
- Your Credit Report
- Protect Your Small Business From Fraud
- Empower Yourself Financially
- Financial Tips for Your Small Business
- 10 Ways To Simplify Your Life Using Banking Technology
- Tips and Tools for Helping Seniors Avoid Financial Exploitation
- Maximize Your Personal Wealth

[Branch Name]

[Address]

[Contact Name]

[Phone Number]

[Lobby Hours]

Our dedicated Regions At Work experts are ready to help you decide which banking solutions may be right for you. To get started, call 1.800.regions or visit regions.com and select "Make an Appointment."

REGIONS AT WORK EVERYDAY SOLUTIONS

Stop in at your local Regions Bank to hear more about the Regions At Work® program. It provides employees with no-cost financial advice, guidance and education as well as banking perks and discounts.

Includes these complimentary services:

- **A personal banker** – Assigned to you as a resource to understand your financial goals and provide one-on-one financial advice, insight and solutions to help you reach those goals.
- **Regions savings account** – Comes with no monthly fee and no minimum balance requirements, and it gives you the opportunity to earn an annual savings bonus.
- **Regions Cashback Rewards®** – Earn Cashback Rewards through Online and Mobile Banking for qualifying purchases made with your Regions Visa® CheckCard.
- **Regions Relationship Rewards®** – When your checking account is enrolled in Regions Relationship Rewards, you can earn points for everyday banking activity and, when you have a Regions Relationship Rewards Card, also for qualifying purchases on your credit card.¹
- **Regions MyGreenInsights** – Provides tools to help you successfully manage and track your finances, create a budget, set spending targets and identify ways to save. It's easy, safe and secure, and it allows you to view your financial picture across multiple financial institutions.
- **Regions Online Banking with Bill Pay²** – A secure way to check your account balances, pay bills and transfer funds.
- **Mobile Banking³ with Regions Mobile Deposit** – Regions Mobile Banking gives you the ability to check account balances, transfer funds, pay bills and deposit checks all from your mobile device.
- **Online Statements** – Tired of filing, shredding, recycling and even losing your paper statements? To sign up for Online Statements, log in to your online banking and select "Online Statements."
- **Visa CheckCard with fraud protection** – Shop knowing you're only responsible for authorized transactions if your Regions CheckCard or number is ever lost or stolen.
- **Ability to opt in or out for overdraft fees**
- **Fee waiver on first overdraft**

Other benefits may include:

- Ability to open a Regions At Work checking account with \$0 when a direct deposit of any kind is set up
- No minimum balance requirements
- 0.25% discount on real estate and direct installment loans with auto debit from a Regions checking or savings account
- \$100 discount on mortgage closing costs
- 30% discount on safe deposit box rentals (50% with At Work Preferred) plus an additional 10% discount off the annual fee if you select auto payment for your annual fee
- Relationship pricing on select certificates of deposit
- A Refer a Friend bonus – Know someone who doesn't currently have a Regions checking account? Then refer that friend to Regions and you could both receive a \$50 Visa Reward Card. To start referring friends and family to Regions, you must drop by a branch, call 615.864.7532, visit regions.referlive.com or download the ReferLive app to register and agree to the full terms and conditions.

Now Banking

Regions also offers Now Banking, which is a suite of products and services that you can use with or without an account. It's a quick, safe and convenient way to manage your cash. It includes check cashing, the Regions Now Card® (a general purpose prepaid, reloadable card), Western Union Money Transfer® services, and money orders.



Follow us for helpful tips and information.





January 19, 2017

Kermas Eaton, City Clerk
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403

Dear Mr. Eaton,

Pursuant to your request for bids to be submitted for the privilege of acting as your depository, the undersigned Hancock Bank, submits this, its bid therefore and application to be designated as depository for the accounts now with said Bank and any other accounts for which we may be designated depository.

We agree to furnish legal security for the faithful performance of such duties as depository as provided by statute in the sum required by the laws of the State of Mississippi, the securities pledged to be of proper type and amount as required by law.

We will clear all checks and warrants against sufficient funds on a par basis and all transfers of funds and receipts will be handled at par.

We agree to pay interest on the deposits when requested in accordance with Mississippi statutes and at rates of interest consistent with prevailing market conditions.

We agree to pay interest on the deposits when requested in accordance with Mississippi statutes and at rates of interest consistent with prevailing market conditions. **Hancock Bank would like to offer a variable rate based on the Fed Funds Effective Rate minus (-) 25 basis points. As of January 17, 2016 the Fed Funds Effective Rate was 0.68%. When calculated (0.68% - 0.25%) the City's rate would have been 0.43%.**

Hancock Bank is pleased to offer its cash management services. With this internet product you will be able to perform and obtain info reporting, balance inquiries, stop payments, wire transfers, ACH transfers, payroll direct deposit, check imaging and electronic record storage via CD-ROM.

Respectfully Submitted,

Jennifer Papania King
Banking Officer / Relationship Manager
Institutional Banking & Public Depository
228-563-5706

STATE OF MISSISSIPPI

Office of the State Treasurer



Having complied with all the requirements of law, and having placed approved securities with the State Treasurer of Mississippi, **Hancock Bank** is hereby appointed a

STATE DEPOSITORY

for a term of one year ending the **thirtieth (30th)** day of **November, 2017**, and is hereby authorized and empowered to receive and disburse, according to law, any and all State Funds, there offered for demand deposits and for investment in Time Certificates of Deposit or other authorized securities, but shall not have on deposit at any time an amount exceeding that authorized by Section 27-105-9, Mississippi Code (1972) as amended, or other applicable law or regulation unless otherwise ordered by the State Treasurer.

In witness whereof, the State Treasurer has ordered this Commission issued and has duly signed and affixed the Seal of the Office of the Treasurer of the State of Mississippi thereto on this the **first** day of **December, 2016**.

A handwritten signature in cursive script, reading "Lynn Fitch".

Lynn Fitch
Treasurer of the State of Mississippi



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 5, 2017

ADDENDUM #1

SPECIFICATIONS FOR: ONE NEW FORENSIC EVIDENCE CABINET .

Specifications issued on the aforementioned item read as follows:

Bids will be received until 10:00 A.M., Thursday January 12, 2017 .

The aforementioned specifications are hereby amended to read as follows:

Sealed bids will be received until 10:00A.M, Thursday January 19, 2017

City of Hattiesburg

Kermas Eaton, City Clerk

MUNICIPALITY BID PROPOSAL FORM

TO THE BOARD OF ALDERMAN AND MAYOR OF Hattiesburg

We submit the following bid proposal for serving as the deposit for The City of Hattiesburg (municipality) for the period beginning January 1, 2017 and ending December 31, 2018 and thereafter until new arrangements shall be made according to law:

1. Hancock Bank is insured by the Federal Deposit Insurance Corporation or any successors to such insurance corporation.
2. Hancock Bank has met the primary capital to assets ratio of five and one-half percent (5 1/2%) or more as of June 30, 2015, has received certification of such from the State Treasurer, and will attach commission in response. **Please attach commission in response.**
3. Hancock Bank has 2 offices located in Hattiesburg, Mississippi. **Please attach in response a list of all branches located in the municipality. Include address of each branch.**
4. Hancock Bank has 20 employees located in Hattiesburg, Mississippi.
5. Hancock Bank agrees to place on deposit with The City of Hattiesburg (municipality) as security any of the securities eligible for securing of state funds as provided in Section 27-105-5, Mississippi Code Ann. (1972) in an amount at least equal to one hundred five percent (105%) of the maximum sum to be placed on deposit in such financial institution at any one time exclusive of that portion of accounts insured by the Federal Deposit Insurance Corporation, or any successors to such insurance corporation.

Or, _____ is a public funds guaranty pool member under sections 27-105-5 and 27-105-6, Mississippi Code Ann. (1972). The qualified financial institution shall secure those deposits by placing qualified securities on deposit with the State Treasurer as provided in section 27-105-5.
6. Hancock Bank agrees to execute a Collateral Security Agreement with the Municipality in the form recommended by the State Treasurer of the State of Mississippi for the purpose of complying with Section 1823(e) of FIRREA as necessary to ensure that the Municipality will possess a preferred claim to pledged securities in the event of default by the depository bank. All Collateral Security Agreements will be executed prior to January 1, 2016
7. Hancock Bank agrees to monitor monthly deposits of the municipality in order to ensure adequate securities are pledged and to provide the municipality with an annual report listing accounts reported to the State Treasurer.

8. Hancock Bank agrees to prepare monthly statements beginning with the first day of the month and ending with the last day of the month, showing debits, credits, balances, and sequential listing of cashed checks within five (5) business days of the statement closing date.
9. Hancock Bank agrees to pay interest on the Municipality's accounts based on a fixed rate or variable rate. Variable rates shall be equal to the prior month-end U.S. Federal Funds Rate plus or minus -25 basis points.

CURRENT RATES BASED ON ABOVE CALCULATIONS

	<i>Variable</i>	<i>Fixed</i>
	See transmittal letter	
<i>DDA Checking Accounts</i>	_____ %	_____ %
<i>Money Market/Savings Accounts</i>	_____ %	_____ %

Note: Interest shall be earned on the average daily investable balance.

10. _____ agrees to provide earnings allowance on daily Municipality account balances that offset bank service charges. The earnings credit rate (ECR) shall be na %
11. Hancock Bank agrees to, if requested, offer advice on cash management and investment strategies necessary to properly utilize the Municipality's assets.
12. Hancock Bank agrees to provide the requested information necessary for the completion of the annual audit at no charge to the Municipality or its auditors.
13. Hancock Bank agrees to allow the Municipality to establish or maintain checking or savings accounts for no charge or minimum charges/fees for deposits credited, checks paid, incoming wire transfers, or returned deposit items. In addition, Hancock Bank agrees to provide the services listed on the following page at no charge or minimum charge to the Municipality based on account data provided by the municipality and data listed below:

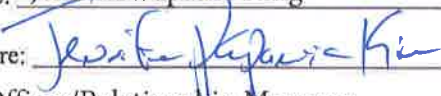
Account Data	
<i>Average Monthly Ledger Balance</i>	Varies by account
<i>Number of DDA Checking Accounts</i>	Approximately 25
<i>Number of Savings Accounts</i>	0

Completed By Municipality			Financial Institution's Response	
Account Services	Services Utilized? (Yes/No/Interested)	Monthly Average Volume	Provided at No Charge (Yes or No)	Direct Fee or Service Charge (Indicate Fee or Charge)
Stop Payments	Yes	Very Infrequent	Choose yes an item.	
Outgoing Wire Transfers	Yes	Infrequent	Choose yes an item.	
Incoming Wire Transfers	Yes	Infrequent	Choose yes an item.	
Night Depository Services	Choose a response.		Choose yes an item.	
Locking Bank Bags	Choose a response.		Choose yes an item.	
Keys for bank night drop	Choose a response.		Choose yes an item.	
Deposit Slips	Yes		Choose yes an item.	
Checks	No		Choose yes an item.	
Re-deposit of returned deposit items at least once	No		Choose an item. yes	
Research/Statement Reproduction	No		Choose yes an item.	
Payroll Direct Deposit Services	Yes		Choose yes an item.	
Transactions handled via phone	Yes		Choose yes an item.	
Cash in to be counted by teller at time of deposit	No		Choose yes an item.	
Internet Banking Access	Yes		Choose yes an item.	
Overdraft Fees and Penalties	No		Choose yes an item.	
Positive Pay	No		Choose yes an item.	
Reconciliation	No		Choose yes an item.	
Controlled Disbursements	No		Choose yes an item.	
Stored Value (Payroll) Cards	No		Choose yes an item.	
Lockbox Services	No		Choose no an item.	priced request
Check to ACH Conversion	No		Choose yes an item.	
Note: Please add any additional services you deem necessary or have interest in under "Service" column				
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	

14. Hancock Bank agrees to provide ledger credit on the same day as deposits occur (holidays and weekends excluded). This includes same day credit on wire transfer of funds from the federal and state

government, and same day credit on deposits made by the Municipality prior to 2:00 P.M.CST.

Financial Institution Name: Hancock Bank
Primary Contact Name: Jennifer Papania King
Telephone Number: (228) 563-5706
Street Address: 2510 14th St
City, State, Zip Code: Gulfport, MS 39501
Email Address: jennifer.king@hancockbank.com

Type or Print Name: Jennifer Papania King
Authorized Signature: 
Title: Banking Officer/Relationship Manager
Date: January 19, 2017

Currently, the City of Hattiesburg maintains roughly thirty (30) checking accounts with average balances ranging from \$20. to \$10,000,000. There are approximately 8-10 higher volume accounts that require the ability to initiate stop payments online. However, we would prefer online access to all City accounts with the ability to transfer funds between accounts as well as monitor daily activity.



January 16, 2017

City of Hattiesburg
Attn: Kermas Eaton - City Clerk
P.O. Box 1898
Hattiesburg, MS 39404

Mr. Eaton:

BancorpSouth appreciates the opportunity to offer the enclosed bid for the City of Hattiesburg depository relationship. We appreciate our current business relationship we currently maintain with the city and Board of Alderman. And, look forward to continuing that partnership. BancorpSouth is knowledgeable and experienced in the management of public fund relationships, and will continue to provide the City of Hattiesburg all the necessary services and customer service you are accustomed to. Enclosed you will find the rates we propose to pay on the school district's deposits and fees for a 2-year bid term.

BancorpSouth has grown to become a \$14.6 Billion bank holding company, operating over 236 locations in eight states. Chartered in 1876, BancorpSouth is one of the most stable state bank holding companies in the country. BancorpSouth is a State-Chartered financial institution and an eligible public depository under current Mississippi State Law. As such, BancorpSouth meets the requirements provided in Section 27-105-353 and 27-105-363 of the Mississippi Code of 1972, Annotated and is an approved financial institution under the "State of Mississippi Guaranty Pool Program" under Section 27-105-6 Mississippi Code.

In summary we propose the following rate options to pay on City's depository funds:

- 2-Year Bid Term – choose one of the following options:
 - a. Rate Options (Choose One)
 - i. Fixed Rate of 0.40% for two years
 - ii. Floating Rate of Fed Funds Target Rate minus 0.50 with a Floor Rate of 0.05% (currently, this rate currently equals 0.25%)
- In order to receive the rates quoted above, the total balance of all City of Hattiesburg accounts must maintain a minimum balance of \$8 Million and a maximum balance \$50 Million in the checking accounts to receive the above rates. If these balances are not maintained, BancorpSouth reserves the right to adjust the rate to the current market rate or a default rate setup within the bank.

- The quoted interest rate does not apply to funds that do not result from normal operations (i.e. bond proceeds). BancorpSouth reserves the right to quote interest rates for these type funds separately per current market conditions.

In addition to the services requested in the bid BancorpSouth is able to offer competitive rates on future CD's, loans and leases that the city bids out. Please contact Ted Webb or Grant Walker for rates on these types of needs

Thank you for your consideration.

Please contact any of the following individuals if you have any questions regarding our depository bid:

Ted Webb
Divisional President
Pine Belt Division
601-545-5001
ted.webb@bxs.com

Grant Walker
Market President
Hattiesburg
601-545-5005
grant.walker@bxs.com

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted Webb", with a stylized flourish extending from the end.

Ted Webb
President – Pine Belt Division

BancorpSouth Rate Options

The City of Hattiesburg will have the option of choosing one of the rate plans below for the years 2017 – 2018:

- Fixed Rate for years 2017 – 2018 0.40%
- Floating Rate for years 2017 – 2018 Fed Funds Target Rate minus 0.50% with a
Floor Rate of 0.05%
(currently this rate option equates to 0.25%)

** In order to receive the rates quoted above, the total balance of all City of Hattiesburg accounts must maintain a minimum balance of \$8 Million and a maximum balance \$50 Million in the checking accounts to receive the above quoted fixed rate. If these balances are not maintained, BancorpSouth reserves the right to adjust the rate to the current market rate or a default rate setup within the bank.*

The quoted interest rate does not apply to funds that do not result from normal operations (i.e. bond proceeds). BancorpSouth reserves the rate to quote interest rates for these type funds separately per current market conditions.

Both of these rate options will allow the funds to be collateralized properly according to Section 27-105-6 Mississippi Code

BancorpSouth – City of Hattiesburg Branch Listing

Branch	Address	Phone	Functional Description	Lobby	Drive-Thru
Hattiesburg Main Office	100 HARDY ST HATTIESBURG MS 39401-3819	601-544-4211	Full Service Branch	M-Th 9-4:30 Fri 9-5:30	M-Th 8-4:30 Fri 8-5:30
Broadway Branch	713 Broadway Drive Hattiesburg, MS 39401-7532	601-545-6800	Full Service Branch	M-Th 9-4:30 Fri 9-5:30	M-Th 8-4:30 Fri 8-5:30
Medical Center Branch	200 South 28 th Ave Hattiesburg, MS 39401-7154	601-545-6825	Full Service Branch	M-Th 9-4:30 Fri 9-5:30	M-Th 8-4:30 Fri 8-5:30
University Branch	3101 HARDY ST HATTIESBURG MS 39401-7058	601-545-6820	Full Service Branch	M-Th 9-4:30 Fri 9-5:30	M-Th 8-4:30 Fri 8-5:30
98 Place Branch	6471 U.S. Highway 98 Hattiesburg, MS 39402	601-554-3355	Full Service Branch	M-Th 9-4:30 Fri 9-5:30	M-Th 8-4:30 Fri 9-5:30
Westwood Mall Branch	4650 Hardy Street Hattiesburg, MS 39402	601-545-6830	Full Service Branch	M-Th 9-4:30 Fri 9-5:30 Sat 9-1:00	M-Th 7:30-6:00 Fri 7:30-6:00 Sat 9-1:00

COUNTY BID PROPOSAL FORM

TO THE BOARD OF ALDERMAN AND MAYOR OF Hattiesburg, MS

We submit the following bid proposal for serving as the deposit for City of Hattiesburg, MS for the period beginning January 1, 2017 and ending December 31, 2018 and thereafter until new arrangements shall be made according to law:

1. BancorpSouth is insured by the Federal Deposit Insurance Corporation or any successors to such insurance corporation.
2. BancorpSouth has met the primary capital to assets ratio of five and one-half percent (5 1/2%) or more as of June 30, 2016, and has received certification of such from the State Treasurer. **Please attach commission in response.**
3. BancorpSouth has 6 offices located within Hattiesburg, Mississippi. **Please attach in response a list of all branches located in the county. Include address of each branch.**
4. BancorpSouth has 146 employees located within Hattiesburg, Mississippi.
5. BancorpSouth agrees to place on deposit with The City of Hattiesburg as security with the State Treasurer, any of the securities eligible for securing of state funds as provided in Section 27-105-5, Mississippi Code Ann. (1972) in an amount at least equal to one hundred five percent (105%) of the maximum sum to be placed on deposit in such financial institution at any one time exclusive of that portion of accounts insured by the Federal Deposit Insurance Corporation, or any successors to such insurance corporation.

Or, BancorpSouth is a public funds guaranty pool member under sections 27-105-5 and 27-105-6, Mississippi Code Ann. (1972). The qualified financial institution shall secure those deposits by placing qualified securities on deposit with the State Treasurer as provided in Section 27-105-5.
6. BancorpSouth agrees to execute a Collateral Security Agreement with the county in the form recommended by the State Treasurer of the State of Mississippi for the purpose of complying with Section 1823(e) of FIRREA as necessary to ensure that the county will possess a preferred claim to pledged securities in the event of default by the depository bank. All Collateral Security Agreements will be executed prior to January 1, 2017.

7. **BancorpSouth** agrees to monitor monthly deposits of the county in order to ensure adequate securities are pledged and to provide the municipality with an annual report listing accounts reported to the State Treasurer.

8. **BancorpSouth** agrees to prepare monthly statements beginning with the first day of the month and ending with the last day of the month, showing debits, credits, balances, and sequential listing of cashed checks within five (5) business days of the statement closing date.

9. **BancorpSouth** agrees to pay interest on the county's accounts based on a fixed or variable rate. Variable rates shall be equal to the prior month-end U.S. Federal Funds **Target Rate** minus 50 basis points **with a Floor rate of 0.05%**

CURRENT RATES BASED ON ABOVE CALCULATIONS

	<i>Variable</i>	<i>Fixed</i>
<i>DDA Checking Accounts</i>	<u>0.25 %</u>	<u>0.40%</u>
<i>Money Market/Savings Accounts</i>	<u>0.25%</u>	<u>0.40%</u>

Note: Interest shall be earned on the average daily investable balance.

10. **BancorpSouth will NOT pay ECR if we are paying interest on the balances as well** agrees to provide earnings allowance on daily county account balances that offset bank service charges. The earnings credit rate (ECR) shall be 0.00 %.

11. **BancorpSouth** agrees to, if requested, offer advice on cash management and investment strategies necessary to properly utilize the Municipality's assets.

12. **BancorpSouth** agrees to provide the requested information necessary for the completion of the annual audit at no charge to the Municipality or its auditors.

13. **BancorpSouth (see pricing guide)** agrees to allow the Municipality to establish or maintain checking or savings accounts for no charge or minimum charges/fees for deposits credited, checks paid, incoming wire transfers, or returned deposit items. In addition, **BancorpSouth (see pricing guide)** agrees to provide the services listed on the following page at no charge or minimum charge to the Municipality based on account data provided by county and the data listed below:

Account Data	
<i>Average Monthly Ledger Balance</i>	Varies by account
<i>Number of DDA Checking Accounts</i>	Approximately 25
<i>Number of Savings Accounts</i>	0

Completed By County			Financial Institution's Response	
Account Services	Services Utilized? (Yes/No/Interested)	Monthly Average Volume	Provided at No Charge (Yes or No)	Direct Fee or Service Charge (Indicate Fee Charge)
<i>Stop Payments</i>	Yes	Very Infrequent	Yes	
<i>Outgoing Wire Transfers</i>	Yes	Infrequent	Yes	
<i>Incoming Wire Transfers</i>	Yes	Infrequent	Yes	
<i>Night Depository Services</i>	No		Yes	
<i>Locking Bank Bags</i>	No		Yes	
<i>Keys for bank night drop</i>	No		Yes	
<i>Deposit Slips</i>	Yes		Yes	
<i>Checks</i>	No		Yes	
<i>Re-deposit of returned deposit items at least once</i>	No		Yes	

<i>Research/Statement Reproduction</i>	No		No	
<i>Payroll Direct Deposit Services</i>	Yes		Yes	
<i>Transactions handled via phone</i>	Yes		Yes	
<i>Cash in to be counted by teller at time of deposit</i>	Yes		Yes	
<i>Internet Banking Access</i>	Yes		Yes	
<i>Overdraft Fees and Penalties</i>	No		No	\$36.00 per ite
<i>Positive Pay</i>	No		No	
<i>Reconciliation</i>	No		No	
<i>Controlled Disbursements</i>	No		No	
<i>Stored Value (Payroll) Cards</i>	No		No	
<i>Lockbox Services</i>	No		No	
<i>Check to ACH Conversion</i>	No		No	
Note: Please add any additional services you deem necessary or have interest in under the "Account Services" column.				
Choose an item.				
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	

14. **BancorpSouth** agrees to provide ledger credit on the same day as deposits occur (holidays and weekends excluded). This includes same day credit on wire transfer of funds from the federal and state government, and same day credit on deposits made by the county prior to 2:00 P.M. CST.

Financial Institution Name: **BancorpSouth**

Primary Contact Name: **Ted Webb**

Telephone Number: **601-545-5001**

Street Address: **100 Hardy Street**

City, State, Zip Code: Hattiesburg, MS 39401

Email Address: ted.webb@bxs.com

Type or Print Name: Ted Webb

Authorized Signature: 

Title: Pine Belt Division President

Date: 1/18/17

STATE OF MISSISSIPPI

Office of the State Treasurer



Having complied with all the requirements of law, and having placed approved securities with the State Treasurer of Mississippi, **BancorpSouth Bank** is hereby appointed a

STATE DEPOSITORY

for a term of one year ending the **thirtieth (30th)** day of **November, 2017**, and is hereby authorized and empowered to receive and disburse, according to law, any and all State Funds, there offered for demand deposits and for investment in Time Certificates of Deposit or other authorized securities, but shall not have on deposit at any time an amount exceeding that authorized by Section 27-105-9, Mississippi Code (1972) as amended, or other applicable law or regulation unless otherwise ordered by the State Treasurer.

In witness whereof, the State Treasurer has ordered this Commission issued and has duly signed and affixed the Seal of the Office of the Treasurer of the State of Mississippi thereto on this the **first day of December, 2016**.

A handwritten signature in cursive script, reading "Lynn Fitch".

Lynn Fitch
Treasurer of the State of Mississippi

MUNICIPALITY BID PROPOSAL FORM

TO BOARD OF ALDERMAN AND MAYOR OF THE CITY OF HATTIESBURG

We submit the following bid proposal for serving as the deposit for City of Hattiesburg for the period beginning January 1, 2017 and ending December 31, 2018 and thereafter until new arrangements shall be made according to law:

1. Trustmark National Bank is insured by the Federal Deposit Insurance Corporation or any successors to such insurance corporation.
2. Trustmark National Bank has met the primary capital to assets ratio of five and one-half percent (5 1/2%) or more as of November 30th, 2016, and has received certification of such from the State Treasurer, and will attach commission in response. **Please attach commission in response.**
3. Trustmark National Bank has 7 offices located in Hattiesburg, Mississippi. Please attach in response a list of all branches located in Forrest County. Include address of each branch.
4. Trustmark National Bank has 60 employees located in Hattiesburg, Mississippi.
5. Trustmark National Bank agrees to place on deposit with City of Hattiesburg (municipality) as security any of the securities eligible for securing of state funds as provided in Section 27-105-5, Mississippi Code Ann. (1972) in an amount at least equal to one hundred and five percent (105%) of the maximum sum to be placed on deposit in such financial institution at any one time exclusive of that portion of accounts insured by the Federal Deposit Insurance Corporation, or any successors to such insurance corporation.
- Or, Trustmark National Bank is a public funds guaranty pool member under sections 27-105-5 and 27-105-6, Mississippi Code Ann. (1972). The qualified financial institution shall secure those deposits by placing qualified securities on deposit with the State Treasurer as provided in section 27-105-5.
6. Trustmark National Bank agrees to execute a Collateral Security Agreement with the Municipality in the form recommended by the State Treasurer of the State of Mississippi for the purpose of complying with Section 1823(e) of FIRREA as necessary to ensure that the Municipality will possess a preferred claim to pledged securities in the event of default by the depository bank. All Collateral Security Agreements will be executed prior to December 1, 2016.
7. Trustmark National Bank agrees to monitor monthly deposits of the municipality in order to ensure adequate securities are pledged and to provide the municipality with an annual report listing accounts reported to the State Treasurer.
8. Trustmark National Bank agrees to prepare monthly statements beginning with the first day of the month and ending with the last day of the month, showing debits, credits, balances, and sequential listing

of cashed checks within five (5) business days of the statement closing date. Bank statements shall include a copy of the front of all checks processed by the institution each month.

9. Trustmark National Bank agrees to pay interest on the Municipality's accounts based on a fixed rate or variable rate. Variable rates shall be equal to the prior month-end U.S. Federal Funds Rate** plus or minus -20 basis points (-.20%). ****For the purposes of the variable rate calculation for the duration of this bid term, we will use the mid-point of the target range (currently between 0.50% & 0.75%) that the Fed currently has in place which is 0.625%.**

CURRENT RATES BASED ON ABOVE CALCULATIONS

	<i>Variable</i>	<i>Fixed</i>
	Fed Funds Target (currently .625%) – 20 Basis Pts (-.20%)	
<i>DDA Checking Accounts</i>	currently .425%** %*	.75 %*
	With a Floor of	
<i>Money Market/Savings Accounts</i>	30 Basis Pts (.30%)%*	.75 %*

Note: Interest shall be earned on the average daily investable balance.

10. Trustmark National Bank agrees to provide earnings allowance on daily Municipality account balances that offset bank service charges. The earnings credit rate (ECR) shall be .20 %*
11. Trustmark National Bank agrees to, if requested, offer advice on cash management and investment strategies necessary to properly utilize the School Municipality's assets.
12. Trustmark National Bank agrees to provide the requested information necessary for the completion of the annual audit at no charge to the municipality or its auditors.
13. Trustmark National Bank agrees to allow the municipality to establish or maintain checking or savings accounts for no charge or minimum charges/fees for deposits credited, checks paid, incoming wire transfers, or returned deposit items. In addition, Trustmark National Bank agrees to provide the services listed on the following page at no charge or minimum charge to the municipality based on account data provided by the municipality and data listed below:

Account Data	
<i>Average Monthly Ledger Balance</i>	Varies by Account
<i>Number of DDA Checking Accounts</i>	Approximately 25
<i>Number of Savings Accounts</i>	0

***Trustmark Bank does not allow ECR & Interest Rates on Deposits. It will be one or the other, not both.**

Completed By Municipality			Financial Institution's Response	
Account Services	Services Utilized? (Yes/No/Interested)	Monthly Average Volume	Provided at No Charge (Yes or No)	Direct Fee or Service Charge (Indicate Fee or Charge)
<i>Stop Payments</i>	Yes	Very Infrequent	Yes	
<i>Outgoing Wire Transfers</i>	Yes	Infrequent	Yes	
<i>Incoming Wire Transfers</i>	Yes	Infrequent	Yes	
<i>Night Depository Services</i>	Choose a response.		Yes	
<i>Locking Bank Bags</i>	Choose a response.		Yes	
<i>Keys for bank night drop</i>	Choose a response.		Yes	
<i>Deposit Slips</i>	Yes		Yes	
<i>Checks</i>	No		No	First Order Free
<i>Re-deposit of returned deposit items at least once</i>	No		Yes	
<i>Research/Statement Reproduction</i>	No		Yes	
<i>Payroll Direct Deposit Services</i>	Yes		No	ACH Origination Pricing Attached
<i>Transactions handled via phone</i>	Yes		Yes	
<i>Cash in to be counted by teller at time of deposit</i>	No		Yes	
<i>Internet Banking Access</i>	Yes		No	TrustNetWeb Pricing Attached
<i>Overdraft Fees and Penalties</i>	No		No	\$36/Overdraft
<i>Positive Pay</i>	No		Yes	Fraud Alert Pricing Attached
<i>Reconciliation</i>	No		Yes	Reconciliation Pricing Attached
<i>Controlled Disbursements</i>	No		Choose an item.	Not Applicable
<i>Stored Value (Payroll) Cards</i>	No		Yes	PayCard Pricing Attached
<i>Lockbox Services</i>	No		Choose an item.	Not Applicable
<i>Check to ACH Conversion</i>	No		Choose an item.	Not Applicable
Note: Please add any additional services you deem necessary or have interest in under "Service" column				
<i>Paymode-X</i>	Yes		Yes	
<i>ACH Alert</i>	Yes		No	Fraud Alert Pricing Attached
<i>CD Check Image</i>	Yes		No	Reconciliation Pricing Attached
<i>Bank at Work</i>	Yes		Yes	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	

14. Trustmark National Bank agrees to provide ledger credit on the same day as deposits occur (holidays and weekends excluded). This includes same day credit on wire transfer of funds from the federal and state government, and same day credit on deposits made by the Municipality prior to 2:00 P.M. CST.

Financial Institution Name: Trustmark National Bank

Primary Contact Name: John Cooper

Telephone Number: 601-583-5240

Street Address: 1 Trustmark Plaza

City, State, Zip Code: Hattiesburg, MS 39401

Email Address: john_cooper@trustmark.com

Type or Print Name: John Cooper

Authorized Signature: 

Title: Vice President

Date: 1/12/17

STATE OF MISSISSIPPI

Office of the State Treasurer

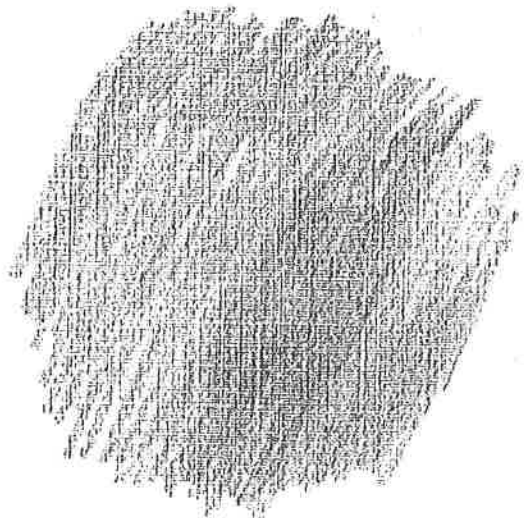


Having complied with all the requirements of law, and having placed approved securities with the State Treasurer of Mississippi, Trustmark National Bank is hereby appointed a

STATE DEPOSITORY

for a term of one year ending the **thirtieth (30th)** day of **November, 2017**, and is hereby authorized and empowered to receive and disburse, according to law, any and all State Funds, there offered for demand deposits and for investment in Time Certificates of Deposit or other authorized securities, but shall not have on deposit at any time an amount exceeding that authorized by Section 27-105-9, Mississippi Code (1972) as amended, or other applicable law or regulation unless otherwise ordered by the State Treasurer.

In witness whereof, the State Treasurer has ordered this Commission issued and has duly signed and affixed the Seal of the Office of the Treasurer of the State of Mississippi thereto on this the **first day of December, 2016**.



A handwritten signature in cursive script, reading "Lynn Fitch", written over a horizontal line.

Lynn Fitch
Treasurer of the State of Mississippi



Cash Management Schedule of Fees

ACH Origination

ACH Fee Schedule	Unit Price
Monthly Fee	\$25.00
Prefunding Monthly Fee	\$50.00
Item Processing (per item)	\$0.13
Return Item Processing (per item)	\$6.00
Notification of Change (per item)	\$1.50

Fees are subject to change from time to time upon written notice to the Customer.



Cash Management Schedule of Fees

TrustNetWeb

Service Description	Fee
Info Reporting (up to 3 accounts), internal transfer, stop payment ¹	\$25.00
Additional Accounts Monthly Fee	\$7.50
Transaction detail per item (first 300 items) ²	\$0.00
Transaction detail per item (301 +) ²	\$0.05
Wire Monthly Access	\$5.00
Bill Pay Monthly Access	\$5.00
Premium Reporting Per Account	\$5.00

Fees are subject to change from time to time upon written notice to the Customer.

1 The stop payment fee in Trustmark's Miscellaneous Service Fees Schedule applies. There is no extra charge for transmitting a stop payment via *TrustNetWeb*.

2 Transactions include all debits and credits reported via TNW on the account(s) enrolled.



Cash Management Schedule of Fees

Fraud Alert Services

ACH Alert Fee Schedule	Fees
Monthly Fee, First Account	\$35.00
Monthly Fee, Additional Accounts	\$15.00
Per Text Notification (standard text messaging rates apply)	\$0.00

Positive Pay Fee Schedule	Fees
Monthly Fee Per Account	\$75.00
Per Check Paid Fee	\$0.06
Exception Item Processing	\$0.00
File Transmission	\$0.00
Issued Item Deletions Per Item	\$0.00

Fraud Alert Package Fee Schedule*	Fees
Monthly Combined Fee, First Account	\$90.00
Monthly Combined Fee, Additional Accounts	\$80.00

**Fraud Alert Package pricing only includes the Monthly Fee Per Account. All other fees still apply.*

Please Note: Fraud Alert Package means ACH Alert and Positive Pay are both used on an account.

Fees are subject to change from time to time upon written notice to the Customer.



Cash Management Schedule of Fees

Recon

Full Recon Fee Schedule	Fees
Minimum Monthly Fee Per Account	\$50.00
1,000 Transactions Per item	\$0.00
Per Item Fee after 1,000 Transactions	\$0.05

Partial Recon Fee Schedule	Fees
Monthly Fee Per Account Minimum	\$50.00
1,000 Transactions Per item	\$0.00
Per Item Fee after 1,000 Transactions	\$0.05

Deposit Serial Range Recon Fee Schedule	Fees
Monthly Fee Per Account Minimum	\$50.00
1,000 Transactions Per item	\$0.00
Per Item Fee after 1,000 Transactions	\$0.05

Special Statement Cutoff Fee Schedule	Fees
Per Cutoff	\$13.00

Fees are subject to change from time to time upon written notice to the Customer.



Cash Management Schedule of Fees

PayCard Services

Employer PayCard Fee Schedule	Fees
Set-up Fee per Employer	\$100.00
Card Issue Fee Through Admin Portal (Mailed to the Employee)	FREE
Instant Issue Card Fee (Per Card). Must be ordered in Increments of 25 Cards.	\$3.00 + Postage

Employee PayCard Fee Schedule	Fees
ATM Withdrawal (One free per pay period)	\$2.00
Cash Withdrawal from Financial Institution (One free per pay period)	\$3.00
ATM International Withdrawal	\$4.00
ATM Balance Inquiry/Decline (International or Domestic)	\$1.00
Money Move (Card to Financial Institution)	\$2.25
Paper Statement	\$4.00
Card Replacement (\$25 for Express Shipping)	\$7.00
Inactivity Fee (Cards with a balance will be assessed a monthly fee after 13 months of no activity)	\$5.00
Point of Sales (POS) PIN Transactions	Free
Signature Transaction	Free
Cash Back from POS	Free
Web Account Access	Free
Customer Service 24/7	Free
Reward Now Program	Free
Text (SMS) or Email Alerts	Free

Fees are subject to change from time to time upon written notice to the Customer.



P.O. Box 1799 • 1300 Hardy Street • Hattiesburg, MS 39403
(601) 545-2700 • FAX (601) 545 5446

A Welcome Change In Banking

M E M O R A N D U M

To: CITY OF HATTIESBURG- KERMAE EATON, CITY CLERK

From: KEN LEE

Date: 1/4/17

Re: BID FOR CITY DEPOSITORY

* * * * *

PLEASE BE ADVISED THAT GREAT SOUTHERN BANK WISHES TO REMAIN A DEPOSITORY FOR CITY FUNDS FOR AN ADDITIONAL TWO YEAR PERIOD. OUR BANK CONTINUES TO PROVIDE SECURITIES THAT SECURE THE FUNDS ON DEPOSIT THAT MEET ALL REQUIREMENTS OF THE STATE STATUTES. ATTACHED IS A LETTER THAT PROVIDES PROOF THAT OUR INSTITUTION IS IN COMPLIANCE WITH ALL THE STATE REQUIREMENTS TO HOLD GOVERNMENT DEPOSITS. ALSO, I HAVE ATTACHED A LETTER SHOWING THAT ALL OF OUR ACCOUNTS ARE FDIC INSURANCE COVERED TO THE MAXIMUM AMOUNT. WE WILL CONTINUE TO PAY THE GOING RATE ON DEPOSITED FUNDS WHICH CURRENTLY IS .05% ON INTEREST CHECKING. WE HAVE APPRECIATED THE CONFIDENCE THE CITY HAS INTRUSTED US WITH AND LOOK FORWARD TO CONTINUED ASSOCIATION WITH YOU.

SINCERELY,

MACK K LEE- PRESIDENT

STATE OF MISSISSIPPI

Office of the State Treasurer



Having complied with all the requirements of law, and having placed approved securities with the State Treasurer of Mississippi, Great Southern Bank is hereby appointed a

STATE DEPOSITORY

for a term of one year ending the **thirtieth (30th)** day of **November, 2017**, and is hereby authorized and empowered to receive and disburse, according to law, any and all State Funds, there offered for demand deposits and for investment in Time Certificates of Deposit or other authorized securities, but shall not have on deposit at any time an amount exceeding that authorized by Section 27-105-9, Mississippi Code (1972) as amended, or other applicable law or regulation unless otherwise ordered by the State Treasurer.

In witness whereof, the State Treasurer has ordered this Commission issued and has duly signed and affixed the Seal of the Office of the Treasurer of the State of Mississippi thereto on this the **first day of December, 2016**.

A handwritten signature in cursive script, reading "Lynn Fitch".

Lynn Fitch
Treasurer of the State of Mississippi

FEDERAL DEPOSIT INSURANCE CORPORATION

WASHINGTON, D.C.

Hereby certifies that the deposits of each depositor in

GREAT SOUTHERN BANK

MERIDIAN

MISSISSIPPI

are insured to the maximum amount provided by the
Federal Deposit Insurance Act

No: **8552**

In testimony whereof, witness my signature and the seal of the
Corporation this 1ST day of APRIL, 2015



Attest:

Robert L. Allen
EXECUTIVE SECRETARY

Martin J. Stuenkel
CHAIRMAN OF THE BOARD OF DIRECTORS



City of Hattiesburg
Attn: Kermas Eaton, City Clerk
P O Box 1898
Hattiesburg, MS 39403

Dear Kermas,

Community Bank would again like to be considered as a Depository for City of Hattiesburg as it has in the past. Community Bank meets all of the legal requirements to serve as a depository for the City of Hattiesburg.

Community Bank will continue to provide checks and deposit tickets for the Pooled Cash account at no cost to the City of Hattiesburg. The interest rate for this account will remain at .65% until December 31, 2018.

Thanks for consideration of Community Bank as a City Depository.

Sincerely

David McCullen
President
Community Bank, Hattiesburg



Brian P. Aehnlich
Hattiesburg President
6480 U.S. Highway 98 West
Hattiesburg, MS 39402
P.O. Box 15549
Hattiesburg, MS 39404-5549

Phone: (601) 450-9210
Fax: (601) 268-8904

www.TheFirstBank.com

January 19, 2017

City of Hattiesburg
Attn: Kermas Eaton, City Clerk
Post Office Box 1310
641 Main Street
Hattiesburg, MS 39403-1310

RE: Bid for Two (2) year Depository

Dear Mr. Eaton:

In response to your recent request for bids, The First, A National Banking Association, a financial institution qualified as a depository pursuant to Section 27-105-315 of the Mississippi Code of 1972, as amended, is pleased to offer **City of Hattiesburg**, State of Mississippi the following bid to serve as depository of its fund. We hereby offer for **2 years**:

a **fixed** rate of **0.65%**, or

a **variable** rate of the 90 day Treasury bill (currently 0.53%) minus 0.20%. Today's rate would be **0.33%**.

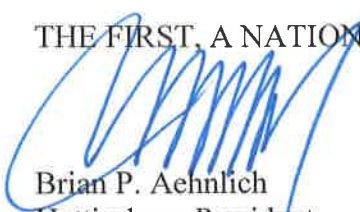
There will be no service charges, account maintenance fees or stop payment fees. Checks and deposit slips shall be provided as the bid calls for. There will be no cash management fees.

The First, A National Banking Association, hereby acknowledges that it is a member of the Federal Deposit Insurance Corporation (FDIC) and a member of the Mississippi Statewide Public Funds Collateral Program as a means of providing security for your deposits.

We appreciate this opportunity to bid and your consideration of same. If you have any questions concerning the above, please contact me at (601) 264-9960.

Sincerely,

THE FIRST, A NATIONAL BANKING ASSOCIATION



Brian P. Aehnlich
Hattiesburg President

MUNICIPALITY BID PROPOSAL FORM

TO THE CITY COUNCIL AND MAYOR OF the **CITY OF HATTIEBURG**:

We submit the following bid proposal for serving as the depository for **CITY OF HATTIESBURG** (municipality) for the period of **TWO YEARS** and thereafter until new arrangements shall be made according to law:

1. **THE FIRST, A NATIONAL BANKING ASSOCIATION** is insured by the Federal Deposit Insurance Corporation or any successors to such insurance corporation.
2. **THE FIRST, A NATIONAL BANKING ASSOCIATION** has met the primary capital to assets ratio of five and one-half percent (5 1/2%) or more as of June 30, 2016, has received certification of such from the State Treasurer, and will attach commission in response. **Please attach commission in response.**
3. **THE FIRST, A NATIONAL BANKING ASSOCIATION** has **2** offices located in HATTEISBURG, Mississippi. **Please attach in response a list of all branches located in the municipality. Include address of each branch.**
4. **THE FIRST, A NATIONAL BANKING ASSOCIATION** has **26** employees located in Hattiesburg, Mississippi.
5. _____ agrees to place on deposit with _____ (municipality) as security any of the securities eligible for securing of state funds as provided in Section 27-105-5, Mississippi Code Ann. (1972) in an amount at least equal to one hundred five percent (105%) of the maximum sum to be placed on deposit in such financial institution at any one time exclusive of that portion of accounts insured by the Federal Deposit Insurance Corporation, or any successors to such insurance corporation.

Or, **THE FIRST, A NATIONAL BANKING ASSOCIATION** is a public funds guaranty pool member under sections 27-105-5 and 27-105-6, Mississippi Code Ann. (1972). The qualified financial institution shall secure those deposits by placing qualified securities on deposit with the State Treasurer as provided in section 27-105-5.

6. **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to execute a Collateral Security Agreement with the Municipality in the form recommended by the State Treasurer of the State of Mississippi for the purpose of complying with Section 1823(e) of FIRREA as necessary to ensure that the Municipality will possess a preferred claim to pledged securities in the event of default by the depository bank. All Collateral Security Agreements will be executed prior to July 1, 2017.
7. **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to monitor monthly deposits of the municipality in order to ensure adequate securities are pledged and to provide the municipality with an annual report listing accounts reported to the State Treasurer.
8. **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to prepare monthly statements beginning with the first day of the month and ending with the last day of the month, showing debits, credits, balances, and sequential listing of cashed checks within five (5) business days of the statement closing date.

9. **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to pay interest on the Municipality's accounts based on a fixed rate or variable rate. Variable rates shall be equal to the prior month-end 90 day U.S. Treasury Bill minus 20 basis points.

CURRENT RATES BASED ON ABOVE CALCULATIONS

	<i>Variable</i>	<i>Fixed</i>
<i>DDA Checking Accounts</i>	<u>0.33%</u>	<u>0.65%</u>
<i>Money Market/Savings Accounts</i>	<u>0.33%</u>	<u>0.65%</u>

Note: Interest shall be earned on the average daily investable balance.

10. _____ agrees to provide earnings allowance on daily Municipality account balances that offset bank service charges. The earnings credit rate (ECR) shall be _____ %

11 **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to, if requested, offer advice on cash management and investment strategies necessary to properly utilize the Municipality's assets.

12 **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to provide the requested information necessary for the completion of the annual audit at no charge to the Municipality or its auditors.

13 **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to allow the Municipality to establish or maintain checking or savings accounts for no charge or minimum charges/fees for deposits credited, checks paid, incoming wire transfers, or returned deposit items. In addition, **THE FIRST, A NATIONAL BANKING ASSOCIATION** agrees to provide the services listed on the following page at no charge or minimum charge to the Municipality based on account data provided by the municipality and data listed below:

Account Data	
<i>Average Monthly Ledger Balance</i>	
<i>Number of DDA Checking Accounts</i>	
<i>Number of Savings Accounts</i>	

Completed By Municipality			Financial Institution's Response	
Account Services	Services Utilized? (Yes/No/Interested)	Monthly Average Volume	Provided at No Charge (Yes or No)	Direct Fee or Service Charge (Indicate Fee or Charge)
<i>Stop Payments</i>	Choose a response.		Yes	
<i>Outgoing Wire Transfers</i>	Choose a response.		Yes	
<i>Incoming Wire Transfers</i>	Choose a response.		Yes	
<i>Night Depository Services</i>	Choose a response.		Yes	
<i>Locking Bank Bags</i>	Choose a response.		Yes	
<i>Keys for bank night drop</i>	Choose a response.		Yes	
<i>Deposit Slips</i>	Choose a response.		Yes	
<i>Checks</i>	Choose a response.		Yes	
<i>Re-deposit of returned deposit items at least once</i>	Choose a response.		Yes	
<i>Research/Statement Reproduction</i>	Choose a response.		Yes	
<i>Payroll Direct Deposit Services</i>	Choose a response.		Yes	
<i>Transactions handled via phone</i>	Choose a response.		Yes	
<i>Cash in to be counted by teller at time of deposit</i>	Choose a response.		Yes	
<i>Internet Banking Access</i>	Choose a response.		Yes	
<i>Overdraft Fees and Penalties</i>	Choose a response.		Yes	
<i>Positive Pay</i>	Choose a response.		Yes	
<i>Reconciliation</i>	Choose a response.		No	
<i>Controlled Disbursements</i>	Choose a response.		Yes	
<i>Stored Value (Payroll) Cards</i>	Choose a response.		No	
<i>Lockbox Services</i>	Choose a response.		No	
<i>Check to ACH Conversion</i>	Choose a response.		No	
Note: Please add any additional services you deem necessary or have interest in under "Service" column				
<i>Remote Deposit Capture</i>	Choose a response.		Yes	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	
	Choose a response.		Choose an item.	

14. THE FIRST, A NATIONAL BANKING ASSOCIATION agrees to provide ledger credit on the same day as deposits occur (holidays and weekends excluded). This includes same day credit on wire transfer of funds from the federal and state government, and same day credit on deposits made by the Municipality prior to 2:00 P.M.CST.

Financial Institution Name: **THE FIRST, A NATIONAL BANKING ASSOCIATION**

Primary Contact Name: Brian P. Aehnlich

Telephone Number: 601-450-9210

Street Address: 110 S. 40th Avenue

City, State, Zip Code: Hattiesburg, MS 39402

Email Address: baehnlich@thefirstbank.com

Type or Print Name: Brian P. Aehnlich

Authorized Signature:

Title: Hattiesburg President

Date: January 19, 2017

A handwritten signature in blue ink, appearing to read 'Brian P. Aehnlich', is written over the 'Authorized Signature' and 'Title' fields.

STATE OF MISSISSIPPI

Office of the State Treasurer



Having complied with all the requirements of law, and having placed approved securities with the State Treasurer of Mississippi, **The First, A National Banking Association** is hereby appointed a

STATE DEPOSITORY

for a term of one year ending the **thirtieth (30th)** day of **November, 2017**, and is hereby authorized and empowered to receive and disburse, according to law, any and all State Funds, there offered for demand deposits and for investment in Time Certificates of Deposit or other authorized securities, but shall not have on deposit at any time an amount exceeding that authorized by Section 27-105-9, Mississippi Code (1972) as amended, or other applicable law or regulation unless otherwise ordered by the State Treasurer.

In witness whereof, the State Treasurer has ordered this Commission issued and has duly signed and affixed the Seal of the Office of the Treasurer of the State of Mississippi thereto on this the **first day of December, 2016**.

A handwritten signature in cursive script, reading "Lynn Fitch".

Lynn Fitch
Treasurer of the State of Mississippi

The First, A National Banking Association

Hattiesburg, MS Locations

Hattiesburg - 40 th Avenue	
	<u>110 S. 40th Ave</u> <u>Hattiesburg MS 39401</u> Drive thru ATM dispenses cash only. Branch Manager: Krystal Phillips
Phone (601) 450-8888	Fax (601) 579-9213
Lobby Hours	Drive-Thru Hours
Monday - Thursday 9:00am - 4:30pm Friday 9:00am - 5:30pm	Monday - Thursday 8:30am - 4:30pm Friday 8:30am - 5:30pm

[Back to Top](#)

Hattiesburg - Lincoln Road	
	<u>2702 Lincoln Road</u> <u>Hattiesburg, MS 39402</u> Drive-up ATM Branch Manager: Katherine Moore
Phone (601) 264-9960	Fax (601) 264-9557
Lobby Hours	Drive-Thru Hours
Monday - Thursday 9:00am - 4:30pm Friday 9:00am - 5:30pm	Monday - Thursday 8:30am - 4:30pm Friday 8:30am - 5:30pm



City of Hattiesburg, MS

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

FILE NUMBER: 2017-179

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Acknowledge & Accept Bid for the COMSWIP Phase IV-Miscellaneous Connections Project

Title: Acknowledge bids received January 12, 2017 for the COMSWIP Water Improvements Phase IV - Miscellaneous Connections project and accept bid from C. B. Developers in the amount of \$271,676.78 as the lowest and best bid.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Bid Tab, Bid-CB Developers, Bid-Myers Underground

File Created: 01/24/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information:

History of Legislative File



Engineering Progress

January 12, 2017

City of Hattiesburg
Post Office Box 1898
Hattiesburg MS 39403-1898

Attn: Lamar Rutland, P.E.

RE: COMSWIP Phase IV – Miscellaneous Connections
City of Hattiesburg

Dear Mr. Rutland:

I have certified the enclosed bid tabulation that represents all bids that were received and opened at 10:00 a.m. on January 12, 2017 for the above referenced project.

I am recommending the lowest bidder, C B Developers of Hattiesburg, MS in the bid amount of Two Hundred Seventy One Thousand, Six Hundred Seventy Six Dollars and Seventy Eight Cents (\$271,676.78).

Enclosed is a copy of the original bid from C B Developers and the original bids from all other bidders.

Should you have any questions and/or comments, please, do not hesitate to contact me.

Sincerely,



Kyle D. Wallace, P.E.
Project Engineer

/aa

Enclosures

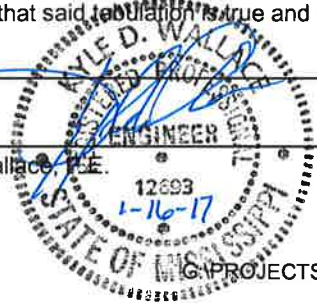
BID TAB				DATE: 1-12-2017		CB Developers		Myers Underground	
Project:		Comprehensive Water Improvements Ph. IV - Miscellaneous Connections		1716 Evelyn Gandy Parkway Suite 40 Hattiesburg, MS 39401		408 Ryan Road Hattiesburg, MS 39401			
Project No.		1273-W009							
Item No.	Item Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount		
Site 1 – Old Highway 42 By Pass									
1	8" Class 350 Ductile Iron Water Pipe (Open Cut)	1180	LF	\$34.01	\$40,131.80	\$42.20	\$49,796.00		
2	Connection: Proposed 8" Water Line to Existing 8" Water Line	2	Each	\$2,412.69	\$4,825.38	\$1,525.00	\$3,050.00		
3	8" Gate Valve	1	Each	\$1,070.88	\$1,070.88	\$1,350.00	\$1,350.00		
4	2" Service Tap	4	Each	\$725.03	\$2,900.12	\$910.00	\$3,640.00		
5	Concrete Pavement Repair (All Depths)	85	SY	\$58.75	\$4,993.75	\$76.00	\$6,460.00		
6	Asphalt Pavement Repair (All Depths)	100	SY	\$72.86	\$7,286.00	\$66.20	\$6,620.00		
7	Concrete Curb & Gutter Repair (All Types)	10	LF	\$82.26	\$822.60	\$4.00	\$40.00		
8	Temporary Erosion Control	1	LS	\$3,525.26	\$3,525.26	\$6,715.00	\$6,715.00		
9	Grassing	1	LS	\$2,056.40	\$2,056.40	\$3,060.00	\$3,060.00		
10	Mobilization	1	LS	\$2,937.72	\$2,937.72	\$2,770.00	\$2,770.00		
11	Maintenance of Traffic	1	LS	\$3,525.26	\$3,525.26	\$4,800.00	\$4,800.00		
	SUB TOTAL SITE 1				\$74,075.17		\$88,301.00		
Site 2 – Old Highway 42 By Pass									
1	12" Class 350 Ductile Iron Water Pipe (Open Cut)	500	LF	\$54.62	\$27,310.00	\$68.30	\$34,150.00		
2	Connection: Proposed 12" Water Line to Existing 12" Gate Line	2	Each	\$1,205.98	\$2,411.96	\$2,815.00	\$5,630.00		
3	12" Gate Valve	2	Each	\$1,971.80	\$3,943.60	\$2,880.00	\$5,760.00		
4	Driveway Repair (Class 4, Group B), LVM	35	CY	\$55.23	\$1,933.05	\$76.00	\$2,660.00		
5	Trench Repair, Select Fill (Class 9 , Group C), LVM	60	CY	\$13.51	\$810.60	\$38.25	\$2,295.00		
6	Asphalt Pavement Repair (All Depths)	30	SY	\$99.88	\$2,996.40	\$65.00	\$1,950.00		
7	Temporary Erosion Control	1	LS	\$587.54	\$587.54	\$1,110.00	\$1,110.00		
8	Grassing	1	LS	\$381.90	\$381.90	\$1,240.00	\$1,240.00		
9	Mobilization	1	LS	\$1,762.63	\$1,762.63	\$1,975.00	\$1,975.00		
10	Maintenance of Traffic	1	LS	\$1,762.63	\$1,762.63	\$7,600.00	\$7,600.00		
	SUB TOTAL SITE 2				\$43,900.31		\$64,370.00		
Site 3 – Old Highway 42 By Pass									
1	12" Class 350 Ductile Iron Water Pipe (Open Cut)	240	LF	\$55.44	\$13,305.60	\$74.00	\$17,760.00		

BID TAB DATE: 1-12-2017 Project: Comprehensive Water Improvements Ph. IV - Miscellaneous Connections Project No. 1273-W009				CB Developers 1716 Evelyn Gandy Parkway Suite 40 Hattiesburg, MS 39401		Myers Underground 408 Ryan Road Hattiesburg, MS 39401	
Item No.	Item Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount
2	20" Steel Casing (Open Cut)	100	LF	\$86.55	\$8,655.00	\$99.00	\$9,900.00
3	Connection: Proposed 12" Water Line to Existing Water Line	2	Each	\$2,323.15	\$4,646.30	\$2,815.00	\$5,630.00
4	12" Gate Valve	2	Each	\$1,917.80	\$3,943.60	\$2,915.00	\$5,830.00
5	12" Insert-A-Valve	1	Each	\$15,041.13	\$15,041.13	\$17,950.00	\$17,950.00
6	Rip Rap (Size 300)	20	SY	\$49.94	\$998.80	\$81.00	\$1,620.00
7	Asphalt Pavement Repair (All Depths)	30	SY	\$99.88	\$2,996.40	\$108.00	\$3,240.00
8	Concrete Curb & Gutter Repair	10	LF	\$82.26	\$822.60	\$73.30	\$733.00
9	Temporary Erosion Control	1	LS	\$587.54	\$587.54	\$65.00	\$65.00
10	Grassing	1	LS	\$381.90	\$381.90	\$130.00	\$130.00
11	Mobilization	1	LS	\$1,762.63	\$1,762.63	\$590.00	\$590.00
12	Maintenance of Traffic	1	LS	\$1,762.63	\$1,762.63	\$3,800.00	\$3,800.00
SUB TOTAL SITE 3					\$54,904.13		\$67,248.00
Site 4 – Walnut Street							
1	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	\$36.96	\$8,500.80	\$57.60	\$13,248.00
2	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	\$2,277.32	\$4,554.64	\$2,730.00	\$5,460.00
3	6" Gate Valve	2	Each	\$815.51	\$1,631.02	\$1,060.00	\$2,120.00
4	Asphalt Pavement Repair (All Depths)	20	SY	\$99.88	\$1,997.60	\$120.00	\$2,400.00
5	Temporary Erosion Control	1	LS	\$1.18	\$1.18	\$65.50	\$65.50
6	Grassing	1	LS	\$1.18	\$1.18	\$55.00	\$55.00
7	Mobilization	1	LS	\$2,937.72	\$2,937.72	\$720.00	\$720.00
8	Maintenance of Traffic	1	LS	\$2,937.72	\$2,937.72	\$780.00	\$780.00
SUB TOTAL SITE 4					\$22,561.86		\$24,848.50
Site 5 – Katie Avenue							
1	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	\$36.96	\$8,500.80	\$57.60	\$13,248.00
2	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	\$2,042.30	\$4,084.60	\$2,730.00	\$5,460.00
3	6" Gate Valve	2	Each	\$815.51	\$1,631.02	\$1,060.00	\$2,120.00
4	Asphalt Pavement Repair (All Depths)	20	SY	\$99.88	\$1,997.60	\$120.00	\$2,400.00
5	Temporary Erosion Control	1	LS	\$1.18	\$1.18	\$80.00	\$80.00
6	Grassing	1	LS	\$1.18	\$1.18	\$52.00	\$52.00
7	Mobilization	1	LS	\$2,937.72	\$2,937.72	\$500.00	\$500.00
8	Maintenance of Traffic	1	LS	\$1,762.63	\$1,762.63	\$800.00	\$800.00
SUB TOTAL SITE 5					\$20,916.73		\$24,660.00

BID TAB				DATE: 1-12-2017		CB Developers		Myers Underground	
Project:		Comprehensive Water Improvements Ph. IV - Miscellaneous Connections				1716 Evelyn Gandy Parkway Suite 40 Hattiesburg, MS 39401		408 Ryan Road Hattiesburg, MS 39401	
Project No.		1273-W009							
Item No.		Item Description		Quantity	Unit	Unit Price	Amount	Unit Price	Amount
		Site 6 – Arledge Street							
1		8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)		230	LF	\$49.71	\$11,433.30	\$69.50	\$15,985.00
2		Connection: Proposed 8" Water Line to Existing 6" Water Line		2	Each	\$2,457.11	\$4,914.22	\$2,700.00	\$5,400.00
3		8" Gate Valve		2	Each	\$1,101.06	\$2,202.12	\$1,560.00	\$3,120.00
4		2" Service Tap		1	Each	\$725.03	\$725.03	\$1,525.00	\$1,525.00
5		Asphalt Pavement Repair (All Depths)		20	SY	\$99.88	\$1,997.60	\$120.00	\$2,400.00
6		Temporary Erosion Control		1	LS	\$1.18	\$1.18	\$75.00	\$75.00
7		Grassing		1	LS	\$1.18	\$1.18	\$80.00	\$80.00
8		Mobilization		1	LS	\$2,937.72	\$2,937.72	\$460.00	\$460.00
9		Maintenance of Traffic		1	LS	\$2,056.40	\$2,056.40	\$800.00	\$800.00
		SUB TOTAL SITE 6					\$26,268.75		\$29,845.00
		Site 7 – Edwards Street							
1		8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)		260	LF	\$49.55	\$12,883.00	\$74.50	\$19,370.00
2		Connection: Proposed 8" Water Line to Existing Water Line		2	Each	\$2,457.11	\$4,914.22	\$2,825.00	\$5,650.00
3		8" Gate Valve		2	Each	\$1,101.06	\$2,202.12	\$1,560.00	\$3,120.00
4		Asphalt Pavement Repair (All Depths)		20	SY	\$99.88	\$1,997.60	\$140.00	\$2,800.00
5		Temporary Erosion Control		1	LS	\$1.18	\$1.18	\$40.00	\$40.00
6		Grassing		1	LS	\$1.18	\$1.18	\$45.00	\$45.00
7		Mobilization		1	LS	\$2,937.72	\$2,937.72	\$720.00	\$720.00
8		Maintenance of Traffic		1	LS	\$4,112.81	\$4,112.81	\$5,000.00	\$5,000.00
		SUB TOTAL SITE 7					\$29,049.83		\$36,745.00
		TOTAL SITES 1-7					\$271,676.78		\$336,017.50

This is to certify that I have checked the tabulation of the bids received by the City of Hattiesburg on January 12, 2017 at 10:00 a.m., and that said tabulation is true and correct to the best of my belief.

Kyle D. Wallace, P.E.



Comments:

* mathematical correction

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 January 12, 2017 in the City Clerk's Office in the City Hall at 200 Forrest Street of said City for furnishing the City's requirements for the following:

COMPREHENSIVE WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of \$100.00, 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 WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS 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., 2016.

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____
Kermas Eaton, City Clerk

Publish on December 9, 2016 and December 16, 2016
City of Hattiesburg
Return PROOF to City Clerk's Office
PO Box 1898
Hattiesburg, MS 39403-1898

PROPOSAL FORM

I (we) agree to begin work within (10) calendar days after the issuance of Work Order, and to complete the work within 180 calendar days thereafter. The undersigned further agrees that the unit bid price quoted includes all items of work required or necessary for the accomplishment of the projected work. BIDDERS agree to perform all the work described in the CONTRACT DOCUMENTS for the following unit bid prices:

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 1 – Old Highway 42 By Pass					
Water Pipe Items					
1.	8" Class 350 Ductile Iron Water Pipe (Open Cut)	1180	LF	34.01	40131.80
Connection Items					
2.	Connection: Proposed 8" Water Line to Existing 8" Water Line	2	Each	2412.69	4825.38
3.	8" Gate Valve	1	Each	1070.88	1070.88
4.	2" Service Tap	4	Each	725.03	2900.12
Miscellaneous Construction Items					
5.	Concrete Pavement Repair (All Depths)	85	SY	58.75	4993.75
6.	Asphalt Pavement Repair (All Depths)	100	SY	72.86	7286.00
7.	Concrete Curb & Gutter Repair (All Types)	10	LF	82.26	822.60
8.	Temporary Erosion Control	1	LS	3525.26	3525.26
9.	Grassing	1	LS	2056.40	2056.40
10.	Mobilization	1	LS	2937.72	2937.72
11.	Maintenance of Traffic	1	LS	3525.26	3525.26
SUB TOTAL (SITE 1):					74,075.17

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 2 – Old Highway 42 By Pass					
	Water Pipe Items				
1.	12" Class 350 Ductile Iron Water Pipe (Open Cut)	500	LF	54.62	27,310.00
	Connection Items				
2.	Connection: Proposed 12" Water Line to Existing 12" Gate Line	2	Each	1205.98	2411.96
3.	12" Gate Valve	2	Each	1971.80	3943.60
	Miscellaneous Construction Items				
4.	Driveway Repair (Class 4, Group B), LVM	35	CY	55.23	1933.05
5.	Trench Repair, Select Fill (Class 9, Group C), LVM	60	CY	13.51	810.60
6.	Asphalt Pavement Repair (All Depths)	30	SY	99.88	2996.40
7.	Temporary Erosion Control	1	LS	587.54	587.54
8.	Grassing	1	LS	381.90	381.90
9.	Mobilization	1	LS	1762.63	1762.63
10.	Maintenance of Traffic	1	LS	1762.63	1762.63
SUB TOTAL (SITE 2):					43900.31

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 3 – Old Highway 42 By Pass					
	Water Pipe Items				
1.	12" Class 350 Ductile Iron Water Pipe (Open Cut)	240	LF	55.44	13305.60
2.	20" Steel Casing (Open Cut)	100	LF	86.55	8655.00
	Connection Items				
3.	Connection: Proposed 12" Water Line to Existing Water Line	2	Each	2323.15	4646.30
4.	12" Gate Valve	2	Each	1971.80	3943.60
5.	12" Insert-A-Valve	1	Each	15041.13	15041.13
	Miscellaneous Construction Items				
6.	Rip Rap (Size 300)	20	SY	49.94	998.80
7.	Asphalt Pavement Repair (All Depths)	30	SY	99.88	2996.40
8.	Concrete Curb & Gutter Repair	10	LF	82.26	822.60
9.	Temporary Erosion Control	1	LS	587.54	587.54
10.	Grassing	1	LS	381.90	381.90
11.	Mobilization	1	LS	1762.63	1762.63
12.	Maintenance of Traffic	1	LS	1762.63	1762.63
SUB TOTAL (SITE 3):					54904.13

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 4 – Walnut Street					
	Water Pipe Items				
1.	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	36.96	8500.80
	Connection Items				
2.	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	2277.32	4554.64
3.	6" Gate Valve	2	Each	815.51	1631.02
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	99.88	1997.60
5.	Temporary Erosion Control	1	LS	1.18	1.18
6.	Grassing	1	LS	1.18	1.18
7.	Mobilization	1	LS	2937.72	2937.72
8.	Maintenance of Traffic	1	LS	2937.72	2937.72
SUB TOTAL (SITE 4):				21680.54	21680.54

2937.72 - AA

22,561.86 - AA

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 5 – Katie Avenue					
	Water Pipe Items				
1.	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	36.96	8500.80
	Connection Items				
2.	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	2042.30	4084.60
3.	6" Gate Valve	2	Each	815.51	1631.02
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	99.88	1997.60
5.	Temporary Erosion Control	1	LS	1.18	1.18
6.	Grassing	1	LS	1.18	1.18
7.	Mobilization	1	LS	2937.72	2937.72
8.	Maintenance of Traffic	1	LS	1762.63	1762.63
SUB TOTAL (SITE 5):				20916.73	

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 6 – Arledge Street					
	Water Pipe Items				
1.	8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	49.71	11433.30
	Connection Items				
2.	Connection: Proposed 8" Water Line to Existing 6" Water Line	2	Each	2457.11	4914.22
3.	8" Gate Valve	2	Each	1101.06	2202.12
4.	2" Service Tap	1	Each	725.03	725.03
	Miscellaneous Construction Items				
5.	Asphalt Pavement Repair (All Depths)	20	SY	99.88	1997.60
6.	Temporary Erosion Control	1	LS	1.18	1.18
7.	Grassing	1	LS	1.18	1.18
8.	Mobilization	1	LS	2437.72	2437.72
9.	Maintenance of Traffic	1	LS	2056.40	2056.40
SUB TOTAL (SITE 6):					26268.75

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 7 – Edwards Street					
	Water Pipe Items				
1.	8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	260	LF	49.55	12,883.00
	Connection Items				
2.	Connection: Proposed 8" Water Line to Existing Water Line	2	Each	2457.11	4914.22
3.	8" Gate Valve	2	Each	1101.06	2202.12
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	99.88	1997.60
5.	Temporary Erosion Control	1	LS	1.18	1.18
6.	Grassing	1	LS	1.18	1.18
7.	Mobilization	1	LS	2937.72	2937.72
8.	Maintenance of Traffic	1	LS	4112.81	4112.81
SUB TOTAL (SITE 7):				29,049.83	
PROJECT TOTAL				290,795.46	
SITE No. 1 - 7:				271,676.78	- AA

271,676.78 - AA

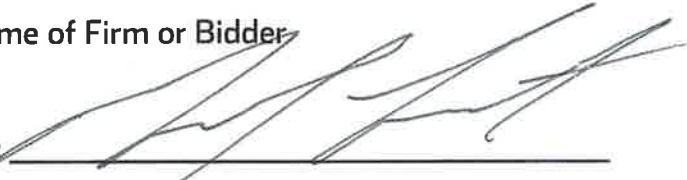
The undersigned certifies that the bid prices contained herein have been carefully checked and is submitted as correct and final.

If within thirty (30) days of the scheduled closing time for receipt of bids, this Proposal is accepted, the undersigned will execute a formal contract within ten (10) 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,

C.B. Developers, Inc.

Name of Firm or Bidder

By: 

1716 Evelyn Gandy Pkwy, Hattiesburg, MS 39401
Address

Hattiesburg, MS 39401
City, State

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, C.B. Developers, Inc.
as Principal, and Arch Insurance Company
as Surety, are hereby held and firmly bound unto City of Hattiesburg
as Owner, in the penal sum
of Five Percent of Amount Bid 5% DOLLARS
(5%) for the payment of which, well and truly to be made, we
hereby jointly and severally bind ourselves, successors and assigns. Signed, this
12th day of January, 2017. The condition of the above obligation is
such that whereas the Principal has submitted to City of Hattiesburg
a certain BID, attached hereto and hereby made a part hereof to enter
into a contract in writing for the Comprehensive Water Improvements Phase IV-
Miscellaneous Connections, Hattiesburg, MS

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 be impaired or affected by an 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 offices, the day and year first set forth above.

C.B. Developers, Inc.

By:

(Principal)

(L.S.)

Arch Insurance Company

(Surety)

By:

Brody Eric Buckley

Attorney-in-Fact

Resident MS Agent/Bottrell Insurance

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for Mortgage, Note, Loan, Letter of Credit, Bank Deposit, Currency Rate, Interest Rate or Residential Value Guarantees.

POWER OF ATTORNEY

Know All Persons By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal administrative office in Jersey City, New Jersey (hereinafter referred to as the "Company") does hereby appoint:

Brody Eric Buckley

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds, undertakings, recognizances and other surety obligations.

Surety Bond Number: Bid Bond

Principal: C.B. Developers, Inc.

Obligee: City of Hattiesburg

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The execution of such bonds, undertakings, recognizances and other surety obligations in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal administrative office in Jersey City, New Jersey.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on September 15, 2011, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them subject to the limitations set forth in their respective powers of attorney, to execute on behalf of the Company, and attach the seal of the Company thereto, bonds, undertakings, recognizances and other surety obligations obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

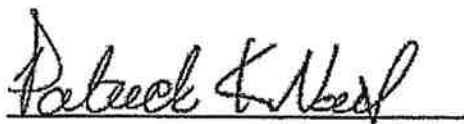
This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on September 15, 2011:

VOTED, That the signature of the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on September 15, 2011, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

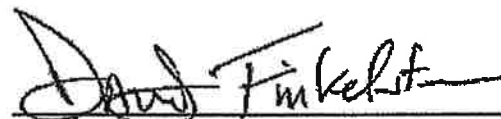
In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 12th day of January, 2017.

Attested and Certified

Arch Insurance Company



Patrick K. Nails, Secretary

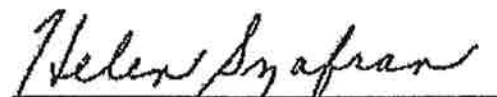



David M. Finkelstein, Executive Vice President

STATE OF PENNSYLVANIA SS

COUNTY OF PHILADELPHIA SS

I, Helen Szafran, a Notary Public, do hereby certify that Patrick K. Nails and David M. Finkelstein personally known to me to be the same persons whose names are respectively as Secretary and Executive Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

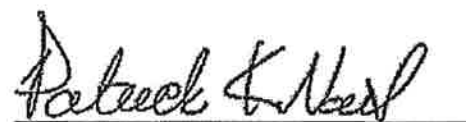



Helen Szafran, Notary Public
My commission expires 10/03/2017

CERTIFICATION

I, Patrick K. Nails, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated January 12, 2017 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said David M. Finkelstein, who executed the Power of Attorney as Executive Vice President, was on the date of execution of the attached Power of Attorney the duly elected Executive Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 12th day of January, 2017.



Patrick K. Nails, Secretary

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

Arch Insurance – Surety Division
3 Parkway, Suite 1500
Philadelphia, PA 19102



ADDENDUM No. 1
to the
CONTRACT DOCUMENTS and SPECIFICATIONS
for the
COMSWIP Water Improvements Phase IV – Miscellaneous Connections

CITY of HATTIESBURG

The following attached modifications are to be made to the specifications and contract documents for the above captioned project:

- CHANGE No. 1 -** The HDPE Dimension Ratio shall be "DR - 9" as called for in the Plan Documents.
- CHANGE No. 2 -** For Site 3, the 20" Steel Casing required shall be Open Cut and spanned across the ditch. Replacement of rip rap is also required and included in the Bid Proposal.
- CHANGE No. 3 -** 20 S.Y. of Asphalt Pavement Repair (All Depths) shall be added to EACH of the following sites in the Plan Documents: Site 4, Site 6 and Site 7.
- CHANGE No. 4 -** For Site 3, an existing 12" broken valve shall be removed and replaced with 12" DI pipe material and necessary fittings. An Insert-A-Valve shall be installed as noted, see Addendum No. 1 attached.

SHOWS, DEARMAN & WAITS, INC.

CITY OF HATTIESBURG

by:

Kyle D. Wallace, P.E.

12693

1-9-17

by:

Kermas Eaton, City Clerk

Dated this 9th day of January, 2013

**The receipt of this Addendum shall be indicated by signature on the line below.
A signed copy of the Addendum shall accompany the Bid Proposal.**

Contractor: C.B. Developers, Inc.

Signature: [Signature]

Title: Project Manager

SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

**COMPREHENSIVE WATER IMPROVEMENTS PHASE IV
MISCELLANEOUS CONNECTIONS**

FOR THE

**CITY OF HATTIESBURG
FORREST COUNTY
MISSISSIPPI**

NOVEMBER 2016



PREPARED BY:

**SHOWS, DEARMAN & WAITS, INC.
CONSULTING ENGINEERS
301 SECOND AVENUE
HATTIESBURG, MISSISSIPPI
(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 January 12, 2017 in the City Clerk's Office in the City Hall at 200 Forrest Street of said City for furnishing the City's requirements for the following:

COMPREHENSIVE WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS HATTIESBURG, MISSISSIPPI

Plans, Specifications and proposal forms may be obtained from Shows, Dearman & Waits, Inc., 301 Second Avenue, Hattiesburg, Mississippi, 39401, upon deposit of \$100.00, 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 WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS 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., 2016.

CITY OF HATTIESBURG, MISSISSIPPI

BY:

Kernas Eaton, City Clerk

Publish on December 9, 2016 and December 16, 2016

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 January 12, 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 WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS 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 (10) calendar days after the issuance of Work Order, and to complete the work within 180 calendar days thereafter. The undersigned further agrees that the unit bid price quoted includes all items of work required or necessary for the accomplishment of the projected work. BIDDERS agree to perform all the work described in the CONTRACT DOCUMENTS for the following unit bid prices:

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 1 – Old Highway 42 By Pass					
Water Pipe Items					
1.	8" Class 350 Ductile Iron Water Pipe (Open Cut)	1180	LF	42.20	49,796.00
Connection Items					
2.	Connection: Proposed 8" Water Line to Existing 8" Water Line	2	Each	152.50	305.00
3.	8" Gate Valve	1	Each	1350.00	1350.00
4.	2" Service Tap	4	Each	910.00	3640.00
Miscellaneous Construction Items					
5.	Concrete Pavement Repair (All Depths)	85	SY	76.00	6460.00
6.	Asphalt Pavement Repair (All Depths)	100	SY	66.20	6620.00
7.	Concrete Curb & Gutter Repair (All Types)	10	LF	4.00	40.00
8.	Temporary Erosion Control	1	LS	6715.00	6715.00
9.	Grassing	1	LS	3060.00	3060.00
10.	Mobilization	1	LS	2770.00	2770.00
11.	Maintenance of Traffic	1	LS	4800.00	4800.00
SUB TOTAL (SITE 1):					88361.00

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 2 – Old Highway 42 By Pass					
	Water Pipe Items				
1.	12" Class 350 Ductile Iron Water Pipe (Open Cut)	500	LF	68.32	34,150.00
	Connection Items				
2.	Connection: Proposed 12" Water Line to Existing 12" Gate Line	2	Each	281.50	563.00
3.	12" Gate Valve	2	Each	288.00	576.00
	Miscellaneous Construction Items				
4.	Driveway Repair (Class 4, Group B), LVM	35	CY	76.00	2,660.00
5.	Trench Repair, Select Fill (Class 9, Group C), LVM	60	CY	382.50	22,950.00
6.	Asphalt Pavement Repair (All Depths)	30	SY	65.00	1,950.00
7.	Temporary Erosion Control	1	LS	1110.00	1110.00
8.	Grassing	1	LS	1240.00	1240.00
9.	Mobilization	1	LS	1975.00	1975.00
10.	Maintenance of Traffic	1	LS	760.00	760.00
SUB TOTAL (SITE 2):					64,370.00

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 3 – Old Highway 42 By Pass					
Water Pipe Items					
1.	12" Class 350 Ductile Iron Water Pipe (Open Cut)	240	LF	74 ⁰⁰ ¢	17,760 ⁰⁰ ¢
2.	20" Steel Casing (Open Cut)	100	LF	990 ⁰⁰ ¢	99,000 ⁰⁰ ¢
Connection Items					
3.	Connection: Proposed 12" Water Line to Existing Water Line	2	Each	2815 ⁰⁰ ¢	5,630 ⁰⁰ ¢
4.	12" Gate Valve	2	Each	2915 ⁰⁰ ¢	5,830 ⁰⁰ ¢
5.	12" Insert-A-Valve	1	Each	17,950 ⁰⁰ ¢	17,950 ⁰⁰ ¢
Miscellaneous Construction Items					
6.	Rip Rap (Size 300)	20	SY	81 ⁰⁰ ¢	1,620 ⁰⁰ ¢
7.	Asphalt Pavement Repair (All Depths)	30	SY	108 ⁰⁰ ¢	3,240 ⁰⁰ ¢
8.	Concrete Curb & Gutter Repair	10	LF	733 ⁰⁰ ¢	7,330 ⁰⁰ ¢
9.	Temporary Erosion Control	1	LS	65 ⁰⁰ ¢	65 ⁰⁰ ¢
10.	Grassing	1	LS	130 ⁰⁰ ¢	130 ⁰⁰ ¢
11.	Mobilization	1	LS	590 ⁰⁰ ¢	590 ⁰⁰ ¢
12.	Maintenance of Traffic	1	LS	3800 ⁰⁰ ¢	3,800 ⁰⁰ ¢
SUB TOTAL (SITE 3):					67,248⁰⁰¢

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 4 – Walnut Street					
	Water Pipe Items				
1.	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	57 ⁰⁰	13,248
	Connection Items				
2.	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	2730 ⁰⁰	5460 ⁰⁰
3.	6" Gate Valve	2	Each	1060 ⁰⁰	2120 ⁰⁰
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	120 ⁰⁰	2400 ⁰⁰
5.	Temporary Erosion Control	1	LS	65 ⁰⁰	65 ⁰⁰
6.	Grassing	1	LS	55 ⁰⁰	55 ⁰⁰
7.	Mobilization	1	LS	720 ⁰⁰	720 ⁰⁰
8.	Maintenance of Traffic	1	LS	780 ⁰⁰	780 ⁰⁰
SUB TOTAL (SITE 4):					24,848⁰⁰

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 5 – Katie Avenue					
	Water Pipe Items				
1.	6" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	57 ⁶⁰	13248 ⁰⁰
	Connection Items				
2.	Connection: Proposed 6" Water Line to Existing 4" Water Line	2	Each	2730 ⁰⁰	5460 ⁰⁰
3.	6" Gate Valve	2	Each	1060 ⁰⁰	2120 ⁰⁰
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	120 ⁰⁰	2400 ⁰⁰
5.	Temporary Erosion Control	1	LS	80 ⁰⁰	80 ⁰⁰
6.	Grassing	1	LS	52 ⁰⁰	52 ⁰⁰
7.	Mobilization	1	LS	500 ⁰⁰	500 ⁰⁰
8.	Maintenance of Traffic	1	LS	800 ⁰⁰	800 ⁰⁰
SUB TOTAL (SITE 5):					24660⁰⁰

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Site 6 – Arledge Street					
	Water Pipe Items				
1.	8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	230	LF	69 ⁰⁰	15985 ⁰⁰
	Connection Items				
2.	Connection: Proposed 8" Water Line to Existing 6" Water Line	2	Each	2700 ⁰⁰	5400 ⁰⁰
3.	8" Gate Valve	2	Each	1560 ⁰⁰	3120 ⁰⁰
4.	2" Service Tap	1	Each	1525 ⁰⁰	1525 ⁰⁰
	Miscellaneous Construction Items				
5.	Asphalt Pavement Repair (All Depths)	20	SY	120 ⁰⁰	2400 ⁰⁰
6.	Temporary Erosion Control	1	LS	75 ⁰⁰	75 ⁰⁰
7.	Grassing	1	LS	80 ⁰⁰	80 ⁰⁰
8.	Mobilization	1	LS	460 ⁰⁰	460 ⁰⁰
9.	Maintenance of Traffic	1	LS	800 ⁰⁰	800 ⁰⁰
SUB TOTAL (SITE 6):					29,845⁰⁰

ADDENDUM No. 1

ITEM No.	DESCRIPTION	QUANTITY	UNIT	PRICE	EXTENSION
Site 7 – Edwards Street					
	Water Pipe Items				
1.	8" 200 PSI, DR 9, HDPE Water Pipe (Directional Bore) (Incl. adapter fittings)	260	LF	7450	19,370 ⁰⁰
	Connection Items				
2.	Connection: Proposed 8" Water Line to Existing Water Line	2	Each	28250⁰⁰	5650 ⁰⁰
3.	8" Gate Valve	2	Each	1560⁰⁰	3120 ⁰⁰
	Miscellaneous Construction Items				
4.	Asphalt Pavement Repair (All Depths)	20	SY	140⁰⁰	2800 ⁰⁰
5.	Temporary Erosion Control	1	LS	40⁰⁰	40 ⁰⁰
6.	Grassing	1	LS	45⁰⁰	45 ⁰⁰
7.	Mobilization	1	LS	720⁰⁰	720 ⁰⁰
8.	Maintenance of Traffic	1	LS	5000⁰⁰	5000 ⁰⁰
SUB TOTAL (SITE 7):					36,745⁰⁰
PROJECT TOTAL					336,017 ⁵⁰
SITE No. 1 - 7:					

The undersigned certifies that the bid prices contained herein have been carefully checked and is submitted as correct and final.

If within thirty (30) days of the scheduled closing time for receipt of bids, this Proposal is accepted, the undersigned will execute a formal contract within ten (10) 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,

Myers Underground Utilities

Name of Firm or Bidder

By: *Jeffrey Myers*

408 Ryan Rd.
Address

Hiburg, MS 39401
City, State

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 5% (Five Percent) for payment of which, well and truly to be 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 certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the following project:

**COMPREHENSIVE WATER IMPROVEMENTS PHASE IV
MISCELLANEOUS CONNECTIONS
HATTIESBURG, MISSISSIPPI**

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.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current line (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

PRINCIPAL _____ (L.S.)
SURETY _____
BY: _____

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 WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS

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 herunto that the OWNER agrees to pay and the Contractor agrees to accept full and final compensation of 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 \$ 350.00 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 five percent (5%) 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:

City of Hattiesburg

SEAL

BY _____

Title _____

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 unauthorised 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 City of Hattiesburg, (hereinafter called the Oblige), a Municipality 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 Oblige to do all work necessary and to furnish labor, materials, tools, supplies and services to construct COMPREHENSIVE WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS 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 Oblige perform and complete the work required, and shall defend, indemnify and save harmless said Oblige 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 Oblige 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 Oblige 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 Specifications.

PROVIDED FURTHER, 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)

WITNESSES:

PRINCIPAL

ADDRESS

Name of person executing for Principal

TITLE

SURETY

ADDRESS

Name of person executing for Surety

TITLE

WITNESSES:

NOTICE OF AWARD

TO:

Project: **COMPREHENSIVE WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS**

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: **COMPREHENSIVE WATER IMPROVEMENTS PHASE IV MISCELLANEOUS CONNECTIONS**

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 180 consecutive CALENDAR DAYS thereafter. The date of completion of all WORK is therefore _____, 20____.

CITY OF HATTIESBURG
OWNER

BY:

Mayor

TITLE:

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 the 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 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 not 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 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 Specifications, are intended to denote the standard of quality required for the particular material or product. The use of a brand name 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

6.4 All materials and equipment will be new, except as otherwise provided in the Contract

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.

6.2 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.

Labor, Materials and Equipment:

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.)

Supervision and Superintendence:

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES:

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.

Cancellation and Re-Insurance:

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.

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.

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 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 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 & 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 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 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 percent of the payment claimed until work is 50 percent complete;

14.1.2 When Work is 50 percent complete, reduction of the withholding to 5 percent 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 percent to only that amount necessary to assure completion.

14.1.4 The OWNER may reinstate up to 10 percent 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. This agreement so to arbitrate shall be specifically enforceable under the prevailing arbitration law. The arbitrators shall specify the amount of any award rendered is designated or each specific bid item. The award rendered by the arbitrators shall be final, and judgment may be entered upon it in any court having jurisdiction thereof.

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 10% 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 the following bid items shall be as described and shall include all material, equipment, labor, testing, etc. to install and make operational a complete water system as detailed on the contract drawings and as specified in the contract documents.

SERVICE TAP

Payment for service tap shall include all fittings, tubing, materials, labor and equipment to provide a new water service. Item shall be paid per each.

DUCTILE IRON WATER SYSTEMS

Payment for item shall include all components as specified in the Contract Drawings and Specifications. The contract price shall be per linear foot.

HDPE WATER SYSTEMS

Payment for item shall include all components as specified in the Contract Drawings and Specifications. The contract price shall be per linear foot.

STEEL CASING

Payment for installation of bored or open cut steel casing shall include furnishing and installing all steel pipe, spacers, end caps, excavating, compaction of backfill, disposal of excess excavated material, sheeting, shoring, bracing, dewatering, testing and related items not specifically covered under other pay items. Length shall be determined by the measured distance of casing pipe installed and accepted.

CONNECTION ITEMS

Payment for connection items shall include installation of reducers, fittings, valve boxes, trenching, excavation, compaction of backfill, blocking, disposal of excess excavated material, sheeting, shoring bracing, dewatering, testing, flushing and related items not specifically covered under other pay items as depicted on the construction plans. Pay shall be determined per each.

GATE VALVES

Payment for installation of gate valves shall include furnishing valves, valve boxes, trenching, excavating, compaction of backfill, disposal of excess excavated material, sheeting, shoring, bracing, dewatering, testing, flushing and related items not specifically covered under other pay items as depicted on the construction plans. Pay shall be determined per each.

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.

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 asphalt repair 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.

CONCRETE CURB AND GUTTER
Payment for concrete curb and gutter shall include removal, grading, forming, materials, placement, compaction and testing necessary to match existing curb and gutter. Item shall be paid per linear foot.

EROSION CONTROL
Payment for erosion control shall include furnishing, installing and maintaining silt fence as required by current Mississippi Department of Environmental Quality standards. Silt fence shall be installed and maintained as directed by the Engineer to prevent erosion under or excess siltation within 24 hours of a rain event. The unit measurement shall be Lump Sum and includes any required maintenance.

GRASSING
Basis of payment shall include the vegetation schedule as noted and shall be according to the Mississippi Standard Specifications for Road and Bridge Construction, Latest Edition.

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.

DUCTILE IRON WATER 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 water 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 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.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- A 139 Electric-Fusion (Arc) welded steel pipe (sizes 4 inch and over).
- A 252 Welded and Seamless steel pipe piles.

C 31 Making and Curing Concrete Compressive and Flexural Strength Test Specimens in the Field.

C 33 Concrete Aggregates

C 39 Test for Compressive Strength of Cylindrical Concrete Specimens.

D 2922 Density of Soil Aggregate in place by the clear Method (shallow depths).

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

21.10 Gray Iron and Ductile Iron Fittings, 3 inch through 48 inch for Water and other Liquids.

21.11 Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.

21.50 Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand-line Molds, for Water or other Liquids.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

C 104 Cement-Mortar Lining for Cast 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 Gray Iron and Ductile Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids.

C 111 Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.
C 150 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 2004 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 Z1.11 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 Z1.11 (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 Z1.51.

4.0 MATERIALS

WATER SYSTEM:

A. Ductile Iron Pipe: Ductile iron pipe shall be designed in accordance with the latest revision of ANSI/AWWA C 151/A21.51, rated working pressure of 350 psi plus a 100 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. 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.

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.

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.

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.

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. Gate Valves: Where indicated on the Plans or directed by the ENGINEER, the CONTRACTOR shall furnish and install gate valves as hereinafter specified. All gate valves shall be cast iron mechanical joint, M.J., Mueller A-2380-20, equivalent or better.

All gate valves shall be furnished with O-ring packing and 2" square operating nut, AWWA 2001b, for cast iron water main.

Valve boxes shall be cast iron top and bottom. Extension pieces shall be provided as required.

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.

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.

C. Fittings, Valves and Hydrants, Etc.: 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.

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.

The mechanical joint restraint device shall have a working pressure of at least 250 psi with a minimum safety factor of 2:1 and shall be EBAA Iron, MEGALUG or equal.

To improve the sealing capacity, the gaskets for all mechanical joints conforming to the requirements of ANSI/AWWA C110/A21.10, 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. 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.

D. Plugs and Caps: 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 "dead end" lines are installed, the ends of such lines shall be plugged or capped as required.

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 the OWNER will actually make the tap.

E. 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.

F. 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 12" sieve.

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
12"	95 - 100
3/4"	35 - 70
3/8"	10 - 30
No. 4	0 - 5

H. 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 homogeneous in character, free from vegetable matter, clay balls or other deleterious substances that cannot be classed as serviceable base material.

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

I. Backfill: All other backfill shall consist of excavated material removed from the trench.

5.0 CONSTRUCTION:

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 and Excavation, Trenching and Backfilling.

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 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: 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 as 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 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: 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 water 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 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 bid price.

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 sub-grade 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 sub-grade is found to be unstable or to include ashes, refuse, organic material, or other unsuitable material, the Engineer may direct that the sub-grade 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 minimum of 90% of maximum laboratory density, with AASHTO T-99. 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 AND EXCAVATION, TRENCHING AND BACKFILLING.

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 OF ROADS, DRIVEWAYS, FENCES, LAWNS, AND OTHER GRASSED AREAS AND EXCAVATION, TRENCHING AND BACKFILLING.

F. PIPE HANDLING AND STORAGE: Pipe shall be handled, stacked, 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.

G. PIPE LAYING: 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. The minimum depth of water mains shall be 30 inches below finished grade to the top of the water main.

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.

H. 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.

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.

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.

I. 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.

1. 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.

2. 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.

3. 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.

4. Casing Seal: The annulus between the casing and carrier pipe shall be sealed at each end by installing WMSOON 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.

J. Separation of Water and Sewer Mains:

1. Water mains shall be laid at least 10 feet horizontally and 18 inches vertically from any sanitary sewer or manhole. The bottom of the water line shall be a minimum of 18 inches from the top of the sewer line.

K. INCIDENTAL CONCRETE:

1. GENERAL: The following specifications shall apply to any and all items of incidental work with Portland Cement with or without reinforcement, including such items as concrete piers to support cast iron pipe above ground, erosion control bulkheads or structures, cradles and encasement, blocking and the like.

All concrete used in the construction of this project shall comply with the requirements herein specified for its particular class and kind.

2. MATERIALS: All materials used in this work shall consist of (a) Portland Cement, (b) Sand, (c) Gravel, and (d) Clean Water.

- (a) The cement used shall be domestic manufacture, either "Standard" or "high Early Strength" Portland Cement, which shall meet all the requirements of the current A.S.T.M. Specifications for the type used at the time it is incorporated in the work.

- (b) The fine aggregate shall consist of clean, sharp sand, well graded from coarse to fine, consisting of hard, durable particles, free from coarse to fine, consisting of hard, durable particles, free from silt, salt or organic matter. It shall meet all the requirements of the ASTM Specifications C33, Paragraph 1, 2 and 3, and ASTM C-40.

- (c) The coarse aggregate used shall consist of clean washed gravel, free from particles of wood or lumps of clay. Not more than 10% shall pass the No. 4 sieve, and it shall conform with the requirements of ASTM Specifications C33, Paragraph 5 to 8 inclusive.

- (d) The water used for mixing concrete shall be clear, free from oil, salt, strong acid, alkali organic matter, and shall be approved by the Engineer.

- (e) Reinforcing steel shall conform to the requirements of the "Standard Specifications for Billet-Steel Concrete Reinforcing Bars" of intermediate grade (Serial Designation: A-15-39) or the Standard Specifications for Rail-Steel Concrete Reinforcement Bars (Serial Designation: A-16-35) of the American Society for Testing Materials.

3. CONSTRUCTION METHODS:

All concrete materials shall be as handled and stored that they will not become damaged after delivery at the site. The cement shall be thoroughly protected from the weather, and the sand and gravel, shall be so stored that they will not become intermixed, and so as to prevent the admixture with either of any foreign materials. Reinforcing steel shall be so stored that it will not come in contact with the ground, shall be protected from the weather, and shall be clean and free from rust when incorporated in the work.

Concrete materials shall be mixed in the proportions and in a manner that will produce concrete of the class and strength specified to its use.

Unless indicated otherwise, all concrete shall be Class A which shall have a crushing strength of not less than 3,000 pounds per square inch at 28 days, as determined by the Standard Methods for testing concrete materials.

Class B concrete, which shall have a crushing strength of not less than 2,500 pounds per square inch at 28 days, and shall be used for erosion control bulkheads and blocking pipelines at bends to prevent blowing off under pressure.

Class C concrete, which shall have a crushing strength of not less than 2,000 pounds per square inch at 28 days, shall be used for cradles and encasement and may be used for backfill below grade.

After concrete has been properly mixed, it shall be deposited in the forms in reasonably uniform layers and in such manner as to prevent segregation of the aggregates. It shall be thoroughly spaded or puddled while being placed to insure maximum density and prevent honey-combing.

No concrete shall be deposited when the air temperature is less than 40 degrees F. No material shall be deposited on a frozen sub-grade, nor shall any frozen moisture or material be incorporated into the mixture.

No concrete shall be placed in water, nor shall water be permitted to rise on it or to run over it within a period of 24 hours after it has been placed.

Unsatisfactory concrete, resulting from failure to observe the above requirements or otherwise, shall be removed and replaced as directed by the Engineer.

4. COMPENSATION:

Payment for all concrete, except as may be elsewhere herein provided, shall be included in the prices bid for the construction units with which it is placed and no separate or extra compensation will be allowed directly therefore.

6.0 TESTING

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.

STEEL CASING PIPE: Material test shall be included as part of the submittal. No other material test shall be required.

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 T 99. 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	One per 100 CY
Bedding Material	2	One per 600 LF
Tamped Backfill	2	One per 600 LF

HYDROSTATIC TESTING:

The completed System shall be tested as herein stated. The pipe shall be filled with water and all air exhausted. Each section shall be tested under a hydrostatic pressure of 150 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. Whatever shall be measured into a container and refilled to the pre-test level. The pressure shall be maintained for 4 hours by pumping as necessary, and if the pipe has been backfilled, a 24-hour test is required.

All visible leaks at exposed joints and all leaks evident on the surface where joints are covered shall be repaired, and leakage eliminated, regardless of total leakage shown by

the tests. Lines which fail to meet tests shall be removed, if necessary, or repaired and retested until compliance with these test requirements is affected.

These tests are to be made at 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.

CLEANING AND DISINFECTION:

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 disinfected by pumping into and through 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.

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 re-disinfected in a manner meeting the requirements of the State Board of Health, until the system is freed of contamination.

All water mains will be flushed, chlorinated and re-chlorinated until two (2) consecutive negative water samples are obtained by the Local Health Department or a representative of the water systems certified as an operator by the Mississippi Department of Health.

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.

EXISTING DRINKING WATER FACILITIES

The Contractor is required to keep existing drinking water facilities in operation during construction. Should the Contractor require that existing facilities be taken out of operation, a plan to provide for alternative service shall be reviewed and approved in advance by the Health Department and shall be adhered to during construction.

RESTORATION of ROADS, DRIVEWAYS, FENCES, LAWNS, and OTHER GRASSED AREAS

1) **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 these 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) **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:

a) AMERICAN ASSOCIATION of STATE HIGHWAY and TRANSPORTATION OFFICIALS (AASHTO):

i) T 99 The Moisture Density Relations of Soils Using a 5.5lb. (2.5 kg) Rammer and a 12-inch (305 mm) Drop

ii) T 167 Compressive Strength of Bituminous Mixture

iii) T 191 Density of Soil In-Place by the Sand-Cone Method

iv) T 230 Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures

b) AMERICAN SOCIETY for TESTING and MATERIALS (ASTM)

i) D 2922 Density of Soil and Soil Aggregate in Place by the Nuclear Method (shallow depths)

c) MISSISSIPPI DEPARTMENT of TRANSPORTATION (MDOT)

i) Standard Specifications for Road and Bridge Construction, 2004 Edition
ii) Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)

3) SUBMITTALS: Mix Designs: Design mix will be provided by Contractor and approved by Engineer prior to production of asphalt.

4) MATERIALS

a) 4.1 Subbase and Base Courses: Subbase and base courses under paved areas shall be as specified in MSHD Specification, Section 300.

b) 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 408.

c) 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.

d) Materials shall conform to the following subsection of MDOT, Specifications Sections 702 and 703.

i) Bituminous Materials (AC-20) 702.01

ii) Aggregate

iii) BC-1 Binder Course

iv) SC-1 for Surface Course

v) Filler 703.14

vi) Topsoil: Topsoil shall be in accordance with Technical Specifications - SEEDING and SODDING.

vii) Seeding and Sodding: Seeding and sodding operations shall be in accordance with Technical Specifications - "SEEDING and SODDING."

5) CONSTRUCTION

a) Maintenance of Traffic

i) Prior to limiting or restricting traffic on any street or road, the Contractor shall obtain permission from the City of Hattiesburg. Through or local traffic shall at all times be accommodated by the use of temporary approaches, crossings or detours (if allowed by the City of Hattiesburg). 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 City of Hattiesburg) maintain open one lane to traffic during construction operations and restore roadways to two-way traffic during non-construction hours.

b) Repair of Asphalt; Concrete Streets; Driveways; Parking Lots

i) Removal and Earthwork:

(1) 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 sub-grade and to 95% of maximum laboratory density in the upper one foot of the sub-grade.

(2) 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 sub-grade is reached.

c) Asphaltic Base: Asphaltic base shall be constructed in accordance with MSHD Specification, Section 300.

i) Prime Coat: Prime coat shall be applied to exposed existing base material prior to overlay with asphaltic base course in accordance with MSHD Specification, Section 408.

!!) 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.

!!!) Asphalt Wearing Course: Placement and compaction of the bituminous pavement shall be in accordance with MSHD Specification Section 403.03.

iv) Utilities: All utility covers excavated during removal of streets, driveways, parking lots shall be restored to finished grade.

d) Driveways and Sidewalks:

i) 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 6(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 four (4) inches.

ii) 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.

e) Repair to Gravel Roads: Gravel roads shall be backfilled and compacted in accordance with Paragraph 6(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 T 99.

f) Repair to Lawns:

i) 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

ii) 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.

iii) 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 - 1/2 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.

iv) Grassing: 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 - 1/2 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.

v) Sodding: Sodding shall be in accordance with Technical Specifications - SEEDING and SODDING.

g) Erosion Control:

i) 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.

ii) 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.

h) General Grassing of Unimproved Areas

i) General: 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 fails to adequately provide moisture. On slope 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.

ii) Grading: 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.

iii) Topsoil: 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.

i) Fertilizer and Agricultural Limestone: The Contractor shall uniformly apply 800 lbs. Isifed asphalt or by "crimping" parts of the material into the soil.

j) Miscellaneous Items: Items such as fences, gates, headwalls, 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.

k) 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) TESTING

a) 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.

b) Earthwork: Earthwork directly involved with road and street repair shall be tested as follows:

i) Moisture Density Relationship (Standard Proctors): Two tests of sampled native material shall be required.

ii) Tests shall be in accordance with AASHTO T 99.

iii) 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

iv) Topsoil: Two pH tests and two organic content tests (wet combustion method) will be required.

v) 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.

vi) Seeding: Seed shall be uniformly sown in accordance with Technical Specification - SEEDING and SODDING.

vii) Sodding: Sod shall be place in accordance with Technical Specification - SEEDING and SODDING.

c) 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 emu

EXCAVATION, TRENCHING AND BACKFILLING

PART I - GENERAL

1.01 SCOPE

A. The Work under this Section consists of furnishing materials, labor, equipment, and services necessary for the excavation trenching, and backfilling required for exterior light fixture standard foundations and underground electric supply lines to the building and lighting standards on this Project.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Section 02630 - Landscaping
B. Section 16000 - Electrical Provisions

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.01 LOCATION OF LIGHTING STANDARDS

Prior to excavation for exterior fixture standards, CONTRACTOR shall stake all standards locations and the ENGINEER shall approve these locations prior to construction. Stake all locations and give ENGINEER 48 hours notice for inspection. The ENGINEER shall have the authority to move any standard location up to ten (10) feet prior to excavation at no additional cost to the OWNER. Standard locations may have to be moved to avoid existing storm drain lines in the areas.

B. Underground electrical services shall be coordinate with the local retail supplier of electricity, communications, TV Cable and other utilities involved.

3.03 EXCAVATION

A. CONTRACTOR is to coordinate and cooperate with the OWNER in locating all subsurface equipment and facilities. CONTRACTOR shall be responsible for locating and exposing all existing underground structures, utilities and underground obstructions that may interfere with locating lighting standards, poles, conduits and services. All subsurface equipment and facilities shall be located and exposed prior to performing any digging and/or trenching. CONTRACTOR at his sole cost and expense will be responsible for repairing and/or replacing any damaged equipment and/or facilities caused by excavating.

B. All excavation of every description and of whatever substances encountered shall be performed to the depths indicated or as otherwise specified. During excavation material suitable for backfilling shall be piled in an orderly manner a sufficient distance from the banks of the trench to avoid over-loading and to prevent slides or cave-ins. All excavated materials not required or suitable for back-fill shall be removed and disposed of offsite at the CONTRACTOR's expense. Grading shall be done as necessary to prevent surface water from flowing into trenches or other excavations, and any water accumulating therein shall be removed by pumping or by other approved methods. Sheet piling and shoring shall be done as necessary for the protection of the work and for the safety of personnel. Excavation shall comprise all materials encountered, including rock and filled-in material of whatever nature is involved.

C. The conduits shall be laid and maintained to lines and grades established by the plans and specifications with fittings and foundations at the required locations unless otherwise approved by the ENGINEER.

D. Prior to excavation investigation shall be made to the extent necessary to determine the location of existing underground utilities, structures and conduits. CONTRACTOR shall exercise care during excavation to avoid damage to existing utilities and structures.

E. When obstructions that are not shown on the plans are encountered during the progress of work and interfere so that an alteration of the plans is required the ENGINEER will alter the plans or order a deviation in line and grade or arrange or removal, relocation or reconstruction of the obstructions.

F. When crossing existing pipelines or other structures, alignment and grade shall be adjusted as necessary, with the approval of the ENGINEER, to provide clearances as required by federal, state, or local regulations or as deemed necessary by the ENGINEER to prevent future damage or contamination of either structure.

3.03 TRENCHING - GENERAL

A. The trench shall be excavated to the required alignment, depth and width and in conformance with all federal, state and local regulations for the protection of the workmen.

B. No excavation for the installation of conduit will be commenced which cannot be completed and back-filled within 24 hours.

C. Discharge from any trench de-watering pumps shall be conducted to natural drainage channels, storm sewers, or an approved reservoir.

D. Excavated material shall be placed in a manner that will not obstruct sidewalks, driveways, or other structures and shall be done in compliance with federal, state, or local regulations

E. Removal of pavement and road surfaces shall be a part of the trench excavation and the amount removed shall depend upon the width of trench required for the installation of conduits. The dimensions of pavement removed shall not exceed the dimensions of the opening required for installation of conduits by more than 6 inches in any direction unless required or approved by the OWNER. Cut pavement edges shall be sawn to ensure breakage of pavement along straight lines. There is nothing in these Specifications that precludes punching or boring of conduit under streets, sidewalks, parking lots, or other paved areas as long as minimum cover requirements are met.

F. The width of the trench at the top of the conduit shall be that of the single-pass capabilities of normally available excavating equipment and ample to permit the conduit to be installed properly and allow the back-fill to be placed as specified Trenches shall be of extra width, when required, to permit the placement of timber supports, sheeting, bracing, and appurtenances.

G. When excavation of rock is encountered, all rock shall be removed to provide a clearance of at least 9 inches below and on each side of all conduits. When excavation is completed, a bed of sand, crushed stone or earth that is free from stones, large clods, or frozen earth shall be placed on the bottom of the trench to the previously mentioned depths, leveled, and tamped. These clearances and bedding procedures shall also be observed for pieces of concrete or masonry and other debris or subterranean structures, such as masonry walls, piers, or foundations that may be encountered during excavation. This installation procedure shall be followed when gravel formations containing loose boulders greater than 8 inches in diameter are encountered. In all cases, the specified clearances shall be maintained between the bottom of all conduit and appurtenances and any part, projection, or point of rock, boulder, or stones of sufficient size and placement that may cause a fulcrum.

H. Should the trench pass over a sewer or other previous excavation, the trench bottom shall be sufficiently compacted to provide support equal to that of the native soil or conform to other regulatory requirements in a manner that will prevent damage to the existing installation.

I. Blasting for excavation shall be permitted only after securing the approval of the OWNER who will establish the hours of blasting. The blasting procedure, including protection of persons and property, shall be in strict accordance with federal, state, and local regulations.

J. Trees, shrubs, fences, and all other property and surface structures shall be protected

during construction unless their removal is shown in the plans and specifications or approved by the OWNER. Any cutting of tree roots or branches shall be done only as approved by the OWNER.

K. The CONTRACTOR shall furnish temporary support, adequate protection, and maintenance of all underground and surface structures, drains, sewers, and other obstructions encountered in the progress of the work. All properties that have been disturbed shall be replaced and/or restored as nearly as practical to their original condition.

L. When the sub-grade is found to be unstable or to include ashes, cinders, refuse, organic material, or other unsuitable material, such material shall be removed, to a minimum of at least 12 inches, or to the depth ordered by the ENGINEER and replaced under the directions of the ENGINEER with clean stable back-fill material.

When the bottom of the trench or the sub-grade is found to consist of material that is unstable to such a degree that, in the judgment of the ENGINEER it cannot be removed, a foundation for the conduit and or appurtenance shall be constructed using piling, timber, concrete, or other materials at the direction of the ENGINEER. Appropriate traffic control devices shall be provided in accordance with federal, state, or local regulations to regulate, warn, and guide traffic at the work site.

3.04 BACKFILLING - GENERAL

A. The trenches shall not be back-filled until the conduit as installed conforms to the requirements specified. Backfilling prior to approval of the ENGINEER or the OWNER is prohibited. Where, in the opinion of the ENGINEER damage is likely to result from withdrawing sheeting, the sheeting shall be left in place. Except as otherwise specified for special conditions of over-depths, trenches shall be back-filled to the ground surface with material that is suitable for the compaction specified hereinafter. Trenches improperly back-filled shall be reopened at the CONTRACTOR'S expense to the depth required for Proper compaction then refilled and compacted as specified, or the condition shall be otherwise corrected as approved.

B. All buried conduits and or underground electrical cables shall have a red Polyethylene "Caution Electrical Cable Buried Below" warning tape buried between the conduits and electrical cables and the surface of the ground providing a defense and warning against accidental dig-ins. APWA color guidelines shall be used for electrical power-lines. Tape shall be made of low density polyethylene and highly stretchable Tape shall be placed approximately 12 inches above conduits and or power cable nearest the surface of the ground.

C. In the lower portion of the trench back-fill material shall be deposited in 6 inch maximum thickness layers and compacted with suitable tampers to the density of the

adjacent soil or graded as hereinafter specified until there is a cover of not less than 6 inches over the conduit. The back-fill material in this portion of the trench shall consist of a selected material at a moisture content that will facilitate compaction, free from stones larger than 3 inches in any dimension and hard clods and frozen conglomerates larger than 6 inches in any dimension, except that where the pipe is coated or wrapped for protection against corrosion the back-fill material shall be free from stones larger than 1/2 inch in any dimension. If any portion of the cover in the lower portion of the trench is in the depth of special compaction and materials requirements under pavement, the special requirements shall control. Special care shall be taken not to damage the coating or wrapping of conduits.

D. Except for special materials for pavements, turf or seeded areas, and sidewalks the remainder of the trench shall be back-filled with material that is free of stones larger than 6 inches or 1/2 the layered thickness, whichever is smaller, in any dimension. Backfill material shall be deposited in layers not exceeding 12 inches, and each layer shall be compacted to the minimum density specified as applicable to the particular area. Degree of compaction shall be 90 percent.

E. Unpaved surfaces disturbed during the installation of conduits shall be restored to their original elevation and condition. Topsoil shall be preserved carefully and replaced after the back-filling is completed Refer to Section 02630, Landscaping, for seeding and fertilizing requirements.

F. The CONTRACTOR shall patch pavement, sidewalks, curbs, and gutters where existing surfaces are removed for construction. Graded aggregate base course shall have a maximum aggregate size of 1/2 inches. Base course shall be primed with a compatible tack coat prior to paving. Thickness of base course shall match existing but shall be at least 6 inches. Asphalt concrete shall be hot plant mixed and hot laid. Maximum aggregate size shall be 1/2 inch and pavement thickness shall match existing thickness, but shall be at least 2 inches. Portland cement concrete pavement, sidewalks, curbs, and gutters, shall be repaired using 3,000 PSI concrete. Pavement thickness shall match existing thickness but shall be at least 6 inches. Sidewalk thickness and curb and gutter cross-sections shall match the existing.

G. Under paved areas or other areas indicated by the plans, back-fill trenches from 12 inches above the pipe to pavement base course in six-inch layers to 95 percent of maximum density as determined by AASHTO T180.

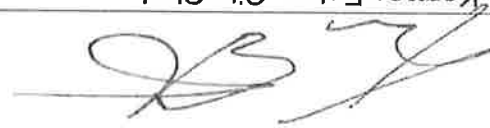
H. Under turf or seeded areas and sidewalks, back-fill trenches from 6 inches above the pipe to finished grade in 12 inch layers to 95 percent of maximum density as determined by AASHTO T180.

**ADDENDUM No. 1
to the
CONTRACT DOCUMENTS and SPECIFICATIONS
for the
COMSWIP Water Improvements Phase IV – Miscellaneous Connections
CITY of HATTIESBURG**

The following attached modifications are to be made to the specifications and contract documents for the above captioned project:

- CHANGE No. 1 -** The HDPE Dimension Ratio shall be "DR - 9" as called for in the Plan Documents.
- CHANGE No. 2-** For Site 3, the 20" Steel Casing required shall be Open Cut and spanned across the ditch. Replacement of rip rap is also required and included in the Bid Proposal.
- CHANGE No. 3 -** 20 S.Y. of Asphalt Pavement Repair (All Depths) shall be added to EACH of the following sites in the Plan Documents: Site 4, Site 6 and Site 7.
- CHANGE No. 4 -** For Site 3, an existing 12" broken valve shall be removed and replaced with 12" DI pipe material and necessary fittings. An Insert-A-Valve shall be installed as noted, see Addendum No. 1 attached.

by: 
SHOWS, DEARMAN & WAITS, INC.
 Kyle D. Wallace, P.E. 12593
 ENGINEER
 Dated this 9th day of January, 2017

by: 
CITY OF HATTIESBURG
 Kermas Eaton, City Clerk

The receipt of this Addendum shall be indicated by signature on the line below.
 A signed copy of the Addendum shall accompany the Bid Proposal.

Contractor: Myers Underground Utilities
Signature: Raylan Myers
Title: Owner

Bid Bond

CONTRACTOR: _____
(Name, legal status and address)
Myers Underground Utilities, LLC
408 Ryan Road
Hattiesburg, MS 39401

SURETY: _____
(Name, legal status and principal place
of business)
North American Specialty Insurance Company
650 Elm Street
Manchester, NH 03101

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)
Comprehensive Water Improvements Phase IV Miscellaneous Connections
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.

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.

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 12th day of January, 2017

(Witness)

Myers Underground Utilities, LLC
(Contractor as Principal)
(Seal)

(Title)

(Witness)

North American Specialty Insurance Company
(Surety)
(Seal)

Kimberly B. Barthum
(Title)
Kimberly B. Barthum, Attorney-In-Fact
MS Resident Agent

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schumburg, Illinois, each does hereby make, constitute and appoint:

JIM E. BRASHIER, TROY P. WAGNER, LOREN RICHARD HOWELL, JR., KATHLEEN B. SCARBOROUGH, JOHN B. SNEED,
DAVID ROBIN FORTEMBERRY, SHARON TUTEN, KIMBERLY B. BARNUM, ANDREW P. UNDERWOOD, RICHARD TEB JONES,
MARY NORVAL, DEWEY E. BRASHIER and SUSAN SKRUMETTA JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION (\$50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company, and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."



By Steven P. Anderson, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

By Michael A. Ito, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company



IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 14th day of July, 2016.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook

SS:

On this 14th day of July, 2016, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Michael A. Ito, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



M. KENNY, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 12th day of January, 2017.



City of Hattiesburg, MS

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

FILE NUMBER: 2017-197

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Approve plans and specifications for the Fourth St. Roadway Improvements Project-Phase II

Title: Approve plans and specifications for the Fourth Street Roadway Improvements Project-Phase II (Project No. HPP 7194-00(003) LPA/105845-801000); Authorize advertisement for bids for same.

Type: Action Item

Drafter: Marie Harris

In Control: City Council

Reference: Lamar Rutland

Attachments: Specifications, Plans,
Bid Advertisement

File Created: 01/30/2017

Budget Information:

Expenditure Type:

Purchasing Item:

Publication Information: 2 Consecutive Weeks
Hattiesburg American
Clarion Ledger

History of Legislative File

*SPECIAL PROVISIONS, PROPOSAL AND CONTRACT DOCUMENTS
FOR
THE CONSTRUCTION OF*

*FEDERAL AID PROJECT NO.
HPP 7194-00(003) LPA/105845-801000*

***FOURTH STREET ROADWAY
IMPROVEMENTS PROJECT – PHASE II
FOR THE
CITY OF HATTIESBURG
HATTIESBURG, MISSISSIPPI
FORREST COUNTY***



2017

PREPARED BY



**BIDDER CHECK LIST
(FOR INFORMATION ONLY)**

- _____ All unit prices and item totals have been entered in accordance with Subsection 102.06 of the Mississippi Standard Specifications for Road and Bridge Construction.
- _____ First sheet of SECTION 905--PROPOSAL has been completed.
- _____ Second sheet of SECTION 905--PROPOSAL has been completed and signed.
- _____ Addenda, if any, have been acknowledged. Second sheet of Section 905 listing the addendum number has been substituted for the original second sheet of Section 905. Substituted second sheet of Section 905 has been properly completed, signed, and added to the proposal.
- _____ DBE/WBE percentage, when required by contract, has been entered on last sheet of the bid sheets of SECTION 905--PROPOSAL.
- _____ Form OCR-485-LPA has been completed and signed.
- _____ The last sheet of the bid sheets of SECTION 905--PROPOSAL has been signed.
- _____ Equal Opportunity Clause Certification, when included in contract, has been completed and signed.
- _____ The Certification regarding Non-Collusion, Debarment and Suspension, etc. has been executed in duplicate.
- _____ A certified check, cashier's check or bid bond payable to the Local Public Agency in the principle amount of 5% of the bid has been included with project number identified on same. Bid bond has been signed by the bidder and has also been signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent for the Surety with Power of Attorney attached.
- _____ A completed Notice to Bidders regarding DUNS Requirements must be completed prior to award of the contract.

Return the proposal and contract documents in its entirety in a sealed envelope. DO NOT remove any part of the contract documents; exception – an addendum requires substitution of second sheet of Section 905. A stripped proposal is considered as an irregular bid and will be rejected.

Failure to complete any or all of the applicable requirements will be cause for the proposal to be considered irregular.

CONTENTS

**PROJECT: FOURTH STREET ROADWAY IMPROVEMENTS PROJECT
PROJECT – PHASE II
PROJECT NO. HPP-7194-00(003)LPA/105845-801000
CITY OF HATTIESBURG, MISSISSIPPI**

Bidder's Checklist

Section 901 - Advertisement for Bids

Section 904 - Notice to Bidders

#1:	Governing Specifications
#2LPA:	Designating Owner and Engineer
#3:	Final Cleanup
#151:	Gopher Tortoises
#640:	Fiber Reinforced Concrete
#1322:	Non-use of Precast Drainage Units
#1405:	Errata and Modifications to the 2004 Standard Specifications
#1546:	Advancement of Materials
#1595:	Vibratory Roller
#1902LPA:	Disadvantaged Business Enterprise Forms
#1928:	Federal Bridge Formula
#2168:	Fuel and Material Adjustments
#2382:	Status of Right of Way
#2382:	Attachments for Status of Right of Way
#2677:	Material Transfer Device
#2689LPA:	Asphalt Smoothness Requirement
#3067:	Storm Water Discharge Associated with Construction Activities (≥ 1 and < 5 Acres)
#3612:	Additional Erosion Control Requirements
#4214:	Safety Apparel
#4473:	Alternate Crushed Stone Base Bid Items
#4488LPA:	DBE Forms, Participation and Payment
#4565:	Manual on Uniform Traffic Control Devices
#4566:	DUNS Requirement
#5053:	Contractor Correspondence
#5405:	Traffic Control Devices
#5411:	Safety Edge
#5412:	Weight Limits
#5865LPA:	Sampling and Testing of Concrete on Small LPA Projects
#5866LPA:	Payroll Requirements
#6411LPA:	Supplement to Disadvantage Business Enterprise
#6411:	Disadvantage Business Enterprise
#7001:	Contract Time

Section 906 - County Wage Rates
Supplement to Form FHWA-1273
Required Federal Contract Provision Form FHWA-1273
Executive Order 11246

Section 907 -	907-101-4:	Definitions
	907-102-4LPA:	Bidding Requirements and Conditions
	907-103-11:	Award and Execution of Contract
	907-104-5:	Disposal of Materials
	907-105-9:	Supplement to Control of Work
	907-105-9:	Control of Work
	907-107-13:	Supplement to Legal Relations & Responsibility to Public
	907-107-13:	Legal Relations & Responsibility to Public
	907-107-14:	Supplement to Contractor's Erosion Control Plan
	907-107-14:	Contractor's Erosion Control Plan
	907-108-38:	Prosecution and Progress
	907-109-8:	Measurement and Payment
	907-110-2:	Wage Rates
	907-216-1:	Solid Sodding
	907-230-11:	Tree and Shrub Planting
	907-233-1:	Tree Bark Mulch
	907-237-4:	Wattles
	907-246-3:	Sandbags
	907-265-1LPA:	Water Mains and Appurtenances
	907-304-13:	Granular Courses
	907-401-7:	Supplement to Asphalt Pavement
	907-401-7:	Asphalt Pavement
	907-403-14:	Asphalt Pavement
	907-407-2:	Tack Coat
	907-601-1:	Structural Concrete
	907-608-1:	Asphalt Pavement Texturing
	907-616-2:	Colored and Imprinted Concrete Median and Island Pavement
	907-618-13:	Temporary Construction Signs
	907-626-25:	Thermoplastic Traffic Markings
	907-639-8:	Traffic Signal and ITS Equipment Poles
	907-649-5:	Video Vehicle Detection
	907-699-5:	Construction Staking
	907-701-5:	Supplement to Hydraulic Cement
	907-701-5:	Hydraulic Cement
	907-702-5:	Specifications for Bituminous Materials
	907-703-12:	Supplement to Aggregates
	907-703-12:	Aggregates
	907-711-4:	Synthetic Structural Fiber Reinforcement
	907-713-6:	Admixtures for Concrete
	907-714-8:	Miscellaneous Materials
	907-720-2:	Pavement Marking Materials
	907-804-19:	Supplement to Concrete Bridges and Structures
	907-804-19:	Concrete Bridges and Structures

Construction Progress Schedule

Section 905 - Proposal

- Proposal, Proposal Sheet
- Bid Sheets
- Certification of Performance – Prior Federal Aid Projects
- Affidavit Regarding Non-Collusion, Debarment and Suspension

Section 902 - Contract Form

Section 903 - Contract Bond Forms

Executive Compensation Certification

Guidance for Federal Spending Transparency

OCR-481-LPA – Disadvantaged Business Enterprise List

OCR-485-LPA – List of Firms Submitting Quotes

(Revisions to the Above Will Be Indicated on the Second Sheet of Section 905 as Addenda)

SECTION 901 - ADVERTISEMENT FOR BIDS

**CITY OF HATTIESBURG
FORREST COUNTY, MISSISSIPPI**

NOTICE TO CONTRACTORS

**FOURTH STREET ROADWAY IMPROVEMENTS PROJECT-PHASE II
FEDERAL-AID PROJECT NO.
HPP 7194-00(003) LPA/105845-801000**

Sealed bids will be received by the City of Hattiesburg, at the City Clerk's office, located at 200 Forrest Street, Hattiesburg, Mississippi 39401, until 10:00 a.m. local time, on Thursday, March 16, 2017 for supplying all labor, equipment, and materials (as specified) necessary for the construction of the above referenced project. All bids so received will be publicly opened and read aloud.

Work consists of widening 4th Street from Hutchinson Avenue to North Street. Project includes, sidewalk, drainage improvements, landscaping, and traffic signal upgrades.

The above general outline of features of the work does not in any way limit the responsibility of the contractor to perform all work and furnish all plant, labor, equipment and materials required by the specifications and the drawings referred to therein.

Plans, contract documents and special provisions and proposal forms are on file for public inspection in the office of the City of Hattiesburg, City Clerk's Office located at 200 Forrest Street, Hattiesburg, Mississippi 39401 and in the office of Neel-Schaffer, Inc., Post Office Box 1487, Hattiesburg, MS 39403-1487 (704 Hardy Street, Telephone No. 601-545-1565).

Bid documents are being made available via paper copy. Plan holders are required to log-in or register for an account at www.neel-schafferplans.com to view and order Bid Documents. All plan holders are required to have a valid email address for registration. Bid documents are non-refundable and must be purchased through the website. Questions regarding website registration and online orders please contact Plan House Printing at (601) 336-6378.

The attention of bidders is directed to the Special Provisions governing selection and employment of labor.

Minimum wage rates for Federal-Aid projects have been predetermined by the Secretary of Labor and are subject to Public Law 87-581 Work Hours Act of 1962, as set forth in the Special Provisions. Minimum wage rates for all other projects have been predetermined and set forth in advertised specifications.

The City of Hattiesburg hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged and women's business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The award of this contract will be contingent upon the Contractor satisfying the DBE/WBE requirements.

The *2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction*, adopted by the Mississippi Department of Transportation, as referred to herein, may be purchased from the Mississippi Department of Transportation.

Each bid shall be accompanied by a Certified Check on a solvent bank or a Bidder's Bond issued by a Surety Company licensed to operate in the State of Mississippi, in the amount of five percent (5%) of the total bid price, payable to the City of Hattiesburg as bid security. Bidders shall also submit a current financial statement, if requested by the City. The successful bidder will be required to furnish a performance and payment bond in the amount of 100 percent of the contract amount. Both bonds shall be signed or counter-signed by a Mississippi Resident Agent.

The proposal and contract documents in its entirety shall be submitted in a sealed envelope and deposited with the City Clerk, 200 Forrest Street, Hattiesburg, Mississippi prior to the hour and date above designated.

The City of Hattiesburg reserves the right to reject any or all proposals, to waive technicalities or irregularities, or to advertise for new proposals, and the decision of the City of Hattiesburg to reject any bid or proposal shall not be cause for any liability or damages against the City of Hattiesburg, any officers or employees.

The bidder must agree to commence work on or before a date to be specified in a written "Notice to Proceed" of the Owner and to fully complete the project within the Contract Time. The bidder must also agree to pay as liquidated damages the sum specified in the Standard Specifications per day for each calendar day of overrun in Contract Time that work is not completed.

Work to be performed shall be in accordance with the "Mississippi State Highway Standard Specifications for Road and Bridge Construction, 2004", together with all amendments and/or special provisions and/or addenda to the standards duly approved and adopted, unless otherwise noted in these specifications.

The attention of Bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

City Clerk
City of Hattiesburg, Mississippi

Dates of Publication:

February 12, 2017

February 19, 2017

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1

CODE: (IS)

DATE: 05/03/2004

SUBJECT: Governing Specifications

The current (2004) Edition of the Standard Specifications for Road and Bridge Construction adopted by the Mississippi Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained herein. Copies of the specification book may be purchased from the MDOT Construction Division.

A reference in any contract document to controlling requirements in another portion of the contract documents shall be understood to apply equally to any revision or amendment thereof included in the contract.

In the event the plans or proposal contain references to the 1990 Edition of the Standard Specifications for Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2004 Edition of the Standard Specifications.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904- NOTICE TO BIDDERS NO. 2 LPA

CODE: (SP)

DATE: 04/02/2015

SUBJECT: Designating Owner and Engineer (Hattiesburg, Mississippi)

PROJECT: HPP-7194-00(003)LPA /105845-801000, Forrest County

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 *Forrest County*, 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 Forrest County, Mississippi, Neel-Schaffer, Inc.*

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3

CODE: (SP)

DATE: 05/03/2004

SUBJECT: Final Clean-Up

Immediately prior to final inspection for release of maintenance, the Contractor shall pick up, load, transport and properly dispose of all litter from the entire highway right-of-way that is within the termini of the project.

Litter shall include, but not be limited to, solid wastes such as glass, paper products, tires, wood products, metal, synthetic materials and other miscellaneous debris.

Litter removal is considered incidental to other items of work and will not be measured for separate payment.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 151

CODE: (IS)

DATE: 06/18/2004

SUBJECT: Gopher Tortoises

Bidders are hereby advised that the Contractor will be required to make special considerations regarding gopher tortoises on this project. In addition to the normal required documentation associated with borrow pits, the Contractor shall, for each site used to obtain or dispose of materials associated with this project, provide the Engineer with a letter from a qualified biologist certifying that the site was inspected prior to any clearing of vegetation or disposal of project materials and that the site is not inhabited by gopher tortoises, or appropriate avoidance measures have been installed. No individual lacking the proper State or Federal license shall touch or otherwise harass a gopher tortoise.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 640

CODE: (IS)

| DATE: 09/26/2005

SUBJECT: Fiber Reinforced Concrete

Bidders are hereby advised that synthetic structural fibers meeting the requirements of Subsection 907-711.04 may be used in lieu of wire mesh in some items of construction. Substitution of fibers for wire mesh will be allowed in the construction of paved ditches, paved flumes, paved inlet apron, driveways, guard rail anchors and pile encasements. Substitution in any other items of work must be approved by the State Construction Engineer prior to use.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1322

CODE: (SP)

DATE: 1/22/2007

SUBJECT: Non-Use of Precast Drainage Units

Bidders are hereby advised that the use of precast inlets and junction boxes will **NOT** be allowed on this project. Subsection 601.02.3 states that " the Contractor may request approval from the Engineer to furnish and install precast units in lieu of cast-in-place units". Should the Contractor make this request, the request will be denied.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1405

CODE: (IS)

DATE: 03/15/2007

SUBJECT: ERRATA AND MODIFICATIONS TO THE 2004 STANDARD SPECIFICATIONS

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
101	201.01	In the second sentence of the first paragraph, change “salvable” to “salvageable”.
107	202.04	In the fourth sentence of the fourth paragraph, change “yard” to “feet”.
107	202.05	In the list of units measurements for 202-B, add “square foot”.
132	211.03.4	In the second sentence of the second paragraph, change “planted” to “plated”.
192	306.02.4	In the first line of the first paragraph, delete the word “be”.
200	307.03.7	In the fourth sentence of the second paragraph, change “lime-fly ash” to “treated”.
236	401.01	Change the header from “Section 403” to “Section 401”.
242	401.02.3.2	In the first sentence of the third full paragraph, add “1/8” in the blank before the inch mark.
250	401.02.6.3	In the second sentence of the first paragraph on page 250, change “rutting over ” ” to “rutting over 1/8" ”.
253	401.02.6.4.2	In the paragraph preceding the table, change “91.0” to “89.0”.
259	401.03.1.4	In the first paragraph, change “92.0 percent” to “the specified percentage (92.0 or 93.0)”.
269	403.03.2	In the table at the top of page 269, change the PI requirement from “ = ” to “ ≤ ”.

278	404.04	In the second sentence, change the subsection from "401.04" to "403.04".
283	409.02.2	Change "PG 64-22" to "PG 67-22".
294	413.02	In the first sentence of the second paragraph, change "707.02.1.3" to "Subsection 707.02.1.3".
340	511.04	In the second sentence of the second paragraph, change "412" to "512".
349	601.03.3	In the first sentence, change "804.03.2" to "804.03.5".
355	603.02	Change the subsection reference for Joint mortar from "707.03" to "714.11".
369	604.04	In the first sentence, change "601.04" to "Subsection 601.04".
427	619.04	Delete the second paragraph.
442	625.04	In the third paragraph, change "626.04" to "Subsection 626.04".
444	626.03.1.2	Delete the third sentence of the first paragraph.
464	631.02	Change the subsection reference for Water from "714.01.0" to "714.01.1".
570	682.03	Change the subsection number from "682-03" to "682.03".
575	683.10.4	Change the subsection number from "683.10.4" to "683.04".
575	683.10.5	Change the subsection number from "683.10.5" to "683.05".
596	701.02	In the table under the column titled "Cementations material required", change Class F, FA" to "Class F FA,".
603	702.11	In the first sentence, change "702.12" to "Subsection 702.12".
612	703.04.2	In the fifth paragraph, delete "Subsection 703.11 and".
616	703.07.2	In the Percentage By Weight Passing Square Mesh Sieves table, change the No. 10 requirement for Class 7 material from "30 - 10" to "30 - 100".

618	703.13.1	In the first sentence of the first paragraph, change “703.09” to “703.06”.
618	703.13.2	In the first sentence, change “703.09” to “703.06”.
671	712.06.2.2	In the first sentence, change “712.05.1” to “Subsection 712.05.1”.
689	714.11.2	In the first sentence, change “412” to “512”.
709	715.09.5	In the first sentence of the first paragraph, change “guage” to “gauge”.
717	717.02.3.4	In the top line of the tension table, change “1 1/2” to “1 1/8” and change “1 1/8” to “1 1/2”.
741	720.05.2.2	In the last sentence of this subsection, change “720.05.2.1” to “Subsection 720.05.2.1”.
827	803.03.2.3.7.5.2	In the first sentence of the second paragraph, change “803.03.5.4” to “803.03.2.3.4”.
833	803.03.2.6	In the first sentence, change “803.03.7” to “803.03.2.5”.
854	804.02.11	In the last sentence of the first paragraph, change “automatically” to “automatic”.
859	804.02.13.1.3	In the last sentence, change Subsection “804.02.12.1” to “804.02.12”.
879	804.03.19.3.2	In the first sentence of the third paragraph, change “listed on of Approved” to “listed on the Approved”.
879	804.03.19.3.2	In the last sentence of the last paragraph, change “804.03.19.3.1” to “Subsection 804.03.19.3.1”.
962	814.02.3	In the first sentence, change “710.03” to “Subsection 710.03”.
976	820.03.2.1	In the first sentence, change “803.02.6” to “803.03.1.7”.
976	820.03.2.2	In the first sentence, change “803.03.9.6” to “803.03.1.9.2”.
985	Index	Change the subsection reference for Petroleum Asphalt Cement from “702.5” to “702.05”.

985	Index	Change the subsection reference for the Definition of Asphaltic Cement or Petroleum Asphalt from “700.2” to “700.02”.
985	Index	Change the subsection reference for Automatic Batchers from “501.03.2.4” to “804.02.10.4”.
986	Index	Delete “501.03.2” as a subsection reference for Batching Plant & Equipment.
988	Index	Change the subsection reference for the Central Mixed Concrete from “501.03.3.2” to “804.02.11”.
988	Index	Change the subsection reference for the Concrete Batching Plant & Equipment from “501.03.2” to “804.02.11”.
999	Index	Delete “501.03.3.3” as a subsection reference for Truck Mixers.
1001	Index	Change the subsection reference for Edge Drain Pipes from “605.3.5” to “605.03.5”.
1002	Index	Change the subsection reference for Metal Posts from “713.05.2” to “712.05.2”.
1007	Index	Change the subsection reference for Coarse Aggregate of Cement Concrete Table from “703.3” to “703.03”.
1007	Index	Change the subsection reference for Composite Gradation for Mechanically Stabilized Courses Table from “703.8” to “703.08”.
1009	Index	Delete “501.03.3.3” as a subsection reference for Truck Mixers and Truck Agitators.
1010	Index	Delete reference to “Working Day, Definition of”.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1546

CODE: (SP)

DATE: 05/23/2007

SUBJECT: Advancement of Materials

Bidders are advised that **NO ADVANCEMENT OF MATERIALS**, as addressed in Subsection 109.06.2 of the Standard Specifications, will be allowed on this project.

CITY OF HATTIESBURG

SECTION 904 - NOTICE TO BIDDERS NO. 1595

CODE: (SP)

DATE: 04/03/2015

SUBJECT: Vibratory Roller

PROJECT: HPP-7194-00(003)LPA /105845-801000

Bidders are advised that the use of vibratory rollers **will not** be allowed and the lot density required in sections 401.02.6.4.1 and 401.03.1.4 of the 2004 Edition of the Mississippi Standard Specification for Road and Bridge Construction shall be reduced by **one percent**.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1902 LPA

CODE: (SP)

DATE: 02/26/2010

SUBJECT: Disadvantaged Business Enterprise (DBE) Forms

Anywhere in the plans, proposal and specifications where reference is made to Office of Civil Rights (OCR) Forms, it should be understood to mean Disadvantaged Business Enterprise (DBE) Forms.

The following are equivalent forms:

OCR-481	.....	OCR-481 LPA	.....	DBE-1
OCR-482	.....	OCR-482 LPA	.....	DBE-2
OCR-483	.....	OCR-483 LPA	.....	DBE-3
OCR-484	.....	OCR-484 LPA	.....	DBE-4
OCR-485	.....	OCR-485 LPA	.....	DBE-5
OCR-487	.....	OCR-487 LPA	.....	DBE-7

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 1928

CODE: (IS)

| DATE: 04/14/2008

SUBJECT: Federal Bridge Formula

Bidders are hereby advised that Federal Highway Administration Publication No. FHWA-MC-94-007, **BRIDGE FORMULA WEIGHTS**, dated January 1994, is made a part of this contract when applicable.

Prior to the preconstruction conference, the Contractor shall advise the Engineer, in writing, what materials, if any, will be delivered to the jobsite via Interstate route(s).

Copies of the **BRIDGE FORMULA WEIGHTS** publication may be obtained by contacting:

Federal Highway Administration
400 7th Street, SW
Washington, DC 20590
(202) 366-2212

or

| http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc_page.htm

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2168

CODE: (SP)

DATE: 11/03/2008

SUBJECT: Fuel and Material Adjustments

Bidders are advised that **NO FUEL OR MATERIAL ADJUSTMENT**, as addressed in Subsection 109.07 of the Standard Specifications, will be allowed on this project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 2382

CODE: (IS)

| DATE: 02/12/2009

| SUBJECT: Status of Right-of-Way

Although it is desirable to have acquired all rights-of-way and completed all utility adjustments and work to be performed by others prior to receiving bids, sometimes it is not considered to be in the public interest to wait until each and every such clearance has been obtained. The bidder is hereby advised of possible unacquired rights-of-way, relocatees and utilities which have not been completed.

| The status of right-of-way acquisition, utility adjustments, [encroachments](#), potentially contaminated sites [and asbestos containment](#) are set forth in [the following](#) attachments.

In the event right of entry is not available to ALL parcels of right-of-way and/or all work that is to be accomplished by others on the date set forth in the contract for the Notice to Proceed is not complete, the Department will issue a restricted Notice to Proceed.

Mark C. McConnell
Deputy Executive Director/
Chief Engineer

Charles R. Carr
Director
Office of Intermodal Planning



Melinda L. McGrath
Executive Director

Lisa M. Hancock
Deputy Executive Director/
Administration

Willie Huff
Director
Office of Enforcement

P. O. Box 1850 / Jackson, MS 39215-1850 / Telephone (601) 359-7001 / FAX (601) 359-7110 / GoMDOT.com

April 14, 2015

Mr. Andrew Hughes
Division Administrator
FHWA-Mississippi Division
100 West Capitol Street, Suite 1062
Jackson, MS 39269

RE: HPP-7194-00(003) LPA
105845-801000
Fourth Street Roadway Improvements Project
City of Hattiesburg
Forrest County

RIGHT-OF-WAY CERTIFICATION

Dear Mr. Hughes:

This is to certify that all necessary highway rights-of-way, including control of access has been acquired or legal Right of Entry obtained and rights-of-way were acquired in accordance with 49CFR Part 24, **except** as indicated on the Status of Right of Way.

This is to further certify that all individuals and families have been relocated to decent, safe and sanitary housing, or comparable relocatees and the steps relative to relocation advisory assistance administration of the Highway Relocation Assistance Program have been taken, **except** as indicated on the attached Status of Right of Way.

All improvements have been removed from the highway right of way, **except** the improvements to be removed by the Contractor as indicated in the contract plans and as indicated on the attached Status of Improvements.

This project was inspected and there were no visible indications of any Potentially Contaminated Sites on proposed Right of Way, **except** as indicated on the attached Status of Potentially Contaminated Sites. The status of the utilities to be adjusted or relocated is shown in the report attached.

Mr. Andrew Hughes
April 14, 2015
Page 2

Attached:

Right of Way Status
Encroachment Certification
Hazardous Waste Status
Asbestos Abatement Status
Utility Status

Sincerely,

RIGHT OF WAY DIVISION

A handwritten signature in cursive script, appearing to read "Stephen D. Downing".

Stephen D. Downing
Assistant Division Administrator

SDD:ar

Attachments

Pc: Chief Engineer (65-01)
LPA Division (77-01)
Construction Engineer (73-01)
District Six (26-01)
Project Engineer (26-01 PE)
Facility & Maintenance (89-20)

**STATUS OF RIGHT-OF-WAY
HPP-7194-00(003) LPA
105845-801000
Fourth Street Roadway Improvements Project
FORREST COUNTY
April 14, 2015**

All rights of way and legal rights of entry have been acquired except:

NONE.



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

RIGHT-OF-WAY STATUS REPORT/CERTIFICATION

Forrest County, Mississippi

Project No. HPP-7194-00(003) LPA/105845-801000

Fourth Street Roadway Improvements Project – Phase II

March 25, 2015

This is to certify that all necessary rights of way have been acquired, including legal and physical possession. Said rights of way have been acquired in accordance with Federal Highway Administration directives governing the acquisition of real property including CFR 49 Part 24.

This is to further certify that there are no relocations (Families, Businesses, or Tenants) involved in this project.

Signed:

Lamar Rutland, P.E.
Engineering Director, City of Hattiesburg



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

RIGHT-OF-WAY ENCROACHMENT REPORT/CERTIFICATION

Forrest County, Mississippi
Project No. HPP-7194-00(003) LPA/105845-801000
Fourth Street Roadway Improvements Project – Phase II

March 25, 2015

This is to certify that a physical survey of the right-of-ways to be used in the construction of this project revealed that there are no encroachments on the subject project.

Signed:

Lamar Rutland, P.E.
Engineering Director, City of Hattiesburg



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

HAZARDOUS WASTE SITE REPORT/CERTIFICATION

Forrest County, Mississippi
Project No. HPP-7194-00(003) LPA/105845-801000
Fourth Street Roadway Improvements Project – Phase II

March 25, 2015

This is to certify that a physical survey of the right-of-ways to be used in the construction of this project revealed that there are no areas suspected of having any hazardous waste or underground storage tanks.

Signed

A handwritten signature in dark ink, appearing to read "Lamar Rutland".

Lamar Rutland, P.E.
Engineering Director, City of Hattiesburg



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

ASBESTOS ABATEMENT REPORT/CERTIFICATION

Forrest County, Mississippi
Project No. HPP-7194-00(003) LPA/105845-801000
Fourth Street Roadway Improvements Project -- Phase II

March 25, 2015

This is to certify that the project components do not contain any known asbestos containing materials.

Signed:

A handwritten signature in dark ink, appearing to read "Lamar Rutland".

Lamar Rutland, P.E.
Engineering Director, City of Hattiesburg



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

UTILITY REPORT/CERTIFICATION

Forrest County, Mississippi
Project No. HPP-7194-00(003) LPA/105845-801000
Fourth Street Roadway Improvements Project -- Phase II

March 25, 2015

This is to certify that pre-construction utility adjustments required for the above reference project have all been adjusted, relocated, or removed.

There are no other known utilities in conflict with the proposed project.

The City of Hattiesburg understands that any claim by the contractor due to NOT having the utilities relocated will be a non-participating item. In the event the utility facilities are discovered to be in conflict, damaged, or otherwise impact the proposed construction, the City of Hattiesburg shall bear all responsibility and/or claims associated with these facilities.

Signed:

Lamar Rutland, P.E.
Engineering Director, City of Hattiesburg

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Inter-Departmental Memorandum

TO: Mr. David Seyfarth
District LPA Engineer (16-10)

DATE: March 31, 2015

FROM: Mr. Jared Brogan
Hattiesburg Project Office (16-13)

SUBJECT OR PROJECT NO: HPP-7194-00(003)LPA/ 105845-801000
Fourth Street Roadway Improvements-Phase 2

INFORMATION COPY TO:

COUNTY: Forrest

Jeff Altman- State LPA Engineer (77-01)
Kelly Castleberry- District 6 Engineer (26-01)
Ashlyn Brock- Right of Way Officer (26-01)
Ronnie Shivers-Right of Way Officer (26-01)
Lamar Rutland- City of Hattiesburg
Geoff Crosby- Neel-Schaffer, Inc.
Project File (16-13)

STATUS OF UTILITY RELOCATION WORK

There are no known utility conflicts on the above mentioned project at this time.

This is to certify that adjustments to facilities owned by the above mentioned utility companies have been completed to the best of my knowledge and are acceptable, and in accordance with the terms of the agreement. Said adjustments are located within the limits of the above mentioned LPA project.

SEE DISCLAIMER



Jared Brogan
Utility Coordinator (16-13)

Disclaimer:

The utility facilities have been identified by representatives of the Local Public Agency (LPA), or their agents. The locations of the facilities are assumed to be approximate. The Mississippi Department of Transportation (MDOT) can only show approximate location and presence based upon investigation and discovery by the LPA and its agents; and consequently cannot certify the facilities location and presence. Therefore, In the event the utility facilities are discovered to be in conflict, damaged, or otherwise impact the proposed construction, the LPA shall bear all responsibility and/ or claims associated with these facilities. Furthermore, the LPA shall indemnify and hold harmless the Mississippi Department of Transportation, the Mississippi Transportation Commission, and its representatives in the event that damages and/ or claims should arise.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2677

CODE: (SP)

DATE: 06/18/2009

SUBJECT: Material Transfer Device

Bidders are advised that the use of a material transfer device as referenced in Subsection 401.03.9 of the specifications is not mandatory on the above project(s). The Contractor may use a material transfer device if desired, but it is not required.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2689 LPA

CODE: (SP)

DATE: 04/27/2016

SUBJECT: Asphalt Smoothness Requirement

Bidders are advised that Subsection 907-403.03.2.1—Smoothness Tolerances for Mean Roughness Index (MRI) is removed from this project. Any incentive or disincentive for asphalt smoothness associated with (MRI) is also hereby eliminated from this project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 3067

CODE: (SP)

| DATE: 04/14/2010

**SUBJECT: Storm Water Discharge Associated with Construction Activity
(≥ 1 and < 5 Acres)**

Construction Storm Water General NPDES Permit MSR 15 to discharge storm water associated with construction activity is required. This project is granted permission to discharge treated storm water into State waters. Copies of said permit and Storm Water Pollution Prevention Plan (SWPPP) are on file with the Department.

Prior to the execution of the contract, the successful bidder shall execute and deliver to the Executive Director an original signed copy of the completed Prime Contractor Certification (Form No. 1).

Failure of the bidder to execute and file the completed Prime Contractor Certification (Form No. 1) shall be just cause for the cancellation of the award.

The executed Prime Contractor Certification (Form No. 1) shall be prima facie evidence that the bidder has examined the permit, is satisfied as to the terms and conditions contained therein, and that the bidder has the primary responsibility for meeting all permit terms and conditions including, but not limited to, the inspection and reporting requirements of Part IV. For this project, the Contractor shall furnish, set up and read, as needed, an on-site rain gauge.

The Contractor must furnish the Project Engineer a completed copy of the Small Construction Notice of Intent (SCNOI) along with the Contractor's Erosion Control Plan.

| The Contractor shall make inspections in accordance with [condition No. S-4, Page 13](#), and shall furnish the Project Engineer with the results of each weekly inspection as soon as possible following the date of inspection. The weekly inspections must be documented monthly on the Inspection and Certification Form, [a copy of which is provided](#). The Contractor's representative and the Project Engineer shall jointly review and discuss the results of the inspections so that corrective action can be taken. The Project Engineer shall retain copies of the inspection reports.

The Engineer will have the authority to suspend all work and/or withhold payments for failure of the Contractor to carry out provisions of MDEQ's Storm Water Construction General Permit, the erosion control plan, updates to the erosion control plan, and /or proper maintenance of the BMPs.

Securing a permit (s) for storm water discharge associated with the Contractor's activity on any other regulated area the Contractor occupies, shall be the responsibility of the Contractor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3612

CODE: (SP)

DATE: 08/10/2011

SUBJECT: Additional Erosion Control Requirements

Bidders are hereby advised of the following requirements that relate to erosion control activities on the project.

THE MAXIMUM TOTAL ACREAGE THAT CAN BE DISTURBED, AT ONE TIME, ON THE PROJECT IS NINETEEN (19) ACRES. THE CONTRACTOR SHALL BE REQUIRED TO STABILIZE DISTURBED AREAS PRIOR TO OPENING UP ADDITIONAL SECTIONS OF THE PROJECT. STABILIZED SHALL BE WHEN THE DISTURBED AREA MEETS ONE OF THE FOLLOWING CRITERIA:

- THE AREA HAS BEEN GRASSED, EITHER TEMPORARY OR PERMANENT, AND MULCHED ACCORDING TO THE SPECIFICATIONS, OR
- A CRUSHED STONE COURSE OR A LIFT OF ASPHALT PAVEMENT HAS BEEN PLACED, OR
- THE AREA HAS BEEN CHEMICALLY TREATED USING PORTLAND CEMENT OR LIME-FLY ASH, AND SEALED.

DISTURBED AREAS INCLUDE THE ROADBED, SLOPES AND REMAINING AREA OUT TO THE ROW LINE.

Clearing and Grubbing: Prior to beginning any clearing and grubbing operations on the project, controls shall be in place to address areas such as drainage structures, wetlands, streams, steep slopes and any other sensitive areas as directed by the Engineer. Clearing and grubbing should be limited to the minimum area necessary to construct the project. Grubbing operations should be minimized in areas outside the construction limits and stumps should be cut off flush with the existing ground elevations. A buffer area of at least fifteen (15) feet shall be in place adjacent to the right-of-way line and at least five (5) feet adjacent to stream banks. The buffer area can either be the existing vegetation that is left undisturbed or re-established by planting new vegetation if clearing and grubbing was required.

Unclassified Excavation: Cut sections shall be graded in accordance with the typical sections and plan grades. Permanent erosion control BMP's should be placed as soon as possible after the cut material has been moved. Fill sections that are completed shall have permanent erosion control BMP's placed. Fill sections that are not completed will be either permanently or temporarily grassed until additional material is made available to complete these sections. All unclassified excavation on the project will still be required to be moved prior to incorporating any borrow excavation on the project. The contractor may have to stockpile unclassified excavation in order to comply with the nineteen (19) acre requirement. No additional compensation will be made for stockpiling operations.

Disturbed areas that remain inactive for a period of more than fourteen (14) days shall be temporary grassed and mulched. Temporary grassing and mulching shall only be paid one time for a given area.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4214

CODE: (IS)

DATE: 11/29/2012

SUBJECT: Safety Apparel

Bidders are advised that the Code of Federal Regulations CFR 23 Part 634 final rule was adopted November 24, 2006 with an effective date of November 24, 2008. This rule requires that "All workers within the right-of-way of a Federal-Aid Highway who are exposed either to traffic (vehicles using the highway for the purposes of travel) or to construction equipment within the work area shall wear high-visibility safety apparel". High-visibility safety apparel is defined in the CFR as "personnel protective safety clothing that is intended to provide conspicuity during both daytime and nighttime usage, and that meets the Performance Class 2 or 3 requirements of the ANSI/ISEA 107-2004 publication entitled American National Standard for High-Visibility Safety Apparel and Headwear". All workers on Mississippi State Highway right-of-way shall comply with this Federal Regulation. Workers are defined by the CFR as "people on foot whose duties place them within the right-of way of a Federal-Aid Highway, such as highway construction and maintenance forces, survey crews, utility crews, responders to incidents within the highway right-of-way, and law enforcement personnel when directing traffic, investigating crashes, and handling lane closures, obstructed roadways, and disasters within the right-of-way of a Federal-Aid Highway".

More information regarding high visibility safety apparel can be found at the following sites.

<http://www.gpo.gov/fdsys/pkg/CFR-2008-title23-vol1/pdf/CFR-2008-title23-vol1-sec634-1.pdf>

<http://ops.fhwa.dot.gov/wz/resources/policy.htm#hv>

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904- NOTICE TO BIDDERS NO. 4473

CODE: (SP)

DATE: 04/08/2013

SUBJECT: Alternate Crushed Stone Base Bid Items

Bidders are advised that the Crushed Stone Base used on this project will be bid as an alternate pay item: $\frac{3}{4}$ "-inch and Down Crushed Stone Base, Size 825B Crushed Stone Base, or Size 610 Crushed Stone Base. Bidders must select one of the alternates at the time of bid. **The Contractor must use the selected crushed stone base throughout the entire project.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4488 LPA

CODE: (IS)

DATE: 05/01/2013

SUBJECT: DBE Forms, Participation and Payment

Bidders are hereby advised that the participation of a DBE Firm cannot be counted towards the Prime Contractor's DBE goal until the amount being counted towards the goal has been paid to the DBE.

Form OCR-482-LPA has been developed to comply with this requirement. Bidders are hereby advised that at the end of the job, the Prime Contractor will submit this form to the Project Engineer before the final estimate is paid and the project is closed out. This form certifies payments to all DBE Subcontractors over the life of the contract.

Form OCR-484-LPA has also been developed to comply with this requirement. Bidders are hereby advised that each month, the Prime Contractors will submit this form to the Project Engineer no later than the last day of each month. This form certifies payments to all Subcontractors and shows all firms even if the Prime Contractor has paid no monies to the firm during that estimate period (negative report). The Project Engineer will attach this form to the monthly estimate before forwarding the estimate to the Local Public Agency (LPA) Division for processing.

Bidders are also advised that Form OCR-485-LPA will be completed by ALL BIDDERS submitting a bid proposal and must be signed and included in the bid proposal package. If at least one copy of this form is not signed and included as part of bid proposal, your bid will be deemed irregular.

DBE Forms, including Forms OCR-482-LPA, OCR-484-LPA and OCR-485-LPA, can be obtained from the Office of Civil Rights Division, MDOT Administration Building, 401 North West Street, Jackson, MS, or at www.gomdot.com under *Business, Disadvantaged Enterprise, Applications and Forms for the DBE Program, MDOT Forms*.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4565

CODE: (SP)

DATE: 06/27/2013

SUBJECT: Manual on Uniform Traffic Control Devices

Any reference in the Standard Specifications or contract documents to a particular Section of the Manual on Uniform Traffic Control Devices (MUTCD) it shall mean that Section of the latest version of the Manual on Uniform Traffic Control Devices.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 4566

CODE: (SP)

| DATE: 07/02/2013

SUBJECT: DUNS Requirement for Federal Funded Projects

Bidders are advised that the Prime Contractor must maintain current registrations in the Central Contractor Registration (<http://www.sam.gov>) at all times during this project. A Dun and Bradstreet Data Universal Numbering System (DUNS) Number (<http://www.dnb.com>) is one of the requirements for registration in the Central Contractor Registration.

Bidders are also advised that the following information needs to be completed and included in the bid documents:

DUNS: _____

Company Name: _____

Company e-mail address: _____

By: _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5053

CODE: (SP)

DATE: 06/03/2014

SUBJECT: Contractor Correspondence

Bidders are advised that all correspondence concerning this project, other than correspondence related to the execution of the contract and sub-contracting, shall be sent to the Project Engineer. The Project Engineer will then forward any necessary correspondence to the appropriate Division. This includes general correspondence, submittals, shop drawings, requests for advancement of materials, etc.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 5405

CODE: (SP)

| DATE: 02/11/2015

SUBJECT: Traffic Control Devices

Bidders are advised of the following two changes regarding traffic control devices.

Flashing Arrow Panels

| In Subsection 619.02.5 of the Standard Specifications, it states that flashing arrow panels shall meet the requirements of Section 6F.53 of the MUTCD. The new MUTCD has changed this reference to Section 6F.61. Flashing arrow panels on this project must meet the requirements of Section 6F.61 of the latest MUTCD.

Type III Barricade Rails

The use of 2-inch nominal thickness timber for rails on Type III barricades has not been approved by NCHRP as a crashworthy device. Therefore, the use of 2-inch nominal thickness timbers will not be allowed for rails on Type III Barricades. Timber rails for Type III Barricades shall be as follows.

- For barricades up to four feet (4') wide, the maximum thickness of timber rails shall be one inch (1") and the material shall be pine timber or ¾-inch ACX plywood.
- For barricades more than four feet (4') wide, timber rails shall be constructed of ¾-inch ACX plywood.

A list of crashworthy Type III Barricades can be found at the below FHWA website.

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

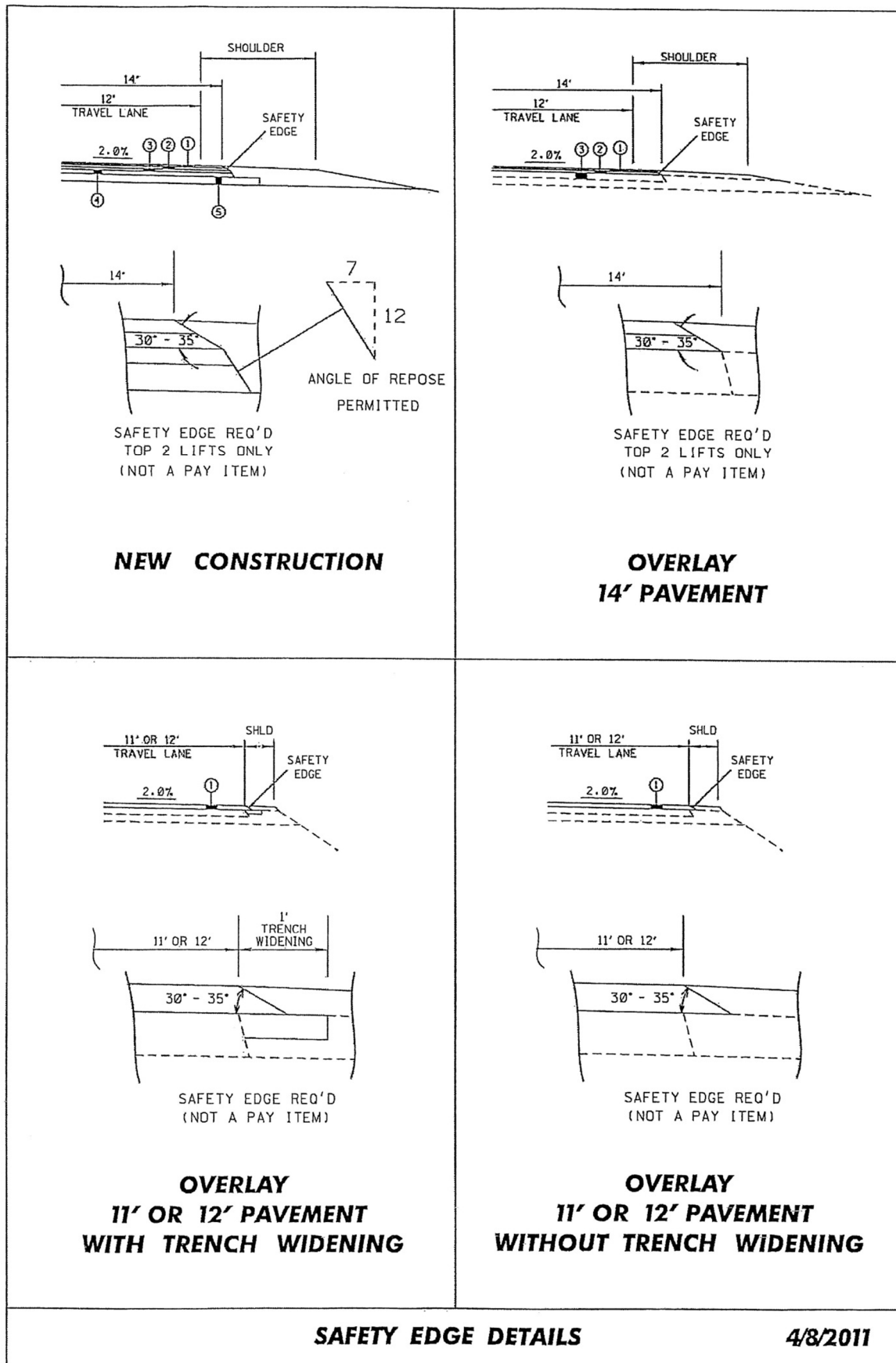
| SECTION 904 - NOTICE TO BIDDERS NO. **5411**

CODE: (SP)

| DATE: **02/17/2015**

SUBJECT: **Safety Edge**

| Bidders are hereby advised that the Shoulder Wedge (Safety Edge) specified in Special Provision 907-401, [Asphalt Pavements](#), shall only apply to the top two (2) lifts of asphalt. [Open Graded Friction Courses \(OGFC\)](#) are not to be considered a lift as it pertains to safety edge. Attached is a drawing showing the safety edge.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5412

CODE: (SP)

DATE: 02/18/2015

SUBJECT: Weight Limits

Bidders are hereby advised that all trucks hauling materials to and from this project shall comply with the legal weight limits as established by law. MDOT will not compensate the Contractor for any portion of a load delivered to the project in excess of the legal limit for that truck.

Vehicles relying on harvest permits are limited to hauling only those materials set forth in Section 27-19-81(4) of the Mississippi Code, as amended.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5865 LPA

CODE: (SP)

DATE: 11/30/2015

SUBJECT: Sampling and Testing of Concrete on Small LPA Projects

Bidders are advised that the following concrete items will be tested at a reduced amount and will not be accepted based on the Quality Control / Quality Assurance (QC/QA) requirements of Section 804 of the specifications.

<u>Section</u>	<u>Description</u>
221	Paved Ditches
601	Minor Structures - manholes, inlets, catch basins, junction boxes, pipe headwalls, and pipe collars.
605	Edge Drain and Underdrain Outlet Pads
606	Guardrail Anchors
607	Fence Post Footings
608	Sidewalks
609	Curb and Gutter
614	Driveways
616	Median and Island Pavement
630	Sign Footings, except Overhead Sign Supports

The material requirements for the above pay items are as follows:

1. Cement and aggregates for concrete items shall be from approved sources. Concrete shall be produced from a concrete batch plant which has a current plant calibration. The Project Engineer shall furnish plant inspection as deemed necessary for control. The producer shall furnish with each load of concrete a delivery ticket containing the following information:
 - a. Project Number
 - b. Class Concrete
 - c. Weight of Cement
 - d. Free Water in Aggregate (gallons)
 - e. Weight of Fine Aggregate
 - f. Weight of Coarse Aggregate
 - g. Water in Mix (gallons)
 - h. Number of Revolutions Mixed
 - i. Time of Batching
2. The Contractor is required to submit mix designs to accomplish this work in accordance with Section 804.
3. A set of three cylinders, slump test, and air test will be performed on the first day of production for each mix design. The compressive strength test shall be the average of three cylinders.
4. An additional set of cylinders, slump test, and air test will be performed at a minimum of rate of one per 100 cubic yards of mix produced.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SECTION 904 - NOTICE TO BIDDERS NO. 5866 LPA

CODE: (SP)

| DATE: 10/28/2015

SUBJECT: Payroll Requirements

Bidders are hereby advised that the Contractor and Subcontractor(s) are required to submit payroll information to the Project Engineers on a weekly basis.

On Federal-Aid Projects, LPA-880, LPA-881 and certified payroll submissions are required each week the Contractor or a Subcontractor performs work on the project. This is addressed in Section IV of Form FHWA-1273.

On State-Funded Projects, LPA-880 is required each week the Contractor or a Subcontractor performs work on the project.

| When no work is performed on either Federal-Aid or State-Funded Projects, the Contractor should only submit LPA-880 showing no work activities.

The Contractor shall make all efforts necessary to submit this information to the Project Engineer in a weekly manner. The Engineer will have the authority to suspend the work wholly or in part and to withhold payments because of the Contractor's failure to submit the required information. Submission of forms and payrolls shall be current through the first full week of the month for the estimate period in order for the Project Engineer to process an estimate.

Bidders are advised to review the requirements regarding payroll submissions in Section 110 of the Standard Specifications.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 6411 LPA

DATE: 06/06/2016

The goal is 2 percent for the Disadvantaged Business Enterprise. The low bidder is required to submit Form OCR-481 for all DBEs.

Delete the third paragraph under CONTRACT GOAL on page 2, and substitute the following.

The apparent lowest responsive bidder shall submit to the LPA Form OCR-481, signed by the Prime Contractor and the DBE Subcontractors, **no later than the 3rd business day after opening of the bids.**

LPA Projects: Delete entire Pre-Bid Section at the top of page 6.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 6411

CODE: (SP)

DATE: 06/06/2016

SUBJECT: DISADVANTAGED BUSINESS ENTERPRISES IN FEDERAL-AID
HIGHWAY CONSTRUCTION

This contract is subject to the "Moving Ahead for Progress in the 21st Century Act (MAP-21)" and applicable requirements of "Part 26, Title 49, Code of Federal Regulations". Portions of the Act are set forth in this Notice as applicable to compliance by the Contractor and all of the Act, and the MDOT DBE Program, is incorporated by reference herein.

The Department has developed a Disadvantaged Business Enterprise Program that is applicable to this contract and is made a part thereof by reference.

Copies of the program may be obtained from:

Office of Civil Rights
Mississippi Department of Transportation
P. O. Box 1850
Jackson, Mississippi 39215-1850

POLICY

It is the policy of the Mississippi Department of Transportation to provide a level playing field, to foster equal opportunity in all federally assisted contracts, to improve the flexibility of the DBE Program, to reduce the burdens on small businesses, and to achieve that amount of participation that would be obtained in a non-discriminatory market place. In doing so, it is the policy of MDOT that there will be no discrimination in the award and performance of federally assisted contracts on the basis of race, color, sex, age, religion, national origin, or any handicap.

ASSURANCES THAT CONTRACTORS MUST TAKE

MDOT will require that each contract which MDOT signs with a sub-recipient or a Contractor, and each subcontract the Prime Contractor signs with a Subcontractor, includes the following assurances:

“The Contractor, subrecipient or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as MDOT deems appropriate.”

DEFINITIONS

For purposes of this provision the following definitions will apply:

"Disadvantaged Business" means a small business concern: (a) which is at least 51 percent owned by one or more socially and economically disadvantaged individual(s) or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individual(s); and (b) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individual(s) who own it. It is important to note that the business owners themselves must control the operations of the business. Absentee ownership or title ownership by an individual who does not take an active role in controlling the business is not consistent with eligibility as a DBE under CFR 49 Part 26.71.

CONTRACTOR'S OBLIGATION

The Contractor and all Subcontractors shall take all necessary and reasonable steps to ensure that DBE firms can compete for and participate in the performance of a portion of the work in this contract and shall not discriminate on the basis of race, color, national origin, religion or sex. Failure on the part of the Contractor to carry out the DBE requirements of this contract constitutes a breach of contract and after proper notification the Department may terminate the contract or take other appropriate action as determined by the Department.

When a contract requires a zero percent (0%) DBE goal, the Contractor still has the responsibility to take all necessary and reasonable steps to ensure that DBE firms can compete for and participate in the performance of the work in the contract. In this case, all work performed by a certified DBE firm is considered to be a "race neutral" measure and the Department will receive DBE credit towards the overall State goals when the DBE firm is paid for their work. If the Prime Contractor is a certified DBE firm, the Department can receive DBE credit only for the work performed by the Prime Contractor's work force or any work subcontracted to another DBE firm. Work performance by a non-DBE Subcontractor is not eligible for DBE credit.

CONTRACT GOAL

The goal for participation by DBEs is established for this contract in the attached Supplement. The Contractor shall exercise all necessary and reasonable steps to ensure that participation is equal to or exceeds the contract goal.

If the percentage of the contract that is proposed for DBEs is 1% or greater, it shall be so stated on the last bid sheet of the proposal.

The apparent lowest responsive bidder shall submit to the Office of Civil Rights Form OCR-481, signed by the Prime Contractor and the DBE Subcontractors, no later than the 3rd business day after opening of the bids.

Form OCR-481 is available on the MDOT website at GoMDOT.com, then Divisions, Civil Rights, Forms, DBE, MDOT Projects, or by calling 601-359-7466.

FORMS ARE AVAILABLE FROM THE OFFICE OF CIVIL RIGHTS

The OCR-481 Form must contain the following information:

The name and address of each certified DBE Contractor / Supplier;

The Reference Number, percent of work and the dollar amount of each item. If a portion of an item is subcontracted, a breakdown of that item including quantities and unit price must be attached, detailing what part of the item the DBE firm is to perform and who will perform the remainder of the item.

If the DBE Commitment shown on the last bid sheet of the proposal, does not equal or exceed the contract goal, the bidder must submit, to MDOT Contract Administration Division prior to bid opening, information to satisfy the Department that adequate good faith efforts have been made to meet the contract goal.

Failure of the lowest bidder to furnish acceptable proof of good faith efforts, submitted to MDOT Contract Administration Division prior to bid opening, shall be just cause for rejection of the proposal. Award may then be made to the next lowest responsive bidder or the work may be re-advertised.

The following factors are illustrative of matters the Department will consider in judging whether or not the bidder has made adequate good faith effort to satisfy the contract goal.

- (1) Whether the bidder attended the pre-bid meeting that was scheduled by the Department to inform DBEs of subcontracting opportunities;
- (2) Whether the bidder advertised in general circulation, trade association, and minority-focus media concerning the subcontracting opportunities;
- (3) Whether the bidder provided written notice to a reasonable number of specific DBEs that their interest in the contract is being solicited;
- (4) Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested;
- (5) Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goal;
- (6) Whether the bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;
- (7) Whether the bidder negotiated in good faith with interested DBEs and did not reject them as unqualified without sound reasons based on a thorough investigation of their capabilities; and

- (8) Whether the bidder made efforts to assist interested DBEs in obtaining any required bonding or insurance.
- (9) Whether the bidder has written notification to certified DBE Contractors soliciting subcontracting for items of work in the contract.
- (10) Whether the bidder has a statement of why an agreement was not reached.

The bidder's execution of the signature portion of the proposal shall constitute execution of the following assurance:

The bidder hereby gives assurance pursuant to the applicable requirements of "Moving Ahead for Progress in the 21st Century Act (MAP-21)" and applicable requirements of "Part 26, Title 49, Code of Federal Regulations" that the bidder has made a good faith effort to meet the contract goal for DBE participation for which this proposal is submitted.

DIRECTORY

A list of "Certified DBE Contractors" which have been certified as such by the Mississippi Department of Transportation and other Unified Certification Partners (UPC) can be found on the Mississippi Department of Transportation website at www.gomdot.com. The DBE firm must be certified at the time the project is let and approved by MDOT to count towards meeting the DBE goal.

REPLACEMENT

If a DBE Subcontractor cannot perform satisfactorily, and this causes the OCR-481 commitment to fall below the contract goal, the Contractor shall take all necessary reasonable steps to replace the DBE with another certified DBE Subcontractor or submit information to satisfy the Mississippi Department of Transportation that adequate good faith efforts have been made to replace the DBE. The replacement DBE must be a DBE who was on the Department's list of "Certified DBE Contractors" when the job was let, and who is still active. All DBE replacements must be approved by the Department.

Under no circumstances shall the Prime or any Subcontractor perform the DBE's work (as shown on the OCR-481) without prior written approval from the Department. See "Sanctions" at the end of this document for penalties for performing DBE's work.

When a Contractor proposes to substitute/replace/terminate a DBE that was originally named on the OCR-481, the Contractor must obtain a release, in writing, from the named DBE explaining why the DBE Subcontractor cannot perform the work. A copy of the original DBE's release must be attached to the Contractor's written request to substitute/replace/terminate along with appropriate Subcontract Forms for the substitute/replacement/terminated Subcontractor, all of which must be submitted to the DBE Coordinator and approved, in advance, by MDOT.

GOOD FAITH EFFORTS

To demonstrate good faith efforts to replace any DBE that is unable to perform successfully, the Contractor must document steps taken to subcontract with another certified DBE Contractor. Such documentation shall include no less than the following:

- (1) Proof of written notification to certified DBE Contractors by certified mail that their interest is solicited in subcontracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.
- (2) If the Prime Contractor is a certified DBE firm, only the value of the work actually performed by the DBE Prime can be counted towards the project goal, along with any work subcontracted to a certified DBE firm.
- (3) If the Contractor is not a DBE, the work subcontracted to a certified DBE Contractor will be counted toward the goal.
- (4) The Contractor may count toward the goal a portion of the total dollar value of a contract with a joint venture eligible under the standards of this provision equal to the percentage of the DBE partner in the joint venture.
- (5) Expenditures to DBEs that perform a commercially useful function may be counted toward the goal. A business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work and carries out its responsibilities by actually performing, managing, and supervising the work involved.
- (6) The Contractor may count 100% of the expenditures for materials and supplies obtained from certified DBE suppliers and manufacturers that produce goods from raw materials or substantially alters them for resale provided the suppliers and manufacturers assume the actual and contractual responsibility for the provision of the materials and supplies. The Contractor may count sixty percent (60%) of the expenditures to suppliers that are not manufacturers, provided the supplier performs a commercially useful function in the supply process. Within 30 days after receipt of the materials, the Contractor shall furnish to the DBE Coordinator invoices from the certified supplier to verify the DBE goal.
- (7) Any work that a certified DBE firm subcontracts or sub-subcontracts to a non-DBE firm will not count towards the DBE goal.
- (8) Only the dollars actually paid to the DBE firm may be counted towards the DBE goal.

Failure of the Contractor to demonstrate good faith efforts to replace a DBE Subcontractor that cannot perform as intended with another DBE Subcontractor, when required, shall be a breach of contract and may be just cause to be disqualified from further bidding for a period of up to 12 months after notification by certified mail.

PRE-BID MEETING

A pre-bid meeting will be held in Amphitheater 1 & 2 of the Hilton Jackson located at I-55 and County Line Road, Jackson, Mississippi at 2:00 P.M. on the day preceding the date of the bid opening.

This meeting is to inform DBE firms of subcontracting and material supply opportunities. Attendance at this meeting is considered of prime importance in demonstrating good faith effort to meet the contract goal.

PARTICIPATION / DBE CREDIT

Participation shall be counted toward meeting the goal in this contract as follows:

- (1) If the Prime Contractor is a certified DBE firm, only the value of the work actually performed by the DBE Prime can be counted towards the project goal, along with any work subcontracted to a certified DBE firm.
- (2) If the Contractor is not a DBE, the work subcontracted to a certified DBE Contractor will be counted toward the goal.
- (3) The Contractor may count toward the goal a portion of the total dollar value of a contract with a joint venture eligible under the standards of this provision equal to the percentage of the DBE partner in the joint venture.
- (4) Expenditures to DBEs that perform a commercially useful function may be counted toward the goal. A business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work and carries out its responsibilities by actually performing, managing, and supervising the work involved.
- (5) The Contractor may count 100% of the expenditures for materials and supplies obtained from certified DBE suppliers and manufacturers that produce goods from raw materials or substantially alters them for resale provided the suppliers and manufacturers assume the actual and contractual responsibility for the provision of the materials and supplies. The Contractor may count sixty percent (60%) of the expenditures to suppliers that are not manufacturers, provided the supplier performs a commercially useful function in the supply process. Within 30 days after receipt of the materials, the Contractor shall furnish to the DBE Coordinator invoices from the certified supplier to verify the DBE goal.
- (6) Any work that a certified DBE firm subcontracts or sub-subcontracts to a non-DBE firm will not count towards the DBE goal.
- (7) Only the dollars actually paid to the DBE firm may be counted towards the DBE goal.

AWARD

Award of this contract to the low bidder will be contingent upon the following conditions:

- (1) Concurrence from Federal Highway Administration, when applicable.
- (2) Bidder must submit to the Office of Civil Rights for approval, Form OCR-481 (DBE Commitment) no later than the 3rd business day after opening of the bids to satisfy the Department and that adequate good faith efforts have been made to meet the contract goal. For answers to questions regarding Form OCR-481, contact the MDOT Office of Civil Rights at (601) 359-7466.
- (3) Bidder must include OCR-485 information with their bid proposal listing all firms that submitted quotes for material supplies or items to be subcontracted. OCR-485 information must be included with the bid proposal. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.

Prior to the start of any work, the bidder must notify the Project Engineer, in writing, of the name of the designated "DBE Liaison Officer" for this project. This notification must be posted on the bulletin board at the project site.

DEFAULT

If the contract goal established by MDOT in this proposal is 1% or greater, it must be met to fulfill the terms of the contract. The Contractor may list DBE Subcontractors and items that exceed MDOT's contract goal, but should unforeseen problems arise that would prevent a DBE from completing its total commitment percentage, the Contractor will meet the terms of the contract as long as it meets or exceeds MDOT's Contract Goal. For additional information, refer to "Replacement" section of this Notice.

DBE REPORTS

- (1) OCR-481: Refer to "CONTRACT GOAL" section of this Notice to Bidders for information regarding this form.
- (2) OCR-482: At the conclusion of the project the Contractor will submit to the Project Engineer for verification of quantities and further handling Form OCR-482 whereby the Contractor certifies to the amounts of payments made to each Contractor / Supplier. The Project Engineer shall submit the completed Form OCR-482 to the DBE Coordinator (Office of Civil Rights). Final acceptance of the project is dependent upon Contract Administration Division's receipt of completed Form OCR-482 which they will receive from the Office of Civil Rights.
- (3) OCR-483: The Project Engineer/Inspector will complete Form OCR-483, the Commercially Useful Function (CUF) Performance Report, in accordance with MDOT S.O.P. No. OCR-03-09-01-483. Evaluations reported on this form are used to determine whether or not the DBE firm is performing a CUF. The Prime Contractor should take

corrective action when the report contains any negative evaluations. DBE credit may be disallowed and/or other sanctions imposed if it is determined the DBE firm is not performing a CUF. This form should also be completed and returned to the DBE Coordinator (Office of Civil Rights).

- (4) OCR-484: Each month, the Contractor will submit to the Project Engineer OCR-484 certifying payments to all Subcontractors. This OCR-484 will be attached to the monthly estimate for further processing. Failure of the Contractor to submit the OCR-484 will result in the estimate not being processed and paid.
- (5) OCR-485: Bidder must submit **signed form with bid proposal** of all firms that submitted quotes for material supplies or items to be subcontracted. *If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.*
- (6) OCR-487: Only used by Prime Contractors that are certified DBE firms. This form is used in determining the exact percentage of DBE credit for the specified project. It should be returned to MDOT with the OCR-481 form, or can also be returned with the Permission to Subcontract Forms (CAD-720, CAD-725 and CAD-521).

SANCTIONS

The Department has the option to enforce any of the following penalties for failure of the Prime Contractor to fulfill the DBE goal as stated on the OCR-481 form or any violations of the DBE program guidelines:

- (1) Disallow credit towards the DBE goal
- (2) Withhold progress estimate payments
- (3) Deduct from the final estimate or recover an amount equal to the unmet portion of the DBE goal which may include additional monetary penalties as outlined below based on the number of offenses and the severity of the violation as determined by MDOT.

1 st Offense	10% of unmet portion of goal	or	\$5,000 lump sum payment	or	Both
2 nd Offense	20% of unmet portion of goal	or	\$10,000 lump sum payment	or	Both
3 rd Offense	40% of unmet portion of goal	or	\$20,000 lump sum payment	or	\$20,000 lump sum payment and debarment

- (4) Debar the Contractor involved from bidding on Mississippi Department of Transportation projects.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 7001

CODE: (SP)

DATE: 1/7/2015

SUBJECT: Contract Time

PROJECT:

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 907-108.06.

The Notice of Award will be issued within 60 days of the bid opening date and the effective date of the Notice to Proceed / Beginning of Contract Time Date will be within two months following the Date of the Notice of Execution of Contract Letter.

The Contractor shall request a Notice to Proceed / Beginning of Contract Time Date after receiving the Notice of Execution of Contract Letter and the date requested should be within the two month period following the Date of the Notice of Execution of Contract Letter.

Should the Contractor not request a Notice to Proceed Date within the two months allowed, the date for the Notice to Proceed / Beginning of Contract Time will be two months after the Date of the Notice of Execution of Contract Letter.

97 Working Days have been allowed for the completion of work on this project.

A Preconstruction Conference as required by Subsection 907-108.03.2 should be held prior to commencement of any field work by the Contractor.

General Decision Number: MS170235 01/06/2017 MS235

Superseded General Decision Number: MS20160235

State: Mississippi

Construction Type: Highway

County: Forrest County in Mississippi.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017

* ELEC0903-006 05/01/2016

	Rates	Fringes
ELECTRICIAN.....	\$ 25.60	12.5%+4.00

SUMS2010-054 08/04/2014

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 12.00	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 11.54	1.63
HIGHWAY/PARKING LOT STRIPING:		
Truck Driver (Line Striping		
Truck).....	\$ 14.55	0.00
INSTALLER - SIGN.....	\$ 12.19	0.00
INSTALLER: Guardrail.....	\$ 12.39	0.00
IRONWORKER, REINFORCING.....	\$ 16.44	0.00
LABORER: Common or General,		
Including Asphalt Raking,		
Shoveling, Spreading.....	\$ 10.34	0.00
LABORER: Flagger.....	\$ 11.42	0.00
LABORER: Grade Checker.....	\$ 14.82	0.00
LABORER: Luteman.....	\$ 12.88	0.00

LABORER: Mason Tender -		
Cement/Concrete.....	\$ 10.57	0.00
LABORER: Pipelayer.....	\$ 14.50	0.00
LABORER: Laborer-Cones/ Barricades/Barrels -		
Setter/Mover/Sweeper.....	\$ 12.17	0.00
OPERATOR: Asphalt Spreader.....	\$ 14.71	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 14.20	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 11.86	0.00
OPERATOR: Broom/Sweeper.....	\$ 10.94	0.00
OPERATOR: Bulldozer.....	\$ 13.99	0.00
OPERATOR: Concrete Saw.....	\$ 13.93	0.00
OPERATOR: Crane.....	\$ 14.80	0.00
OPERATOR: Distributor.....	\$ 11.46	0.00
OPERATOR: Grader/Blade.....	\$ 16.09	0.00
OPERATOR: Loader.....	\$ 13.99	0.00

OPERATOR: Mechanic.....	\$ 13.00	0.00
OPERATOR: Milling Machine.....	\$ 16.96	0.00
OPERATOR: Oiler.....	\$ 12.22	0.00
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 11.56	0.00
OPERATOR: Roller (All Types)....	\$ 12.17	0.00
OPERATOR: Scraper.....	\$ 14.00	0.00
OPERATOR: Tractor.....	\$ 12.00	0.00
SURVEYOR (Staking, Marking and Brush Clearing).....	\$ 11.56	0.00
TRUCK DRIVER: Flatbed Truck.....	\$ 14.72	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 14.18	0.00
TRUCK DRIVER: Mechanic.....	\$ 12.31	0.00
TRUCK DRIVER: Water Truck.....	\$ 17.08	0.00
TRUCK DRIVER: Dump Truck (All Types).....	\$ 11.58	0.00
TRUCK DRIVER: Semi/Trailer Truck.....	\$ 14.36	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current

negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

SUPPLEMENT TO FORM FHWA-1273 LPA

DATE: 10/19/2013

SUBJECT: Final Certificate and Contract Provisions for Subcontracts

All subcontracts shall be in writing and contain all pertinent provisions and requirements of the prime contract.

Each "Request for Permission to Subcontract" (Form RPS-1) shall include a copy of subcontract for review by the Mississippi Department of Transportation. The federal contract provisions may be omitted from the subcontract copy submitted for review provided the Contractor certifies that the provisions will be physically incorporated into the agreement furnished to the Subcontractor.

In lieu of submitting a copy of the subcontract for review, the Contractor may certify that the subcontract agreement is in writing and that it contains all the requirements and pertinent provisions of the prime contract.

Each Subcontractor will be required to provide a copy of the subcontract agreement for contract compliance reviews, along with physical evidence (copy of FHWA-1273) that requirements and pertinent provisions have been provided for review and adherence.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**NOTICE OF REQUIREMENTS FOR AFFIRMATIVE
ACTION TO ENSURE EQUAL EMPLOYMENT
OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goal for female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work, is 6.9%.

Until further notice

Goals for minority
participation for
each trade (percent)

SHSA Cities:

Pascagoula - Moss Point -----	16.9
Biloxi - Gulfport -----	19.2
Jackson -----	30.3

SMSA Counties:

Desoto -----	32.3
Hancock, Harrison, Stone-----	19.2
Hinds, Rankin -----	30.3
Jackson -----	16.9

Non-SMSA Counties:

George, Greene-----	26.4
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Alcorn, Benton, Bolivar, Calhoun, Carroll, Chickasaw, Clay, Coahoma, Grenada, Itawamba, Lafayette, Lee, Leflore, Marshall, Monroe, Montgomery, Panola, Pontotoc, Prentiss, Quitman, Sunflower, Tallahatchie, Tate, Tippah, Tishomingo, Tunica, Union, Washington, Webster, Yalobusha -----	26.5
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Attala, Choctaw, Claiborne, Clarke, Copiah, Covington, Franklin, Holmes, Humphreys, Issaquena, Jasper, Jefferson, Jefferson Davis, Jones Kemper, Lauderdale, Lawrence, Leake, Lincoln, Lowndes, Madison, Neshoba, Newton, Noxubee, Oktibbeha, Scott, Sharkey, Simpson, Smith, Warren, Wayne, Winston, Yazoo-----	32.0
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Forrest, Lamar, Marion, Pearl River, Perry, Pike, Walthall-----	27.7
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Adams, Amite, Wilkinson -----	30.4
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These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4.2(d). Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor, estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is to the county and city (if any), stated in the advertisement.

5. The notification required in Paragraph 3 shall be addressed to the following:

Contract Compliance Officer
Mississippi Department of Transportation
P.O. Box 1850
Jackson, Mississippi 39215-1850

(06/28/2012)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-101-4

CODE: (IS)

DATE: 11/05/2008

SUBJECT: Definitions

Section 101, Definitions and Terms, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-101.02--Definitions. Replace the following definitions in Subsection 101.02 on pages 3 through 13.

Contract - The written agreement between the Mississippi Transportation Commission and the Contractor setting forth the obligations of the parties thereunder, including but not limited to, the performance of the work, the furnishing of labor and materials, and the basis of payment.

The contract includes the invitation for bids, proposal, contract form and contract bonds, specifications, supplemental specifications, interim specifications, general and detailed plans, special provisions, notices to bidders, notice to proceed, and also any agreements that are required to complete the construction of the work in an acceptable manner, including authorized extensions thereof, all of which constitute one instrument.

Contract Bonds - The approved form of security, executed by the Contractor and the Contractor's Surety(ies), guaranteeing complete execution of the contract and all supplemental agreements pertaining thereto and the payment of all legal debts pertaining to the construction of the project. This term includes Performance and Payment Bond(s).

Surety - A corporate body, qualified under the laws of Mississippi, which is bound with and for the successful bidder by "contract bond(s)" to guarantee acceptable performance of the contract and payment of all legal taxes and debts pertaining to the construction of the project, including payment of State Sales Tax as prescribed by law, and any overpayment made to the Contractor.

Add the following to the list of definitions in Subsection 101.02 on pages 3 through 13.

Performance Bond - The approved form of security, executed by the Contractor and issued by the Contractor's Surety(ies), guaranteeing satisfactory completion of the contract and all supplemental agreements pertaining thereto.

Payment Bond - The approved form of security, executed by the Contractor and issued by the Contractor's Surety(ies), guaranteeing the payment of all legal debts pertaining to the construction of the project including, but not limited to, the labor and materials of subcontractors and suppliers to the prime contractor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-102-4 LPA

CODE: (SP)

DATE: 04/29/2014

SUBJECT: Bidding Requirements and Conditions

907-102.06--Preparation of Proposal. Delete the fifth, sixth, seventh, eighth, and ninth paragraphs of Subsection 102.06 on page 18.

907-102.08--Proposal Guaranty. Delete the two paragraphs in Subsection 102.08 on page 20 and substitute the following:

No proposal will be considered unless accompanied by certified check, cashier's check or bid bond, made payable to the LPA listed in the contract, in an amount of not less than five percent (5%) of the total amount of the proposal offered. The guaranty shall be evidence of good faith that, if awarded the contract, the bidder will execute the contract and give performance and payment contract bond(s) as stipulated in Subsection 907-103.05.1, 907-103.05.2, and as required by law.

If a bid bond is offered as guaranty, the bond must be on a form approved by the Chief LPA Official, made by a Surety acceptable to the Chief LPA Official and signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent and the Bidder. Such bid bond shall also conform to the requirements and conditions stipulated in Subsection 907-103.05.2 as applicable.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-103-11

CODE: (SP)

| DATE: 07/22/2015

SUBJECT: Award and Execution of Contract

Section 103, Award and Execution of Contract, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-103.04--Return of Proposal Guaranty. Delete the second paragraph of Subsection 103.04 on page 23 and substitute the following:

Certified checks or cashier's checks submitted as proposal guaranties, except those of the two lowest bidders, will be returned within 10 days of contract award. The retained proposal guaranty of the unsuccessful of the two lowest bidders will be returned within ten days following the execution of a contract with the successful low bidder. The retained proposal guaranty of the successful bidder will be returned after satisfactory performance and payment bonds have been furnished and the contract has been executed.

In the event all bids are rejected by the Commission, certified checks or cashier's checks submitted as proposal guaranty by all bidders will be returned within 10 days of rejection.

Delete Subsection 103.05 on page 23 and substitute the following:

907-103.05--Contract Bonds.

907-103.05.1--Requirement of Contract Bonds. Prior to the execution of the contract, the successful bidder shall execute and deliver to the Executive Director a performance and payment bond(s), in a sum equal to the full amount of the contract as a guaranty for complete and full performance of the contract and the protection of the claimants and the Department for materials and equipment and full payment of wages in accordance with Section 65-1-85 Miss. Code Ann. (1972 as amended). In the event of award of a joint bid, each individual, partnership, firm or corporation shall assume jointly the full obligations under the contract and the contract bond(s).

907-103.05.2--Form of Bonds. The form of bond(s) shall be that provided by or acceptable to the Department. These bonds shall be executed by a Mississippi agent or qualified nonresident agent and shall be accompanied by a certification as to authorization of the attorney-in-fact to commit the Surety company. A power of attorney exhibiting the Surety's original seal supporting the Mississippi agent or the qualified nonresident agent's signature shall be furnished with each bond. The Surety company shall be currently authorized and licensed in good standing to conduct business in the State of Mississippi with a minimum rating by A.M. Best of (A-) in the latest printing "Best's Key Rating Guide" to write individual bonds up to ten percent of the policy holders' surplus or listed on the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as

published by the United States Department of the Treasury, Financial Management Service, Circular 570 (latest revision as published and supplemented on the Financial Management Service Web site and in the Federal Register) within the underwriting limits listed for that Surety. The Mississippi agent or qualified nonresident agent shall be in good standing and currently licensed by the Insurance Commissioner of the State of Mississippi to represent the Surety company(ies) executing the bonds.

Surety bonds shall continue to be acceptable to the Commission throughout the life of the Contract and shall not be canceled by the Surety without the consent of the Department. In the event the Surety fails or becomes financially insolvent, the Contractor shall file a new Bond in the amount designated by the Executive Director within thirty (30) days of such failure, insolvency, or bankruptcy. Subsequent to award of Contract, the Commission or the Department may require additional security for any supplemental agreements executed under the contract or replacement security in the event of the surety(ies) loss of the ratings required above. Suits concerning bonds shall be filed in the State of Mississippi and adjudicated under its laws without reference to conflict of laws principles.

907-103.08--Failure to Execute Contract. In the first sentence of Subsection 103.08 on page 24, change “bond” to “performance and payment bonds”.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-104-5

CODE: (IS)

DATE: 05/01/2013

SUBJECT: Scope of Work

Section 104, Scope of Work, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-104.05--Removal and Disposal of All Materials From the Project. Delete the second sentence of the first full paragraph of Subsection 104.05 on page 30 and substitute the following:

The Contractor shall also furnish the Engineer a certified letter stating that the area of disposal is not in a wetland or in Waters of the U.S.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-105-9

DATE: 07/12/2016

SUBJECT: Control of Work

907-105.05.2--Certified Erosion Control Person (CECP). Delete the first sentence of Subsection 907-105.05.2 on page 1, and substitute the following.

On projects that require an erosion control plan, the Contractor shall also designate a responsible person who shall monitor and maintain the effectiveness of the erosion control plan, including NPDES permit requirements.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-105-9

CODE: (SP)

DATE: 06/21/2016

SUBJECT: Control of Work

Section 105, Control of Work, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is modified as follows.

907-105.04--Coordination of Plans, Specifications, Interim Specifications, Special Provisions and Notice to Bidders. Delete the second full paragraph of Subsection 105.04 on page 35, and substitute the following.

In case of a conflict between plan quantities, advertisement quantities, and/or bid sheet quantities, the bid sheet quantities shall prevail.

907-105.05--Cooperation by Contractor. Delete Subsection 105.05 on page 35 and substitute the following.

907-105.05--Cooperation by Contractor. The Contractor shall give the work the attention necessary to expedite its progress, and shall cooperate with the Engineer, inspectors and other Contractors in every possible way.

907-105.05.1--Project Superintendent. The Contractor shall have a competent and experienced full time resident superintendent who is capable of reading and understanding the plans and specifications for the particular work being performed. The superintendent shall be on the project site at any time work is being performed by the Prime Contractor or any Subcontractors. The superintendent shall advise the Project Engineer of an intended absence from the work and designate a person to be in charge of the work during such absence. The superintendent shall receive instructions from the Engineer or authorized representative. Upon issuance of the Notice to Award, the Contractor or duly appointed agent authorized to bind the Contractor shall file with the Executive Director the name and address of the superintendent who will supervise the work with copies to the Construction Engineer, Contract Administration Engineer, District Engineer and Project Engineer. The Executive Director shall be immediately notified in writing with copies to those stated when a change is made in the Contractor's superintendent or superintendent's address. The superintendent shall have full authority to execute orders or directives of the Engineer without delay and to promptly supply materials, equipment, labor and incidentals as may be required. Such superintendence shall be furnished irrespective of the amount of work sublet.

907-105.05.2--Certified Erosion Control Person (CECP). On projects that require an erosion control plan, the Contractor shall also designate a responsible person whose primary duty shall be to monitor and maintain the effectiveness of the erosion control plan, including NPDES permit requirements. This responsible person must be a Certified Erosion Control Person

certified by an organization approved by the Department. Prior to or at the pre-construction conference, the Contractor shall designate in writing the Certified Erosion Control Person to the Project Engineer. The designated **CECP** shall be assigned to only one (1) project. When special conditions exist, such as two (2) adjoining projects or two (2) projects in close proximity, the Contractor may request in writing that the State Construction Engineer approve the use of one (1) **CECP** for both projects. The Contractor may request in writing that the Engineer authorize a substitute **CECP** to act in the absence of the **CECP**. The substitute **CECP** must also be certified by an organization approved by the Department. A copy of the **CECP**'s certification must be included in the Contractor's Protection Plan as outlined in Subsection 907-107.22.1. This in no way modifies the requirements regarding the assignment and availability of the superintendent.

907-105.05.2.1--Responsibilities and Duties of the Certified Erosion Control Person. The **CECP** shall be responsible for the following:

1. Attending pre-construction conferences and each Erosion Control Inspection conducted by the Department.
2. In accordance with the requirements of Subsection 907-107.22.1, ensuring all required documentation, such as, but not limited to, the SWPPP, ECP are:
 - on the project site at all times,
 - updated on a daily basis, and
 - contain all revisions, additions, and modifications.
3. In accordance with Subsection 907-107.22.1, ensuring the "19-acre" rule is being adhered to, if applicable.
4. Ensuring the project has a rain gauge and maintain records of rainfall events on the Contractor's Erosion Control Inspection reports.
5. Ensuring the buffer zones around all stream-banks and wetland areas in which no construction activities are to take place are marked/flagged/roped off prior to any land disturbing activity.
6. Ensuring perimeter erosion/sedimentation control devices (BMPs) are in place prior to any land disturbing activity.
7. Reviewing and verifying the proper installation, maintenance, and effectiveness of the BMPs.
8. Notifying the Project Engineer within 24 hours of learning that sediment has been deposited off Department ROW or into a wetland or waters of the U.S.
9. Notifying the MDEQ within 24 hours of learning that sediment has been deposited into a wetland or waters of the U.S., copying the Project Engineer on the correspondence.
10. Performing the Contractor's Erosion Control Inspections of the project on the form provided for the purpose ensuring compliance with MDEQ's Storm Water Construction General Permit. Contractor Inspections shall be performed:
 - at least weekly, and
 - within 24 hours or on the business day prior to any forecasted rain event of 60% or greater, and
 - within 24 hours or on the next business day after a rainfall event of 0.5" or greater.

The Contractor's Erosion Control Inspections shall commence with the installation of the perimeter BMPs and continue until a Partial Maintenance Release has been issued. Within 24 hours of completing each Contractor Erosion Control Inspection, the **CECP** shall

provide the Project Engineer with a copy of the report documenting the findings of each Contractor Erosion Control Inspection. The CECP will discuss the findings with the Contractor's Superintendent, if the CECP and the superintendent aren't the same person, and the Project Engineer or his representative. Failure to submit the completed and signed inspection forms may result in the withholding of the monthly estimate.

907-105.05.2.2--Deficient Performance of the Certified Erosion Control Person. In the event that the Contractor's CECP is not meeting the requirements set forth above, the Project Engineer will notify the Contractor in writing, describing the CECP's deficient performance. If the deficient performance should continue, the Department may take any or all actions listed below:

1. stop all non-erosion control work,
2. require the Contractor to designate a new CECP with the responsibilities and authority listed in Subsection 907-105.05.2.1,
3. revise the SWPPP and ECP with the newly designated CECP's certification information, and

In the event that a CECP is removed from serving as a CECP on a project, this person shall not be accepted as a Contractor's CECP on MDOT projects for at least one year from the time of removal.

907-105.14--Maintenance During Construction. Before the first sentence Subsection 105.14 on page 39, add the following.

The Contractor will be responsible for the maintenance of existing roadways within the limits of this project starting on the date of the Notice to Proceed / Beginning of Contract Time. Anytime work is performed in a travel lane, the Contractor shall install portable lane closure signs meeting the requirement of the MDOT Standard Drawing or MUTCD.

907-105.16--Acceptance. Delete Subsection 105.16 on pages 40 and 41, and substitute the following.

907-105.16--Acceptance.

907-105.16.1--Partial Acceptance of a Unit. When the Contractor has completed a unit of the work such as an interchange, a structure, a portion of the road or pavement or one project of a multi-project contract, the Contractor may request the Engineer to make a final inspection of that unit; or the Executive Director may order a final inspection of the unit if it is in the public's interest. If the Engineer finds upon inspection that the unit has been completed in compliance with the contract and it is a complete facility which can be made available to the public or made available for the prosecution of work under another contract, the Executive Director may conditionally accept the unit and conditionally relieve the Contractor of certain contractual responsibilities as defined in the release.

In the event items of work covered by such release are found to be defective or deficient as evidenced by unsatisfactory test reports of materials incorporated in the work or other engineering determination, the release shall terminate upon written notification to the Contractor. The Contractor shall make all corrections, restorations, constructions or reconstructions deemed

necessary and shall resume all contractual responsibilities until all corrective measures have been made in accordance with the terms of the contract.

Partial acceptance does not constitute final acceptance of the work, or any part thereof, nor in any way void or alter any of the terms of the contract.

Relief from "certain contractual responsibilities" as indicated herein may, or may not, include:

- (a) Further maintenance of the defined limits of the partially accepted work.
- (b) Further public liability for the defined limits of the partially accepted work.
- (c) Further liability for liquidated damages as applicable to the value of the partially accepted work when the quantities for the partially accepted work are separate quantities listed on the Summary of Quantities sheet of the plans, and the separate quantities and the total amounts thereof are listed on the Engineer's Estimate. Otherwise, no reduction in liquidated damages will be made because of such partial acceptance.

Unless specifically provided in the contract, the liability for liquidated damages shall not be reduced to less than that applicable under the contract for an amount of such work equal to at least fifty percent (50%) of the total amount of work under the contract.

907-105.16.2--Partial Maintenance Release of a Project. Upon written notice from the Contractor of presumptive completion of all the work and upon due notice from the Resident or Project Engineer, the Engineer will make an inspection.

If the inspection discloses any work as being unsatisfactory or incomplete, the Engineer will discuss in detail with the Contractor all discrepancies in the work. Upon correction of the work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed.

However, if during the final inspection the Engineer determines that all work has been satisfactorily completed save that of growth and coverage of plant establishment on all or part of the work, the Engineer may recommend partial release of all work except items related to growth and coverage. Upon such recommendation, the Contractor will be given a partial release of maintenance and shall be released from further contractual liabilities for the completed work. The Contractor will retain responsibility for plant establishment and all maintenance and repairs appurtenant thereto until satisfactory growth and coverage is achieved.

907-105.16.3--Final Maintenance Release of a Project. Upon written notice from the Contractor of presumptive completion of all the work and upon due notice from the Resident or Project Engineer, the Engineer will make an inspection. If all work provided by the contract has been completed to the Engineer's satisfaction, the inspection will constitute the final inspection, and the Engineer will conditionally release the Contractor of maintenance.

As provided in the contract, in the event items of work are found to be deficient or defective as evidenced by unsatisfactory test reports of material incorporated into the work, the Contractor shall assume full responsibility for corrective measures, and shall reassume maintenance and public liability until such corrective measures are completed to the satisfaction of the Engineer.

907-105.16.4.--Final Acceptance of a Project. Upon evidence that the Contractor has fulfilled all obligations under the contract, the Executive Director will make final acceptance and notify the Contractor in writing. Final acceptance of the project will not be given until all obligations imposed under the contract, including but not limited to the final reporting of payrolls, final reporting of DBE payments, acceptable certifications and test reports of materials used, etc., have been fulfilled.

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
EROSION AND SEDIMENT CONTROL FIELD INSPECTION REPORT**

A.

PROJECT #: _____ INSPECTION DATE: _____

COUNTY: _____ DATE OF LAST PRECIPITATION: _____

CONTRACTOR: _____ AMOUNT OF PRECIPITATION SINCE LAST INSPECTION: _____

CECP'S NAME: _____ EROSION CONTROL SUB: _____

ACCOMPANIED BY MDOT STAFF? ☐ YES ☐ NO IF YES, NAME(S): _____

INSPECTION TYPE: ☐ WEEKLY ☐ PRE-RAIN EVENT ☐ POST-RAIN EVENT (required after ½" or more of rain)

B.

	Yes	No	NA
HAVE ALL CORRECTIVE ACTIONS NECESSARY FROM PREVIOUS INSPECTION BEEN SATISFACTORILY TAKEN CARE OF?			
IS THE ECP ON-SITE?			
DOES THE ECP ACCURATELY REFLECT ALL THE CURRENT BMP'S?			
ARE ALL THE INSPECTIONS REPORTS COMPLETE AND ON-SITE?			
ARE THE CONTRACTOR'S OPERATIONS IN SEQUENCE WITH THE APPROVED ECP?			
ARE STOCKPILES PROPERLY MANAGED?			
ARE ROADWAYS CLEAR OF SEDIMENT?			
ARE STABILIZED CONSTRUCTION ENTRANCES IN PLACE PER THE ECP?			
HAVE MDEQ AND THE PE BEEN GIVEN PROPER NOTIFICATION OF ANY "UPSET" CONDITIONS SINCE THE PREVIOUS INSPECTION?			
HAS SEDIMENT BEEN DEPOSITED OUTSIDE THE ROW? IF YES, GIVE DETAILS IN THE COMMENTS SECTION ASSOCIATED WITH THE BMP WHICH FAILED.			
HAS SEDIMENT BEEN DEPOSITED INTO "WATERS OF THE US"? IF YES, GIVE DETAILS IN THE COMMENTS SECTION ASSOCIATED WITH THE BMP WHICH FAILED.			

COMMENTS	

EXCEPT FOR THE INSTANCES LISTED BELOW, ALL EROSION AND SEDIMENT CONTROL BMP's HAVE BEEN INSPECTED AND FOUND TO BE IN WORKING ORDER AND DO NOT REQUIRE MAINTENANCE OR CORRECTIVE ACTIONS.

[illegible]

**** ROW = OFF RIGHT OF WAY, WOS = INTO WATERS OF THE STATE**

I CERTIFY THAT THIS DOCUMENT IS A TRUE AND ACCURATE REPRESENTATION OF THE CONDITIONS REFLECTED ON THIS PROJECT AT THE TIME OF THE INSPECTION.

E. I certify that the findings listed in this report have been discussed with me.

Contractor's Superintendent	Date
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BMP TYPE TABLE			
NUMBER	BMP	NUMBER	BMP
1	Above Ground Storage Tank (AST)	27	Sanitary Facilities
2	Brush Barrier	28	Sediment Retention Barrier
3	Chemical Flocculation (PAM)	29	Silt Bags (Dewatering Bags)
4	Chemical Soil Stabilization (Pam or Polyacrylamide)	30	Silt Fence
5	Chemical Storage	31	Slope Erosion (Rill & Gully)
6	Clearwater Diversion Channel	32	Slope Surface Roughening (Slope Tracking)
7	Concrete Washouts	33	Solid Waste (Trash)
8	Construction Debris	34	Spill Detection
9	--	35	Stabilized Construction Entrance/Exit
10	Detention Pond	36	Stockpile Protection
11	Ditch Liner	37	Straw Bale Checks
12	Ditchline Erosion	38	Stream Bank Erosion
13	Dust Control	39	Super Silt Fence
14	Erosion Control Blanket (ECB)	40	Temporary Earthen Berm
15	Filter Stone Rock Check (Filter Stone Check Dam)	41	Temporary Mulch (Straw Mulch, etc.)
16	Illicit Discharge	42	Temporary Sediment Basin (Silt Basin)
17	Inlet Protection	43	Temporary Sediment Trap
18	--	44	Temporary Stream Crossing
19	Outlet Protection (Energy Dissipater)	45	Temporary Stream Diversion Channel (Box Culverts)
20	Paved Ditching	46	Temporary Vegetation
21	Permanent Sediment Basin	47	Topsoiling
22	Permanent Vegetation	48	Triangular Silt Dike
23	Retention Pond	49	Turbidity Barrier
24	Rip-Rap Armoring	50	Turf Reinforcement Mat (TRM)
25	Rock Bags (Sand Bags)	51	Vegatative Buffer Zone
26	Rock Check (Check Dam)	52	Vegetated Filter Strip (Sod)
		53	Wattles

Instructions:

1. Fill out the form
2. Use the numbers in the BMP TYPE table to identify the applicable BMP in each row of the Table in C.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-107-13

DATE: 11/17/2015

SUBJECT: Permits, Licenses and Taxes

After the second paragraph of Subsection 907-107.02 on page 1, add the following.

Prior to commencing work on any Project, the Contractor shall obtain a Material Purchase Certificate number (MPC#) from the Mississippi Department of Revenue, pursuant to Miss. Code Ann. § 27-65-21, and Miss. Admin. Code 35.IV.10.01. Upon receipt of the MPC#, the Contractor must immediately provide the MPC# to the Contract Administration Division of the Department. Failure to obtain and submit a MPC# prior to commencing work shall result in the withholding of payment to the Contractor until such time that a MPC# is obtained and submitted to the Department.

Delete the last sentence of the last paragraph of Subsection 907-107.02 on page 1, and substitute the following.

The Department will notify the Mississippi Department of Revenue of the names and addresses of any Contractors or Subcontractors.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-107-13

CODE: (IS)

| DATE: 05/01/2013

SUBJECT: Legal Relations and Responsibility to Public

Section 107, Legal Relations and Responsibility to Public, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-107.02--Permits, Licenses and Taxes. Delete in toto Subsection 107.02 on page 49 and substitute the following.

The Contractor or any Subcontractor shall have the duty to determine any and all permits and licenses required and to procure all permits and licenses, pay all charges, fees and taxes and issue all notices necessary and incidental to the due and lawful prosecution of the work. At any time during the life of this contract, the Department may audit the Contractor's or Subcontractor's compliance with the requirements of this section.

The Contractor or any Subcontractor is advised that the "Mississippi Special Fuel Tax Law", Section 27-55-501, et seq. and the Mississippi Use Tax Law, Section 27-67-1, et seq., and their requirements and penalties, apply to any contract or subcontract for construction, reconstruction, maintenance or repairs, for contracts or subcontracts entered into with the State of Mississippi, any political subdivision of the State of Mississippi, or any Department, Agency, Institute of the State of Mississippi or any political subdivision thereof.

The Contractor or any Subcontractor will be subject to one or more audits by the Department during the life of this contract to make certain that all applicable fuel taxes, as outlined in Section 27-55-501, et seq., and any sales and/or use taxes, as outlined in Section 27-67-1, et seq. are being paid in compliance with the law. The Department will notify the Mississippi State Tax Commission of the names and addresses of any Contractors or Subcontractors.

907-107.14--Damage Claims and Insurance.

| **907-107.14.2--Liability Insurance.** Delete Subsection 107.14.2 beginning on page 60 and substitute the following.

907-107.14.2.1--General. The Contractor shall carry Contractor's liability, including subcontractors and contractual, with limits not less than: \$500,000 each occurrence; \$1,000,000 aggregate; automobile liability - \$500,000 combined single limit - each accident; Workers' Compensation and Employers' Liability - Statutory & \$100,000 each accident; \$100,000 each employee; \$500,000 policy limit. Each policy shall be signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent of the Insurance Company.

The Contractor shall have certificates furnished to the Department from the insurance companies providing the required coverage. The certificates shall be on the form furnished by the Department and will show the types and limits of coverage.

907-107.14.2.2--Railroad Protective. The following provisions are applicable to all work performed under a contract on, over or under the rights-of-way of each railroad shown on the plans.

The Contractor shall assume all liability for any and all damages to work, employees, servants, equipment and materials caused by railroad traffic.

Prior to starting any work on railroad property, the Contractor shall furnish satisfactory evidence to the Department that insurance of the forms and amounts set out herein in paragraphs (a) and (b) has been obtained. Also, the Contractor shall furnish similar evidence to the Railroad Company that insurance has been obtained in accordance with the Standard Provisions for General Liability Policies and the Railroad Protective Liability Form as published in the Code of Federal Regulations, 23 CFR 646, Subpart A. Evidence to the Railroad Company shall be in the form of a Certificate of Insurance for coverages required in paragraph (b), and the original policy of the Railroad Protective Liability Insurance for coverage required in paragraph (a).

All insurance herein specified shall be carried until the contract is satisfactorily complete as evidenced by a release of maintenance from the Department.

The Railroad Company shall be given at least 30 days notice prior to cancellation of the Railroad Protective Liability Insurance policy.

For work within the limits set out in Subsection 107.18 and this subsection, the Contractor shall provide insurance for bodily injury liability, property damage liability and physical damage to property with coverages and limits no less than shown in paragraphs (a) and (b). Bodily injury shall mean bodily injury, sickness, or disease, including death at anytime resulting therefrom. Property damage shall mean damages because of physical injury to or destruction of property, including loss of use of any property due to such injury or destruction. Physical damage shall mean direct and accidental loss of or damage to rolling stock and their contents, mechanical construction equipment or motive power equipment.

(a) **Railroad Protective Liability Insurance** shall be purchased on behalf of the Railroad Company with limits of \$2,000,000 each occurrence; \$6,000,000 aggregate applying separately to each annual period for lines without passenger trains. If the line carries passenger train(s), railroad protective liability insurance shall be purchased on behalf of the Railroad Company with limits of \$5,000,000 each occurrence; \$10,000,000 aggregate applying separately to each annual period.

Coverage shall be limited to damage suffered by the railroad on account of occurrences arising out of the work of the Contractor on or about the railroad right-of-way, independent of the railroad's general supervision or control, except as noted in paragraph 4 below.

Coverage shall include:

- (1) death of or bodily injury to passengers of the railroad and employees of the railroad not covered by State workmen's compensation laws,
- (2) personal property owned by or in the care, custody or control of the railroads,
- (3) the Contractor, or any of the Contractor's agents or employees who suffer bodily injury or death as a result of acts of the railroad or its agents, regardless of the negligence of the railroads, and
- (4) negligence of only the following classes of railroad employees:
 - (i) any supervisory employee of the railroad at the job site
 - (ii) any employee of the railroad while operating, attached to, or engaged on, work trains or other railroad equipment at the job site which are assigned exclusively to the Contractor, or
 - (iii) any employee of the railroad not within (i) or (ii) above who is specifically loaned or assigned to the work of the Contractor for prevention of accidents or protection of property, the cost of whose services is borne specifically by the Contractor or Governmental authority.

(b) **Contractor's Liability - Railroad**, including subcontractors, XCU and railroad contractual with limits of \$1,000,000 each occurrence; \$2,000,000 aggregate. **Automobile** with limits of \$1,000,000 combined single limit any one accident; **Workers' Compensation and Employer's Liability** - statutory and \$100,000 each accident; \$100,000 each employee; \$500,000 policy limit. **Excess/Umbrella Liability** \$5,000,000 each occurrence; \$5,000,000 aggregate. All coverage to be issued in the name of the Contractor shall be so written as to furnish protection to the Contractor respecting the Contractor's operations in performing work covered by the contract. Coverage shall include protection from damages arising out of bodily injury or death and damage or destruction of property which may be suffered by persons other than the Contractor's own employees.

In addition, the Contractor shall provide for and on behalf of each subcontractor by means of a separate and individual liability and property damage policy to cover like liability imposed upon the subcontractor as a result of the subcontractor's operations in the same amounts as contained above; or, in the alternative each subcontractor shall provide same.

907-107.15--Third Party Beneficiary Clause. In the first sentence of the first paragraph of Subsection 107.15 on page 61, change "create the public" to "create in the public".

907-107.17--Contractor's Responsibility for Work. Delete the fifth sentence of the fifth paragraph of Subsection 107.17 on page 63 and substitute the following.

The eligible permanent items shall be limited to traffic signal systems, changeable message signs, roadway signs and sign supports, lighting items, guard rail items, delineators, impact

attenuators, median barriers, bridge railing or pavement markings. The eligible temporary items shall be limited to changeable message signs, guard rail items, or median barriers.

907-107.18--Contractor's Responsibility for Utility Property and Services. After the first sentence of Subsection 107.18 on page 63, add the following:

Prior to any excavation on the project, the Contractor shall contact MS 811 and advise them to mark all known utilities in the area of the excavation.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-107-14

DATE: 06/03/2014

SUBJECT: Contractor's Protection Plan

907-107.22.1--Contractor's Erosion Control Plan. Delete the first sentence of the second paragraph of Subsection 907-107.22.1 on page 1, and substitute the following.

The time between the Notice of Award and Notice to Proceed/Beginning of Contract Time in the proposal, has been allowed for the submittal and concurrence of the Contractor's erosion control plan, MDOT's review of the plan, and any revisions that may be necessary.

After the last paragraph of Subsection 907-107.22.1 on page 2, add the following.

As soon as the ECP has been approved, a copy of the SWPPP (Narrative, ECP with updates) shall be available on the project at all times. The Contractor shall provide and install a weatherproof enclosure, such as a mailbox, on the project at a location that will be readily accessible to the Engineer or others who may want to review the project ECP. The cost of installing and maintaining this enclosure shall be included in the prices bid for the various erosion control pay items and no direct payment will be made for this work.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-107-14

CODE: (IS)

DATE: 05/22/2013

SUBJECT: Contractor's Protection Plan

Section 107, Legal Relations and Responsibility to Public, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

Delete in toto Subsection 107.22.1 on pages 65 and 66, and substitute the following.

907-107.22.1--Contractor's Erosion Control Plan. At the preconstruction conference or prior to starting any work on the project, the Contractor shall submit to the Project Engineer for concurrence a comprehensive erosion and siltation control plan. The plan shall utilize temporary measures and permanent erosion control features to provide acceptable controls during all stages of construction. If an early Notice to Proceed is desired, the Contractor's Erosion Control Plan should be submitted to the Engineer as soon as possible after award since an approved erosion control plan is required for an early Notice to Proceed.

Approximately 60 calendar days, the time between the Notice of Award and Notice to Proceed/Beginning of Contract Time in the proposal, has been allowed for the submittal and concurrence of the Contractor's erosion control plan, MDOT's review of the plan, and any revisions that may be necessary. The original contract time shall not be adjusted unless delays are caused solely by the Department for the submission, review, and concurrence of the Contractor's erosion control plan.

As a minimum, the plan shall include the following:

1. Erosion Control Plan (ECP) sheets or the plan profile sheets, 11" x 17" or larger, of all areas within the rights-of-way from the Beginning of the Project (BOP) to the End of the Project (EOP) showing the location of all temporary erosion control devices. Erosion control devices should be identified by exact type, temporary or permanent, configuration, and placement of each item to prevent erosion and siltation. A narrative of the Contractor's temporary erosion control plan shall be submitted in a format similar to the form attached to this special provision, but must include the heading and sub-heading information. As a minimum, the narrative shall include the following:
 - A detailed description, including locations (station numbers) of the Contractor's proposed sequence of operations including, but not limited to, clearing and grubbing, excavation, drainage, and structures.
 - A detailed description, including locations, and best management practices (BMP) that will be used to prevent siltation and erosion from occurring during the Contractor's proposed sequence of operations.

2. A copy of the certification for the Contractor's Certified Erosion Control Person whose primary duty shall be monitoring and maintaining the effectiveness of the erosion control plan, BMPs, and compliance with the NPDES permit requirements.
3. A plan for the disposal of waste materials on the project right-of-way which shall include but not be limited to the following:
 - containment and disposal of materials resulting from the cleaning (washing out) of concrete trucks that are delivering concrete to the project site.
 - containment and disposal of fuel / petroleum materials at staging areas on the project.

The erosion and siltation control plan shall be maintained on the project site at all times, updated as work progresses to show changes due to revisions in the sequences of construction operations, replacement of inadequate BMPs, and the maintenance of BMPs. Work shall not be started until an erosion control plan has been concurred with by the MDOT. The Engineer will have the authority to suspend all work and/or withhold payments for failure of the Contractor to carry out provisions of MDEQ's Storm Water Construction General Permit, the erosion control plan, updates to the erosion control plan, and /or proper maintenance of the BMPs.

907-107.22.2--Clearing and Grubbing, Haul Roads, Waste Areas, Plant Sites or Other Areas Occupied by the Contractor. Delete the fourth paragraph of Subsection 107.22.2 on page 66 and substitute the following.

Unless otherwise determined by the Engineer from a study of overall job conditions, the exposed surface area of erodible material at any one time on this project shall not exceed 19 acres without prior approval by the Engineer.

EXAMPLE
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Storm Water Pollution Prevention Plan (SWPPP)
Narrative

General Permit Coverage No: MSR_____

Project Number: _____

County: _____

Route: _____

SITE INFORMATION

This project consists of grading and installing drainage structures necessary to construct approximately 6 miles of parallel lanes on SR 31 between the Hinds County Line and the Rankin County Line.

SEDIMENT AND EROSION CONTROLS

VEGETATIVE CONTROLS: Clearing and grubbing areas will be minimized to comply with the buffer zones (minimum of 15 feet along the ROW lines and 5 feet along creeks) as per the contract documents. A combination of temporary and permanent grassing will be used to protect slopes as construction progresses. **Should a disturbed area be left undisturbed for 14 days or more, temporary or permanent vegetation will be placed within 7 calendar days.**

STRUCTURAL CONTROLS: Gravel construction entrance/exit will be installed near Stations 145+50, 159+50, 164+50 & 172+50. Riprap ditch checks will be constructed at Stations 144+50, 151+75, 162+00 & 166+25. The Concrete washout area will be at Stations 140+25, 152+00 & 168+50.

HOUSEKEEPING PRACTICES: Structural BPM's will be cleaned out when sediment reaches 1/3 to 1/2 of the height of the BMP. Maintenance and repair of equipment will be performed off-site, material wash out will occur either off-site or within designated wash out areas.

POST-CONSTRUCTION CONTROL MEASURES: As construction is completed, permanent vegetative growth will be established on disturbed soils to improve soil stability and provide a buffer zone for loose material. Paved ditches and flumes will be placed as specified in the ECP to reduce erosion in concentrated flow areas and rip rap will be placed as specified to dissipate flow energy and reduce flow velocity.

IMPLEMENTATION SEQUENCE

Perimeter controls will be installed first. Clearing and grubbing will be performed in 19-acre sections beginning at the BOP and temporary grassing will be installed as needed. Temporary erosion control BMP's will be installed at the drainage structures prior/during construction of the drainage structures. Grading activities will commence at the BOP and proceed towards the EOP, fill slopes will be permanently grassed in stages for fill heights that exceed 5 feet. Base materials will be installed on completed grading sections with the paving to follow.

MAINTENANCE PLAN

All erosion and sediment control practices will be checked for stability and operation following every rainfall but in no case less than once every week. Any needed repairs will be made immediately to maintain all practices as designed. Sediment basins will be cleaned out when the level of sediment reaches 2.0 feet below the top of the riser. Sediment will be removed from behind BMP's when it becomes about 1/3 to 1/2 height of BMP.

Prime Contractor's Signature

Date

Printed Name

Title

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-108-38

CODE: (SP)

DATE: 04/18/2016

SUBJECT: Prosecution and Progress

Section 108, Prosecution and Progress, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-108.01--Subletting of Contract.

907-108.01.1--General. At the end of the last paragraph of Subsection 108.01.1 on page 73, add the following.

The Engineer will have the authority to suspend the work wholly or in part and to withhold payments because of the Contractor's failure to make prompt payment within 15 calendar days as required above, or failure to submit the required OCR-484 Form, Certification of Payments to Subcontractors, which is also designed to comply with prompt payment requirements.

907-108.02--Notice To Proceed. Delete the second paragraph of Subsection 108.02 on page 75 and substitute the following.

The anticipated date of the Notice to Proceed (NTP) / Beginning of Contract Time (BCT) will be specified in the proposal.

Delete the fourth paragraph of Subsection 108.02 on page 75 and substitute the following.

Upon written request from the Contractor and if circumstances permit, the Notice to Proceed may be issued at an earlier date subject to the conditions stated therein. The Contractor shall not be entitled to any monetary damages or extension of contract time for any delay claim or claim of inefficiency occurring between the early issuance Notice To Proceed date and the Notice to Proceed date stated in the contract.

907-108.03--Prosecution and Progress. Delete Subsection 108.03.1 on pages 75 & 76, and substitute the following.

907-108.03.1--Progress Schedule. On working day projects, the Department will furnish the Contractor a progress schedule developed for the determination of contract time which may be used as the contract progress schedule, or the Contractor's own proposed progress schedule may be submitted for approval. If the Contractor elects to furnish a progress schedule for approval by the Engineer, it should be furnished promptly after award of the contract.

On completion date projects which include A + B projects, the Contractor shall furnish a progress schedule and be prepared to discuss both its proposed methodologies for fulfilling the scheduling requirements and its sequence of operations.

On projects using A + C bidding, the Contractor shall furnish a progress schedule and be prepared to discuss both its proposed methodologies for fulfilling the scheduling requirements and its sequence of operations.

The Engineer will review Contractor prepared progress schedules and approve schedules as it relates to compliance with the specifications and logic. The progress schedule must be approved by the Engineer prior to commencing work. The progress schedule shall be a computer generated bar-chart type schedule meeting the below minimum requirements. These activities shall be significantly detailed enough to communicate the Contractor's understanding of the construction sequencing and phasing of the project.

When preparing the progress schedule, the Contractor shall include the following:

- Show a time scale to graphically show the completion of the work within contract time.
- Define and relate activities to the contract pay items.
- Show all activities in the order the work is to be performed including submittals, submittal reviews, fabrication and delivery.
- Show all activities that are controlling factors in the completion of the work.
- Show the time needed to perform each activity and its relationship in time to other activities.

This progress schedule shall provide a bar for each major phase of construction such as, but not limited to, clearing and grubbing, grading, drainage structures, bridges, base, shoulders, paving, etc. with an estimated start working day and completion working day for each bar, all within the specified contract time.

A revised progress schedule may be required within ten days of the occurrence of any one of the following conditions:

- when a major change occurs in the work
- when a time extension is granted
- when the progress schedule becomes unrealistic

The Engineer's approval of the aforementioned Progress Schedules does not waive any contract requirements.

In the event the Contractor has not submitted an approvable progress schedule by the beginning of contract time, the progress schedule prepared by the Department shall be the approved progress schedule and used to assess contract time.

An approved progress schedule shall be in effect until the date on which a revised schedule is approved. The approved progress schedule will be the basis for contract time assessment.

When a Critical Path Method (CPM) schedule is required in the proposal, this schedule will be used in lieu of the bar graph progress schedule in evaluating work progress. In such case, the same time frame noted in this subsection for the original submittal along with the update requirements will apply.

907-108.03.2--Preconstruction Conference. Delete the first paragraph of Subsection 108.03.2 on page 76 and substitute the following.

Prior to commencement of the work, a preconstruction conference shall be held for the purpose of discussing with the Contractor essential matters pertaining to the prosecution and satisfactory completion of the work. The Contractor will be responsible for scheduling the preconstruction conference. The Contractor will advise the Project Engineer in writing 14 days prior to the requested date that a conference is requested. When the contract requires the Contractor to have a certified erosion control person, the Contractor's certified erosion control person shall be at the preconstruction conference. The Department will arrange for utility representatives and other affected parties to be present.

Delete the third paragraph of Subsection 108.03.2 on page 76.

907-108.06--Determination and Extension of Contract Time. Delete Subsections 108.06.1 and 108.06.2 on pages 79 thru 85 and substitute the following.

907-108.06.1--Based on Working Day Completion.

907-108.06.1.1--General. Contract Time will be established on the basis of an allowable number of Working Days, as indicated in the contract. A working day is defined as a day the Contractor worked or could have worked in accordance with the conditions set forth in Subsection 907-108.06.1.2, Subparagraphs (a) and (b), except during the months of December, January, and February.

During the months of December, January, and February, time will be assessed in the miscellaneous phase regardless of whether or not the Contractor actually works. The value for the time on any particular day will be determined by dividing the number of anticipated working day shown in the following table by the number of days in the particular month. This number will be expressed to three decimal places (0.000)

The span of time allowed for the completion of the work included in the contract will be indicated in the contract documents and will be known as "Contract Time".

907-108.06.1.2--Contract Time. The following TABLE OF ANTICIPATED WORKING DAYS indicates an average/anticipated number of working days per month.

TABLE OF ANTICIPATED WORKING DAYS

Month	Working Days
January	6
February	7
March	11
April	15
May	19
June	20
July	21
August	21
September	20
October	16
November	11
December	5
Calendar Year	172

NOTE: The above Table is for informational purposes only. The actual working day total as assessed by the Project Engineer on Form CSD-765 shall govern.

On projects other than A + C projects, available working days will start being assessed at the original Notice to Proceed/Beginning of Contract Time date shown in the contract documents, regardless of whether or not the Contractor has been issued an early Notice to Proceed. On A + C projects, available working days will start being assessed at the original Notice to Proceed/Beginning of Contract Time date shown in the contract documents, or the earlier Notice to Proceed/Beginning of Contract Time date if an early Notice to Proceed is allowed.

Available working days will be based on soil and weather conditions and other specific conditions cited in the contract. The Engineer will determine on each applicable day the extent to which work in progress could have been productive, regardless of whether the Contractor actually worked.

An available working day will be assessed as follows:

(a) any day of the week, Monday through Friday, exclusive of legal holidays recognized by the Department in Subsection 108.04.1, in which the Contractor works or could have worked for more than six (6) consecutive hours on the controlling item(s) of work, as determined by the Engineer from the approved progress schedule. When the Contractor works or could work more than four but less than six consecutive hours, one-half (0.5) of an available work day will be charged for that day. When the Contractor works or could work six or more consecutive hours during the day, one (1.0) available work day will be charged for that day, and

(b) any Saturday, exclusive of legal holidays recognized by the Department in Subsection 108.04.1, in which the Contractor works for more than six (6) consecutive hours on the controlling item(s) of work, as determined by the Engineer from the approved progress schedule.

When the Contractor works less than four consecutive hours during the day, no time will be charged for that day. When the Contractor works more than four but less than six consecutive hours, one-half (0.5) of an available work day will be charged for that day. When the Contractor works six or more consecutive hours during the day, one (1.0) available work day will be charged for that day.

Should the weather or other conditions be such that four (4) consecutive satisfactory hours are not available prior to noon (for daytime operations) or midnight (for nighttime operations), no time will be assessed for that day regardless of the above conditions. However, if the Contractor elects to work, time will be assessed in accordance with the previous paragraph.

Time will not be charged during any required waiting period for placement of permanent pavement markings as set forth in Subsection 618.03 provided all other work is complete except growth and coverage of vegetative items as provided in Subsection 210.01.

Each month the Engineer will complete, and furnish to the Contractor, an "Assessment Report of Working Days" (CSD-765). This report shows the number of working days assessed during the estimate period and the cumulative working days assessed to date. The Contractor should review the Engineer's report as to the accuracy of the assessment and confer with the Resident or Project Engineer to rectify any differences. Each should make a record of the differences, if any, and conclusions reached. In the event mutual agreement cannot be reached, the Contractor will be allowed a maximum of 15 calendar days following the ending date of the monthly report in question to file a protest Notice of Claim in accordance with the provisions of Subsection 105.17. Otherwise, the Engineer's assessment shall be final unless mathematical errors of assessment are subsequently found to exist, and any claim of the Contractor as to such matter shall be waived.

The Contractor's progress will be determined monthly at the time of each progress estimate and will be based on the percentage of money earned by the Contractor compared to the percentage of elapsed time.

The percentage of money earned will be determined by comparing the total money earned to-date by the Contractor, minus any payment for advancement of materials, to the total dollar amount of the contract. The percentage of time elapsed will be determined by comparing the working days assessed to-date on Form CSD-765 to the total allowable working days for the contract.

When the "percent complete" lags more than 20 percent behind the "percentage of elapsed time", the Contractor shall immediately submit a written statement and revised progress schedule indicating any additional equipment, labor, materials, etc. to be assigned to the work to ensure completion within the specified contract time. When the "percent complete" lags more than 40 percent behind the "percentage of elapsed time", the contract may be terminated.

907-108.06.1.3--Extension of Time. The Contractor may, prior to the expiration of the Contract Time, make a written request to the Engineer for an extension of time with a valid justification for the request. The Contractor's plea that insufficient time was specified is not a valid reason for extension of time.

An extension of contract time may be granted for unforeseen utility delays, abnormal delays caused solely by the State or other governmental authorities, or unforeseeable disastrous phenomena of nature of the magnitude of earthquakes, hurricanes, named tropical storms, tornadoes, or flooded essential work areas which are deemed to unavoidably prevent prosecuting the work.

The span of time allowed in the contract as awarded is based on the quantities used for comparison of bids. If satisfactory fulfillment of the contract requires performance of work in greater quantities than those set forth in the proposal, the time allowed for completion shall be increased in Working Days in the same ratio that the cost of such added work, exclusive of the cost of work altered by Supplemental Agreement for which a time adjustment is made for such altered work in the Supplemental Agreement, bears to the total value of the original contract unless it can be established that the extra work was of such character that it required more time than is indicated by the money value.

Any extension of contract time will be on a working day basis.

The Contractor shall provide sufficient materials, equipment and labor to guarantee the completion of the work in the contract in accordance with the plans and specifications within the Contract Time.

If the contract time of the project is extended into a season of the year in which completion of certain items of work would be prohibited or delayed because of seasonal or temperature limitations, the Engineer may waive the limitations provided the completion of the work will not result in a reduction in quality. When determined that the completion of the out-of-season items will cause a reduction in the quality of the work, the completion of the project will be further extended so the items may be completed under favorable weather conditions. In either case, the Engineer will notify the Contractor in writing.

Liquidated damages as set forth in Subsection 907-108.07 under the heading "Daily Charge Per Calendar Day" in the Table titled "Schedule of Deductions for Each Day of Overrun in Contract Time", shall be applicable to each calendar day after the specified completion date, or authorized extension thereof, and until all work under the contract is completed.

907-108.06.1.4--Cessation of Contract Time. When the Engineer by written notice schedules a final inspection, time will be suspended until the final inspection is conducted and for an additional 14 calendar days thereafter. If after the end of the 14-day suspension all necessary items of work have not been completed, time charges will resume. If the specified completion date had not been reached at the time the Contractor called for a final inspection, the calendar day difference between the specified completion date and the date the Contractor called for a final inspection will be added after the 14-day period before starting liquidation damages. If a project is on liquidated damages at the time a final inspection is scheduled, liquidated damages will be suspended until the final inspection is conducted and for seven (7) calendar days thereafter. If after the end of the 7-day suspension all necessary items of work have not been completed, liquidated damages will resume. When final inspection has been made by the Engineer as prescribed in Subsection 105.16 and all items of work have been completed, the daily time charge will cease.

907-108.06.2--Based on Specified Completion Date.

907-108.06.2.1--General. Contract Time will be established on the basis of a Specified Completion Date indicated in the Contract, or as determined by the Contractor in accordance with the contract documents. The span of time allowed for the completion of the work included in the contract will be known as "Contract Time".

For contracts in which a Specified Completion Date is indicated in the Contract, the span of Contract Time shall be between the date of the Beginning of Contract Time and the Specified Completion Date indicated in the Contract.

For contracts in which a Completion Date is determined by the Contractor (A + B Contracts), the span of Contract Time shall be between the date of the Beginning of Contract Time and the date representing the number of Calendar Days determined by the Contractor to complete the work.

The Contractor shall provide sufficient materials, equipment and labor to guarantee the completion of the work in the contract in accordance with the plans and specifications within the Contract Time.

At any given date, the ratio of the accumulated monetary value of that part of the work actually accomplished to the total contract bid amount adjusted to reflect approved increases or decreases shall determine the "percent complete" of the work.

The Contractor's progress will be determined monthly at the time of each progress estimate and will be based on the percentage of money earned by the Contractor compared to the percentage of elapsed time.

The percentage of money earned will be determined by comparing the total money earned to-date by the Contractor, minus any payment for advancement of materials, to the total dollar amount of the contract. The percentage elapsed time shall be calculated as a direct ratio of the expired Calendar Days to the total Calendar Days provided for in the contract.

When the "percent complete" lags more than 20 percent behind the "percentage of elapsed time", the Contractor shall immediately submit a written statement and revised progress schedule indicating any additional equipment, labor, materials, etc. to be assigned to the work to ensure completion within the specified contract time. When the "percent complete" lags more than 40 percent behind the "percentage of elapsed time", the contract may be terminated.

907-108.06.2.2--Extension of Time. The Contractor may, prior to the expiration of the Contract Time, make a written request to the Engineer for an extension of time with a valid justification for the request. The Contractor's plea that insufficient time was specified is not a valid reason for extension of time.

On all completion date contracts, an extension of contract time may be granted for unforeseen utility delays, abnormal delays caused solely by the State or other governmental authorities, or unforeseeable disastrous phenomena of nature of the magnitude of earthquakes, hurricanes, named

tropical storms, tornadoes, or flooded essential work areas which are deemed to unavoidably prevent prosecuting the work.

The span of time allowed in the contract as awarded is based on the quantities used for comparison of bids. If satisfactory fulfillment of the contract requires performance of work in greater quantities than those set forth in the proposal, the time allowed for completion shall be increased in Calendar Days in the same ratio that the cost of such added work, exclusive of the cost of work altered by Supplemental Agreement for which a time adjustment is made for such altered work in the Supplemental Agreement, bears to the total value of the original contract unless it can be established that the extra work was of such character that it required more time than is indicated by the money value.

Any extension of contract time will be based on a calendar day basis, excluding Saturdays, Sundays or legal holidays recognized by the Department in Subsection 108.04.1.

If the contract time of the project is extended into a season of the year in which completion of certain items of work would be prohibited or delayed because of seasonal or temperature limitations, the Engineer may waive the limitations provided the completion of the work will not result in a reduction in quality. When determined that the completion of the out-of-season items will cause a reduction in the quality of the work, the completion of the project will be further extended so the items may be completed under favorable weather conditions. In either case, the Engineer will notify the Contractor in writing.

Liquidated damages as set forth in Subsection 907-108.07 under the heading "Daily Charge Per Calendar Day" in the Table titled "Schedule of Deductions for Each Day of Overrun in Contract Time", shall be applicable to each calendar day after the specified completion date, or authorized extension thereof, and until all work under the contract is completed.

907-108.06.2.3--Cessation of Contract Time. When the Engineer by written notice schedules a final inspection, time will be suspended until the final inspection is conducted and for an additional 14 calendar days thereafter. If after the end of the 14-day suspension all necessary items of work have not been completed, time charges will resume. If the specified completion date had not been reached at the time the Contractor called for a final inspection, the calendar day difference between the specified completion date and the date the Contractor called for a final inspection will be added after the 14-day period before starting liquidation damages. If a project is on liquidated damages at the time a final inspection is scheduled, liquidated damages will be suspended until the final inspection is conducted and for seven (7) calendar days thereafter. If after the end of the 7-day suspension all necessary items of work have not been completed, liquidated damages will resume. When final inspection has been made by the Engineer as prescribed in Subsection 105.16 and all items of work have been completed, the daily time charge will cease.

907-108.07--Failure to Complete the Work on Time. Delete the Schedule of Deductions table in Subsection 108.07 on page 85, and substitute the following.

Schedule of Deductions for Each Day of Overrun in Contract Time

Original Contract Amount		Daily Charge Per Calendar Day
From More Than	To and Including	
\$ 0	100,000	\$ 150
100,000	500,000	360
500,000	1,000,000	540
1,000,000	5,000,000	830
5,000,000	10,000,000	1,200
10,000,000	20,000,000	1,800
20,000,000	-----	3,500

907-108.10--Termination of Contractor's Responsibility. In the last sentence of Subsection 108.10 on page 88, change “bond” to “performance and payment bond(s)”.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-109-8

CODE: (SP)

| DATE: 09/10/2015

SUBJECT: Measurement and Payment

Section 109, Measurement and Payment, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-109.01--Measurement of Quantities. Delete the third full paragraph of Subsection 109.01 on page 90 and substitute the following.

When requested by the Contractor, material specified to be measured by the cubic yard or ton may be converted to the other measure as appropriate. Factors for this conversion will be determined by the District Materials Engineer and agreed to by the Contractor. The conversion of the materials along with the conversion factor will be incorporated into the contract by supplemental agreement. The supplemental agreement must be executed before such method of measurement is used.

After the second sentence of the fourth full paragraph of Subsection 109.01 on page 90, add the following.

Where loose vehicle measurement (LVM) is used, the capacity will be computed to the nearest one-tenth cubic yard and paid to the whole cubic yard. Measurements greater than or equal to nine-tenths of a cubic yard will be rounded to the next highest number. Measurements less than nine-tenths of a cubic yard will not be rounded to the next highest number. Example: A vehicle measurement of 9.9 cubic yards will be classified as a 10-cubic yard vehicle. A vehicle measurement of 9.8 cubic yards will be classified as a 9-cubic yard vehicle.

907-109.04--Extra and Force Account Work. Delete the first paragraph under Subsection 109.04 on page 91, and substitute the following.

When extra work results for any reason and is not handled as prescribed elsewhere herein, the Engineer and the Contractor will attempt to agree on equitable prices. When such prices are agreed upon, a Supplemental Agreement will be issued by the Engineer.

When the Supplemental Agreement process is initiated, the Contractor will be required to submit to the Engineer a detailed breakdown for Material, Labor, Equipment, Profit and Overhead. The total allowable markup (which includes Prime Contractor and Subcontractor work, if applicable) for Supplemental Agreement work shall not exceed 20%, which also includes tax and bond.

The requirement for detailed cost breakdowns may be waived when a Department's Bid Item History exists for the proposed item(s), and the Contractor's requested price, including mark-up, is within 20% of the Department's Bid History cost for that item(s). In any case, the Department reserves the right to request detailed cost breakdowns from the Contractor on any Supplemental Agreement request.

When equitable prices cannot be agreed upon mutually by the Engineer and the Contractor, the Engineer will issue a written order that work will be completed on a force account basis to be compensated in the following manner:

In the last sentence of subparagraph (b) in Subsection 109.04 on page 91, change "bond" to "bond(s)".

Delete the first and second paragraphs of subparagraph (d) in Subsection 109.04 on page 92 and substitute the following.

Equipment. For any machinery or special equipment, other than small tools, authorized by the Engineer, the Contractor will use the rates shown in the book entitled "Rental Rate Blue Book For Construction Equipment" as published by EquipmentWatch® and is current at the time the force account work is authorized, unless otherwise allowed by the Engineer. This book shall be used to determine equipment ownership and operating expense rates. These rates do not include allowances for operating labor, mobilization or demobilization costs, overhead or profit, and do not represent rental charges for those in the business of renting equipment. Operating labor and overhead cost will be allowed. Subject to advance approval of the Engineer, actual transportation cost for a distance of not more than 200 miles will be reimbursed for equipment not already on the project. The cost of transportation after completion of the force account work will be reimbursed except it cannot exceed the allowance for moving the equipment to the work.

907-109.06--Partial Payment.

907-109.06.1--General. Delete the fourth and fifth sentences of the third paragraph of Subsection 109.06.1 on page 94, and substitute the following.

In the event mutual agreement cannot be reached, the Contractor will be allowed a maximum of 25 calendar days following the Contractor's receipt of the monthly estimate in question to file in writing, a protest Notice of Claim in accordance with the provisions Subsection 105.17. Otherwise, the Engineer's estimated quantities shall be considered acceptable pending any changes made during the checking of final quantities.

907-109.06.2--Advancement on Materials. Delete Subsection 109.06.2 on pages 94 & 95, and substitute the following.

907-109.06.2--Advancement on Materials. Partial payments may include advance payment for certain nonperishable or durable materials such as base aggregates, reinforcing steel, bridge piling, structural steel, prefabricated bridge components, traffic signal equipment, electrical equipment, fencing materials, and sign materials with approval of the Engineer. Advance payment may be requested for structural steel members provided fabrication has been completed and the members have been declared satisfactory for storage by a Department representative. The Contractor must make a written request to the Project Engineer for advanced payment and furnish written consent of the Surety. To qualify for advance payment, materials must be stored or stockpiled on or near the project or at other locations approved by the Engineer; or in the case of precast concrete members, treated timber, guard posts and other approved preprocessed durable and bulky materials, the materials may be stored at the commercial producer's yard provided it is located in Mississippi; or in the case of prestressed concrete members that may

require being produced at an out-of-state location, the prestress members shall be produced and may be stored at the commercial manufacturer's yard provided it is a PCI certified plant on the Department's List of Approved Prestress & Precast Plants and it is located within the continental United States; or in the case of structural steel members that may require fabrication at an out-of-state location, the fabricated members may be stored at the location of the commercial fabricator's yard provided it is located within the continental United States.

Advancements will not be allowed until the Project Engineer has received copies of material invoices and certified test reports or acceptable certificates of conformance, and in the case of materials stored at the commercial producer's/fabricator's yard, the material shall be positively identified for the specific project and a Certificate of Storage issued by the Department or a designated representative of the Department. Requests for advancements on fabricated structural steel members and prestress concrete members stored out-of-state will be denied when the Department does not have available a designated representative to issue a Certificate of Storage.

The Contractor shall make suitable arrangements to the satisfaction of the Engineer for storage and protection at approved sites or, in the case of materials stored at the commercial producer's yard located in Mississippi or, in the case of fabricated structural steel members stored at the commercial fabricator's yard or prestress concrete members stored at a commercial manufacturer's yard located within the continental United States, the Contractor shall make arrangements with the producer/fabricator for suitable storage and protection. If advanced payment is allowed and the materials are damaged, lost, destroyed or for any reason become unacceptable, the previous payments will be deducted from subsequent estimates until the materials are replaced or restored to an acceptable condition. In all cases, the Contractor shall save harmless the Commission in the event of loss or damage, regardless of cause.

An invoice or an accumulation of invoices for each eligible material must total \$10,000 or more before consideration will be given for making advanced payment. When allowed, advance payment will be based on verified actual material cost plus transportation charges to the point of storage. Sales tax, local haul and handling costs shall not be included as material cost.

Advanced payment shall not exceed 100% of the invoice price or 75% of the total contract bid price for the pay item, whichever is less.

Advanced payment for a component of a pay item shall not exceed 95% of the invoice price or 75% of the total contract bid price for the pay item of which the material is a part, whichever is less.

Advanced payment will be made only on materials that will be incorporated permanently in the project.

No advanced payment will be made on minor material items, hardware, etc.

No advanced payment will be made for materials when it is anticipated that those materials will be incorporated into the project within 60 calendar days.

Advanced payment will be paid for those materials which are not readily available, and which can be easily identified and secured for a specific project and for which lengthy stockpiling periods would not be detrimental.

Where a storage area is used for more than one project, material for each project shall be segregated from material for other projects, identified, and secured. Adequate access for auditing shall be provided. All units shall be stored in a manner so that they are clearly visible for counting and/or inspection of the individual units.

Unless specifically provided for in the contract, advance payment will not be made on materials, except for fabricated structural steel members or prestress concrete members, stored or stockpiled outside of the State of Mississippi.

Materials for which an advanced payment has been allowed must be paid for by the Contractor within 60 days of the estimate on which the advanced payment was first allowed and proof of said payment must be verified by the supplier. If proof of payment is not furnished within the allowable 60 days, the advanced payment will be deducted on subsequent current estimates until such time proof of payment is furnished.

As the materials are incorporated into the work, proportionate reductions for advance payments shall be made from monthly estimates covering the work performed. Calculation of percentage of completion, or rate of progress, shall be based on completed work and no consideration will be given to stockpiled materials.

907-109.07--Changes in Material Costs. Delete the third full paragraph of Subsection 109.07 on page 96 and substitute the following.

A link to the established base prices for bituminous products and fuels will be included in the contract documents under a Notice to Bidders entitled "Petroleum Products Base Prices."

Delete the last paragraph of Subsection 109.07 on pages 97 & 98, and substitute the following.

Adjustments herein provided shall not apply to fuels consumed or materials incorporated into the work during any monthly estimate period falling wholly after the expiration of contract time as defined in Subsection 101.02 of the applicable Mississippi Standard Specifications for Road and Bridge Construction, and as determined by checked final quantities.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-110-2

CODE: (SP)

| DATE: 04/02/2010

SUBJECT: Wage Rates

Section 110, Required Contract Provisions, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-110.02--Application. Delete Subsection 110.02.2 on page 100 and substitute the following.

907-110.02.2--Wage Rates. All persons employed or working upon the site of the work will be paid at wage rates not less than those contained in the wage determination decision of the Secretary of Labor in effect 10 days prior to taking bids.

| Bidders are advised that regardless of the wage rates listed in the Supplement to FHWA 1273 in the contract, minimum federal wage rates must be paid.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-216-1

CODE: (IS)

DATE: 05/22/2013

SUBJECT: Solid Sodding

Section 216, Solid Sodding, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-216.04--Method of Measurement. Delete the third and fourth paragraphs of Subsection 216.04 on page 144.

907-216.05--Basis of Payment. Delete the first paragraph of Subsection 216.05 on pages 144 and 145, and substitute the following.

Solid sodding will be paid for at the contract unit price per square yard, which price shall be full compensation for all labor, equipment, materials, tools, ground preparation, fertilization, and all incidentals necessary to complete the work.

Add the "907" prefix to the pay items listed on page 145.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-230-11

CODE: (SP)

| DATE: 11/24/2014

SUBJECT: Tree and Shrub Planting

Section 230, Tree and Shrub Planting, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-230.2--Materials. Delete Subsection 230.02.14 on page 165 and substitute the following:

907-230.02.14--Mulch. Tree Bark Mulch shall meet the requirements of Subsection 907-233.02.

907-230.02.15--Bed Edging. Bed edging shall be steel edging, 3/16-inch by 4-inch in size, green in color with steel stakes, manufactured by Ryerson, an Inland Steel Company, St. Louis, Mo., or an approved equal.

907-230.03--Construction Requirements.

907-230.03.7--Planting, Backfilling, and Watering. After the first paragraph of Subsection 230.03.7 on page 166, add the following:

Plant pits are plant bed areas which are bound all around by bed edging and/or paving, or as noted on the drawings. Bed preparation shall be required within plant pits, which shall consist of stripping the proposed bed area of existing grass or plant material, unless designated to remain; removal and disposal of existing soil in order that finished grade of bed, not including surface mulch, is no higher than surrounding grades/pavement edges unless noted otherwise on the drawings; spreading a 4-inch layer of Tree Bark Mulch, Type III throughout the area, and tilling in the Tree Bark Mulch, Type III to a depth of six inches uniformly throughout the area; and excavating plant holes in accordance with this special provision. The entire bed area shall receive Tree Bark Mulch, Type V as a surface mulch.

Within plant pits, additional Tree Bark Mulch, Type III for each tree, shrub and groundcover plant hole is not necessary beyond the uniform layer of application tilled into the soil as noted on the vegetation schedule. Within each tree and shrub plant hole within a plant pit, backfill with a 50/50 mix of existing soil amended with Type III mulch and topsoil. Groundcover plant holes do not require any other backfill material other than the amended existing soil with Type III mulch incorporated.

Backfill for tree and shrub plant holes outside of plant pits shall be a 50/50 mix of existing soil and topsoil, after applying the 4-inch layer of Tree Bark Mulch, Type III.

907-230.04--Method of Measurement. After the sixth paragraph of Subsection 230.04 on page 169, add the following:

Bed edging, complete in place and accepted, will be measured per linear foot. Excavation, backfilling, and miscellaneous fittings will not be measured for separate payment.

Bed preparation within plant pits, complete in place and accepted, will be measured per square foot. Stripping of existing vegetation, excavation of existing soil, and weeding will not be measured for separate payment.

Tree Bark Mulch will be measured for payment in accordance with Subsection 233.04.

Delete the last five paragraphs of Subsection 230.04 on pages 169 & 170 regarding the sequence for measurement of payment and substitute the following:

Measurement for payment will be made in the following sequence:

When plants have been planted and are in a healthy condition in accordance with the contract, seventy-five percent (75%) of the bid price for that species of plant material meeting the requirements of the contract will be allowed.

When the inspection of plants at the end of the growing season has been conducted and the replacement of any dead or unsatisfactory plant material has been made, ninety percent (90%) of the bid price for that species of plant material meeting the requirements of the contract will be allowed.

When the final inspection of the project has been conducted and the replacement of any dead or unsatisfactory plant material has been made, and upon final release of maintenance, one-hundred percent (100%) of the bid price will be allowed for plant material meeting the requirements of the contract.

The Plant Establishment Period shall begin upon the date that the Engineer determines plant material installation has been acceptably completed, including staking/guying and mulching, and continues through the dates noted below:

PLANT ESTABLISHMENT PERIOD

Date of Installation Completion, From and Including	Establishment Period Beyond Installation Completion, (Growing Season) To and Including
August 2 nd - November 1 st	240 calendar days
November 2 nd - January 1 st	180 calendar days
January 2 nd - May 1 st	120 calendar days
May 2 nd - August 1 st	90 calendar days

Where feasible in the opinion of the Engineer, the Contractor may install plant material well in advance of project completion, in order that the Plant Establishment Period may run concurrent

with the Contract Time. However, no matter what date the Plant Establishment Period concluded, the Contractor will be required to maintain healthy plants until final inspection of the entire project.

No contract time or liquidated damages will be charged during the plant establishment period if, and only if, all items of work on the project have been completed.

907-230.05--Basis of Payment. After the first paragraph of Subsection 230.05 on page 170, add the following:

Accepted quantities for bed edging and bed preparation will be paid for at the contract unit price per linear foot and square foot, respectively. Prices paid shall be full compensation for completing the work.

Delete the pay items list at the end of Subsection 230.05 on page 170, and substitute the following.

907-230-A: Shrub Planting, Description - per each

907-230-B: Tree Planting, Description - per each

907-230-C: Bed Edging - per linear foot

907-230-D: Bed Preparation - per square foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-233-1

CODE: (SP)

DATE: 02/01/2005

SUBJECT: Tree Bark Mulch

Section 233, Mulch for Woody Plant Material, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-233.02--Materials. After the first paragraph of Subsection 233.02 on page 176, add the following:

Tree Bark Mulch, Type III used for plant pits (multiple plants in one bed area) and plant holes outside of plant pit areas shall meet the requirements of Subsection 715.07. Tree Bark Mulch, Type V used for the surface mulching plant holes and plant pits shall be shredded cedar, cypress, pine, or hardwood bark strip (pole peelings), commercial type, with no pieces larger than 1½ inches across the surface. Once or twice hammered material is not acceptable for Tree Bark Mulch, Type V. The Contractor shall submit samples of all mulches to the Engineer and receive approval prior to delivery to site.

907-233.04--Method of Measurement. After the first paragraph of Subsection 233.04 on page 176, add the following:

Tree Bark Mulch, Type III, complete in place and accepted, will be measured per cubic yard for tree plant holes and for shrub plant holes outside of plant pit areas.

Tree Bark Mulch, Type V, complete in place and accepted, will be measured per cubic yard for tree and shrub plant holes outside of plant pit areas requiring bed preparation; and in unplanted areas where the mulch is utilized as a surface treatment. Tree Bark Mulch, Type V within plant pit areas will not be measured for payment.

907-233.05--Basis of Payment. After the first paragraph of Subsection 233.04 on page 176, add the following:

Accepted quantities for Tree Bark Mulch, Type V used as a surface mulch for tree and shrub plant holes not within plant pit areas, and in unplanted areas as a surface treatment will be paid for at the contract unit price per cubic yard. Prices paid shall be full compensation for completing the work.

Delete the first pay item listed on page 176, and substitute the following:

907-233-A: Tree Bark Mulch, Type - per cubic yard

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-237-4

CODE: (SP)

| DATE: 03/13/2012

SUBJECT: Wattles

Section 907-237, Wattles, is hereby added to and made a part of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-237 - WATTLES

907-237.01--Description. This work consists of furnishing, constructing and maintaining wattles for the retention of soil around inlets, swale areas, small ditches, sediment basins and other areas as necessary. Also, the work includes removing and disposing of the wattles and silt accumulations.

Measurement and payment for wattles will be made only when a pay item is included in the bid schedule of the proposal. The quantity is estimated for bidding purposes only and will be dependent upon actual conditions which occur during construction of the project.

| **907-237.02--Materials.** Wattles used around inlets shall have a diameter of twelve inches (12") and a length adequate to meet field conditions. Wattles used at other locations shall have a diameter of twenty inches (20") and a length adequate to meet field conditions. The minimum diameter for the above wattle sizes shall be one inch (1") less than the specified diameter.

The stakes used in securing the wattles in place shall be placed approximately three feet (3') apart throughout the length of the wattle. Stakes shall be wooden and of adequate size to stabilize the wattles to the satisfaction of the Engineer.

In addition to the requirements of this specifications, wattles shall be listed on the Department's "Approved Sources of Materials".

907-237.03--Construction Requirements.

907-237.03.1--General. The wattles shall be constructed at the locations and according to the requirements shown on the erosion control plan.

907-237.03.2--Maintenance and Removal. The Contractor shall maintain the wattles and remove and dispose of silt accumulations.

When the wattles are no longer needed, they shall be removed and the Contractor shall dispose of silt accumulations and treat the disturbed areas in accordance with the contract requirements.

907-237.04--Method of Measurement. Wattles of the size specified will be measured per linear foot.

907-237.05--Basis of Payment. Wattles, measured as prescribed above, will be paid for at the contract unit price per linear foot, which price shall be full compensation for installation, maintaining and removal of the wattles, the removal and disposal of silt accumulations and any required restoration of the disturbed areas.

Payment will be made under:

907-237-A: Wattles, Size

- per linear foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-246-3

CODE: (SP)

DATE: 11/08/2010

SUBJECT: Sandbags and Rockbags

Section 907-246, Sandbags and Rockbags, is hereby added to and made a part of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-246 -- SANDBAGS AND ROCKBAGS

907-246.01--Description. This item of work shall consist of the furnishing, installing, and maintaining sandbags and rockbags for the purpose of temporary erosion control by intercepting and slowing the flow of sediment-laden runoff water, or for use as a temporary dam.

907-246.02--Materials. The filler material for sandbags shall consist of a fine aggregate meeting the requirements of Subsection 703.02. The filler material for rockbags shall consist of a size 57 aggregate meeting the requirements of Subsection 703.03.

The bag material shall be woven polypropylene, polyethylene or polyamide fabric with a minimum unit weight of four (4) ounces per square yard. The bags shall be a minimum of 21 inches in length, 12 inches in width, and four (4) in thickness when filled.

907-246.03--Construction Requirements. Sandbags and rockbags shall be used to construct a berm/dam which will intercept sediment-laden storm water runoff from disturbed areas, create a retention pond, detain sediment, and release water in sheet flow. Sand or rock shall be placed in the bag so that at least the top six (6) inches of the bag is unfilled to allow for proper tying of the open end. Any subsequent rows of bags shall be offset one-half the length of the preceding row to provide a layered brick-type arrangement.

The sandbag and rockbag berm/dam installation shall be maintained in good condition by the Contractor. All necessary work and materials to maintain the integrity of the installation shall be provided until earthwork construction is complete and permanent erosion-control features are in place. The maintenance of the bags will not be paid for separately and will be included in the cost for sandbags or rockbags.

907-246.04--Method of Measurement. Sandbags and rockbags will be measured per linear foot or each.

Sandbags and rockbags measured by the linear foot shall be in accordance with the details in the erosion control drawing. The length of the sandbag or rockbag berm/dam will be measured end-to-end along the cross-section of the ditch in accordance with the erosion control drawing.

907-246.05--Basic of Payment. Sandbags and rockbags, measured as prescribed above, will be

paid for per linear foot or each, which prices shall be full compensation for furnishing bags, fine aggregate, size 57 aggregate, placement of bags, maintenance of the installation, removal and disposal of the sediment deposits and removal after construction has been completed, and for all labor, tools, equipment and incidentals necessary to complete the work.

Payment will be made under:

907-246-A: Sandbags - per linear foot or each

907-246-B: Rockbags - per linear foot or each

CITY OF HATTIESBURG

SPECIAL PROVISION NO. 907-265-1LPA

CODE: (SP)

DATE: 12/01/08

SECTION 265 - WATER MAINS AND APPURTENANCES

265.01 - Description. The work covered by this section consists of furnishing all labor, equipment and materials and performing all operations in connection with the installation of potable water lines, as indicated on the drawings and as specified herein. The work includes clearing, grubbing, trenching, bedding, pipe laying, backfilling, pipe fittings, valves, hydrants, and all incidental items including testing and disinfection of the completed water lines, which are necessary for installation of the mains and connections to hydrants and existing mains and meters.

265.02 - Materials.

265.02.1 – Bedding/Backfill Material. Class 6, Group C Granular Material for bedding shall be in accordance with Section 703.07 of the *Mississippi Standard Specifications for Road and Bridge Construction, 2004 Edition*. Class 9, Group C Granular Material for select backfill shall be in accordance with Section 703.07 of the *Mississippi Standard Specifications for Road and Bridge Construction, 2004 Edition*.

265.02.2 - Concrete. Concrete shall be MDOT Standard Class B concrete.

265.02.3 - Polyvinyl Chloride (PVC) Pipe. PVC water lines shall be "Blue Brute" (blue in color), or equal, Class 150, DR 18 polyvinyl chloride pipe manufactured in accordance with AWWA C-900 (latest edition) and shall be U.L. listed. Pipe shall be furnished in standard lengths (minimum 20 feet) with integrally cast bells or couplings using elastomeric gaskets that meet the requirements of ASTM D 1869 and F-477. All necessary adapters for connection to fittings shall be provided.

265.02.4 - Ductile Iron Pipe. Ductile iron pipe shall be designed in accordance with AWWA Specification C150 and manufactured in accordance with AWWA Specification C151. Joints shall conform with AWWA Specification C111 or C115 as applicable and shall be of the push on or mechanical type except where flanged joints are indicated on the plans. Where designated on the plans, pipe joints shall be restrained with mechanical restraint devices. Pipe interior shall be cement mortar lined per ANSI A21.4 (AWWA C104). Ductile iron pipe 4" and less in diameter shall be of thickness Class 51. Ductile iron pipe 6" and greater in diameter shall be of thickness Class 50, except pipe with threaded flanges shall be Class 53.

265.02.5 - Fire Hydrants. Hydrants shall be three-way M & H Model 129, Mueller Super Centurion 250, or American Flow Control B-84-B-5, with four and one-half inch (4 1/2") valve opening. The length of the lower barrel on each hydrant shall be appropriate for the depth of the water main. The color shall be chosen by the City conforming to the requirements of AWWA C-502.

265.02.6 - Water Valves. Water valves shall be "resilient seat" or "resilient wedge" type gate valves complying with the requirements of AWWA C509 or AWWA C515. Valves shall be epoxy coated inside and outside in conformance with the requirements of AWWA C550. Valves shall be rated for zero leakage to 200 psi and 400 psi hydrostatic test pressure. Valves shall be furnished with a non-rising stem and shall open by turning a 2 inch square operating nut counterclockwise. Gates shall be encapsulated in rubber where exposed to line velocity and shall be field replaceable. Valve ends shall be flanged or mechanical joint, as appropriate for the connection. Mechanical joints shall be recommended by the manufacturer for use with AWWA C-900 PVC or ductile iron pipe and shall be furnished with MJ retainer glands.

Insertion valves shall be installed in the location determined by the Engineer. Insertion valves shall be opened in the open position under pressure and flow conditions without interruption of water service. Final assembly shall provide for the complete shutoff of the flow of water. Sleeve shall be capable of installation on cast iron, ductile iron, asbestos cement and C900 PVC pipe. Sleeve shall be fabricated in two pieces and shall provide a 360 degree seal around the pipe under all working pressures of the system.

265.02.7 - Valve Boxes. Valve boxes shall be of cast or ductile iron as manufactured by Mueller, Kennedy, M & H or equal. Covers shall be cast or ductile iron with a designation of "WATER" embossed on the topside and shall be of the screw down type. Valve boxes shall be the three-piece type, adjustable in length and suitable for installation in roadway surfaces. Stack pipe for valve box adjustment shall be class 150 DR 18 manufactured in accordance with AWWA C-900 PVC or ductile iron pipe. Adjustment risers shall be cast iron and approved prior to use by the Engineer or his authorized representative.

265.02.8 - Fittings. Fittings for water mains of four inch (4") diameter and larger shall be seal coated cast iron or ductile iron with flanged or mechanical joint ends, as appropriate for each connection. All fittings shall be cement mortar lined per ANSI A21.4 (AWWA C104). Mechanical joints shall be recommended by the manufacturer for use with AWWA C-900 PVC or ductile iron pipe and shall be furnished with MJ retainer glands. Fittings shall be manufactured in accordance with AWWA C110. Fittings for use with ductile iron pipe may be of the push-on type. Fittings for connections between new main and existing mains and pipes shall be specifically designed for interconnection of the lines being joined and will be subject to the approval of the City's Engineer or his authorized representative.

265.02.9 – Water Service Tubing. Water service tubing shall be polyethylene "PE" tubing having copper tube O.D. sizes and complying with ASTM D2737, NSF approved, dimensions to fit standard CTS fittings, SDR 9, 200 psi.

265.02.10 – Water Service Appurtenances. Corporation stops, curb stops, wye fittings, and other required service fittings shall conform to AWWA C800. All connections to service tubing shall be by approved compression type fitting, with stainless steel tubing inserts as recommended by the fitting manufacturer.

Curb valves shall employ a one-piece integral plug with full-opening port and tee head, turning on a plastic thrust washer at the top and sealed by an "O"-ring. Typically, curb valves shall have a CTS x FIP connection for non-metered services. For any existing, metered connection, Contractor shall supply a curb valve having the appropriate fitting to reconnect to the existing meter. Existing meters shall be kept in service until after short/long service connection is complete. See plans for typical installation of water services. The valve body shall be a one-piece brass casting with closed bottom. The inlet and/or outlet port shall be sealed by a second "O"-ring. The design shall include a locking ring designed to permit locking the valve in the closed position, using a standard padlock.

Service saddles are required for all service line connections and shall be ductile iron or brass with double stainless steel bands. Saddles shall be specifically recommended for use with the type of pipe being connected to.

265.02.11 – Water Meter Boxes. Service valve boxes shall be plastic structural foam boxes with plastic lid with hinged reader lid. Box shall measure not less than 10" x 16" (at the top) by 12" deep. Where meters boxes must be located in paved areas (concrete or asphalt), provide cast iron meter boxes similar to Vulcan model V-8402.

265.02.12 – Water Meters. Existing water meter to be relocated unless damaged. Water meters that need replacing to be provided by the City of Hattiesburg.

265.02.13 – Filter Fabric. Geotextile fabric shall be non-woven, needle punched, and weigh a minimum of four ounces (4 oz.) per square yard.

265.02.14 – Mechanical Joint Retainer Glands. MJ retainer glands shall be used for all connections of pipe to fittings, valves, or fire hydrants, and shall be made with a suitable restrained joint system, meeting any one of the following specifications:

1. For Ductile or PVC Pipe, a suitable ductile iron retainer gland, designed and recommended by the gland manufacturer, for the type of pipe used. Gland shall be manufactured entirely of 60-42-10 ductile iron conforming to ASTM A536-80. Glands shall attach to the pipe barrel through a plurality of individually activated gripping surfaces (wedges).
2. For PVC Pipe, a heavy ductile iron or fused epoxy coated structural steel (ASTM A36) clamp which employs serrations on its inside surface to firmly grip the outside of the PVC pipe barrel. Clamp shall be specifically designed and recommended for use with the size and thickness class of pipe used. All hardware shall be ductile iron.
3. For Ductile Pipe only, a ductile iron mechanical joint retainer gland employing cupped-end threaded set screws which conform with the pipe manufacturer's guidelines as to number of set screws and torque to be applied to properly restrain the joint to a rating of not less than 250 p.s.i.

265.02.15 – Pipe Joint Restraints. Pipe Joint Restraints shall be installed where applicable as designated on the Drawings, in all pipe encasements, and for pipe joints within specified distances from fittings per the schedule in Drawings. Use two glands similar in design and materials to the joint retainer glands previously specified, one immediately behind the joint bell and one on the pipe spigot, connected by two or more ductile iron rods spanning across the pipe joint. For ductile iron pipe, it is also permissible to use mechanical joint pipe with restrained retainer gland, or special "lock-ring" pipe joints.

265.02.16 – Locator Wire & Utility Marker Tape. Locator wire for attachment to all non-detectable pipe materials shall be a No. 12 coated solid copper wire.

Underground utility marker tape for burial with all types of pipe shall be a minimum of 5 mils thick and 3 inches in width. Minimum tensile strength shall be 35 pounds and tape shall elongate not less than 80 percent before breaking. Tape shall be permanently imprinted with an appropriate legend to identify the contents of the pipe (e.g. "Water Main Below").

265.02.17 – Tapping Sleeves & Valves. Tapping sleeves shall be fabricated from heavy Type 304 stainless steel, with a full circumferential seal to the run pipe provided by a rubber gasket resistant to water, salt solutions, mild acids, gases, and sewage. Multiple stainless steel bolts shall ensure uniform sealing. Outlet flange shall conform with ANSI 150 pound drilling, recessed for tapping valve per MSS-SP 60. A 3/4 inch NPT test plug shall be provided. O.D. range of body must match the actual measured O.D. of the pipe being tapped.

Tapping valves shall conform with the requirements for Gate Valves and Valve Boxes on Water Mains, except that the inlet shall be Class 125 Flange and the outlet, Mechanical Joint. The valve opening shall be oversized to permit a cutter head to pass which is 1/2" smaller than the nominal branch pipe size. Valves shall be furnished complete with cast iron sectional valve box, as is specified under "Gate Valves & Valve Boxes" in these Specifications. A retainer gland as is specified under "Water Pipe & Fittings" is required for the connection of the new pipe to the tapping valve.

265.02.18 – Line Stopping. Line stopping shall include all components of the type and size required to plug the existing water main to be tapped. This will be done to facilitate the tap without losing pressure along the existing water main that is to remain in place.

The line stop fitting shall be split mechanical bolt-on type, fabricated from ASTM A-36 carbon steel, epoxy coated with 18-8 type 304 stainless steel nuts, bolts, and washers, and be complete with equalization fittings, blind flange with gaskets, nuts and bolts. Flanges are AWWA 207 Class D, ANSI 150# drilling. Gaskets are compounded for use with water, salt solutions, and mild acids.

265.03 - Construction Requirements.

265.03.1 – Excavation – General. Excavation shall include the clearing of the site of the work, the loosening, loading, removing, transporting and disposing of all pavements, obstructions, and any other materials, wet or dry, above or below ground necessary to be removed to construct all pipes included in this contract to the lines, grades and locations shown on the Drawings. No burying or burning of trees, stumps, roots, or other debris will be allowed.

It is intended that areas designated as “Easement” be cleared only as necessary to allow construction of the facilities. Any trees or shrubs designated on the plans or directed by the Engineer to remain shall be protected from damage.

Low hanging and unsound or unsightly branches on trees or shrubs designated to remain shall be removed as directed. All trimming shall be done by skilled workman and in accordance with good tree surgery practices. An approved asphaltum base paint prepared specifically for tree surgery shall be furnished and applied by Contractor to cut or scarred surfaces on trees or shrubs selected to remain.

Where required, the Contractor shall remove with care all shrubbery, plants, flower planters, flower bed borders, set aside, watered, and kept alive and reset as before construction work. The Contractor shall furnish and install replacement plants which die as a result of construction operations.

In areas where water main will be installed in close proximity to trees designated to remain or any Live Oak trees, the major root systems and the limbs of the trees shall be protected from damage. Where necessary, contractor shall install water main by tunneling or boring underneath the tree roots, with no additional compensation for materials, labor, or otherwise. If, in the opinion of the Engineer, any damage to the tree does occur, Contractor shall, at his own expense, obtain the services of a certified tree surgeon to perform any and all actions necessary to mitigate or repair the damage.

The Contractor shall, at his own expense, furnish and install all temporary sheeting, timbering and bracing required to maintain the excavation in a condition to furnish safe working conditions and to permit the safe and efficient installation of all items of contract work. The Contractor shall further, at his own expense, shore up or otherwise protect all fences, buildings, walls, walks, curbs, or other property adjacent to any excavation which might be disturbed during the progress of the work, except for such facilities which are within the allowable trench limits and are designated for removal and restoration.

Temporary supports must be removed by the Contractor at his own expense after or concurrently with the completion of the permanent facility.

The Contractor shall do all ditching, pumping, well pointing and bailing, build all drains, and do all other work necessary to keep the excavation clear of ground water, sewage or storm water during the progress of the work and until the finished work is safe from injury. Where the excavation is wet sand, and suitable construction conditions cannot be obtained by other methods, the Contractor shall install and operate, at his own expense, a pumping system connected with well points, so as to drain the same effectually. All well point holes shall be backfilled with sand after removal. No masonry or pipe shall be laid in water, and water shall not be allowed to rise over masonry until concrete or masonry has set at least 48 hours. All water pumped or drained from the work shall be disposed of in a manner that will not damage adjacent property or other work under construction. Necessary precautions shall be taken to protect all construction against flooding.

Whenever the excavation is carried beyond the lines and grades shown on the drawings, the Contractor shall, at this own expense, refill all such excavated space with such material and in such manner as may be directed.

Unsuitable and surplus excavated material not incorporated in the work shall be disposed of by the Contractor at his own expense.

In the event that any existing gas pipe, water pipes, conduits, sewers, storm drains or poles are blocked or interfered with by the excavation required on this project, the Contractor shall maintain them in

continuous operation, and restore them to the same condition as they were prior to the start of construction of this project. Gas pipes or electrical power distribution facilities or any other utilities which are disturbed in any way shall be inspected and repaired (if necessary) by the utility owner, all at no additional compensation from the Owner.

Any culvert pipe joint exposed by excavation shall be wrapped with an approved geotextile filter fabric, three feet in width, before backfilling, at no additional compensation.

265.03.2 – Trench Excavation. The ground shall be excavated in open trenches, of sufficient width and depth to provide ample room within the limits of the excavation, or lines of sheeting and bracing, for the proper construction of the water main.

Mechanical excavation of trenches shall be stopped above the final invert grade elevation so that the pipe may be laid on a firm, undisturbed native earth bed.

The width of the trench at the top of the pipe shall not exceed the outside diameter of the pipe plus two feet. The maximum allowable trench width at the ground surface shall not exceed the outside diameter of the pipe, plus twice the depth of cut. Restoration of disturbed facilities as a pay item will only be allowed within these limits. Facilities disturbed outside the allowable restoration limits shall be restored as detailed in “Restoration of Disturbed Facilities” in these Specifications, but at Contractor’s expense.

The minimum depth of excavation shall be as required for a cover over the completed water main of not less than 30 inches on city and county roads and 36 inches on MDOT rights-of-way. Where water pipes cross under existing drainageways, provide not less than 30 inches under ditches or 18” clearance between the top of the pipe and the bottom of existing storm drain pipes or structures.

265.03.3 – Bedding. Trenches shall be dry when the trench bottom is prepared. A continuous trough shall be pared or excavated to receive the bottom quadrant of the pipe barrel. In addition, bell holes shall be excavated so that after placement, only the barrel of the pipe receives bearing pressure from the trench bottom.

Preparation of the trench bottom and placement of the pipe shall be carefully made so that when in final position, the pipe is true to line and grade.

265.03.4 – Laying Pipe. All nonmetallic pipes shall be installed with a No. 12 coated solid copper wire attached to the top of the pipe. The locator wire shall be permanently secured to the pipe at six foot increments. The locator wire shall be continuous along the length of each pipe segment between access points and be accessible at every valve box, including valves for fire hydrants. Splices shall be made with waterproof connectors. Locator wire assemblies shall also be installed at the locations shown on the plans to provide a maximum spacing of not more than 500 feet between access points to the locator wire. Upon completion of all piping, locator wire, assemblies, and other access points, the Contractor shall coordinate with the Owner for testing. The Owner’s representative will use his locator to test the locator wiring system.

Pipe shall be protected during handling against impact shocks and free fall. Pipe shall be clean at all times, and no pipe shall be used in the work that does not conform to the appropriate specifications.

Pipe shall be laid accurately, to the line and grades with fittings and valves at the required locations as designated in the Drawings. Preparatory to making pipe joints all surfaces of the portions of the pipe to be jointed or of the factory-made jointing material shall be clean and dry. Lubricants, primers, adhesives, etc., shall be used as recommended by the pipe or joint manufacturer's specifications. The jointing materials or factory fabricated joints shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of water-tightness required.

If dirt enters the pipe, it shall be removed and the interior pipe surface swabbed with a 1 percent hypochlorite disinfecting solution.

Trenches shall be kept water-free and as dry as possible during bedding, laying, and jointing and for as long a period as required. As soon as possible after the joint is made, sufficient backfill material shall be placed along each side of the pipe to offset conditions that might tend to move the pipe off line and grade.

If pipe and fittings are not kept dry during installation, Contractor shall ensure that any water entering the pipe contains an available-chlorine concentration of approximately 25 mg/l by adding calcium hypochlorite granules or tablets to each length of pipe.

Wherever necessary to deflect pipe from a straight line, either in the horizontal or vertical plane, the degree of deflection shall not exceed maximum permissible deflections as recommended by pipe manufacturer.

265.03.5 – Backfilling. All trenches and excavation shall be backfilled as soon as the work has developed sufficient strength to resist backfilling loads and forces and the work shall be prosecuted expeditiously after it has commenced.

No pipe shall be backfilled above the top of the pipe until the pipe elevations, alignment and the pipe joints have been checked, inspected, and approved by the Engineer.

All pipes as soon as laid shall have the space between the pipe and the bottom and the sides of the trench backfilled to the spring line of the pipe with a select material. This material shall be thoroughly compacted by hand or mechanical means.

Backfill shall then proceed with the placement of select material in 6 inch layers to one foot above the top of the pipe. This backfill shall be compacted by mechanical compactor to not less than 95 percent Standard Proctor Maximum Dry Density.

If pipe trench is under or immediately adjacent to existing or proposed road or drive surfaces, the remainder of the trench shall be backfilled with select material in 8 inch layers to not less than 95 percent Standard Proctor Maximum Dry Density, using a mechanical compactor.

Where the native excavated is not considered suitable by the Engineer, the Engineer may authorize the replacement for such unsuitable material with contractor-furnished select backfill, and shall not be measured for a separate payment. All surplus or unsuitable material not used in backfilling shall be disposed of offsite by Contractor at his own expense.

265.03.6 – Utility Marking. All pipe installations require that utility marker tape (in addition to locator wire attached to nonconductive pipe) be buried in the backfill approximately 12 inches above the top of the pipe. Tape shall be permanently imprinted with an appropriate legend to identify the contents of the pipe (e.g. "Water Main Below".)

265.03.7 – General Requirements. All connections between pipe and fittings shall be made with an approved restrained joint system. In addition, all pipe joints within a distance which is tabulated in the Drawings from a fitting must also employ an approved restrained joint system. The assembly and installation of each restrained joint system shall be in strict accordance with the manufacturer's printed instructions and in the presence of a representative of the Engineer.

For all pipe sizes and types, install only full lengths of pipe adjacent to fittings, except in unusual circumstances.

Contractor must use care to prevent the entry of ground water or other contaminants into the water pipe, fittings, valves and appurtenances, either before, during, or after construction. Pipe delivered for construction shall be stored so as to minimize the entrance of foreign materials. All openings in the pipeline shall be closed with watertight plugs when pipe laying is stopped.

Connections to existing distribution system shall be made in a manner approved by the Engineer and shall be scheduled during times with the least inconvenience to customers and shall be accomplished in a timely manner with a minimum interruption of service. Contractor will be required to provide a minimum of 24 hours advance notification to customers where service will be interrupted. Contractor shall also provide advance notification to the Owner's water department and fire department.

Contractor shall verify size and type of existing water mains prior to connection of the new system. Necessary adapter fittings, glands, or special gaskets shall be furnished as needed to properly connect to the type of existing pipe or fitting encountered.

Where the project requires connection, removal, or any type of contact with existing asbestos cement pipe, Contractor shall comply with all local, state, and federal requirements for the cutting, handling, and disposal of asbestos cement pipe.

Contractor must coordinate the use of domestic water with the Owner. The Owner may allow Contractor to utilize water from the distribution system for the filling of the new water mains and a reasonable amount of water for wellpointing and initial flushing, without compensation. If, in the opinion of the Engineer and Owner, the Contractor did not take proper precautions in preventing debris and contaminants from entering the new system during construction or does not follow proper disinfection procedures as described in the latest revision of AWWA C651, the Owner reserves the right to assess charges to the Contractor for any excessive use of domestic water.

The new water mains shall be kept isolated from the active distribution system until satisfactory bacteriological testing has been completed and the disinfected water flushed out. All valves which separate existing in-service water mains from new water mains constructed under this contract shall remain closed at all times except when opened to fill or flush the new mains. A water-proof plastic tag shall be placed in each separation valve box, with the notice "Keep Closed at All Times." When valves are opened for filling or flushing, only one valve shall be opened at any one time, and only after a suitable flush point has been opened in the new system to relieve pressure and positively prevent the backflow of water from the new mains into the in-service mains.

Contractor shall be responsible for the proper handling and disposal of water discharged during flushing operations. All water discharged from the water system shall be disposed of in a manner that will not damage adjacent property, other work under construction, or adversely affect traffic or the general public. No water shall be discharged to the sanitary sewer collection system. Contractor shall advise and coordinate flushing of water mains with the Owner's water department and fire department and shall be performed in a manner that will not result in less than acceptable water pressure in the existing system. In case of fire or emergency, Contractor shall temporarily cease flushing operations.

265.03.8 – Hydrostatic Testing. Pressure and leakage testing shall be conducted on all pipe and appurtenances, including hydrants and water services, by the Contractor at his expense and in the presence of the Engineer or his representative. The hydrostatic test procedure used shall conform with the requirements of AWWA C-600, Section 4. The test shall be conducted by filling the pipe with clean water under a minimum pressure of 100 p.s.i. There shall be no visible leakage, nor shall the leakage exceed 9.5 gallons per 24 hours per inch diameter per mile as measured over a period of two hours. The Engineer reserves the right to select the line segments to be tested together as a unit, and may choose to separately test small segments if the test result for a larger segment is marginal.

265.03.9 – Disinfection. After completion of the construction and pressure testing of water distribution lines, hydrants, and water services, they shall be flushed and disinfected using at least a 50 mg/l free chlorine solution for 24 hours or as described in the latest revision of AWWA C651, Standard for Disinfecting Water Mains, and in a manner acceptable to the Mississippi State Department of Health. Disposal of heavily chlorinated water may require the Contractor to obtain a permit from the Department of Environmental Quality/Office of Pollution Control.

After final flushing and before the new water mains are connected to the distribution system, the Contractor shall arrange for microbiological water samples to be collected by a Certified Operator of the system, a representative of the Mississippi State Department of Health, or a certified technician of a laboratory certified by the Mississippi State Department of Health. At least one sample shall be collected from every 1200 feet of looped lines and from every dead-end line. No hose or fire hydrant shall be used in the collection of samples.

Water being collected for testing shall not have a chlorine residual higher than is normally maintained in other parts of the distribution system. No chlorine, which is a result of line disinfection, shall be present. A sample showing "No Coliform Present" shall constitute a satisfactory sample when analyzed by the Mississippi State Department of Health environmental laboratory or a laboratory certified by the Mississippi State Department of Health. The costs for all bacteriological sampling and testing shall be the responsibility of the Contractor.

If trench water has entered the new mains during construction or, if in the opinion of the Engineer, excessive quantities of dirt or debris have entered the new mains, bacteriological samples shall be taken at intervals of approximately 200 feet. Samples shall be taken of water that has stood in the new mains for at least 16 hours after final flushing has been completed.

If the initial disinfection fails to produce satisfactory bacteriological results, the new mains shall be reflushed and resampled. If check samples also fail to produce acceptable results, the mains shall be rechlorinated by the continuous-feed or slug method of chlorination as described in the latest revision of AWWA C651 until satisfactory results are obtained.

265.03.10 – Wastewater Disposal Method. The construction contractor shall submit for review and approval the method proposed for disposal of wastewater from hydrostatic tests and disinfection, prior to performing hydrostatic tests. Hydrostatic test and disinfection wastewater discharged to the storm sewer, sanitary sewer, or natural water stream shall not have a chlorine residual greater than 0.01mg/L.

265.03.11 – Separation of Water and Sewer Mains. Water mains should be laid at least 10 feet horizontally and 18 inches vertically from any sanitary sewer or manhole. The bottom of the water line should be at least 18" above the top of the sewer line. Water and sewer lines shall be constructed in separate trenches with adequate space for maintenance.

Where adequate horizontal separation cannot be maintained, the water main should be constructed of ductile iron with joints located at the maximum distance possible from sewer line joints.

Where the horizontal and vertical separation cannot be maintained, then the sewer main must be constructed to water main standards, in addition to the use of ductile iron for the water main.

Where water lines cross over sewer lines, the above requirements will be waived if pipe segments are centered to provide maximum spacing of the joints of both the water and sewer lines and the 18 inch vertical separation (water over sewer) is provided.

265.03.12 – Water Main Removal and Disposal Method. Contractor shall submit for review and approval a proposed schedule and method for the removal of sections or subsections of the existing water system. Also, Contractor shall submit for review and approval a proposed method of documenting the removal and disposal of existing mains in accordance with all applicable laws. Contractor shall maintain records and submit said records prior to any payment for removal of water mains.

265.03.13 – Gate Valves. Gate Valves shall be installed as detailed in the Drawings and in strict accordance with manufacturer's recommendations, along with restrained joint retainer glands and thrust blocking as indicated in the Drawings.

Where any gate valve shall be installed at a depth equal to or greater than 3.5 feet below finished grade, Contractor shall supply and install a valve key extension on the valve. The extension shall be securely

bolted or otherwise attached to the gate valve key per the recommendations of the manufacturer and as approved by the Engineer. Valve key extensions shall be installed plumb in the valve box and at a normal depth to allow easy operation of deep valves with a standard valve key.

265.03.14 – Fire Hydrants. Hydrants shall be installed as shown in the detailed drawings and in a manner that will provide complete accessibility and will prevent damage from vehicles. All hydrants shall stand plumb and shall have their pumper connections at right angles to the centerline of the road. Thrust block backings shall be constructed in strict accordance with manufacturer's recommendations.

Crushed stone or gravel shall be placed at the base of the hydrant to provide drainage.

After installation and prior to final acceptance the fire hydrants shall be painted above the ground line in accordance with AWWA Standard C-502. Color shall match existing hydrants in the project area, or as directed by the City's Engineer or his authorized representative. Multiple coats may be required to achieve uniform appearance if the hydrants are supplied by the manufacturer in a different color than desired.

It should be anticipated that some hydrants designed for bury depths greater than the standard 36 inches will be required, due to existing utility lines and/or ditch flowline elevations. Contractor may choose to utilize manufactured hydrant barrel extensions for some or all of the long-barrel hydrants.

265.03.15 – Water Services.

Where an existing residence or business is currently being serviced by an existing water service, it is Contractor's responsibility to physically locate the point where the existing service pipe crosses the property line (approximate location only - no surveys required). The existing water meter shall then be installed to this point. All work to locate the existing service and to make the final connection to it is included in "Long Service Connection"/"Short Service Connection".

Installation of all service line components (service saddle, corporation stop, tubing, and curb valve) shall be in strict accordance with manufacturer's recommendations. Service lines shall be laid deep enough to prevent damage from freezing, or during routine road or street maintenance, but not so deep as to require installing the line at an excessive angle in the meter box.

Service location reports will be furnished by the Engineer. Forms will be completed and submitted to Engineer by Contractor prior to any progress payments for water services.

It shall be Contractor's responsibility to keep active water service to any and all parcels which are in use or may be in use. Expenses associated with keeping the water service active at necessary lots shall be absorbed by Contractor. Damages to the newly constructed water services by the removal of the existing water mains shall be repaired at Contractor's expense.

265.03.16 – Line Stop Procedure. The contractor shall clean the exterior of the main to remove debris, corrosion deposits and other surface irregularities that might interfere with proper seating and sealing of the line stop fitting against the main.

Line stop fittings installed on slip joints or mechanical joint pipe require at least three standard lengths of pipe remain buried from the point of the line stop to where the line will be cut open. An alternate method is to anchor the line stop fitting in concrete. Line stop fittings shall be installed and pressure tested at 150 psi for 15-30 minutes prior to tapping the main.

Concrete support/anchor shall be installed after pressure test. Concrete support should extend to the "BEAM POINT or CENTER LINE" of the pipe main. This method should prevent movement laterally where the line is isolated and cut open.

Temporary line stop valve shall be installed into the line stop fittings (flanged tee may be mounted to the valve for temporary bypass). Drilling machine shall then be mounted to line stop valve, and the wet tap should be performed.

Once the coupon from the tap is retracted into the machine, the stop valve can be closed and the drilling machine can be de-pressurized and removed. Coupon shall be measured to verify pipe I.D. for sizing adjustments of the folding head stop sealing element.

Line stop machine shall then be mounted on stopping valve and line stop assembly, valve opened, and assembly entered into the pipe and the line stop performed.

Once the pipe main is de-pressurized, alterations can begin.

After alterations are completed, and the new line shall be sanitized. The line stop shall be re-pressurized, and the stopper head removed from the line stop and the valve closed.

Drilling machine with closure plug is mounted to stop valve. Valve is opened and the assembly is installed and locked into position inside the neck of the stop fitting.

The drilling machine shall then be removed, and blind flange shall be installed to the line stop fitting for completion of the job.

265.03.17 – Connection to Existing Water Mains. It is the intent of this contract that the new segments of water mains be constructed and pressure tested prior to connecting them to existing pipes. Temporary plugs and water service-type connections will be required to allow this.

Tapping Sleeves and Valves:

1. Installation of tapping sleeves shall fully conform with manufacturer's recommendations. The pipe barrel to be tapped shall be fully and carefully cleaned. Asbestos cement pipe shall be smoothed with a wire brush to ensure a tight seal of the gaskets against the pipe.
2. Before each sleeve is installed, the pipe barrel to be tapped shall be measured and the actual measured pipe O.D. shall be within the range recommended for the sleeve used.
3. The actual size of the hole cut in the pipe barrel shall be not more than 1/2 inch smaller than the nominal size of the branch connection (e.g., not less than 5 1/2 inches for a 6 inch tap). The drilling machine and shell cutter head used shall be specifically recommended for the type of pipe being tapped.
4. After the tap is complete and the tapping valve closed, the sleeve shall be bled of air and then visually checked for leakage before backfilling.

Connections made to existing water mains (other than those connections made with a tapping sleeve and valve), fittings, or stubs shall be made according to all the requirements in these Specifications. Necessary adapter fittings, glands, or special gaskets shall be furnished as needed to properly connect to the type of existing pipe or fitting encountered. Any cast or ductile iron fittings so used will be measured for separate payment as "Ductile Iron Fittings".

The Owner will assist Contractor by locating existing valves necessary to turn off the water pressure for a short period necessary to make the connection. Contractor shall provide at least 48 hours notice to the Owner for any outages. The Contractor may be requested to schedule some connections for a specific time of day or night, to reduce inconvenience to customers. The Owner and the Engineer do not guarantee that any specific sections of the water system can be isolated by closing existing valves.

After the new water main system is in service and all service connections are transferred, then the existing water mains replaced as a part of this Work shall be physically removed and disposed of in accordance with these Specifications.

Notice is given that some connections to and between the existing water mains which are to be abandoned may exist other than as shown in the Drawings. It is Contractor's obligation to find and disconnect all points of connection between the water mains to be removed and water mains which are to remain, whether shown in the Drawings or not.

The plans indicate certain existing fire hydrants and water valves which are to be removed. Fire hydrants so designated shall be removed in their entirety, including base elbow and bolted-on shut-off valve if so equipped. Valves may be "removed" by removing the 2" operating nut from the top of the valve and removing the valve box -- the entire valve need not be completely removed, unless this is needed to disconnect the water main. All materials removed shall remain the property of the Owner. They shall be delivered in good condition and unloaded at a location determined by the owner.

Where insertion valves or tapping valves are installed deeper than 3.5 feet below finished grade, Contractor shall supply and install valve key extensions in accordance with the requirements of "Gate Valves & Valve Boxes" in these Specifications.

265.03.17 – Separation of Water and Sewer Mains. Water mains should be laid at least 10 feet horizontally and 18 inches vertically from any sanitary sewer or manhole. The bottom of the water line should be at least 18" above the top of the sewer line. Water and sewer lines shall be constructed in separate trenches with adequate space for maintenance.

1. Where adequate horizontal separation cannot be maintained, the water main should be constructed of ductile iron with joints located at the maximum distance possible from sewer line joints.
2. Where the horizontal and vertical separation cannot be maintained, then the sewer main must be constructed to water main standards, in addition to the use of ductile iron for the water main.
3. Where water lines cross over sewer lines, the above requirements will be waived if pipe segments are centered to provide maximum spacing of the joints of both the water and sewer lines and the 18 inch vertical separation (water over sewer) is provided.

265.04 - Method of Measurement. Water distribution pipe, regardless of material type, will be measured as the number of linear feet of pipe in place, field measure, including locator wire and marker tape, regardless of depth, select bedding, select and general backfill, structure excavation, cleaning and disinfection, pumping, and testing. Contractor shall restore trenches and disturbed areas, dispose of unsuitable materials and perform grading and cleanup operations during the course of construction. Areas which are not properly cleaned up and maintained will not be approved for payment.

Where ductile iron pipe is required by the Drawings or directed by the Engineer, payment will also be measured as the number of linear feet of ductile iron pipe installed, field measure, including any necessary locator wire and marker tape, regardless of depth, select bedding, select and general backfill, structure excavation, cleaning and disinfection, pumping, and testing. Contractor shall restore trenches and disturbed areas, dispose of unsuitable materials and perform grading and cleanup operations during the course of construction. Areas which are not properly cleaned up and maintained will not be approved for payment.

Restrained pipe joints will not be measured separately for payment. Carrier pipe in pipe encasements shall be ductile iron, restrained joint pipe.

Removal of all water items shall be included in "Removal of Obstructions".

Distribution pipe fittings will be measured by the pound of fittings in place, including glands, bolts, and gaskets computed upon unit weights listed in AWWA C-110. This applies even if the fittings used are compact ductile iron fittings conforming to AWWA C-153.

Gate Valves will be measured per each. Valves used as fire hydrant isolation valves will not be measured under this item. Payment made for gate valves will be inclusive of all associated costs, including any

required valve key extensions. Where required, valve key extensions will not be measured for separate payment.

Long/Short Service Connections shall be measured per each, for each respective diameter, as the number of actual services connected, regardless of the main's size. Service connections shall include all labor and materials necessary to result in a fully functioning water service, including but not limited to location and connection to existing water service, location and connection to existing/proposed water main, water service tubing, excavation, bedding and backfill, service saddles, corporation stops, curb stops, relocation of water meter, purchase of water meter due to damage by contractor, meter boxes, structure excavation, select bedding, and select or general backfill.

Location of and connection to existing water services will not be measured separately for payment.

Where directed by Engineer and in accordance with these Specifications, Contractor shall wash, bore, or jack water services under existing or proposed improvements. Such work shall be considered incidental to the installation of the new water services and shall not be measured for separate payment.

Fire hydrants shall be measured as the number of units in place, per each, including but not limited to mainline tee, excavation, bedding, concrete and reinforcement, saddle, sleeve, joint restraints, 6-inch gate valve and all appurtenances. No separate payment will be made for hot tapping.

Insertion valve shall be measured per each and shall include furnishing and installing valve and sleeve components, and all equipment, tools, labor, and incidentals necessary to complete the work.

Line stop valve shall be measured per each and include furnishing and installing all fittings, nuts, bolts, washers, blind flange, gasket, tapping sleeve, plugging after completion of the work and all equipment, tools, labor, and incidentals necessary to complete the work.

265.05 - Basis of Payment. This work will be paid for at the contract unit prices per unit specified, complete in place, which shall be full compensation for completing the work. Materials or work for which a pay item is not included and are necessary to complete the work under this section shall be furnished or performed and shall be considered incidental to the completed construction.

Payment will be made under:

907-265-A: 6" C-900 PVC Water Main	-per linear foot
907-265-B: 6" Ductile Iron Water Main	-per linear foot
907-265-A: 8" C-900 PVC Water Main	-per linear foot
907-265-B: 8" Ductile Iron Water Main	-per linear foot
907-265-C: Ductile Iron Fittings	- per pound
907-265-D: 8" Insertion Valve	- per each
907-265-D: 6" Insertion Valve	- per each
907-265-F: Fire Hydrant Assembly	- per each
907-265-K: 6" Line Stop	- per each
907-265-M: Short Service Connection	- per each
907-265-M: Long Service Connection	- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-304-13

CODE: (SP)

DATE: 06/06/2012

SUBJECT: Granular Courses

Section 907-304, Granular Courses, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-304.02--Materials. After the first paragraph of Subsection 304.02.1 on page 183, add the following.

Crushed concrete meeting the requirements of Subsection 907-703.04.3 may be used in lieu of granular courses or crushed stone courses specified in the contract. This applies to base courses, shoulders, or other required construction on a prepared foundation.

907-304.03--Construction Requirements.

907-304.03.5--Shaping, Compacting and Finishing. Delete the sixth paragraph of Subsection 304.03.5 on page 185.

Delete the first table in Subsection 304.03.5 on page 186 and substitute the following.

Granular Material	Lot	Individual
<u>Class</u>	<u>Average</u>	<u>Test</u>
7,8,9 or 10	97.0	93.0
5 or 6	99.0	95.0
3 or 4	100.0	96.0
1 or 2	102.0	98.0
Crushed Courses*	99.0	95.0

* When placed on filter fabric on untreated subgrade, the individual tests and the average of the five (5) tests shall equal or exceed the following values.

<u>Lot Average</u>	<u>Individual Test</u>
96.0	92.0

907-304.05--Basis of Payment. Add the “907” prefix to the pay items listed on page 187.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-401-7

DATE: 03/22/2016

SUBJECT: Asphalt Pavements

Delete subparagraph 4 of Subsection 907-401.02.6.4.1 on page 16, and substitute the following.

4. For all pavements on new construction except shoulders that are untreated, the required lot density for all lifts shall be 93.0 percent of maximum density. For all pavements on shoulders that are untreated, the required lot density for all lifts shall be 92.0 percent of maximum density.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-401-7

CODE: (SP)

DATE: 12/02/2014

SUBJECT: Asphalt Pavements

Section 401, Hot Mix Asphalt (HMA) - General, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby deleted and replaced as follows.

SECTION 907-401 - ASPHALT PAVEMENT -- GENERAL

907-401.01--Description. These specifications include general requirements that are applicable to all types of asphalt whether producing Hot Mix Asphalt (HMA) mixtures or Warm Mix Asphalt (WMA) mixtures. These specifications also include the specific requirements for each particular mixture when deviations from the general requirements are necessary.

This work consists of the construction of one or more lifts of asphalt pavement in accordance with these specifications and the specific requirements for the mixture to be produced and in reasonably close conformity with the lines, grades, thicknesses and typical sections shown on the plans or established by the Engineer.

907-401.01.1--Definitions.

Maximum Sieve Size - Maximum sieve size is the smallest sieve size at which 100 percent of the aggregate passes.

Nominal Maximum Sieve Size - The nominal maximum sieve size is one sieve size larger than the first sieve to retain more than 10 percent of the aggregate.

Maximum Density Line - The maximum density line is a straight line plot on the FHWA 0.45 power gradation chart which extends from the zero origin point of the chart through the plotted point of the combined aggregate gradation curve on the nominal maximum sieve size.

Mechanically Fractured Face - An angular, rough, or broken surface of an aggregate particle created by crushing as determined by ASTM Designation: D 5821.

907-401.02--Materials.

907-401.02.1--Component Materials.

907-401.02.1.1--General. Component materials will be conditionally accepted at the plant subject to later rejection if incorporated in a mixture or in work which fails to meet contract requirements.

907-401.02.1.2--Aggregates. The source of aggregates shall meet the applicable requirements of Section 703.

907-401.02.1.2.1--Coarse Aggregate Blend. Mechanically fractured faces by weight of the combined mineral aggregate coarser than the No. 4 sieve:

<u>Mixture</u>	<u>Percent Fractured Faces, minimum</u>
25-mm	70, one-face
19-mm *	80, one-face
12.5-mm	90, two-face
9.5-mm	90, two-face
4.75-mm	90, two-face

- * When used on routes requiring polymer modified asphalt, the top intermediate lift (19-mm mixture), including travel lane and adjacent lane, shall have at least 90 percent two fractured faces minimum. When placed on an existing Portland Cement Concrete surface, all intermediate lifts (19-mm mixture) shall have at least 90 percent fractured two faces minimum.

The maximum percentage by weight of flat and elongated particles, for all mixes other than 4.75-mm, maximum to minimum dimension greater than 5, shall not exceed 10% for all mixtures. This shall be determined in accordance with ASTM Designation: D 4791, Section 8.4, on the combined mineral aggregate retained on the 3/8" sieve.

907-401.02.1.2.2--Fine Aggregate Blend. Of all the material passing the No. 8 sieve and retained on the No. 200 sieve, not more than 60 percent shall pass the No. 30 sieve.

Uncrushed natural sand shall pass the 3/8" sieve and may be used, excluding the content in RAP, in the percentages of the total mineral aggregate by weight set out in the following table:

Mixture	Maximum Percentage of Natural Sand by Total Weight of Mineral Aggregate		
	HT	MT	ST
25-mm	10	10	20
19-mm	10	10	20
12.5-mm	10	10	20
9.5-mm	10	10	10
4.75-mm	25	30	35

907-401.02.1.2.3--Combined Aggregate Blend.**Design Master Range**

Mixture:	25-mm	19-mm	12.5-mm	9.5-mm	4.75-mm
Nominal Maximum Sieve Size:	1 inch	3/4 inch	1/2 inch	3/8 inch	1/4 inch
Sieve Size	Percent Passing				
1½ inch	100				
1 inch	90-100	100			
¾ inch	89 max.	90-100	100		
½ inch	-	89 max.	90-100	100	100
3/8 inch	-	-	89 max.	90-100	95-100
No. 4	-	-	-	89 max.	90-100
No. 8	16-50	18-55	20-60	22-70	-
No. 16	-	-	-	-	30-60
No. 200	4.0-9.0	4.0-9.0	4.0-9.0	4.0-9.0	6.0-12.0

For MT and HT mixtures, the combined aggregate gradation of the job mix formula, when plotted on FHWA 0.45 power chart paper, shall fall entirely below the Maximum Density Line on all sieve sizes smaller than the No. 4 sieve. However, MT and HT mixtures having a minimum fine aggregate angularity index of 44.0, per ASTM Designation: C1252, Method A, may be designed above the maximum density line.

The 9.5-mm mixtures shall have a minimum fine aggregate angularity of 44.0 for HT and MT mixtures and 40.0 for ST mixtures when tested on combined aggregate in accordance with ASTM Designation: C1252 Method A. The 4.75-mm mixtures shall have a minimum fine aggregate angularity of 45.0 for all design levels when tested on combined aggregate in accordance with ASTM Designation: C 1252, Method A.

The minus No. 40 fraction of the combined aggregate shall be non-plastic when tested according to AASHTO Designation: T 90. The clay content for the combined aggregate for underlying layers shall not exceed 1.0 percent, and for the top layer shall not exceed 0.5 percent by weight of the total mineral aggregate when tested according to AASHTO Designation: T 88.

907-401.02.1.3--Bituminous Materials. Bituminous materials shall meet the applicable requirements of Section 702 for the grade specified.

Tack coat shall be the same neat grade asphalt cement used in the mixture being placed or those materials specified for tack coat in Table 410-A on the last page of Section 410. Emulsified asphalt shall not be diluted without approval of the Engineer.

907-401.02.1.4--Blank.

907-401.02.1.5--Hydrated Lime. Hydrated lime shall meet the requirements of Subsection

714.03.2 for lime used in soil stabilization.

907-401.02.1.6--Asphalt Admixtures. Additives for liquid asphalt, when required or permitted, shall meet the requirements of Subsection 702.08.

907-401.02.1.7--Polymers. Polymers for use in polymer modified asphalt pavements shall meet the requirements of Subsection 702.08.3.

907-401.02.2--WMA Products and Processes. The Department will maintain a list of qualified WMA products and processes. No product or process shall be used unless it appears on this list.

The Contractor may propose other products or processes for approval by the Product Evaluation Committee. Documentation shall be provided to demonstrate laboratory performance, field performance, and construction experience.

907-401.02.3--Composition of Mixtures.

907-401.02.3.1--General. Unless otherwise specified or permitted, the asphalt shall consist of a uniform mixture of asphalt, aggregate, hydrated lime and, when required or necessary to obtain desired properties, antistripping agent and/or other materials.

The total amount of crushed limestone aggregate for mixtures, excluding shoulders, when used in the top lift, shall not exceed 50 percent of the total combined aggregate by weight.

Hydrated lime shall be used in all asphalt at the rate of one percent (1%) by weight of the total dry aggregate including aggregate in RAP, if used. The aggregate, prior to the addition of the hydrated lime, shall contain sufficient surface moisture. If necessary, the Contractor shall add moisture to the aggregate according to the procedures set out in Subsection 907-401.03.2.1.2.

The Contractor shall obtain a shipping ticket for each shipment of hydrated lime. The Contractor shall provide the District Materials Engineer with a copy of each shipping ticket from the supplier, including the date, time and weight of hydrated lime shipped and used in hot mix asphalt production. An amount equal to twenty-five percent (25%) of the total value of asphalt items performed during the initial estimate period in which the Contractor fails to submit the hydrated lime shipping tickets to the District Materials Engineer will be withheld from the Contractor's earned work. Non-conformance with this specification for successive estimate period(s) will result in the total value (100%) of asphalt items performed during this period(s) being withheld from the Contractor's earned work. Monies withheld for this non-conformance will be released for payment on the next monthly estimate following the date the submittal of hydrated lime shipping tickets to the District Materials Engineer is brought back into compliance with this specification.

Mixtures will require the addition of an antistripping agent when the Tensile Strength Ratio (MT-63) and/or the Boiling Water Test (MT-59) fail to meet the following criteria.

Tensile Strength Ratio (TSR - MT-63)

Wet Strength / Dry Strength 85 percent minimum

Interior Face Coating 95 percent minimum

Boiling Water Test (MT-59)

Particle Coating 95 percent minimum

Reclaimed asphalt pavement (RAP) materials may be used in the production of asphalt in the percentages of the total mix by weight set out in the following table:

Asphalt Mixture	Maximum Percentage of RAP by total weight of mix
4.75-mm	0
9.5-mm	20 *
12.5-mm Surface Lift	20 *
12.5-mm Underlying Lift	30
19-mm	30
25-mm	30

- * At a minimum, RAP shall be processed and/or screened such that the RAP material size does not exceed the nominal maximum sieve size for the mixture specified.

During asphalt production, the RAP shall pass through a maximum 2-inch square sieve located in the asphalt plant after the RAP cold feed bin and prior to the RAP weighing system.

Crushed reclaimed concrete pavement may be used as an aggregate component of all asphalt pavements. When crushed reclaimed concrete pavement is used as an aggregate component, controls shall be implemented to prevent segregation. Crushed reclaimed concrete pavement aggregate shall be separated into coarse and fine aggregate stockpiles using the 3/8-inch or 1/2-inch sieve as a break-point unless otherwise approved by the Engineer in writing.

907-401.02.3.1.1--Mixture Properties.

<u>ALL MIXTURES</u>	<u>Percent of Maximum Specific Gravity (Gmm)</u>
N _{Design}	96.0
N _{Initial}	Less than 90.0
N _{Maximum}	Less than 98.0
<u>VMA CRITERIA</u>	<u>Minimum percent</u>
25-mm mixture	12.0
19-mm mixture	13.0
12.5-mm mixture	14.0
9.5-mm mixture	15.0
4.75-mm mixture	16.0

Mixtures with VMA more than two percent higher than the minimum may be susceptible to

flushing and rutting; therefore, unless satisfactory experience with high VMA mixtures is available, mixtures with VMA greater than two percent above the minimum should be avoided.

The specified VFA range for 4.75-mm nominal maximum size mixtures for design traffic levels >3 million ESAL's (HT Mixtures) shall be 75 to 78 percent, for design traffic levels of 1.0 to 3 million ESAL's (MT mixtures) 65 to 78 percent, and for design traffic levels of <1.0 million ESAL's (ST mixtures) 65 to 78 percent.

DUST/BINDER RATIO for 4.75-mm mixtures

Percent Passing No.200 / Effective Binder Percent 0.9 to 2.0

DUST/BINDER RATIO for 9.5-mm, 12.5-mm, 19-mm & 25-mm mixtures

Percent Passing No.200 / Effective Binder Percent 0.8 to 1.6

907-401.02.3.2--Job Mix Formula. The job mix formula shall be established in accordance with Mississippi Test Method: MT-78, where N represents the number of revolutions of the gyratory compactor.

Compaction Requirements:	N _{Initial}	N _{Design}	N _{Maximum}
High Type (HT) Mixtures			
19-mm, 12.5-mm, 9.5-mm & 4.75-mm	7	85	130
Medium Type (MT) Mixtures			
19-mm, 12.5-mm, 9.5-mm & 4.75-mm	7	65	100
All Standard Type (ST) Mixtures;			
25-mm HT & MT Mixtures	6	50	75

At least 10 working days prior to the proposed use of each mixture, the Contractor shall submit in writing to the Engineer a proposed job-mix formula or request the transfer of a verified job-mix formula as set forth in the latest edition of MDOT's Field Manual for HMA and SOP TMD-11-78-00-000. The proposed job-mix formula shall indicate whether the mixture will be produced as HMA or WMA. The process or product used to produce WMA should also be noted on the proposed documentation for the job-mix formula. The job-mix formula shall be signed by a Certified Mixture Design Technician (CMDT).

The Department will perform the tests necessary for review of a proposed job-mix formula for each required mixture free of charge one time only. A charge will be made for additional job-mix formulas submitted by the Contractor for review.

Review of the proposed job-mix formula will be based on percent maximum specific gravity at N_{Initial}, N_{Design}, and N_{Maximum}, VMA @ N_{Design}, resistance to stripping, and other criteria specified for the mixture.

The mixture shall conform thereto within the range of tolerances specified for the particular

mixture. No change in properties or proportion of any component of the job-mix formula shall be made without permission of the Engineer. The job-mix formula for each mixture shall be in effect until revised in writing by the Engineer.

A job-mix formula may be transferred to other contracts in accordance with conditions set forth in the Department's Field Manual for HMA.

The Contractor shall not place any asphalt prior to receiving "tentative" approval and a MDOT design number from the Central Laboratory.

When a change in source of materials, unsatisfactory mixture production results (such as segregation, bleeding, shoving, rutting over $\frac{1}{8}$ ", raveling & cracking) or changed conditions make it necessary, a new job-mix formula will be required. The conditions set out herein for the original job-mix formula are applicable to the new job-mix formula.

In the event the Contractor wishes to change from an approved HMA job-mix formula to WMA or an approved WMA job-mix formula to HMA, the Contractor shall submit the proposed change in writing to the Engineer at least 10 working days prior to the proposed change. If no changes (other than the plant production temperature) are to be made to the job-mix formula, a new MDOT design number will be assigned by the MDOT Central Laboratory.

907-401.02.4--Substitution of Mixture. The substitution of a one (1) size finer mixture for an underlying lift shall require written permission of the State Construction Engineer, except no substitution of a 4.75-mm mixture will be allowed. A 9.5-mm mixture may be substituted for the 12.5-mm mixture designated on the plans as the top lift or pre-leveling. The 19-mm mixture may be substituted for the 25-mm mixture in trench widening work. Any substitution of mixtures shall be of the same type. No other substitutions will be allowed. The quantity of substituted mixture shall be measured and paid for at the contract unit price for the mixture designated on the plans. The substitution of any mixture will be contingent on meeting the required total structure thickness and maintaining the minimum and/or maximum laying thickness for the particular substituted mixture as set out in the following table.

Mixture	Single Lift Laying Thickness Inches	
	Minimum	Maximum
25-mm	3	4
19-mm	2 $\frac{1}{4}$	3 $\frac{1}{2}$
12.5-mm	1 $\frac{1}{2}$	2 $\frac{1}{2}$
9.5-mm	1	1 $\frac{1}{2}$
4.75-mm	$\frac{1}{2}$	$\frac{3}{4}$

907-401.02.5--Contractor's Quality Management Program.

907-401.02.5.1--General. The Contractor shall have full responsibility for quality management

and maintain a quality control system that will furnish reasonable assurance that the mixtures and all component materials incorporated in the work conform to contract requirements. The Contractor shall have responsibility for the initial determination and all subsequent adjustments in proportioning materials used to produce the specified mixture. Adjustments to plant operation and spreading and compaction procedures shall be made immediately when results indicate that they are necessary. Mixture produced by the Contractor without the required testing or personnel on the project shall be subject to removal and replacement by the Contractor at no additional cost to the State.

907-401.02.5.2--Personnel Requirements. The Contractor shall provide at least one Certified Asphalt Technician-I (CAT-I) full-time during asphalt production at each plant site used to furnish material to the project. Sampling shall be conducted by a certified technician or by plant personnel under the direct observation of a certified technician. All testing, data analysis and data posting will be performed by the CAT-I or by an assistant under the direct supervision of the CAT-I. The Contractor shall have a Certified Asphalt Technician-II (CAT-II) available to make any necessary process adjustments. Technician certification shall be in accordance with MDOT SOP TMD-22-10-00-000, MDOT HMA Technician Certification Program. An organizational chart, including names, telephone numbers and current certification, of all those responsible for the quality control program shall be posted in the Contractor's laboratory while the asphaltic paving work is in progress.

907-401.02.5.3--Testing Requirements. As a minimum, the Contractor's quality management program shall include the following:

- (a) Bituminous Material. Provide Engineer with samples in a sealed one quart metal container at the frequency given in MDOT SOP TMD-20-04-00-000.
- (b) Mechanically Fractured Face. Determine mechanically fractured face content of aggregates retained on the No. 4 sieve, at a minimum of one test per day of production.
- (c) Mixture Gradation. Conduct extraction tests for gradation determination on the mixture. Sample according to the frequency in paragraph (i) and test according to Mississippi Test Method MT-31.
- (d) Total Voids and VMA. Determine total voids and voids in mineral aggregate (VMA), at N_{Design} , from the results of bulk specific gravity tests on laboratory compacted specimens. Sample according to the sampling frequency in paragraph (i) and test according to the latest edition of MDOT's Field Manual for HMA.
- (e) Asphalt Content. Sample according to the sampling frequency in paragraph (i). Determine the asphalt content using one of the following procedures.
 - (1) Nuclear gauge per Mississippi Test Method MT-6.
 - (2) Incinerator oven per AASHTO Designation: T 308, Method A.
- (f) Stripping Tests. Conduct a minimum of one stripping test at the beginning of each job-

mix production and thereafter, at least once per each two weeks of production according to Mississippi Test Method: MT-63 and one stripping test per day of production according to Mississippi Test Method: MT-59. Should either the TSR (MT-63) or the boiling water (MT-59) stripping tests fail, a new antistrip additive or rate shall be established or other changes made immediately that will result in a mixture which conforms to the specifications; otherwise, production shall be suspended until corrections are made.

- (g) Density Tests. For 25-mm, 19.5-mm, 12.5-mm & 9.5-mm mixtures, conduct density tests as necessary to control and maintain required compaction according to Mississippi Test Method: MT-16, Method C (nuclear gauge), or AASHTO Designation: T 166. Note - The nuclear gauge may be correlated, at the Contractor's option, with the average of a minimum of five pavement sample densities. For 4.75-mm mixtures, conduct density tests as necessary to control and maintain required compaction according to AASHTO Designation: T 166.
- (h) Quality Control Charts. Plot the individual test data, the average of the last four tests and the control limits for the following items as a minimum:

Mixture Gradation (Percent Passing) Sieves:
 1/2-inch, 3/8-inch, No. 8, No. 16, No. 30 and No. 200.
 Asphalt Content, Percent
 Maximum Specific Gravity, G_{mm}
 Total Voids @ N_{Design} , Percent
 VMA @ N_{Design} , Percent

NOTE: For 4.75-mm mixtures, Quality Control Charts for mixture gradation are not required on the No. 8 and No. 30 sieves. For 4.75-mm mixtures, as a minimum, Quality Control Charts for mixture gradation shall be kept on the 3/8-inch, No. 16 and No. 200 sieves. For all mixtures other than 4.75-mm, Quality Control Charts for mixture gradation are not required on the No. 16 sieve.

Keep charts up-to-date and posted in a readily observable location. Charts may be kept on a computer, however, the charts shall be printed out a minimum of once each production day and displayed in the laboratory. Note any process changes or adjustments on the Air Voids chart.

- (i) Sampling Frequency. Conduct those tests as required above at the following frequency for each mixture produced based on the estimated plant tonnage at the beginning of the day.

<u>Total Estimated Production, tons</u>	<u>Number of Tests</u>
50-800	1
801-1700	2
1701-2700	3
2701+	4

NOTE: Material placed in a storage silo from a previous day's production shall be randomly sampled and tested when removed for placement on the roadway. Such sample(s) shall be independent of the day's production sampling frequency and shall be used in calculating the four (4) sample running average.

- (j) Sample Requirements. Obtain the asphalt mixture samples from trucks at the plant. Obtain aggregate samples from cold feed bins or aggregate stockpile. Save a split portion of all mixture samples at the laboratory site in a dry and protected location for 14 calendar days. At the completion of the project, the remaining samples may be disposed of with the approval of the Engineer.

The above testing frequencies are for the estimated plant production for the day. If production is discontinued or interrupted, the tests will be conducted at the previously established sample tonnage points for the materials that are actually produced. If the production exceeds the estimated tonnage, sampling and testing will continue at the testing increments previously established for the day. A testing increment is defined as the estimated daily tonnage divided by the required number of tests from the table in Subsection 907-401.02.5.3 paragraph (i).

In addition to the above program, the following tests shall be conducted on the first day of production and once for every eight production samples thereafter, with a minimum of one test per production week.

Aggregate Stockpile Gradations per AASHTO Designations: T-11 and T-27.

Reclaimed Asphalt Pavement (RAP) Gradation per Mississippi Test Method MT-31.

Fine Aggregate Angularity for all 4.75-mm and 9.5-mm mixtures and all MT and HT mixtures designed above the maximum density line per ASTM Designation: C 1252, Method A.

Testing of the aggregate and RAP stockpiles during production will be waived provided the Contractor provides the Engineer with gradation test results for the materials in the stockpile determined during the building of the stockpiles. The test results provided shall represent a minimum frequency of one per one thousand tons of material in the stockpile. If the Contractor continues to add materials to the stockpile during asphalt production, the requirements for gradation testing during production are not waived.

907-401.02.5.4--Documentation. The Contractor shall document all observations, records of inspection, adjustments to the mixture, and test results on a daily basis. All tests conducted by the Contractor in accordance with Subsection 907-401.02.5.3(h) shall be included in the running average calculations. If single tests are performed as a check on individual asphalt properties, between regular samples, without performing all tests required in Subsection 907-401.02.5.3(h), the results of those individual tests shall not be included in the running average calculations for that particular property. The Contractor shall record the results of observations and records of inspection as they occur in a permanent field record. The Contractor shall record all process

adjustments and job mix formula (JMF) changes on the air void charts. The Contractor shall provide copies of all test data sheets and the daily summary reports on the appropriate Mississippi DOT forms to the Engineer on a daily basis. The Contractor shall provide a written description of any process change, including blend proportions, to the Engineer as they occur. Information provided to the Engineer must be received in the Engineer's office by no later than 9:00 AM the day after the asphalt is produced. Fourteen days after the completion of the placement of the asphalt, the Contractor shall provide the Engineer with the original testing records and control charts in a neat and orderly manner.

907-401.02.5.5--Control Limits. The following control limits for the job mix formula (JMF) and warning limits are based on a running average of the last four data points.

<u>Item</u>	<u>JMF Limits</u>	<u>Warning Limits</u>
Sieve - % Passing		
1/2-inch	± 5.5	± 4.0
3/8-inch	± 5.5	± 4.0
No. 8	± 5.0	± 4.0
No. 16, for 4.75-mm mixtures ONLY	± 4.0	± 3.0
No. 30	± 4.0	± 3.0
No. 200	± 1.5	± 1.0
Asphalt Content, %	-0.3 to +0.5	-0.2 to + 0.4
Total Voids @ N _{Design} , %	± 1.3	± 1.0
VMA @ N _{Design} , %	- 1.5	- 1.0

907-401.02.5.6--Warning Bands. Warning bands are defined as the area between the JMF limits and the warning limits.

907-401.02.5.7--Job Mix Formula Adjustments. A request for a JMF adjustment signed by a CAT-II may be made to the Engineer by the Contractor. Submit sufficient testing data with the request to justify the change. The requested change will be reviewed by the State Materials Engineer for the Department. If current production values meet the mixture design requirements, a revised JMF will be issued. Adjustments to the JMF shall conform to the latest edition of MDOT's Field Manual for HMA. Adjustments to the JMF to conform to actual production shall not exceed the tolerances specified for the JMF limits. Regardless of such tolerances, any adjusted JMF gradation shall be within the design master range for the mixture specified. The JMF asphalt content may only be reduced if the production VMA meets or exceeds the minimum design VMA requirements for the mixture being produced.

907-401.02.5.8--Actions and Adjustments. Based on the process control test results for any property in question, the following actions shall be taken or adjustments made when appropriate:

- (a) When the running average trends toward the warning limits, the Contractor shall consider taking corrective action. The corrective action, if any, shall be documented. All tests shall be part of the contract files and shall be included in the running average

calculations.

- (b) The Contractor shall notify the Engineer whenever the running average exceeds the warning limits.
- (c) If two consecutive running averages exceed the warning limit, the Contractor shall stop production and make adjustments. Production shall only be restarted after notifying the Engineer of the adjustments made.
- (d) If the adjustment made under (c) improves the process such that the running average after four additional tests is within the warning limits, the Contractor may continue production with no reduction in payment.
- (e) If the adjustment made under (c) does not improve the process and the running average after four additional tests stays in the warning band, the mixture will be considered unsatisfactory. Reduced payment for unsatisfactory mixtures will be applied starting from the stop point to the point when the running average is back within the warning limits in accordance with Subsection 907-401.02.6.3.
- (f) Failure to stop production and make adjustments when required shall subject all mixture produced from the stop point to the point when the running average is back within the warning limits to be considered unsatisfactory. Reduced payment for unsatisfactory mixtures will be applied in accordance with Subsection 907-401.02.6.3.
- (g) If the running average exceeds the JMF limits, the Contractor shall stop production and make adjustments. Production shall only be restarted after notifying the Engineer of the adjustments made.
- (h) All materials for which the running average exceeds the JMF limits will be considered unacceptable and shall be removed and replaced by the Contractor at no additional cost to the State. The Engineer will determine the quantity of material to be replaced based on a review of the individual testing data which make up the running average in question and an inspection of the completed pavement. If the Engineer decides to leave the mixture in place because of special circumstances, the quantity of mixture, as defined above, will be paid for in accordance with Subsection 907-401.02.6.3.
- (i) Single test results shall be compared to 1.7 times the warning and JMF limits. If the test results verified by QA testing (within allowable differences in Subsection 907-401.02.6.2) exceed these limits, the pay factor provided in Subsection 907-401.02.6.3 will apply for the quantity of material represented by the test(s). Single test limits will be used for the acceptance of projects when insufficient tonnage is produced to require four (4) Contractor's tests.
- (j) The above corrective action will also apply for a mixture when the Contractor's testing data has been proven incorrect. The Contractor's data will be considered incorrect when;
1) the Contractor's tests and the Engineer's tests do not agree within the allowable differences given in Subsection 907-401.02.6.2 and the difference can not be resolved, or
2) the Engineer's tests indicates that production is outside the JMF limits and the results have been verified by the Materials Division. The Engineer's data will be used in place of the Contractor's data to determine the appropriate pay factor.

907-401.02.6--Standards of Acceptance.

907-401.02.6.1--General. Acceptance for mixture quality (VMA and total voids @ N_{Design} , gradation, and asphalt content) will be based on random samples tested in accordance with the

latest edition of MDOT's Field Manual for HMA. Pavement densities and smoothness will be accepted by lots as set out in Subsections 907-401.02.6.4 and 907-401.02.6.5.

907-401.02.6.2--Assurance Program for Mixture Quality. The Engineer will conduct a quality assurance program. The quality assurance program will be accomplished as follows:

- 1) Conducting verification tests.
- 2) Validate Contractor test results.
- 3) Periodically observing Contractor quality control sampling and testing.
- 4) Monitoring required quality control charts and test results.
- 5) Sampling and testing materials at any time and at any point in the production or laydown process.

The rounding of all test results will be in accordance with Subsection 700.04.

The Engineer will conduct verification tests on samples taken by the Contractor under the direct supervision of the Engineer at a time specified by the Engineer. The frequency will be equal to or greater than ten percent (10%) of the tests required for Contractor quality control and the data will be provided to the Contractor within two asphalt mixture production days after the sample has been obtained by the Engineer. At least one sample shall be tested from the first two days of production. All testing and data analysis shall be performed by a Certified Asphalt Technician-I (CAT-I) or by an assistant under the direct supervision of the CAT-I. Certification shall be in accordance with the *MDOT HMA Technician Certification Program* chapter in the Materials Division Inspection, Testing, and Certification Manual. The Department shall post a chart giving the names and telephone numbers for the personnel responsible for the assurance program.

The Engineer shall be allowed to inspect Contractor testing equipment and equipment calibration records to confirm both calibration and condition. The Contractor shall calibrate and correlate all testing equipment in accordance with the latest versions of the Department's Test Methods and AASHTO Designation: R 18.

Random differences between the Engineer's verification tests and the current running average of four quality control tests at the time of obtaining the verification sample will be considered acceptable if within the following limits:

Item	Allowable Differences
Sieve - % Passing	
3/8-inch and above	6.0
No. 4	5.0
No. 8	4.0
No. 16, for 4.75-mm mixtures ONLY	3.5
No. 30	3.5
No. 200	2.0
AC Content	0.4
Specimen Bulk SG, Gmb @ N_{Design}	0.030
Maximum SG, Gmm	0.020

If four quality control tests have not been tested prior to the time of the first verification test, the verification test results will be compared to the average of the preceding quality control tests. If the verification test is the first material tested on the project or if a significant process adjustment was made just prior to the verification test, the verification test results will be compared to the average of four subsequent quality control test results. For all other cases after a significant process adjustment, the verification test results will be compared to the average of the preceding quality control tests (taken after the adjustment) as in the case of a new project start-up when four quality control tests are not available.

In the event that; 1) the comparison of the Contractor's running average quality control data and Engineer's quality assurance verification test results are outside the allowable differences in the above table, or 2) if a bias exists between the results, such that one of the results is predominately higher or lower than the other, and the Engineer's results fail to meet the JMF control limits, the Engineer will investigate the reason immediately. As soon as the need for an investigation becomes known, the Engineer will increase the quality assurance sampling rate to the same frequency required for Contractor testing. The additional samples obtained by the Engineer may be used as part of the investigation process or for routine quality assurance verification tests. The Engineer's investigation may include testing of the remaining quality control split samples, review and observation of the Contractor's testing procedures and equipment, and a comparison of split sample test results by the Contractor quality control laboratory, Department quality assurance laboratory and the Materials Division laboratory. The procedures outlined in the latest edition of MDOT's Field Manual for HMA may be used as a guide for the investigation. In the event that the Contractor's results are determined to be incorrect, the Engineer's results will be used for the quality control data and the appropriate payment for the mixture will be based on the procedures specified in Subsection 907-401.02.5.8(j).

The Engineer will periodically witness the sampling and testing being performed by the Contractor. The Engineer, both verbally and in writing, will promptly notify the Contractor of any observed deficiencies. When differences exist between the Contractor and the Engineer which cannot be resolved, a decision will be made by the State Materials Engineer, acting as the referee. The Contractor will be promptly notified in writing of the decision. If the deficiencies are not corrected,

the Engineer will stop production until corrective action is taken.

907-401.02.6.3--Acceptance Procedure for Mixture Quality. All obviously defective material or mixture will be subject to rejection by the Engineer. Such defective material or mixture shall not be incorporated into the finished work. If the defective material has already been placed in the work, the material shall be removed and replaced at no additional cost to the State.

The Engineer will base final acceptance of the asphalt mixture production on the results of the Contractor's testing for total voids and VMA @ N_{Design} , gradation, and asphalt content as verified by the Engineer in the manner hereinbefore described and the uniformity and condition of the completed pavement. Areas of pavement that exhibit non-uniformity or failures, materials or construction related, such as but not limited to segregation, bleeding, shoving, rutting over $\frac{1}{8}$ ", raveling, slippage, or cracking will not be accepted. Such areas will be removed and replaced at no additional cost to the State.

Bituminous mixture placed prior to correction for deficiencies in VMA and total voids @ N_{Design} , gradation, or asphalt content, as required in Subsection 907-401.02.5.8 and determined by the Engineer satisfactory to remain in place will be paid for in accordance with the following pay factors times the contract unit price per ton.

Pay Factor for Mixture Quality *

Item	Produced in Warning Bands	Produced Outside JMF Limits, Allowed to Remain in Place
Gradation	0.90	0.75
Asphalt Content	0.85	0.75
Total Voids @ N_{Design}	0.70	0.50
VMA @ N_{Design}	0.90	0.75

* The minimum single payment will apply.

907-401.02.6.4--Acceptance Procedure for Density. Each completed lift will be accepted with respect to compaction on a lot to lot basis from density tests performed by the Department. For normal production days, divide the production into approximately equal lots as shown in the following table. When cores are being used for the compaction evaluation, randomly obtain one core from each lot. When the nuclear density gauge is being used for compaction evaluation, obtain two random readings from each lot and average the results. See Chapter 7 of the latest edition of MDOT's Field Manual for HMA for more details. Additional tests may be required by the Engineer to determine acceptance of work appearing deficient. The Contractor shall furnish and maintain traffic control for all compaction evaluations, including coring, required in satisfying specified density requirements.

Lot Determination

<u>Daily Production - Tons</u>	<u>Number of Lots</u>
0 - 300	1
301 - 600	2
601 - 1000	3
1001 - 1500	4
1501 - 2100	5
2101 - 2800	6
2801+	7

907-401.02.6.4.1--Roadway Density. The density requirement for each completed lift on a lot to lot basis from density tests performed by the Department shall be as follows:

1. For all leveling lifts, when full lane width and with a thickness as specified in the table in Subsection 907-401.02.4, the required lot density shall be 92.0 percent of maximum density.
2. For all single lift overlays, with or without leveling and/or milling, the required lot density shall be 92.0 percent of maximum density.
3. For all multiple lift overlays of two (2) or more lifts excluding leveling lifts, the required lot density of the bottom lift shall be 92.0 percent of maximum density. The required lot density for all subsequent lifts shall be 93.0 percent of maximum density.
4. For all pavements on new construction, the required lot density for all lifts shall be 93.0 percent of maximum density.

When it is determined that the density for a lot is below the required density (93.0 percent or 92.0 percent) but not lower than 91.0 or 90.0 percent of maximum density, respectively, the Contractor will have the right to remove and replace the lot(s) not meeting the specified density requirements in lieu of accepting reduced payment for the lot(s).

When it is determined that the density for a lot is above 96.0 percent, the Engineer shall notify the Contractor who will make plant adjustments to resolve the problem.

When it is determined that the density for a lot is below 91.0 or 90.0 percent, respectively, the lot(s), or portions thereof shall be removed and replaced in accordance with Chapter 7 of the latest edition of MDOT's Field Manual for HMA at no additional cost to the State. A corrected lot will be retested for approval. No resampling will be performed when pavement samples are used for determining density.

At any time the average daily compaction (the total of the percent compaction for the lots produced in one day divided by the total number of lots for the day) does not meet the required percent compaction or more for two consecutive days, the Contractor shall notify the Engineer of proposed changes to the compactive effort. If the average daily compaction does not meet the

required percent compaction or more for a third consecutive day, the Contractor shall stop production until compaction procedures are established to meet the specified density requirements.

Each lot of work found not to meet the density requirement of 92.0% or 93% of maximum density, respectively, may remain in place with a reduction in payment as set out in the following tables:

**PAYMENT SCHEDULE FOR COMPACTION
OF 92.0 PERCENT OF MAXIMUM DENSITY**

<u>Pay Factor</u>	<u>Lot Density ** % of Maximum Density</u>
1.00	92.0 and above
0.90	91.0 - 91.9
0.70	90.0 - 90.9

** Any lot or portion thereof with a density of less than 90.0 percent of maximum density shall be removed and replaced at no additional cost to the State.

**PAYMENT SCHEDULE FOR COMPACTION
OF 93.0 PERCENT OF MAXIMUM DENSITY**

<u>Pay Factor</u>	<u>Lot Density *** % of Maximum Density</u>
1.00	93.0 and above
0.90	92.0 - 92.9
0.70	91.0 - 91.9

*** Any lot or portion thereof with a density of less than 91.0 percent of maximum density shall be removed and replaced at no additional cost to the State.

The compaction pay factors and mixture quality pay factor, as described in Subsection 907-401.02.6.3, will each apply separately. However, the combined pay factor shall not be less than 0.50 for any mixture allowed to remain in place.

907-401.02.6.4.2--Trench Widening Density. The density for trench widening on a lot to lot basis shall be determined from density tests performed by the Department using pavement samples (cores).

When it is determined that the density for a trench widening lot is below 89.0 percent but not lower than 88.0 percent of maximum density, the Contractor will have the right to remove and replace the lot(s) not meeting the specified density requirements in lieu of accepting reduced payment for the lot(s).

When it is determined that the density for a trench widening lot is above 95.0 percent, the Engineer shall notify the Contractor who will make plant adjustments to resolve the problem.

When it is determined that the density for a trench widening lot is below 88.0 percent, the lot(s), or portions thereof shall be removed and replaced in accordance with Chapter 7 of the latest edition of MDOT's Field Manual for HMA at no additional cost to the State. A corrected lot will be retested for approval. No resampling will be performed when pavement samples are used for determining density.

At any time the daily compaction (the total of the percent compaction for the lots produced in one day divided by the total number of lots for the day) does not meet 89.0 percent compaction or more for two consecutive days, the Contractor shall notify the Engineer of proposed changes to the compactive effort. If the average daily compaction does not meet 89.0 percent compaction or more for a third consecutive day, the Contractor shall stop production until compaction procedures are established to meet the specified density requirement.

Each lot of trench widening work found not to meet the density requirement of 91.0 percent of maximum density may remain in place with a reduction in payment as set out in the following table:

**PAYMENT SCHEDULE FOR COMPACTION
TRENCH WIDENING WORK**

<u>Pay Factor</u>	<u>Lot Density *** % of Maximum Density</u>
1.00	89.0 and above
0.50	88.0 - 88.9

*** Any lot or portion thereof with a density of less than 88.0 percent of maximum density shall be removed and replaced at no additional cost to the State.

The compaction pay factors and mixture quality pay factor, as described in Subsection 907-401.02.6.3, will each apply separately. However, the combined pay factor shall not be less than 0.50 for any mixture allowed to remain in place.

907-401.02.6.5--Blank.

907-401.02.6.6--Blank.

907-401.02.6.7--Surface Correction. Corrective work to sections exceeding short continuous interval thresholds reported by ProVal, as described in Subsection 907-403.03.2.1, shall consist of diamond grinding in accordance with these specifications or methods approved by the Engineer. All surface areas corrected by grinding shall be sealed with a sealant approved by the Engineer.

907-401.02.6.7.1--Diamond Grinding. Grinding of asphalt surfaces shall consist of diamond

grinding the existing asphalt pavement surface to remove surface distortions to achieve the specified surface smoothness requirements.

907-401.02.6.7.2--Equipment. The grinding equipment shall be a power driven, self-propelled machine that is specifically designed to smooth and texture pavement surfaces with diamond blades. The effective wheel base of the machine shall not be less than 12.0 feet. It shall have a set of pivoting tandem bogey wheels at the front of the machine and the rear wheels shall be arranged to travel in the track of the fresh cut pavement. The center of the grinding head shall be no further than 3.0 feet forward from the center of the back wheels.

The equipment shall be of a size that will cut or plane at least two feet (2') wide. It shall also be of a shape and dimension that does not encroach on traffic movement outside of the work area. The equipment shall be capable of grinding the surface without causing spalls at joints, or other locations.

907-401.02.6.7.3--Construction. The construction operation shall be scheduled and proceed in a manner that produces a uniform finish surface. Grinding will be accomplished in a manner to provide positive lateral drainage by maintaining a constant cross-slope between grinding extremities in each lane.

The operation shall result in pavement that conforms to the typical cross-section and the requirements specified in Subsection 907-401.02.6.7.4. It is the intent of this specification that the surface smoothness characteristics be within the limits specified.

The Contractor shall establish positive means for removal of grinding residue. Solid residue shall be removed from pavement surfaces before it is blown by traffic action or wind. Residue shall not be permitted to flow across lanes used by public traffic or into gutters or drainage facilities, but may be allowed to flow into adjacent ditches.

907-401.02.6.7.4--Finished Pavement Surface. The grinding process shall produce a pavement surface that is smooth and uniform in appearance with a longitudinal line type texture. The line type texture shall contain parallel longitudinal corrugations that present a narrow ridge corduroy type appearance. The peaks of the ridges shall not be more than 1/16 inch higher than the bottoms of the grooves.

The finished pavement surface will be measured for riding quality. The grinding shall produce a riding surface which does not exceed either the specified profile index or the specified bump and dip limit.

907-401.02.6.8--Acceptance Procedure for Pavement Smoothness Using Mean Roughness Index (MRI). When compaction is completed, the lift shall have a uniform surface and be in reasonably close conformity with the line, grade and cross section shown on the plans.

The smoothness of the surface lift will be determined by using an Inertial Profiling System (IPS) to measure and record roughness data in each designated location. Roughness data for each longitudinal profile will be reported as a Mean Roughness Index (MRI). MRI is calculated by

averaging the International Roughness Index (IRI) values from the two individual wheelpath profiles. The surface shall be tested and corrected to a smoothness index as described herein with the exception of those locations or specific projects that are excluded from smoothness testing with an IPS.

The smoothness of the surface lift will be determined for traffic lanes, auxiliary lanes, climbing lane and two-way turn lanes. Areas excluded from a smoothness test with the IPS are acceleration and deceleration lanes, tapered sections, transition sections for width, shoulders, crossovers, ramps, side street returns, etc. The roadway pavement on bridge replacement projects having 1,000 feet or less of pavement on each side of the structure will be excluded from a smoothness test. Pavement on horizontal curves having a radius of less than 1,000 feet at the centerline and pavement within the super elevation transition of such curves are excluded from smoothness testing. Smoothness testing shall terminate 264 feet from each transverse joint that separates the pavement from a bridge deck, bridge approach slab or existing pavement not constructed under the contract. This shall apply to any other exceptions including, but not limited to, railroad crossings and manholes. Segments containing a considerable amount of encroachments such as intersections, manholes, curb and gutter sections, etc. may be excluded at the Project Engineer's discretion.

Initial smoothness measurements shall take place no more than 72 hours following placement of surface and must be performed at the posted speed limit or 50 miles per hour (± 5 mile per hour), whichever is lower. This speed requirement will be waived for all lightweight profilers. Measurements will be made in both wheel paths of exterior and interior lanes. The wheel paths shall be designated as being located three feet (3') and nine feet (9') from centerline or longitudinal joint, respectively. Beginning and ending latitude and longitude coordinates shall be required on each smoothness surface test. Testing will also be required on sections that have been surface corrected. No smoothness testing shall be performed when there is moisture of any kind on the pavement surface. Any additional testing shall meet the requirements of Subsection 907-403.03.2.

The surface lift will be accepted on a continuous interval basis for pavement smoothness. Continuous reporting is based upon all MRI values for a specified running interval. These values are averaged and presented at the midpoint of the specified running interval. The last 15 feet of a day's lift may not be obtainable until the lift is continued and for this reason may be included in the subsequent section.

Areas of localized roughness exceeding the continuous 25-foot interval threshold described in Subsection 907-403.03.2.1 shall be corrected regardless of the 528-foot interval MRI value of the section. Surface correction by grinding shall be performed in accordance with Subsection 907-401.02.6.7. The Contractor shall also make other necessary surface corrections to ensure that the final mean roughness index of the section meets the requirements of Subsection 907-403.03.2.

Continuous sections exceeding the accepted long interval MRI value shall be corrected as specified in Subsection 403.03.4. All such corrections shall be performed at no additional costs to the State. Scheduling and traffic control will be the responsibility of the Contractor with

approval of the Engineer. All tests and corrections shall be in accordance with AASHTO R 54-10, Accepting Pavement Ride Quality When Measured Using Inertial Profiling Systems.

907-401.02.6.9--High Speed Inertial Profiling System.

907-401.02.6.9.1--General. The IPS, furnished and operated by the Contractor under the supervision of the Engineer or the Engineer's representative, shall be a dual laser high speed or lightweight vehicle meeting the requirements of AASHTO M 328-10, Standard Specification for Inertial Profiler.

907-401.02.6.9.2--Mechanical Requirements. The IPS should function independent of vehicle suspension and speed with an operational range of 15-70 mph (for high speed profilers only) and must collect data at a sample interval of no more than three inches (3"). All IPSs, operators, and combinations thereof shall be verified in accordance with AASHTO R 56-10, Standard Practice for Certification of Inertial Profiler Systems and AASHTO R 57-10, Operating Inertial Profiler Systems.

907-401.02.6.9.3--Computer Requirements. The computer measurement program must be menu driven, Windows compatible, and able to produce unfiltered profiler runs in any one of the following file formats: University of Michigan's Transportation Research Institute's (UMTRI) Engineering Research Division (*.erd) file, ProVAL's Pavement Profile (*.ppf) file, or Ames Engineering's (*.adf) file format. The computer shall have the ability to display and print data on site for verification and shall have the ability to save and transfer data via Universal Serial Bus (USB) flash drive, which shall be provided by the Contractor.

All profiler runs must be named in the following format for acceptance by the Project Engineer:

- County_Route_Direction_Lane_BeginStation_EndStation

In addition to manufacturers software; the latest version of FHWA's ProVAL software shall be installed on the IPS computer. ProVAL software is available for free download at <http://www.roadprofile.com>.

907-401.02.7--Nuclear Gauges.

907-401.02.7.1--Nuclear Moisture-Density Gauge. The nuclear gauge unit used to monitor density shall contain a full data processor which holds all calibration constants necessary to compute and directly display wet density, moisture, and dry density in pounds per cubic foot. The data processor shall compute and display the percent moisture and percent density based on dry weight.

907-401.02.7.2--Nuclear Asphalt Content Gauge. The Contractor shall furnish and calibrate, unless designated otherwise in the contract, a Troxler Nuclear Asphalt Content Gauge Model 3241 or updated model, or a Campbell Nuclear Asphalt Content Gauge Model AC-2 or an approved equal.

907-401.03--Construction Requirements. Mississippi DOT has adopted the "Hot-Mix Asphalt

Paving Handbook” as the guideline for acceptable asphalt construction practices.

907-401.03.1--Specific Requirements.

907-401.03.1.1--Weather Limitations - General. The mixture shall not be placed when weather conditions prevent the proper handling and finishing or the surface on which it is to be placed is wet or frozen.

When paving operations are discontinued because of rain, the mixture in transit shall be protected until the rain ceases. The surface on which the mixture is to be placed shall be swept to remove as much moisture as possible and the mixture may then be placed subject to removal and replacement at no additional cost to the State if contract requirements are not met.

907-401.03.1.1.1--Weather Limitations For HMA. At the time of placement, the air and pavement surface temperature limitations shall be equal to or exceed that specified in the following table.

TEMPERATURE LIMITATIONS

Compacted Thickness	Temperature
Less than 1½ inches	55°F
1½ inches to 2 inches	50°F
2¼ inches to 3 inches	45°F
Greater than 3 inches	40°F

907-401.03.1.1.2--Weather Limitations For WMA. The air and pavement temperature at the time of placement shall equal or exceed 40°F, regardless of compacted lift thickness.

907-401.03.1.2--Tack Coat. Tack coat shall be applied to previously placed asphalt and between lifts, unless otherwise directed by the Engineer. Tack coat shall be applied with a distributor spray bar. A hand wand will only be allowed for applying tack coat on ramp pads, irregular shoulder areas, median crossovers, turnouts, or other irregular areas. Bituminous materials and application rates for tack coat shall be as specified in Table 410-A on page 293. Construction requirements shall be in accordance with Subsection 407.03 of the Standard Specifications.

907-401.03.1.3--Blank.

907-401.03.1.4--Density. The lot density for all dense graded pavement lifts, except as provided below for preleveling, wedging [less than fifty percent (50%) of width greater than minimum lift thickness], ramp pads, irregular shoulder areas, median crossovers, turnouts, or other areas where the established rolling pattern cannot be performed, shall not be less than the specified percent (92.0% or 93.0%) of the maximum density based on AASHTO Designation: T 209 for the day’s production. For all leveling lifts, when full lane width and with a thickness as specified in the table in Subsection 907-401.02.4, the required lot density shall be 92.0 percent of maximum

density. If a job-mix formula adjustment is made during the day which affects the maximum specific gravity, calculate a new average maximum density for the lot(s) placed after the change.

Pavement core samples obtained for determining density which has a thickness less than two times the maximum size aggregate permitted by the job-mix formula will not be used as a representative sample.

Preleveling, wedging (less than fifty percent of width greater than minimum lift thickness), ramp pads, irregular shoulder areas, median crossovers, turnouts, and other areas where an established rolling pattern cannot be obtained shall be compacted to refusal densification.

907-401.03.2--Bituminous Mixing Plants.

907-401.03.2.1--Plant Requirements.

907-401.03.2.1.1--Cold Aggregate Storage. The cold storage for hydrated lime shall be a separate bulk storage bin with a vane feeder or other approved feeder system which can readily be calibrated. The system shall provide a means for easy sampling of the hydrated lime additive and verifying the quantity of lime dispensed. The feeder system shall require a totalizer.

The hydrated lime additive equipment shall be interlocked and synchronized with the cold feed controls to operate concurrently with the cold feed operation which will automatically adjust the hydrated lime feed to variations in the cold aggregate feed. A positive signal system shall be installed which will automatically shut the plant down when malfunctions cause an improper supply of hydrated lime or water.

The plant shall not operate unless the entire hydrated lime system is functioning properly.

907-401.03.2.1.2--Cold Aggregate Feed. The hydrated lime shall be dispensed dry or as a slurry directly onto the composite aggregate between the cold feed and the dryer. The slurry shall consist of 1 part hydrated lime to 3 parts water.

When hydrated lime is introduced dry, a spray bar or other approved system capable of spraying all aggregate with water shall be installed in order to maintain all aggregate at the moisture condition set out in Subsection 907-401.02.3.1 prior to addition of the hydrated lime. An alternate system for spraying the coarse aggregate stockpiles may be allowed when approved by the Engineer. The approved equipment and methods shall consistently maintain the aggregate in a uniform, surface wet condition. The moisture content of the aggregate-hydrated lime mixture, following spraying and mixing, shall be introduced into the automatic moisture controls of the plant.

The aggregate-hydrated lime mixture shall be uniformly blended by some mechanical means such as a motorized "on the belt" mixer or pug mill located between the cold feed and the dryer. Other mixing devices may be used subject to approval by the Engineer.

A maximum of forty five (45) percent of the total aggregate blend may be fed through any single

cold feed bin. If the JMF calls for more than forty five (45) percent of a specific aggregate, that aggregate must be fed through two (2) or more separate cold feed bins.

907-401.03.2.1.3--Dryer. The efficiency of drying aggregates shall be such that the moisture content of the top asphalt mixture shall not exceed 0.50 percent by weight of the total mixture, and the moisture content of all the underlying mixtures shall not exceed 0.75 percent by weight of the total mixture being produced.

907-401.03.2.1.4--Blank.

907-401.03.2.1.5--Control of Bituminous Material and Antistripping Agent. Specified bituminous materials from different manufacturers or from different refineries of a single manufacturer shall not be mixed in the plant's asphalt cement supply system storage tank and used in the work without prior written approval of the Engineer. Approval is contingent upon the Engineer's receipt of three copies of the manufacturer's certified test report(s) from the Contractor showing that the bituminous material blend conforms to the specifications.

A satisfactory method of weighing or metering shall be provided to ensure the specified quantity of bituminous material. Provisions shall be provided for checking the quantity or rate of flow. Weighing or metering devices shall be accurate within plus or minus one-half percent.

The antistripping agent shall be injected into the bituminous material immediately prior to the mixing operation with an approved in-line injector system capable of being calibrated so as to ensure the prescribed dosage.

An in-line spigot for sampling of asphalt shall be located between the asphalt storage tank and the antistripping agent in-line injector.

907-401.03.2.1.6--Thermometric Equipment. An armored thermometer of adequate range and calibrated in 5°F increments shall be fixed at a suitable location in the bituminous line near the charging valve of the mixer unit.

The plant shall be equipped with an approved dial-scale, mercury-actuated thermometer, pyrometer or other approved thermometric instrument placed at the discharge chute of the dryer to measure the temperature of the material.

When the temperature control is unsatisfactory, the Engineer may require an approved temperature-recording apparatus for better regulation of the temperature.

907-401.03.2.1.7--Screens. A scalping screen shall be used.

907-401.03.2.1.8--Dust Collector. The plant shall be equipped with a dust collector constructed to waste or return collected material. When collected material is returned, it shall be returned through a controlling device which will provide a uniform flow of material into the aggregate mixture.

907-401.03.2.1.9--Safety Requirements. A platform or other suitable device shall be provided so the Engineer will have access to the truck bodies for sampling and mixture temperature data.

907-401.03.2.1.10--Blank.

907-401.03.2.1.11--Truck Scales. The specifications, tolerances and regulations for commercial weighing and measuring devices as recommended by the National Bureau of Standards [National Institute of Standards and Technology (NIST) Handbook 44] shall govern truck scales used in the State of Mississippi, except weighing devices with a capacity of ten thousand (10,000) pounds or more used to weigh road construction materials (i.e. sand, gravel, asphalt, fill dirt, topsoil and concrete) shall have a tolerance of one-half of one percent (1/2 of 1%) in lieu of the requirements of Handbook 44 and shall be regulated by the Mississippi Department of Transportation.

Scales shall be checked and certified by a scale company certified in heavy truck weights by the Mississippi Department of Agriculture and Commerce. In the case of scales used for measurement of materials on Department of Transportation projects, certification shall be performed in the presence of an authorized representative of the Department or a copy of the certification may be furnished for scales that have been checked and certified within the last six months for use on other Department of Transportation projects and are still in the position where previously tested. Scales that have not been checked and certified under NIST Handbook 44 guidelines, except for the herein modified tolerances allowed, shall be so checked and certified prior to use for measurement of materials on Department of Transportation projects. Tests shall be continued on six month intervals with the test conducted in the presence of an authorized representative of the Department.

Truck scales shall be accurate to one-half of one percent of the applied load, shall be sensitive to 20 pounds, and shall have a graduation of not more than 20 pounds.

The Contractor may use an electronic weighing system approved by the Engineer in lieu of truck scales. The system shall be equipped with an automatic print out system which will print a ticket for each load with the following information:

MDOT, Contractor's name, project number, county, ticket number, load number, pay item number, item description of the material delivered, date, time of day, haul vehicle number, gross weight, tare weight, net weight and total daily net weight.

When approved by the Engineer and materials are measured directly from a storage bin equipped with load cells, exceptions may be made to the gross and tare weight requirements.

The ticket shall also have a place for recording the temperature of asphalt mixtures, if applicable, and the signatures of MDOT's plant and roadway inspectors. The load numbers for each project shall begin with load number one (1) for the first load of the day and shall be numbered consecutively without a break until the last load of the day. The Contractor shall provide MDOT with an original and one copy of each ticket. When the ticket information provided by the Contractor proves to be unsatisfactory, MDOT will use imprinter(s) and imprinter tickets to

record load information. All recorded weights shall be in pounds and shall be accurate to within one-half of one percent of the true weight, and the system shall be sensitive to 20 pounds. The Engineer will require random loads to be checked on certified platform scales at no cost to the Department.

When an electronic weighing system utilizes the plant scales of a batch plant, the system may be used only in conjunction with a fully automatic batching and control system.

907-401.03.2.2--Additional Requirements for Batching Plants.

907-401.03.2.2.1--Plant Scales. The plant batch scale weight shall not exceed the platform scale weight by more than one percent (1.0%).

907-401.03.2.3--Additional Requirements for Drum Mixing Plants.

907-401.03.2.3.1--Plant Controls. The plant shall be operated with all the automatic controls as designed and provided by the plant manufacturer. If the automatic controls malfunction, brief periods of manual operations to complete the day's work or to protect the work already placed may be conducted with the approval of the Engineer. During manual operation, the Contractor must continue to produce a uniform mixture meeting all contract requirements.

907-401.03.2.3.2--Aggregate Handling and Proportioning. A screening unit shall be placed between the bins and the mixer to remove oversized aggregate, roots, clayballs, etc.

907-401.03.2.4--Surge or Storage Bins. Surge and/or storage systems may be used at the option of the Contractor provided each system is approved by the Department prior to use. Surge bins shall be emptied at the end of each day's operation. Storage silos may be used to store mixtures as follows:

19-mm & 25-mm mixtures	24 hours
9.5-mm & 12.5-mm mixtures	36 hours

The storage silos must be well sealed, completely heated and very well insulated. The mixture when removed from the storage silo shall be tested to ensure that it meets all the same specifications and requirements as the mixture delivered directly to the paving site. See Subsection 907-401.02.5.3, subparagraph (i) for sampling and testing requirements.

907-401.03.3--Hauling Equipment. The inside surfaces of each vehicle bed shall be coated with a light application of water and thin oil, soap solution, lime water solution or other approved material to prevent the mixture from sticking. Diesel fuel or gasoline shall not be used to lubricate vehicle beds. Truck beds shall be raised to drain excessive lubricants before placing mixture in the bed. An excess of lubricant will not be permitted.

907-401.03.4--Bituminous Pavers. The screed or strikeoff assembly shall be capable of vibrating and heating the full width of the mixture being placed and shall lay the lift with an automatic control device to the specified slope and grade without tearing, pulling or gouging the

mixture surface.

907-401.03.5--Rollers. All rollers shall be self-propelled units capable of maintaining a smooth and uniform forward and reverse speed as required for proper compaction. They shall be equipped with adjustable scrapers, water tanks, mats and a device for wetting the wheels or tires to prevent the mixture from sticking. Adhesion of the mixture to the rollers will not be permitted. The use of diesel fuel or gasoline for cleaning roller wheels or tires or to aid in preventing the mixture from sticking to the wheels or tires is prohibited.

All rollers shall be in good mechanical condition, free from leaking fuels and lubricants, loose link motion, faulty steering mechanism, worn king bolts and bearings. They shall be operational at slow speeds to avoid displacement of the mixture and capable of reversing direction smoothly and without backlash.

907-401.03.6--Preparation of Grade. The foundation upon which asphalt pavement is to be placed shall be prepared in accordance with the applicable Section of the Standard Specification.

Unless otherwise directed, tack coat shall be applied to the underlying surface on which the mixture is to be placed. Emulsions, if used, must be allowed to "break" prior to placement of the bituminous mixture.

Bituminous mixture shall not be placed against the edge of pavements, curbs, gutters, manholes and other structures until sprayed with a thin uniform tack coating. The tack coat shall be protected until the mixture has been placed.

Existing asphalt pavements that require preliminary leveling or patching in advance of placing the bituminous mixture shall be sprayed with a tack coat material and then brought as nearly as practicable to uniform grade and cross section. The material shall be placed by hand or machine in one or more compacted layers approximately two (2) inches or less in compacted thickness.

907-401.03.7--Blank.

907-401.03.8--Preparation of Mixture.

907-401.03.8.1--Preparation of Mixture For HMA. The temperature of the mixture, when discharged from the mixer, shall not exceed 340°F.

907-401.03.8.2--Preparation of Mixture For WMA. Warm mix asphalt is defined as a plant produced asphalt mixture that can be produced and constructed at lower temperatures than typical hot mix asphalt. Typical temperature ranges of non-polymer modified, WMA produced by foaming the asphalt binder at the plant are typically 270°F to 295°F at the point of discharge of the plant. Typical temperature ranges of polymer modified, WMA produced by foaming the asphalt binder at the plant are typically 280°F to 305°F at the point of discharge of the plant. WMA produced by addition of a terminal blended additive may allow the producer to reduce the temperatures below 270°F as long as all mixture quality and field density requirements are met. Production temperatures at the plant may need to be increased or decreased due to factors such as

material characteristics, environmental conditions, and haul time to achieve mixture temperatures at the time of compaction in which uniform mat density can be achieved.

907-401.03.9--Material Transfer Equipment. Excluding the areas mentioned below, the material transferred from the hauling unit when placing the top lift, or the top two (2) lifts of a multi-lift asphalt pavement with density requirements, shall be remixed prior to being placed in the paver hopper or insert by using an approved Materials Transfer Device. Information on approved devices can be obtained from the State Construction Engineer. Areas excluded from this requirement include: leveling courses, temporary work of short duration, detours, bridge replacement projects having less than 1,000 feet of pavement on each side of the structure, acceleration and deceleration lanes less than 1,000 feet in length, tapered sections, transition sections for width, shoulders less than 10 feet in width, crossovers, ramps, side street returns and other areas designated by the Engineer.

907-401.03.10--Spreading and Finishing. Grade control for asphalt pavements shall be established by stringline at least 500 feet ahead of spreading, unless placement is adjacent to curb and gutter, concrete pavement, or other allowed grade control.

The mixture shall be spread to the depth and width that will provide the specified compacted thickness, line, grade and cross section. Placing of the mixture shall be as continuous as possible. On areas where mechanical spreading and finishing is impracticable, the mixture may be spread, raked and luted by hand tools.

Immediately after screeding and prior to compaction, the surface shall be checked by the Contractor and irregularities adjusted. When the edge is feathered as in a wedge lift, it may be sealed by rolling. Irregularities in alignment and grade along the edges shall be corrected before the edges are rolled.

Hauling, spreading and finishing equipment shall be furnished that is capable of and operated in such a manner that the rolling operation will satisfactorily correct any surface blemishes.

The longitudinal joint in the subsequent lift shall offset that in the underlying lift by approximately six (6) inches. However, the joint in the top lift shall be at the centerline or lane line.

907-401.03.11--Compaction. After the mixture has been spread and surface irregularities corrected, it shall be thoroughly and uniformly compacted to the required line, grade, cross section and density.

907-401.03.12--Joints. Joints between previously placed pavement and pavement being placed shall be so formed as to insure thorough and continuous bond.

Transverse construction joints shall be formed by cutting the previously placed mixture to expose the full depth of the lift.

The contact surface of transverse joints and longitudinal joints, except hot joints, shall be sprayed

with a thin uniform tack coating before additional mixture is placed against the previously placed material.

Longitudinal joints shall be formed by overlapping the screed on the previously placed material for a width of at least one (1) inch and depositing the quantity of mixture to form a smooth, tight joint.

Joint Sealant. When a pay item for 907-403-S, Joint Sealant, is included in the contract, the contact surface of transverse joints and longitudinal joints in the surface lift, except hot joints, shall be sealed by spraying a thin, uniform coat of PavonTM, CrafcoTM Pavement Joint Adhesive No. 34524, Dura-Fill Cold Joint Adhesive, or approved equal, prior to placement of additional asphalt against the previously placed material. Manufacturer's recommendations shall be followed if the material needs to be re-heated, and when placing the thin, uniform coat.

Prior to application of the sealant, the face of the joint shall be thoroughly dry and free from dust or any other material that would prevent proper sealing. All joints shall be swept or blown free of loose material, dirt, vegetation, and other debris by means of compressed air or a power sweeper.

Truck and vehicle traffic shall not drive across a sealed joint until it has dried sufficient to prevent damage from tracking.

The Contractor shall furnish the Engineer three copies of the manufacturer's certification stating that the material used meets the requirement of the specifications.

907-401.03.13--Pavement Samples. The Contractor shall cut samples from each lift of asphalt at the time and locations designated by the Engineer. The samples shall be taken for the full depth of each lift and shall be of a size approved by the Engineer but not to exceed 120 square inches. Tools used for cutting or coring of samples shall be of the revolving blade type such as saw or core drill. Cores shall be taken using a 4.0 to 6.0-inch inside diameter coring bit. The sample hole shall be filled, compacted and finished by the Contractor to conform with the surrounding area. No additional compensation will be allowed for furnishing samples and repairing the areas with new pavement.

907-401.03.14--Shoulder Wedge. The Contractor shall attach a device to the screed of the paver that confines the material at the end gate and extrudes the asphalt material in such a way that results in a compacted wedge shape pavement edge of approximately 30 degrees, but not steeper than 35 degrees. The device shall maintain contact between itself and the road shoulder surface and allow for automatic transition to cross roads, driveways, and obstructions. The device shall be used to constrain the asphalt head reducing the area by 10% to 15% increasing the density of the extruded profile. Conventional single plate strike off shall not be used.

The device shall be TransTech Shoulder Wedge Maker, the Advant-Edge, or a similar approved equal device that produces the same wedge consolidation results. Contact information for these wedge shape compaction devices is the following.

1. TransTech Systems, Inc.
1594 State Street
Schenectady, NY 12304
800-724-6306
www.transtechsys.com
2. Advant-Edge Paving Equipment, LLC
P.O. Box 9163
Niskayuna, NY 12309-0163
518-280-6090
Contact; Gary D. Antonelli
Cell: 518-368-5699
email: garya@nycap.rr.com
Website: www.advantedgepaving.com

Before using a similar device, the Contractor shall provide proof that the device has been used on previous projects with acceptable results, or construct a test section prior to the beginning of work and demonstrate wedge compaction to the satisfaction of the Engineer. Short sections of handwork will be allowed when necessary for transitions and turnouts, or otherwise authorized by the Engineer.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-403-14

CODE: (SP)

DATE: 12/02/2014

SUBJECT: Asphalt Pavements

Section 403, Asphalt Pavements, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is deleted and replaced as follows.

SECTION 907-403 - ASPHALT PAVEMENTS

907-403.01--Description. This work consists of constructing one or more lifts of asphalt pavement meeting the requirements of Section 907-401 on a prepared surface in accordance with the requirements of this section and in reasonably close conformity with the lines, grades, thicknesses, and typical cross sections shown on the plans or established by the Engineer. This work shall also include applicable in-grade preparation of the underlying course in accordance with Section 321.

The Contractor must select one of the asphalt mixture processes (HMA or WMA) to be used on this project.

907-403.02--Material Requirements. Materials and their use shall conform to the applicable requirements of Subsection 907-401.02.

907-403.03--Construction Requirements.

907-403.03.1--General. Construction requirements shall be as specified in Subsection 907-401.03, except as otherwise indicated in this section or applicable special provisions.

907-403.03.2--Smoothness Tolerances. Except as noted herein, the finished smoothness of each lift shall conform to the designated grade and cross section within the following tolerances from grade stakes or other grade reference points set at 25-foot intervals:

	Lower* & Leveling Lifts	Lower* Intermediate Lift	Top Intermediate Lift	Surface Lift
Maximum deviation from grade and cross section at any point	1/2"	3/8"	1/4"	1/4"
Maximum deviation from A 10 foot straight edge.....	3/8"	1/4"	1/8"	1/8"

Note: Where more than four (4) lifts of asphalt are required, all lifts, excluding the top three (3) lifts, shall meet the requirements of the lower lift.

- * When tested longitudinally from a stringline located equidistant above points 50 feet apart, the distance from the stringline to the surface at any two points located 12½ feet apart shall not vary one from the other more than the maximum deviation allowed above from a 10-foot straight edge.

Grade stakes or other grade reference points set at 25-foot intervals and maximum deviation from grade and cross section will not be required provided an approved profile averaging device is furnished and properly used for the four conditions set forth herein; however, all other surface requirements are applicable.

- (a) Overlays with one overall lift.
- (b) Overlays with two or more overall lifts -- for each lift above the first overall lift provided each underlying overall lift is within the allowable tolerances.
- (c) Surface lift of new construction provided the underlying lift is within the allowable tolerances.
- (d) Full-depth asphalt construction for lifts above the lower lift provided the lower lift is within the specified tolerances for the lower intermediate lift.

In the placement of full depth asphalt pavement, where the chemically treated base is constructed, graded and/or trimmed, full lane width, to a surface tolerance of $\pm 3/8$ inches from design grade, stringline grade controls may be eliminated for the placement of the asphalt drainage course and all asphalt lifts. In addition, where the base course is crushed stone or crushed concrete and is constructed to a surface tolerance of $\pm 3/8$ inches from design grade using a stringline controlled spreader, stringline grade controls may be eliminated for the placement of the asphalt drainage course and all asphalt lifts.

All other tolerances as specified in Section 321 are applicable, except for bases, when tested longitudinally, the maximum deviation when measured at the 12½-foot midpoint shall be $\pm 3/8$ inches.

Acceptance and payment of asphalt will be determined on a lot to lot basis by cores taken from the completed pavement as outlined in Subsection 907-403.03.3.

Approved contacting type profile averaging devices are those devices capable of working in conjunction with a taut string or wire set to grade, or ski-type device with extreme contact points with the surface at least 30 feet apart. Approved non-contacting type profile averaging devices are laser type ski devices with at least four referencing mobile stations at a minimum length of 24 feet, or an approved equal.

When approved by the Engineer, a short ski or shoe may be substituted for a long ski on the

second paving operation working in tandem.

During the finishing and compacting of pavement lifts, it shall be the responsibility of the Contractor to check the surface and joints for progress toward conformance to surface requirements set forth herein. Variations from surface requirements exceeding the allowable tolerances shall be corrected at the Contractor's expense.

When a portland cement concrete pavement is to be placed on an asphalt lift, the finished top of the asphalt lift shall meet the requirements of Sections 32l and 50l.

Sections(s) or portions thereof representing areas excluded from a smoothness test with the High Speed Inertial Profiling System (IPS) shall also be excluded from consideration for a contract price adjustment for rideability.

Any contract price adjustment for rideability will be applied on a continuous basis to the pay tonnage, determined in accordance with Subsections 907-401.02.6.8 and 907-403.04, for the section(s) or portions thereof for which an adjustment is warranted.

Contract price adjustments for rideability shall only be applicable to the surface lift and furthermore to only the long continuous section(s) or portions of the long continuous section(s) of the surface lift that require smoothness be determined by using a profiling device.

907-403.03.2.1--Smoothness Tolerances for Mean Roughness Index (MRI). Smoothness tolerances shall be applied to asphalt pavements based on the following pavement categories.

Category A applies to the following pavement constructions:

- New construction
- Construction with three (3) or more lifts
- Mill and two (2) or more lifts

Category B applies to the following pavement constructions:

- Mill and one (1) lift
- Two (2) lift overlays without milling

Category C applies to the following pavement constructions:

- Single lift overlay without milling
- All 57,650-pound routes regardless of the pavement construction

Additional projects may qualify for Category C construction at the department's discretion. Spot Leveling does not count as a lift. Full width / continuous leveling courses that have a minimum thickness of $\frac{3}{4}$ " across the entire lane width will be considered a lift.

Category A projects shall have a long continuous interval (528-foot) surface MRI of not more than 60 inches per mile.

Category B projects shall have a long continuous interval (528-foot) surface MRI of not more than 70 inches per mile.

Category C projects shall have the existing surface profiled at no additional cost to the State. These projects shall be measured by a long fixed interval (528-foot) surface MRI and meet the higher value of the following requirements:

A 50% improvement in MRI from the existing surface
OR
80 inches per mile

In the case that 50% of the existing surface MRI is greater than 80 inches per mile, the short continuous threshold shall be increased from 160 inches per mile by the difference between 50% of the existing surface MRI and 80 inches per mile.

For all projects, areas of the surface lift with localized roughness greater than 160 inches per mile as determined by the continuous short interval (25') report will be identified for correction by the Project Engineer.

When a project has multiple lifts, the lift underlying the surface lift shall have a MRI of no more than 10 inches/mile more than the surface lift threshold for both long and short continuous intervals. Category B projects containing multiple lifts must meet the Category C percent improvement requirement for the underlying lift. Corrective action must be taken on those segments that do not meet this requirement. No unit price adjustment will be applied on any underlying lift.

For Category A and B projects, a unit price increase will be added when the MRI for the final surface lift, prior to any required localized roughness (short interval) corrective action, is less than or equal to fifty inches per mile (50.0 inches / mile) on the long interval report. These Projects will be considered for incentive pay based on the following guidelines for the long interval surface lift MRI.

Mean Roughness Index inches / mile	Contract Price Adjustment Percent of Asphalt Unit Bid Price
Less than 35.0	108
35.1 to 40.0	106
40.1 to 45.0	104
45.1 to 50.0	102
50.1 to Required Surface MRI	100

In addition to the above pay incentive factors, a project may be subject to a disincentive when the Long Continuous Interval MRI for the surface exceeds the allowable tolerance.

Mean Roughness Index (inches / mile)	Contract Price Adjustment Percent of Asphalt Unit Bid Price
Above 20.0 Over	REMOVE AND REPLACE
15.1 to 20.0 Over	80
10.1 to 15.0 Over	85
5.1 to 10.0 Over	90
0.1 to 5.0 Over	95
Required Surface MRI	100

For Category C projects, segments may be subject to a disincentive when the Fixed Interval MRI for the surface does not meet the minimum requirements.

Percent Improvement MRI (inches/mile)	Contract Price Adjustment Percent of Asphalt Unit Bid Price
Below 30 Percent	REMOVE AND REPLACE
30.1 to 35.0 Percent	80
35.1 to 40.0 Percent	85
40.1 to 45.0 Percent	90
45.1 to 50.0 Percent	95
Above 50%	100

Segment(s) or portions thereof representing areas excluded from a smoothness test shall also be excluded from consideration for a contract price adjustment for rideability. Where a segment less than 528 feet occurs at the end of a section, it will be combined with the preceding 528-foot segment for calculation of MRI. Corrective action must be taken on those sections that exceed the 'Remove and Replace' threshold as directed by the Project Engineer. The minimum remove and replace length will be 528 feet (0.1 mile). Additional smoothness testing shall be required on sections following replacement and will be required to meet *at least* the maximum surface MRI short of 'Remove and Replace' tolerance.

The above pay factors will be applied in conjunction with the Long Continuous Histogram Chart from ProVAL's Smoothness Assurance Module. The price adjustments for rideability will be tabulated in MDOT's Pay Incentive spreadsheet on the basis of a theoretical tonnage of 110 lbs/yd² * inch thickness (pounds per square yard * inch thickness) determined in accordance with Subsections 907-401.02.6.5 and 907-403.04, for the segment(s) or portions thereof for which an adjustment is warranted.

907-403.03.3--Thickness Requirements. Asphalt overlay lifts shall be constructed as nearly in accordance with the thickness shown on the plans as the underlying pavement and foundation will permit. Periodic and cumulative yield tests will be made to determine practicable conformity to the thickness of each lift. The Engineer may order modifications in placement thicknesses to prevent unwarranted variations in plan quantities.

When the paver is operating off an established grade line, no thickness determination will be

required for the various lifts of pavement. It is understood that the tolerances from design grade will control the thickness requirements.

When grade stakes are eliminated by Notice to Bidders or as outlined in Subsection 907-403.03.2(d) and where resulting in the placement of two (2) or more lifts, acceptance and payment will be determined on a lot to lot basis by cores taken from the completed pavement. Lots will be coincidental with acceptance lots for the surface lift as provided in Subsection 907-401.02.6.4, except that only lots resulting from the placement of mainline surface lift will be used for thickness assessment. One core will be obtained at random from each lot. Irregular areas will not be cored.

When the average thickness of all the cores from the lots representing a day's production, excluding any discarded by the Engineer for justifiable reason, is within three-eighths of an inch ($3/8''$) of the total pavement thickness shown on the plans, excluding lift(s) placed using an established grade line, corrective action will not be required and a price adjustment will not be made for non-conformity to specified thickness.

When the average thickness of all the cores from the lots representing a day's production is deficient in thickness by more than three eighths of an inch ($3/8''$) of the total pavement thickness shown on the plans, excluding lift(s) placed using an established grade line, the deficiency shall be corrected by overlaying the entire length of the day's production. The thickness of the overlay shall be equal to the thickness deficiency but no less than the minimum single lift laying thickness for the specified mixture.

When the thickness of all the cores from the lots representing a day's production is more than three eighths of an inch ($3/8''$) thicker than the total thickness shown on the plans, excluding lift(s) placed using an established grade line, a price adjustment will be made in accordance with Subsection 907-403.05.1.

The cores shall be cut and removed by the Contractor in the presence of the Engineer's representative and turned over to the Engineer's representative for further handling. The Contractor shall fill each core hole with surface lift mixture and compact to the satisfaction of the Engineer within 24 hours after coring.

907-403.03.4--Lift Corrections. Pavement exceeding the allowable surface tolerances shall be corrected at the Contractor's expense by the following methods:

Lower, Leveling and Lower Intermediate Lifts:

- (a) Removal or addition of mixture by skin patching, feather edging, wedge lift construction or full depth patching where appropriate and can be completed in a satisfactory manner.
- (b) Superimposing an additional layer which shall be an approved grade raise for the full roadway width and length of the area to be corrected.

Top Intermediate Lift:

- (a) Removal and the addition of sufficient mixture to provide the specified thickness. Corrections by this method shall be square or rectangular in shape and shall completely cover the area to be corrected.
- (b) Superimposing an additional layer of minimum lift thickness for mixture being used which shall be an approved grade raise for full roadway width of the area to be corrected. Transverse joints shall be perpendicular to the centerline of the pavement.

Surface Lift:

- (a) Removal and the addition of sufficient mixture to provide new material of at least minimum single lift laying thickness for full lane width of the area to be corrected. Transverse joints shall be perpendicular to the centerline of the lane.
- (b) Superimposing an additional layer (minimum lift thickness for mixture being used) which shall be an approved grade raise for full roadway width of the area to be corrected. Transverse joints shall be perpendicular to the centerline of the pavement.

All mixtures used in the correction of unacceptable pavement shall be approved by the Engineer prior to use.

907-403.03.5--Overlays or Widening and Overlays. In addition to the requirements of Subsections 907-403.03.1 through 907-403.03.4, the following requirements will be applicable when an existing pavement is to be overlaid or widened and overlaid.

907-403.03.5.1--Blank.

907-403.03.5.2--Sequence of Operations. In order to expedite the safe movement of traffic and to protect each phase of the work as it is performed, a firm sequence of operations is essential. Unless otherwise provided in the traffic control plan and/or the contract, the following appropriate items of work shall be begun and continually prosecuted in the order listed:

- (a) In sections designated by the Engineer, trim the shoulders along the pavement edges to provide drainage from the pavement.
- (b) Perform pre-rolling to locate areas of pavement with excessive movement per Section 511.
- (c) Perform selective undercutting and patching as directed per Subsection 907-403.03.5.4.
- (d) Perform pressure grouting as specified in Section 512.
- (e) Clean and seal joints per Section 413.
- (f) Complete preparation on one side of roadway to be widened and place widening

materials.

- (g) Reconstruct shoulders to elevation necessary to assure traffic safety.
- (h) Open the widened section to traffic.
- (i) Complete above work for other side of roadway.
- (j) Perform preliminary leveling as directed.
- (k) Apply interlayer as specified.
- (l) Place the first overall leveling lift.
- (m) After the first overall leveling lift, reconstruct shoulders as necessary to eliminate vertical differentials which may be hazardous to traffic.
- (n) Place first intermediate lift.
- (o) Construct shoulders to the contiguous elevation of the first intermediate lift.
- (p) Place remaining intermediate lift, if required.
- (q) Place surface lift.
- (r) Complete construction of shoulders.
- (s) Apply permanent traffic marking.
- (t) Final cleanup.

The above operations shall be performed in such a manner that traffic will be maintained on a paved surface at all times. Two-lane, two-way highways should not be restricted to a single lane in excess of a 3,000-foot section.

907-403.03.5.3--Widening of Pavement. The foundation for widening shall be formed by trenching or excavating to the required depth and constructing a smooth, firm and compacted foundation. It shall have sufficient density and stability to withstand the placement and compaction of subsequent lifts. Soft, yielding and other unsuitable material which the Engineer determines will not compact readily shall be removed and backfilled with granular material or asphalt as directed.

Except as provided herein, excavation for widening, undercutting or other required excavation shall be spread along the edge of the shoulders, foreslopes or other adjacent areas as directed and will be an absorbed item. When the quantity is in excess of what may be used satisfactorily on adjacent areas, the Engineer may direct that the material be loaded, hauled and spread uniformly

on other designated areas. In this case, compensation for handling surplus material will be in accordance with the appropriate pay items as provided in the contract or as extra work.

If the plans require widening of the shoulders or embankment with Contractor furnished material, all suitable material obtained from widening excavation may be used and will be measured and paid for as Contractor furnished materials. No measurement for payment of haul will be made.

Removal and disposal of old stakes, forms and other debris encountered in excavating shall be in accordance with Section 201 and shall be considered as incidental to and included in the unit prices bid for other items. No separate measurement will be made therefor. Pavement edges and surfaces shall be cleaned prior to final shaping and compaction of adjacent trenching or undercut areas.

Granular material for widening shall be placed on a previously prepared, smooth, firm and unyielding foundation in accordance with the typical section. Density of the granular material shall be as specified.

Asphalt for widening, including trench widening, shall meet the applicable requirements of Section 907-401, Section 907-403, and shall be placed in one or more layers as shown on the plans or directed. The surface of the mixture shall be finished as a continuation of the adjacent pavement slope.

Trench rollers or other compaction equipment shall be used to compact the foundation, granular material and bituminous mixtures for widening when standard width rolling equipment cannot be used.

907-403.03.5.4--Patching. Existing pavement which has failed or unsatisfactorily stabilized shall be removed as directed. Removal of pavement will be measured and paid for under the appropriate pay items as provided in the contract.

Backfill shall consist of asphalt or a combination of compacted layers of aggregate material and asphalt. Unless otherwise specified, the Engineer will make this determination based on depth and field conditions.

Asphalt used for backfilling will be measured and paid for at the contract unit price for the mixture designated on the plans as the lowest lift. Aggregate will be measured and paid for under the appropriate pay item as provided in the contract or as extra work.

907-403.03.5.5--Preliminary Leveling. All irregularities of the existing pavement, such as ruts, cross-slope deficiencies, etc., shall be corrected by spot leveling, skin patching, feather edging or a wedge lift in advance of placing the first overall lift.

907-403.03.5.6--Placement of Lifts. The leveling lift shall be placed in a layer, or layers, not exceeding approximately two and one-half inches compacted thickness.

When single lane construction is required, placement of a lift on the adjacent lane may be performed by an approved profile averaging device provided the lane previously placed is within the allowable tolerances for all surface requirements. When any of the tolerances are exceeded, the Contractor shall reestablish the control stringline for laying the adjacent lane should the Contractor elect to perform this work prior to correcting the deficiencies of the lane previously placed. In no case shall a "matching shoe" be used to control the grade of an adjacent lane.

In instances where there are only minor deviations from the allowable tolerances in the first overall lift, the Engineer may permit the Contractor to place the next higher lift by graded stringline in lieu of making the corrections.

Single lane placement of leveling, intermediate and surface lifts shall be limited to the distance covered in one and one-half days in advance of that placed in the adjacent lane.

907-403.03.5.7--Protection of Pavement. The pavement shall be protected and properly maintained until it has been compacted and cooled sufficiently for use by traffic.

907-403.04--Method of Measurement. Asphalt pavement, of the type specified, will be measured by the ton. The weight of the composite mixture shall be determined in accordance with the provisions of Subsection 907-401.03.2.1.11.

The pay quantities for each individual job mix formula (JMF) will be calculated using the approved JMF maximum specific gravity (Gmm) and the following formulas.

When the composite mixture has a maximum specific gravity of 2.540 or less,

$$T_p = T_w$$

When the composite mixture has a maximum specific gravity greater than 2.540,

$$T_p = T_w((100 - (((Gmm * A * B) - C) / (Gmm * A * B)) * 100)) / 100$$

Where:

- T_p = Total tonnage for payment
- T_w = Total tonnage weighed, used and accepted
- Gmm = Maximum Specific Gravity of the approved composite asphalt mixture
- A = 46.725 lbs/yd²/in
- B = 0.93 = 93% density
- C = 110.374 lbs/yd²/in = Theoretical density at 2.540 Gmm

Unless shown as a separate pay item, the furnishing and application of the tack coat will not be measured for payment. When payment is provided, tack coat will be measured as set out in Section 407.

Joint sealant will be measured by the linear foot for each joint sealed.

The quantity of bituminous mixture required to correct the work, when made at the expense of the Contractor, will not be measured for payment.

Any trenching required for widening will not be measured for payment, such cost thereof shall be included in other items of work.

Undercut required by the Engineer will be measured for payment under the appropriate excavation item as provided in the contract or as extra work. Pavement removal and any required trenching will not be included in the measurement for undercut.

Class "B" structural concrete base substituted for asphalt under portland cement concrete bridge end pavement, as per Subsection 502.03.1, will be paid for as asphalt calculated as follows:

Square yards of portland cement concrete bridge end pavement x concrete base thickness in inches x 0.055 = tons of asphalt.

907-403.05--Basis of Payment. Subject to the adjustments set out in Subsections 907-401.02.6.3, 907-401.02.6.4, 907-401.02.6.5 & 907-403.03.2, asphalt pavement, measured as prescribed above, will be paid for at the contract unit price per ton for each lift of pavement specified in the bid schedule and shall be full compensation for completing the work.

Joint sealant will be paid for at the contract unit price per linear foot for each joint which shall be full compensation for furnishing the joint sealant material, cleaning the joint, applying the sealant, and for all equipment, tools, labor, and incidentals necessary to complete the work.

907-403.05.1--Price Adjustment for Thickness Requirement. When grade stakes are eliminated as provided in Subsection 907-403.03.3 and the average thickness of all cores from lots representing a day's production is more than three eighths of an inch (3/8") thicker than the total specified thickness of the pavement, excluding lift(s) placed using an established grade line, a lump sum reduction in payment for the surface lift of lots representing a day's production will be made as follows:

Individual Day's = (Monetary Value of the Day's x $\frac{(D - 3/8)}{ST}$)
L.S. Reduction Surface Lift Production)

Where:

D = The day's average deviation from total pavement thickness shown on the plans, excluding lift(s) placed using an established grade line.

ST = Specified thickness for surface lift.

The total L.S. reduction for the project is the summation of the individual day's reductions in payment.

907-403.05.2--Pay Items.

Payment will be made under:

907-403-A: <u>(1)</u> , <u>(4)</u> , Asphalt Pavement	- per ton
907-403-B: <u>(2)</u> , <u>(4)</u> , Asphalt Pavement, Leveling	- per ton
907-403-C: <u>(3)</u> , <u>(4)</u> , Asphalt Pavement, Trench Widening	- per ton
907-403-D: <u>(2)</u> , HT, Asphalt Pavement, Polymer Modified	- per ton
907-403-E: <u>(2)</u> , HT, Asphalt Pavement, Polymer Modified, Leveling	- per ton
907-403-S: Joint Sealant	- per linear foot or mile

- (1) 4.75-mm mixture, 9.5-mm mixture, 12.5-mm mixture, 19-mm mixture, or 25-mm mixture
- (2) 4.75-mm mixture, 9.5-mm mixture, 12.5-mm mixture, or 19-mm mixture
- (3) 19-mm mixture or 25-mm mixture
- (4) ST, MT or HT

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-407-2

CODE: (SP)

| DATE: 07/22/2014

SUBJECT: Tack Coat

Section 407, Tack Coat, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-407.02.1--Bituminous Material. Delete the second sentence of the first paragraph of Subsection 407.02.1 on page 281, and substitute the following:

When not specified, the materials shall be as specified in Table 410-A on page 293.

907-407.03.3--Application of Bituminous Material. Delete the first paragraph of Subsection 407.03.3 on page 281, and substitute the following.

Tack coat shall be applied with a distributor spray bar. A hand wand will only be allowed for applying tack coat on ramp pads, irregular shoulder areas, median crossovers, turnouts, or other irregular areas. Bituminous materials and application rates for tack coat shall be as specified in Table 410-A on page 293. Tack coat shall not be applied during wet or cold weather, or to a wet surface. Emulsions shall be allowed to "break" prior to superimposed construction.

907-407.05--Basis of Payment. Delete the pay item at the end of Subsection 407.05 on page 282, and substitute the following:

907-407-A: Asphalt for Tack Coat *

- per gallon

* Grade may be specified

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-601-1

CODE: (IS)

DATE: 08/29/2007

SUBJECT: Structural Concrete

Division 600, Incidental Construction, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

After the heading **DIVISION 600 - INCIDENTAL CONSTRUCTION**, add the following:

Unless otherwise specified, all testing of Portland cement concrete in Division 600 shall be in accordance with the requirements of Subsection 907-601.02.1.

907-601.02--Materials.

907-601.02.1--General. Delete the second and third sentence of the first paragraph of Subsection 601.02.1 on page 348, and substitute the following:

Sampling and testing will be in accordance with TMD-20-04-00-000 or TMD-20-05-00-000, as applicable.

907-601.03.6.3--Removal of Falsework, Forms, and Housing. Delete the first paragraph, the table and second paragraph of Subsection 601.03.6.3 on pages 349 and 350, and substitute the following:

The removal of falsework, forms, and the discontinuance of heating, shall be in accordance with the provisions and requirements of Subsection 907-804.03.15, except that the concrete shall conform to the following compressive strength requirements:

Wingwall and Wall Forms not Under Stress	1000 psi
Wall Forms under Stress	2200 psi
Backfill and Cover clear	2400 psi

In lieu of using concrete strength cylinders to determine when falsework, forms, and housings can be removed, an approved maturity meter may be used to determine concrete strengths by inserting probes into concrete placed in a structure. The minimum number of maturity meter probes required for each structural component shall be in accordance with Subsection 907-804.03.15. Procedures for using the maturity meter and developing the strength/maturity relationship shall follow the requirements of Subsection 907-804.03.15. Technicians using the maturity meter or calculating strength/maturity graphs shall meet the requirements of Subsection 907-804.03.15.

907-601.05--Basis of Payment. Add the “907” prefix to the pay items listed on page 352.

CITY OF HATTIESBURG

SPECIAL PROVISION NO. 907-608-1

CODE: (XX)

DATE: 8/07/2009

SUBJECT: ASPHALT PAVEMENT TEXTURING

608.01-Description. This work consist of elevating the temperature of an asphalt pavement surface and then pressing a metal template into the surface to replicate, in relief, the grout depressions common to hand-laid brick or cobblestone, or any other design as shown on the drawings or described in the specifications. The imprinted asphalt pavement surface is then coated with a coating or system of coatings specifically formulated for asphalt pavement. It shall include the furnishing and application of coating or system of coatings.

608.02-References

608.02.1. ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester.

608.02.2. ASTM D-4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.

608.02.3. ASTM D522-93A Standard Test Method for Mandrel Bend Test of Attached Organic Coatings.

608.02.4. ASTM G-155 QUV Accelerated Weathering Environment. Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

608.02.5. ASTM D-2486 MEK rub test for chemical resistance.

608.02.6. ASTM E-303 British Pendulum test for friction.

608.02.7. EPA 24 ASTM D3960-05 Volatile Organic Compounds.

608.03-Definitions

608.03.1. "Qualified Applicator" is a contractor or applicator who has completed asphalt pavement texturing work and can provide certification and references upon request.

608.03.2. "Textured asphalt Pavement" is asphalt pavement that has been subjected to imprinting or stamping in a specific pattern.

608.04-Submittals. The documents required shall be submitted within 10 days after Notice of Award is issued. The documents are as follows:

608.04.1 Proof of applicator's ability. A copy of the current year license as provided to the proposed applicator issued by a recognized authority in the execution of asphalt pavement texturing work. Failing that, at least 3 reference sites and written references from 3 previous customers for work performed by this applicator.

608.04.2 A list of the major equipment to be used in the execution of the Work. This list will include the asphalt pavement reheat machinery, spray equipment, compactor(s) and templates.

608.04.3 The name of the coating(s) and the coating supplier's name.

608.04.4 Certified performance test results of the coating materials as outlined in Table 1.

608.04.5 Confirmation of coating color(s).

608.05-Construction Requirements

608.05.1 Coatings. Properly designed asphalt pavement coatings have been scientifically formulated to provide the optimal balance of performance properties for a durable, long lasting color and texture to asphalt pavement surfaces. The asphalt pavement coating shall be environmentally safe and meet EPA requirements for Volatile Organic Compounds (VOC). Only asphalt pavement coatings from qualified pavement coating suppliers shall be used. The coating supplier shall provide proof of these required performance properties in Table 1.

608.05.2 Minimum Performance Properties of Asphalt Coatings. The following table outlines the minimum required performance properties of the asphalt pavement coating. These performance properties must be ascertained by a Certificate of Analysis issued by an approved testing facility.

TABLE 1: Required Performance Properties of Asphalt Pavement Coating

Characteristic	Test Specification	Minimum Required result
Durability Taber Abrasion (cycles to wear-through)	ASTM D-4060 Abrasion Resistance of Organic Coatings (wet wear) 7 day cure, 24 hour soak;H-10 wheel	Wear Index (WI) < 5.0
Color stability	ASTM G-155 QUV 2,000 hours (CIE units)	Brick color ΔE < 1.5
Flexibility: Mandrel Bend	ASTM D522-93A Flexibility as measured by Mandrel bend 0.5mm thick sample passes 10 mm at 21°C 0.5mm thick sample passes 125mm at -18°C	
Chemical resistance	ASTM D-2486 Modified MEK scrubs 16 dry mils, number of scrubs until 50% substrate exposed	>5000
Adhesion to Asphalt	ASTM D-4541	Substrate Failure
Friction Wet	ASTM E-303 British Pendulum Tester	>55
Environmental Sensitivity	EPA 24 ASTM D3960-05 Volatile Organic Compounds	VOC < 150

608.05.3 Equipment. The following specialized equipment shall be used in the execution of the Work.

608.05.3.1 Metal wire rope templates are used to create the desired imprint pattern. Metal wire rope shall be $\frac{3}{8}$ " in diameter. Only use templates that have been supplied by a manufacturer who has the proven expertise in manufacturing these templates for this type of application.

608.05.3.2 Only asphalt pavement reheat equipment specifically designed for asphalt pavement texturing shall be used in the execution of this work. The primary asphalt pavement re-heat equipment must cycle the heat application and must allow the equipment operator to check the pavement surface temperature during the heating process. These controls are necessary to enable the pavement temperature to be elevated gradually, giving the operator the ability to ensure that the pavement is not overheated or adversely affected. Heaters without these controls are strictly prohibited as the primary re-heat equipment.

608.05.3.3 Hand-held portable heating devices may be used only for areas where it is difficult to operate the re-heat machine. These may not be used as the primary pavement re-heating device.

608.05.3.4 Finishing tools that are designed to enable the applicator to complete the imprinting of the asphalt pavement in areas which may be inaccessible to the template such as curbs and manhole covers are permitted.

608.05.3.5 Vibratory Plate Compactors shall be used for pressing the templates into the heated asphalt pavement to create the specified pattern.

608.05.3.6 Specialized coating spray equipment must be used in the application of the coating and must be capable of applying the coating to the asphalt pavement surface in a thin, controlled film which will optimize the drying and curing time of the coating. More specifically, the spray equipment pump must be capable of providing a continuous recirculation of the coating in order to keep the solids within the coating in suspension.

608.05.4 Execution

608.05.4.1 General. The pavement texturing system shall be supplied and installed by a Qualified Applicator in accordance with the plans and specifications or as directed by the Owner. Do not begin the Work until confirmation of the Applicator's qualifications is provided in accordance with 608.04.

608.05.4.2 Pre-Conditions – Asphalt Pavement. A highly stable asphalt pavement free of defects is a pre-requisite for the installation of a pavement texturing system. Do not install the pavement texturing system over poor quality asphalt pavement.

608.05.4.2.1 Pre-requisites for new asphalt pavement. A durable and stable asphalt pavement mix design installed according to best practices over a properly prepared and stable substrate is a pre-requisite for all long-lasting asphalt pavement surfaces. The application of a pavement texturing system does not change this requirement.

608.05.4.2.2 Pre-requisites for existing asphalt pavement. Depending upon the condition and age, existing asphalt pavement may or may not be suitable for the successful application of a pavement texturing system. Minimally, the asphalt pavement must be in excellent condition and not have any defects including cracks, ruts or potholes nor demonstrate any flushing, raveling or like deficiencies.

608.05.4.2.3 Pavement Marking Removal: recommended guidelines. Pavement markings may be removed by sandblasting, water-blasting, grinding, or other approved mechanical methods. The removal methods shall, cause no damage to the pavement surface. The Owner shall determine if the removal of the markings is satisfactory for the application of the pavement texturing system. Work shall not proceed until this approval is granted.

608.05.4.2.4 Surface Preparation. The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

608.05.4.3 Layout. Layout of the pattern for imprinting into the surface of the asphalt pavement shall be as per the drawings and specifications.

608.05.4.4 Heating the Asphalt Pavement. The Applicator shall use asphalt pavement reheat equipment as described in Section 608.05.3.

The optimal pavement temperature for imprinting the template is dependent upon mix design, modifiers used in the mix, the age of the pavement and weather. The surface temperature of the pavement should not exceed 325°F as determined by an infra-red thermometer reading taken after the heat is applied to the asphalt pavement.

In order to achieve the proper depth of imprint it is important to elevate the asphalt pavement temperature to a minimum depth of 1/2 inch (12.5mm) without burning the pavement surface. This shall be accomplished using asphalt pavement reheat equipment that is specifically designed for this Work.

608.05.4.5 Surface Imprinting. The pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

Once the asphalt pavement has reached imprinting temperature, the templates shall be placed in position and pressed into the surface using vibratory plate compactors. The top of the template is to be flush with the surrounding asphalt pavement and can then be removed. Areas that have an imprint depth less than 3/8 inch shall be re-heated and re-stamped prior to applying the coatings. Hand tooling is a permitted method to achieve proper imprint depth in areas difficult to get at with the template.

608.05.4.6 Application of Asphalt Pavement Coating.

608.05.4.6.1 Application Guidelines. The qualified applicator shall refer to the asphalt pavement coating supplier's recommendations for methods of application. Special care and attention must be paid to ensure asphalt pavement coatings are applied in environmental conditions that permit proper cure.

The coating application shall proceed as soon as possible upon completion of the imprinting of the asphalt pavement.

The pavement surface shall be completely dry and thoroughly cleaned prior to application of the asphalt pavement coating(s).

The qualified applicator shall use spray equipment specifically designed for the application of the coating(s) as outlined in 608.05.3.

Refer to the asphalt pavement coating supplier's recommendations for coating coverage rate, number of recommended passes and recommended film thickness.

608.05.4.7 Opening to Traffic. The surface coating shall be 100% dry before traffic is permitted.

608.06 Method of Measurement. The measured area is the actual area that has received the asphalt pavement texturing. No deduction will be made for the area(s) occupied by manholes, inlets, drainage structures, bollards or by any public utility appurtenances within the area.

608.07 Payment. Asphalt Pavement Texturing will be paid for at the contract unit price per unit specified in the bid schedule of the contract, which shall be full compensation for completing the work.

Payment will be made under:

907-608-E: Asphalt Pavement Texturing

- per square foot

CITY OF HATTIESBURG

SPECIAL PROVISION NO. 907-616-2

CODE: (SP)

DATE: 08/25/2009

SUBJECT: Colored and Imprinted Concrete Median and Island Pavement

Section 616, Median and Island Pavement, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as amended by this special provision is applicable to Colored And Imprinted Concrete only.

907-616.01--Description. This work consists of furnishing all labor, materials, tools, tests, royalties, services and other incidentals as may be required for the good and proper completion of the colored and imprinted concrete island and median pavement.

The locations for colored and imprinted concrete island and median pavement are shown on the plans, but generally are limited to all proposed concrete islands and concrete median end noses.

The Contractor is advised of additional notes on the plans which call attention to particular requirements or conditions regarding colored and imprinted concrete island and median pavement.

Quality Assurance. Installation shall be performed by an installer with at least one year experience in the placement of colored and imprinted concrete paving systems.

907-616.02--Materials. Colored concrete materials and imprinting tool release agents shall meet the following requirements.

- A. Coloring Agents: Contractor may elect to color the concrete integrally, or may apply dry-shake to the surface of the freshly poured concrete. Whichever method is used, the coloring agent shall be a mineral oxide pigment approved by the Engineer.

Colors for colored and imprinted concrete shall be selected by the Engineer from Standard or Designer color charts, or an approved manufacturer's color charts.

- B. Curing and Finishing Material: Contractor shall utilize a color-matched curing and finishing material recommended by the manufacturer. Curing materials or methods for uncolored concrete shall not be used with Colored and Imprinted Concrete.
- C. Release Agent: Contractor shall utilize a dry-shake powder to facilitate the release of the concrete imprinting tools. The color of the release agent shall match the selected main coloring agent chosen by the Engineer for the concrete.
- D. Imprinting Tools: Tools shall be of high quality and shall provide uniform control of joint depth.

- E. Imprint Tool Pattern: The imprint pattern to be used for all concrete imprinting shall be a 4" x 8" brick herringbone pattern, with a 4" x 8" matching soldier course border used along the perimeter of all proposed concrete islands and median end noses. The Contractor shall reference the plans for pattern layout and orientation of the imprint patterns.

Once the color, method of coloring, and the imprinting tools have received approval from the Engineer, the Contractor shall provide a 4-foot square test panel, separate from proposed island and median end nose areas, to be reviewed and approved by the Engineer. Engineer will evaluate color as compared to color chart and texture of broom finish.

Subsequent test panels may be required, if the finish, imprint quality, or color is unacceptable to the Engineer. The Contractor shall remove unaccepted test panels immediately from site. Accepted panel shall remain until all colored concrete islands and median end noses have been completed by the Contractor, at which time the Contractor shall then remove the acceptable test panel from the site.

907-616.03.4--Handling, Measuring, Proportioning, and Mixing Materials. Should an integral coloring method be selected by the Contractor, the Contractor shall mix coloring agent in strict accordance with the approved manufacturer's written instructions. Copies of the manufacturer's written instructions shall be furnished to the Engineer prior to manufacture and placement of colored concrete.

Should a dry-shake applied coloring method be selected by the Contractor, the Contractor shall measure and apply coloring agent in strict accordance with the approved manufacturer's written instructions. Copies of the manufacturer's written instructions shall be furnished to the Engineer prior to manufacture and placement of colored concrete.

907-616.03.4--Protection and Curing. Protection and curing materials and methods of application for colored and imprinted concrete shall be in strict accordance with the approved manufacturer's written instructions. Copies of the manufacturer's written instructions shall be furnished to the Engineer prior to manufacture and placement of colored concrete.

907-616.04--Method of Measurement. Colored and imprinted concrete median and island pavement, completed and accepted, will be measured by the square foot or square yard. Test panels will not be measured for separate payment.

907-616.05--Basis of Payment. Colored and imprinted concrete median and island pavement, measured as prescribed above, will be paid for at the contract unit price per square foot or square yard, which price shall be full compensation for all labor, tools, materials, equipment, test panels, placement of concrete, imprinting the concrete, and all incidental necessary to complete the work.

Payment will be made under:

907-616-C: Colored and Imprinted Concrete Median and
Island Pavement, Thickness

- per square foot or
square yard

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-618-13

CODE: (SP)

DATE: 06/03/2014

SUBJECT: Temporary Construction Signs

Section 618, Maintenance of Traffic and Traffic Control Plan, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-618.03--Construction Requirements.

907-618.03.2--Barricades, Signs, and Flaggers. Delete the second paragraph of Subsection 618.03.2 on page 414, and substitute the following.

Flaggers shall be stationed at such points as may be deemed necessary.

Temporary construction signs shall be removed as their use becomes inapplicable. However, placing temporary signs and their supports flat on the ground outside the shoulder break line will be allowed.

907-618.05--Basis of Payment. Delete the first two pay items listed on page 418, and substitute the following.

907-618-A: Maintenance of Traffic - lump sum

907-618-B: Additional Construction Signs - per square foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-626-25

CODE: (IS)

DATE: 11/13/2012

SUBJECT: Thermoplastic Traffic Markings

Section 626, Thermoplastic Traffic Markings, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-626.01--Description. After the last sentence of the first paragraph of Subsection 626.01 on page 443, add the following.

All pavement marking material, excluding edge lines over rumble strips, shall be applied using the extrusion/ribbon method. Edge lines placed over rumble strips shall be applied using the atomization/spray method.

907-626.03.1.1--Equipment. After the second paragraph of Subsection 626.03.1.1 on page 444, add the following.

When edge lines are placed over rumble strips, the equipment must be able to apply the marking material using the atomization/spray method instead of extrusion/ribbon method.

907-626.03.1.2--Construction Details. Delete the second sentence of the first full paragraph of Subsection 626.03.1.2 on page 445, and substitute the following.

Unless otherwise specified in the plans or contract documents, the thickness shall be 90 mils for edge lines, center lines, lane lines, barrier lines and detail stripe including gore markings, and 120 mils for crosswalks, stop lines, and railroad, word and symbol markings.

After the last sentence of the third full paragraph of Subsection 626.03.1.2 on page 445, add the following.

When double drop thermoplastic stripe is called for in the contract, additional beads by the drop-on method shall be applied as follows.

Class A glass beads at a rate of not less than three pounds of beads per 100 feet of six-inch stripe.
Class B glass beads at a rate of not less than three pounds of beads per 100 feet of six-inch stripe.

The Class B glass beads shall be applied to the newly placed stripe first, followed by the application of the Class A glass beads.

907-626.05--Basis of Payment. Delete the pay items listed on page 446 and substitute the following.

907-626-A: 6" Thermoplastic* Traffic Stripe, Skip White	- per linear foot or mile
907-626-B: 6" Thermoplastic* Traffic Stripe, Continuous White	- per linear foot or mile
907-626-C: 6" Thermoplastic* Edge Stripe, Continuous White	- per linear foot or mile
907-626-D: 6" Thermoplastic* Traffic Stripe, Skip Yellow	- per linear foot or mile
907-626-E: 6" Thermoplastic* Traffic Stripe, Continuous Yellow	- per linear foot or mile
907-626-F: 6" Thermoplastic* Edge Stripe, Continuous Yellow	- per linear foot or mile
907-626-G: Thermoplastic* Detail Stripe, <u>Color</u>	- per linear foot
907-626-H: Thermoplastic* Legend, White	- per linear foot or square foot

* Indicate Double Drop if applicable

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-639-8

CODE: (SP)

DATE: 10/28/2014

SUBJECT: Traffic Signal and ITS Equipment Poles

Section 639, Traffic Signal Equipment Poles, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby deleted and replaced as follows.

SECTION 907-639 - TRAFFIC SIGNAL AND ITS EQUIPMENT POLES

907-639.01--Description. This work consists of furnishing all component materials required to form completed independent signal equipment poles and extensions of the types specified and assembling, constructing, erecting and installing same in conformity with these specifications to ensure support poles in accordance with the design(s) and at the lines and grades shown on the plans or as directed.

This work also consists of furnishing and installing support poles and foundations for Intelligent Transportation Systems (ITS) equipment. This work shall consist of assembling, constructing, erecting and installing ground mounted equipment poles with foundations, and equipment poles attached to existing or proposed structures, in conformity with these specifications and in accordance with the design(s) shown on the plans or as directed.

907-639.02--Materials. The materials used in this construction shall conform with the general requirements of these specifications and the specific requirements set out herein.

907-639.02.1--Poles.

907-639.02.1.1--Traffic Signal Poles. Traffic signal poles shall meet the requirements of Subsection 722.02. The traffic signal equipment pole shaft extension shall meet the requirements of the plan.

907-639.02.1.2--Galvanized Steel Poles for Cameras. Ground mounted camera poles and foundations, conduits, connections, clamps, anchor bolts, shoe bases and all other members shall be designed and fabricated in accordance with the standards and requirements listed below. Design and materials documentation shall be furnished as part of the approval request submittal. Certifications will be furnished upon request by the Engineer.

- 1) Poles shall be designed in accordance with the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals", current edition, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall be as shown in the design specifications with a minimum of 90 mph. For projects that are in areas with higher wind standards, the higher standard shall be used. The pole shall meet design wind loading with camera(s) installed.

- 2) The Contractor shall submit manufacturer's shop drawings, layout drawings and specifications for equipment and appurtenances for approval by the Engineer no later than ninety (90) days after notice to proceed.
- 3) Pole fabricator shall be certified under Category I, "Conventional Steel Structures" as set forth by the American Institute of Steel Construction Quality Certification Program. Proof of this certification will be required.
- 4) All welding shall be in accordance with Sections 1 through 8 of the American Welding Society (AWS) D1. 1 Structural Welding Code. Tackers and welders shall be qualified in accordance with the American Welding Society Structural Welding code. Tube longitudinal seam welds shall be free of cracks and excessive undercut, performed with automatic processes, and be visually inspected. Longitudinal welds suspected to contain defects shall be magnetic particle inspected. All circumferential butt welded pole and arm splices shall be ultrasonically and radio graphically inspected. All inspection records will be furnished to the Engineer.
- 5) Camera pole system shall consist of a pole, anchor bolts, base plate, ground rod array, communication and power conduits to nearest pull box, grounding conduit, spare conduit and foundation.
- 6) Design computations for the camera poles shall be complete and shall include but not be limited to the following:
 - Consideration shall be given for all parts of the structure.
 - Consideration shall be given for all possible loading combinations including wind and ice loads.
 - Computations shall include design stresses and allowable stresses for all components which comprise the proposed structure.
 - Top of pole deflection shall not exceed 1-inch deflection from center due to 30 mph (non-gust) winds for the 50-foot poles.
 - All complete shop drawings and design computations shall bear the stamp of a Professional Engineer registered in the State of Mississippi.
 - Shop drawings shall be approved by the Engineer prior to fabrication. Approval of the shop drawings does not relieve the Contractor of responsibility for the design, fabrication and erection of the structure.
 - The Engineer reserves the right to reject a pole design if the calculated deflection exceeds that specified herein.
 - The foundation design shall be based on actual soil conditions from soil borings conducted by the Contractor. The cost of the soil borings shall be included in the cost of the pole.
 - The calculations shall include a pole, base plate, and anchor bolt analysis. The pole calculations shall be analyzed at the pole base, 5-foot pole intervals, and at each slip joint splice.
- 7) For each pole shown in the Plans, the following information shall be given:
 - Top/bottom diameter, taper rate, wall thickness, section modulus, moment of inertia, and cross sectional area for each pole section.
 - The centroid, weight, projected area, drag coefficient, velocity pressure, and wind force of each trapezoidal pole section.

- The axial force, shear force, primary moment, total moment, axial stress, bending stress, allowable axial stress, allowable bending stress, allowable shear stress and combined stress ratio (CSR) at each pole section.
 - The pole's angular and linear deflection at each section.
- 8) Pole Mounted Cabinet Access Conduit Nipple:
- Each pole will be manufactured with a 2-inch diameter rigid threaded nipple for conduit connection to a pole-mounted cabinet.
 - The height of this nipple above the base of the pole shall be such that a cabinet mounting height of three (3) feet above ground can be provided.
- 9) Hand Holes:
- Hand hole openings shall be reinforced with 2-inch wide hot rolled steel bar. The opening shall be rectangular and 5" x 8" nominal.
 - The cover shall be 11-gauge steel and shall be secured to a clip-on lock with a tamper-proof screw.
 - The reinforcing rim shall be provided with a 1/2-inch tapped hole and 1/2-inch hex head cap screw for grounding.
 - Hand holes on poles with pole-mounted cabinets and transformers shall be placed toward oncoming traffic. For all other poles, hand holes shall face away from traffic.
 - Section at hand hole to be reinforced to have equivalent section modulus as the section without the hand hole.
- 10) Cable Supports (J-Hooks & Eyelets): Top and bottom J-hooks and eyelets shall be located within the pole directly aligned with each other.
- 11) Base Plate:
- Base plates shall conform to ASTM A572 (50 ksi min. yield).
 - Plates shall be integrally welded to the tubes with a telescopic welded joint or a full penetration butt weld with backup bar.
 - Plates shall be hot dip galvanized.
- 12) Anchor Bolts:
- Anchor bolts shall conform to the requirements of AASHTO M314-90 (105 ksi min. yield.) The upper 12 inches of the bolts shall be hot dip galvanized per ASTM A153.
 - Each anchor bolt shall be supplied with two (2) hex nuts and two (2) hardened washers.
 - The strength of the nuts shall equal or exceed the proof load of the bolts.
 - The top nut shall be torqued so as to produce 60% yield stress of anchor bolt.
 - The Contractor shall not grout between bottom of base plate and top of concrete foundation.
- 13) Pole heights shall be as indicated on the plans.

907-639.02.1.3--Galvanized Steel Poles for Detectors. Ground mounted detector poles and foundations, conduits, connections, clamps, anchor bolts, shoe bases and all other members shall be designed and fabricated in accordance with the standards and requirements listed below. Design and materials documentation shall be furnished as part of the approval request submittal. Certifications will be furnished upon request by the Engineer.

- 1) Poles shall be designed in accordance with the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals", current edition,

including all interims and updates. Design life shall be 50 years for all poles. Poles shall be designed to withstand the specified forces including those produced by a 100 mph wind with a 1.14 gust effect factor.

- 2) The Contractor shall submit manufacturer's shop drawings, layout drawings and specifications for equipment and appurtenances for approval by the Engineer no later than ninety (90) days after notice to proceed.
- 3) Pole fabricator shall be certified under Category I, "Conventional Steel Structures" as set forth by the American Institute of Steel Construction Quality Certification Program. Proof of this certification will be required.
- 4) Poles shall be formed from a single sheet of hot rolled weldable grade steel, galvanized in accordance with ASTM Designation: A 123. Unless otherwise noted on the plans, poles shall be made from steel meeting the requirements of ASTM Designation: A 572 Grade 55, or A 595 Grade A. Minimum yield strength shall be 48,000 psi after fabrication. Design wind loading shall be as indicated on the plans. The pole shall meet design wind loading with detector(s) installed.
- 5) Poles shall have a constant taper of 0.14 inch nominal per foot.
- 6) All poles shall be equipped with a breakaway device which conforms to the latest AASHTO and FHWA requirements, which have been approved by same. The Contractor shall submit a manufacturer's certification with the pole shop plans stating that the device meets, or exceeds, these standards.
- 7) Pole heights shall be as indicated on the plans.
- 8) Detector pole system shall consist of, but not be limited to a pole, anchor bolts, breakaway base, base plate, ground rod array, communication and power conduit to nearest pull box, grounding conduit, spare conduit and foundation as shown on the Plans.
- 9) Anchor bolts, washers and hex nuts shall be made of steel in accordance with ASTM Designation: F 1554, Grade 55, and shall be galvanized as per ASTM Designation: A 153. Anchor bolts shall be provided for each pole with two (2) hex nuts and washers per bolt. Anchor bolts shall be "L" shaped; minimum yield strength shall be 50,000 psi. A bolt layout template shall be provided by the manufacturer for proper bolt installation. The number of anchor bolts and design yield strength shall be as recommended by the manufacturer.

907-639.02.1.4--Aluminum Poles for Detectors. Ground mounted detector poles and foundations, conduits, connections, clamps, anchor bolts, breakaway bases and all other members shall be designed and fabricated in accordance with the standards and requirements listed below. Design and materials documentation shall be furnished as part of the approval request submittal. Certifications will be furnished upon request by the Engineer.

- 1) Poles shall be designed in accordance with the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals", current edition, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall be as shown in the design specifications with a minimum of 90 mph. The pole shall meet design wind loading with detector(s) installed.
- 2) The Contractor shall submit manufacturer's shop drawings, layout drawings and specifications for equipment and appurtenances for approval by the Engineer no later than ninety (90) days after notice to proceed.

- 3) Poles shall be spun or formed from aluminum seamless tubing meeting requirements of ASTM Designation: B 210, Alloy 6063-T4 and after fabrication shall have mechanical properties not less than those specified for Alloy 6063-T6. The poles may also be formed from aluminum plates or sheets meeting the requirements of ASTM Designation: B 209, Alloys 5052-H34 or 5086-H34.
- 4) External surface of poles shall have a satin-type finish, clean and smooth, with all details defined and true to pattern.
- 5) Poles shall have a constant taper of 0.14 inch nominal per foot.
- 6) All poles shall be equipped with a breakaway device which conforms to the latest AASHTO and FHWA requirements, which have been approved by same. The Contractor shall submit a manufacturer's certification with the pole shop plans stating that the device meets, or exceeds, these standards.
- 7) Pole heights shall be as indicated on the plans.
- 8) Detector pole system shall consist of, but not be limited to a pole, anchor bolts, breakaway base, base plate, ground rod array, communication and power conduit to nearest pull box, grounding conduit, spare conduit and foundation as shown on the Plans.
- 9) Anchor bolts, washers and hex nuts shall be made of steel in accordance with ASTM Designation: F 1554, Grade 55, and shall be galvanized as per ASTM Designation: A 153. Anchor bolts shall be provided for each pole with two (2) hex nuts and washers per bolt. Anchor bolts shall be "L" shaped; minimum yield strength shall be 50,000 psi. A bolt layout template shall be provided by the manufacturer for proper bolt installation. The number of anchor bolts and design yield strength shall be as recommended by the manufacturer.

907-639.02.1.5--Structure-Mounted ITS Equipment Poles. Structure-mounted equipment poles and conduits, connections, clamps, mounting hardware and all other members shall be designed and fabricated in accordance with the standards and requirements listed below. Design and materials documentation shall be furnished as part of the approval request submittal. Certifications will be furnished upon request by the Engineer.

- 1) Poles shall be designed in accordance with the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals", current edition, including all interims and updates. Design life shall be 50 years for all poles. The design wind speed for all parts of the structure shall be as shown in the design specifications with a minimum of 90 mph. For projects that are in areas with higher wind standards, the higher standard is required. The pole shall meet design wind loading with all equipment installed.
- 2) The Contractor shall submit manufacturer's shop drawings, layout drawings and specifications for equipment and appurtenances for approval by the Engineer no later than ninety (90) days after notice to proceed.
- 3) Pole fabricator shall be certified under Category I, "Conventional Steel Structures" as set forth by the American Institute of Steel Construction Quality Certification Program. Proof of this certification will be required.
- 4) All welding shall be in accordance with Sections 1 through 8 of the American Welding Society (AWS) D1. 1 Structural Welding Code. Tackers and welders shall be qualified in accordance with the American Welding Society Structural Welding code. Tube longitudinal seam welds shall be free of cracks and excessive undercut, performed with

automatic processes, and be visually inspected. Longitudinal welds suspected to contain defects shall be magnetic particle inspected. All circumferential butt welded pole and arm splices shall be ultrasonically and radio graphically inspected. All inspection records will be furnished to the Engineer.

- 5) ITS equipment pole system shall consist of a pole, connectors, clamps, mounting hardware, ground wires and rods, grounding conduit, and communication and power conduits to nearest pull box.
- 6) Design computations for structure-mounted poles shall be complete and shall include but not be limited to the following:
 - Consideration shall be given for all parts of the structure.
 - Consideration shall be given for all possible loading combinations including wind and ice loads.
 - Computations shall include design stresses and allowable stresses for all components which comprise the proposed structure.
 - Top of pole deflection shall not exceed 1-inch deflection from center (2-inch deflection diameter) due to 30 mph (non-gust) winds.
 - All complete shop drawings and design computations shall bear the stamp of a Professional Engineer registered in the State of Mississippi.
 - Shop drawings shall be approved by the Engineer prior to fabrication. Approval of the shop drawings does not relieve the Contractor of responsibility for the design, fabrication and erection of the structure.
 - The Engineer reserves the right to reject a pole design if the calculated deflection exceeds that specified herein.
 - The calculations shall include a pole, base plate, and anchor bolt analysis. The pole calculations shall be analyzed at the pole base, 5-foot pole intervals, and at each slip joint splice.
- 7) For each pole shown in the Plans, the following information shall be given:
 - Top/bottom diameter, taper rate, wall thickness, section modulus, moment of inertia, and cross sectional area for each pole section.
 - The centroid, weight, projected area, drag coefficient, velocity pressure, and wind force of each trapezoidal pole section.
 - The axial force, shear force, primary moment, total moment, axial stress, bending stress, allowable axial stress, allowable bending stress, allowable shear stress and combined stress ratio (CSR) at each pole section.
 - The pole's angular and linear deflection at each section.
- 8) Hand Holes:
 - Hand hole openings shall be reinforced with 2-inch wide hot rolled steel bar. The opening shall be rectangular and 5" x 8" nominal.
 - The cover shall be 11-gauge steel and shall be secured to a clip-on lock with a tamper-proof screw.
 - The reinforcing rim shall be provided with a 1/2-inch tapped hole and 1/2-inch hex head cap screw for grounding.
 - Section at hand hole to be reinforced to have equivalent section modulus as the section without the hand hole.

- 9) Cable Supports (J-Hooks & Eyelets): Top and bottom J-hooks and eyelets shall be located within the pole directly aligned with each other.
- 10) Pole heights shall be as indicated on the plans.

907-639.02.2--Traffic Signal Mast Arms. Traffic signal mast arms and mast arm extensions shall be steel meeting the requirements of Subsection 722.16.

907-639.02.3--Foundations.

907-639.02.3.1--Foundations for Traffic Signal Poles. Cast-in-place foundations for concrete, steel, and/or aluminum shafts shall be as specified on plans, and shall be cast of reinforced Class "B" Concrete conforming to the requirements of Sections 601 and 602. Anchor bolts, washers, and hexagon bolts for use in the foundation shall conform to Subsections 722.11 and 722.12. The anchor bolt shall be galvanized only through the threaded section and a minimum of six inches below the top of the concrete foundation. The foundation bolts shall be set in the concrete foundation to fit the bolt circle of each type of pole. Conduit for electric cable shall comply with the requirements for such materials as set out in Subsection 722.05.

907-639.02.3.2--Foundations for ITS Poles. Cast-in-place foundations for ground mounted equipment poles shall be Contractor Designed in accordance with this specification and the plans. It shall be cast with reinforced Class "B" Concrete conforming to the requirements of Sections 601 and 602. Anchor bolts, washers and hex nuts for use in the foundation shall conform to requirements set forth in these specifications. Conduit for electric cable and fiber optic cable shall comply with the requirements for such materials as set out in Subsection 722.05.

907-639.03--Construction Requirements.

907-639.03.1--Installation of ITS Equipment. All equipment shall be installed according to the manufacturer's recommendations. Materials and associated accessories/adapters shall not be applied contrary to the manufacturer's recommendations and standard practices. ITS equipment pole systems shall be installed as indicated on the Plans and shall conform to the following requirements:

- 1) All poles shall be installed in accordance with the National Electric Safety Code and the latest AASHTO standards.
- 2) Foundations for ground mounted poles:
 - The Contractor shall submit a design for each pole foundation that has been sealed by a Professional Engineer registered in the State of Mississippi.
 - Excavation for concrete foundations shall be opened vertically in accordance with the methods of Section 206 with a tolerance of plus two inches from neat lines and grades as shown on the Plans or required by local conditions. Adjacent earth shall be compacted sufficiently to withstand the loadings set out in Subsections 907-639.02.1 and 907-639.02.2.

- If soil conditions require the use of any shoring, casings, or sonotube for proper installation of the foundations, the cost of the shoring, casings or sonotube shall be included in the cost of the pole and foundation.
- Before placing concrete, the Contractor shall place reinforcing bars, conduit and anchor bolts, all in accordance with plan details, and held rigidly in place by approved methods.
- Concrete foundations shall be formed, cast and cured in accordance with the provisions of Section 601. The top surface shall be finished smooth, and sloped to drain.
- Concrete shall cure a minimum of seven (7) days before any load is applied to the foundation.
- Conduit shall be installed in the pole foundation for access and includes conduit to the nearest pull box as shown in the Plans.
- A minimum of one 2-inch spare conduit shall be installed in all pole foundations as shown in the Plans. Spare conduits in pole foundations shall be sealed with blank duct plugs.

3) Grounding System:

- The Contractor shall supply and install a grounding system with ground rod array at the base of all poles as shown on the Plans.
- The ground rod array system shall be connected to the pole through an appropriate ground clamp.
- A #6 AWG copper stranded bonding wire shall be installed between the pole and the field cabinet providing a common ground system for each site.
- All ground bonding wires shall be un-spliced.

4) The installation method for the CCTV poles and cameras shall be such that the camera can be rotated as needed around the pole for optimum placement.

907-639.03.2--Foundations. In some instances, it may be necessary to use slip casing to keep the foundation holes open. Casing may be required in portions of the holes that are not stable. Casings authorized by the Engineer shall be of suitable size and strength to accommodate the drilling equipment and to withstand ground-pressures and removal operations without deformation of the poured shaft. When removed, the casings shall revert to the Contractor for disposal.

Due to the soil conditions in certain areas, the plans may indicate locations where the concrete shall be placed with a tremie. When a tremie is used, it shall perform in accordance with the requirements in Subsection 907-804.03.9 of the Standard Specifications.

907-639.03.2.1--Foundations for Traffic Signal Poles. Excavation for concrete foundations or butts shall be opened vertically in accordance with the methods of Section 801 with a tolerance of plus two inches from neat lines and grades as shown on the plans or required by local conditions. Adjacent earth shall be compacted sufficiently to withstand the loadings set out under Subsection 722.02.1.3. Before placing concrete, the Contractor shall place reinforcing bars, conduit and anchor bolts, all in accordance with plan details, and held rigidly in place by approved methods. Concrete foundations shall be formed, cast and cured in accordance with the provisions of Section 601. The top surface shall be finished smooth, and sloped to drain.

907-639.03.2.2--Foundations for Ground Mounted ITS Poles. Pole foundations shall be constructed as per the details on the plans, these specifications, and Section 803 of the Standard Specifications. Casings, if required, will be in accordance with Section 803 of the Standard Specifications.

907-639.03.3--Setting and Aligning Traffic Signal Poles. Traffic signal poles anchored to the concrete foundation or with precast butts shall have sufficient rake so as to assume a vertical position when the load is applied. Poles with precast butt shall be wet-tamped in place with crushed aggregate, concrete or satisfactory cement stabilized soil, as directed. Poles set on concrete foundations may use leveling nuts to align poles. After alignment of pole on the concrete foundation is completed, the entire area between the bottom of the pole and the top of the concrete foundation shall be filled with grout meeting the requirements of Subsection 714.11. Careful aligning of the poles shall be considered a most essential feature of the installation of the assembly and shall be as nearly perfect as practicable.

907-639.04--Method of Measurement. Traffic signal equipment pole of the type specified will be measured as a unit quantity per each, which measurement shall include the pole, mast arms and all other incidentals necessary to complete the equipment pole.

Traffic signal equipment pole shaft extension of the type specified will be measured as a unit quantity per each, which measurements shall include the pole attachment, shaft, and all other mounting attachments necessary to extend a shaft as required in the plans.

Traffic signal equipment pole mast arm extension, as indicated, will be measured as a unit quantity per each, which measurements shall include the mast arm extension and all other mounting attachments necessary to extend the arm as indicated.

Traffic signal pole foundations of the size specified will be measured by the cubic yard, which measurement shall be the area bounded by the vertical planes of the neat lines of the foundation.

Camera pole with foundation and detector pole with foundation will be measured as a unit quantity per each. No separate payment will be made for camera and detector pole foundations. Measurement for progress payments for camera and detector poles may be made as follows.

- 1) 25% of the contract unit price upon complete installation of foundations;
- 2) Additional 45% of the contract unit price upon delivery of poles or structure to the site; and
- 3) Final 30% of the contract unit price upon complete installation of pole system

Structure-mounted equipment pole will be measured as a unit quantity per each. Measurement for progress payments for Structure-mounted equipment pole may be made as follows.

- 1) 70% of the contract unit price upon delivery of poles or structure to the site; and
- 2) Final 30% of the contract unit price upon complete installation of pole system

Slip casings of the size specified will be measured by the linear foot from the ground elevation to the bottom of the strata needing to be cased.

907-639.05--Basis of Payment. Traffic signal equipment pole and traffic signal equipment pole extension of the type specified, measured as provided in above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing all materials, erecting, installing, connecting and testing poles, pole bases, mast arms, caps, covers, ground wire, ground rods, hardware and for all equipment, tools, labor and incidentals necessary to complete the equipment pole.

Traffic signal equipment pole mast arm extension, measured as provided above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing all materials, for installing the mast arm extension and for all equipment, tools, labor, and incidentals necessary to complete the work.

Traffic signal pole foundations, measured as prescribed above, will be paid for at the contract unit price per cubic yard, which price shall include full compensation for structure excavation, reinforcing steel, anchor bolts; for placing, curing, and installing concrete; for replacing sod and final clean-up; and for all equipment, labor, tools and incidentals necessary to complete the foundation.

Camera pole with foundation and detector pole with foundation, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing all materials, for excavating, backfilling, replacing sod, and for all constructing, placing, curing, erecting, installing, connecting and testing; for foundations, poles, pole bases, conduit inside foundation and to nearest pull box as indicated on the Plans, wiring between camera and field cabinet, connections to support structures, caps, covers, ground wire, ground rods, hardware and for all equipment, tools, labor and incidentals necessary to complete the work, including remote and local control of the camera site complete in place and ready for use.

Structure-mounted equipment pole, measured as prescribed above, will be paid for at the contract unit price per each, which price shall be full compensation for furnishing all materials, for all constructing, placing, erecting, installing, connecting and testing, for poles, conduit between structure attachment location and nearest pull box as indicated on the Plans; wiring between pole-mounted devices and field cabinet; all structure-mounting hardware indicated on the Plans, caps, covers, ground wire, ground rods, hardware and for all equipment, tools, labor and incidentals necessary to complete the work, including remote and local control of the camera site complete in place and ready for use.

No separate payment will be made for camera and detector pole foundations.

Slip casings, measured as prescribed above, will be paid for at the contract price per linear foot, which price shall be full compensation for all materials, tools, equipment, labor, and incidentals necessary to complete to work.

Payment will be made under:

- | | |
|---|-------------------|
| 907-639-A: Traffic Signal Equipment Pole, Type ____ | - per each |
| 907-639-B: Traffic Signal Equipment Pole Shaft Extension * | - per each |
| 907-639-C: Pole Foundations, ____ Diameter | - per cubic yard |
| 907-639-D: Slip Casing, ____ Diameter | - per linear foot |
| 907-639-E: Camera Pole with Foundation, ____' Pole | - per each |
| 907-639-F: Detector Pole with Foundation, ____' Pole | - per each |
| 907-639-G: Traffic Signal Equipment Pole Mast Arm Extension * | - per each |
| 907-639-H: ITS Equipment Pole, Structure Mounted, ____' Pole | - per each |

* Additional information may be indicated

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-649-5

CODE: (SP)

| DATE: 10/29/2013

SUBJECT: Video Vehicle Detection

Section 649, Video Vehicle Detection, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete in total Subsection 649 beginning on page 533, and substitute the following.

SECTION 907-649 -- VIDEO VEHICLE DETECTION

907-649.01--Description. This special provision specifies the minimum requirements for Video Detection Systems (VDS) and Multi-Sensor Detection Systems (MSDS) furnished and installed in accordance with the design(s) for the location(s) designated on the project plans, in any related notice to bidders, or as directed. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, test, and operate VDS and/or MSDS that are integrated with MDOT's Traffic Management/Operations Centers (TMC).

The Type 1 Video Detection System will provide roadway monitoring capabilities via digitized video images transmitted over an Ethernet network and will provide traffic data collection of vehicle parameters including, but not limited to, speed, presence, occupancy, volume, video snapshots and MPEG-4 streaming video of the intersection. All of the real-time data shall be reported locally or remotely and be viewable from a customized secure user-friendly website hosted by the VDS vendor. The Type 1 Video Detection System will be used at all intersections where traffic data collection is required. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test Video Detection Systems. This work consists of furnishing and installing video detection system equipment complete and ready for service.

The Type 2 Video Detection System will provide presence or pulse detection for Traffic Signal Controller inputs. The Type 2 Detection Systems will be used at intersections that only require presence detection for traffic signal control. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test Video Detection Systems. This work consists of furnishing and installing video detection system equipment complete and ready for service.

The Multi-Sensor Detection System (MSDS) will provide detection of vehicles on a roadway using a multi-sensor detection system for Traffic Signal Controller inputs. The multi-sensor system shall utilize two different sensors of different technologies, video imaging and radar, to detect and track vehicles. The module shall process information from both video imaging and radar sensors simultaneously in real-time. The work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, and test the Multi-Sensor

Detection Systems. This work consists of furnishing and installing multi-sensor detection system equipment complete and ready for service.

907-649.02--Materials.

907-649.02.1--Materials Type 1 Vehicle Detection System.

907-649.02.1.1--General. The video detection system hardware will typically consist of two major components:

- 1) Video Camera Sensors (color) with zoom lens (one sensor in each direction)
- 2) Video Detection System Processor (inside the sensor for Type 1 system)

907-649.02.1.2--Functional Requirements for Type 1 Detection System. The VDS shall be capable of monitoring vehicles on a roadway via processing of video images and providing discrete detection of vehicles and functional detection parameters on a per lane basis for each of the following:

- 1) Presence of moving or stopped vehicles (a vehicle that has not moved for a user-definable length of time)
- 2) Traffic volume (absolute number of discrete vehicles per time interval per lane)
- 3) Speed (average lane speed in mph)
- 4) Occupancy (individual lane occupancy measured in percent of time)
- 5) Density (average lane density volume/speed)
- 6) Headway (average time interval between vehicles by lane in seconds)
- 7) Vehicle classification and volumes per lane by user-selectable vehicle lengths (minimum four (4) bins)
- 8) Wrong Way vehicle detection
- 9) Alarms for the following:
 - a. wrong-way vehicles
 - b. speed threshold
 - c. vehicle classifications
- 10) Loop Emulation based on single or dual loops for a minimum of four (4) lanes.
- 11) Provide direct real-time iris and shutter speed control and be equipped with an integrated auto zoom/auto focus lens that can be changed using computer software.
- 12) Shall be fully IP-enabled and addressable from the video detection system processor, with all configuration, detection data, and encoded video stream available on a single Ethernet interface.
- 13) Shall provide MPEG-4 streaming video output.
- 14) Shall provide all data and video communications over the power supply conductors as shown on the Plans.

907-649.02.1.3--System Features. As a minimum, the system shall include the following features:

- 1) Shall be capable of detecting and storing discrete lane data for either approaching or

- receding vehicles in at least four (4) lanes and two (2) shoulders / emergency lanes.
- 2) When this function is required in the Plans, shall provide a contact closure interface to a traffic controller or other device, this interface shall accept eight (8) contact closure inputs (usually red and green control signals) and provide sixteen (16) contact closure outputs to a traffic signal controller. For a SDLC interface to a NEMA T52 traffic controller, this interface shall display 32 phase colors and emulate up to four (4) bus interface units (BIU).
- 3) Shall include software with the capability to define detectors through interactive graphics by placing lines and/or boxes or polygons defined by a minimum of four points.
- 4) Shall be a tracking based system or a system of detection zones (lines and/or boxes) which may assign logical functions to one detector or a group of detectors to accomplish directionality or classification.
- 5) Shall be capable of programming the expected flow direction of traffic to facilitate alarm generation for vehicles traveling in the wrong direction.
- 6) Shall be capable of operating as a stand-alone unit when communication to the central system is lost, calculating traffic parameters in real-time and storing data in its own non-volatile memory.
- 7) Shall be capable of compensating for camera movement attributable to temperature effects, wind shifts, pole sway, pole expansion, or vibration of the mount when attached to bridges, sign structures or other structures.
- 8) Shall allow for detection zone calibration for accommodating perspective variations due to varying camera heights and angles.
- 9) Shall provide for day and night operation.
- 10) Shall provide for communications interface to the video detection system processor through a cabinet-mounted interface panel that terminates the power/communications conductors to the processor and provides the Ethernet interface to the processor.

907-649.02.1.4--Detection Configurations. The VDS shall be programmable for the following detector configurations; at a minimum they shall perform the following functions:

- 1) Count Detector
- 2) Presence Detector
- 3) Speed Detector
- 4) Station Detector
- 5) Speed Alarm
- 6) Lane Detector
- 7) Tunnel Detector

The Speed Detector shall report vehicle speed and vehicle classification based on five user-defined length categories, satisfying the four generalized category requirement recommended by FHWA.

907-649.02.1.5--VDS Software Requirements. The VDS sensor shall store cumulative traffic statistics, internally in non-volatile memory, for later retrieval and analysis. The VDS sensor shall have at least 5 Mb of memory for data storage. Data collection shall not require additional modules or extra software.

The real-time traffic data and color video shall be viewable through a standard web browser using a data collection and management service (DCMS). The DCMS license will be for a twenty-four month period and start from the date of acceptance of the Final Inspection. The manufacturer shall display the data and streaming video real-time on a custom web-site which can be linked to MDOT's internal web-sites, MSTraffic.com & GoMDOT.com. The DCMS provider must guarantee 95% uptime. All collected data (except video) shall be archived once a month and two electronic copies sent to MDOT. MDOT requires the ability to create and print custom data reports in Excel or HTML by accessing the manufacturer website and filtering data using reporting parameters. In addition, MDOT requires the capability of having all "raw" data sent directly to an MDOT owned data collection server.

The VDS shall have the capability of polling any and all video detector sensors through communication interfaces, including but not limited to, fiber, wireless, leased broad-band, and leased point to point T1.

The DCMS Server shall be able to generate details including, but not limited to the following:

- 1) Microsoft Excel, SQL, XML, Jscript database technology
- 2) Microsoft .NET Framework, including support for ASP.NET
- 3) Custom, automated reports, alarms, ftp, and e-mail services.
- 4) Report Manager Graphic User interface (GUI) to customize data distribution and reporting.

907-649.02.1.6--Detection Requirements. Unless otherwise shown in the Plans, the Video Detection System shall detect vehicle passage and presence when the VDS camera assembly is mounted 40 feet or higher above the roadway, when the camera is located adjacent to or over the desired coverage area, and when the distance to the farthest detection zone locations are not greater than ten (10) times the mounting height of the camera.

Optimum accuracy shall be achieved when the length of the detection area or field of view is not greater than four (4) times the mounting height of the image sensor.

The camera shall not be required to be directly over the roadway to achieve minimum accuracy requirements.

The video detection system shall be able to use a single camera to view either approaching and/or receding traffic in the same field of view.

907-649.02.1.7--Accuracy Requirements and Measurement Methods. The accuracy will be measured under normal weather conditions (i.e., not during rain, snow, fog etc.) when the VDS sensor camera is mounted 40 feet or higher, or as otherwise shown in the Plans, above the travel lanes, when the image sensor is adjacent to desired coverage areas, and when the distance to the farthest detection zone is less than four (4) times the mounting height measured in a straight line along the center axis of the field of view.

The Video Detection System shall provide a level of accuracy of less than 5% error rate based on volume counts for the entire field of view compiled over multiple time intervals that contain a minimum of 300 vehicles.

Volume - The volume (count) of vehicles in each lane collected by the video detection system must be within five percent ($\pm 5\%$) of the manually counted volume for that lane. These levels of accuracy must be provided during both day and night conditions. A minimum of three hundred (300) vehicles must be used as a sample size for the entire field of view for volume counting accuracy checking.

Vehicle Classification - The vehicle classification feature must classify at least eighty percent (80%) of the vehicles correctly by classifying vehicles into one of four bins (FHWA categories) by vehicle length. This feature will be tested by manually classifying vehicles into cars, light trucks or tractor trailer or larger trucks using an observer (who does the classification) and video tape using the same samples as collected for the volume test. The manually collected classification data will be compared to the data collected by the system for each lane and the percent error will be calculated for the entire field of view.

Stopped Vehicle Detection - The vehicle detection system shall be capable of detecting 95% of all vehicles stopped on the shoulders or in lanes and triggering an alarm. Because of the possible dangers to motorists and workers during this test, the test will be completed after operation has been enabled. A vehicle will be sent to the location and stopped on a shoulder in an active detection zone. An inspector or TMC operator will observe to verify the detection of the stopped vehicle. This test will be performed on all of the video detection system installations up to five, or on a random sample of five if the total number of video detection system installations is greater than this. If all parameters are met for all locations tested, all that are installed on the project will be considered acceptable. If one or more locations fail, a second set of five locations will be examined. If a failure in the second set is recorded, the Contractor will be required to take remedial action until a pass of five locations is achieved.

Speed - The system shall provide an average vehicle speed measurement within ten percent ($\pm 10\%$) of actual speeds. These levels of accuracies shall be provided for traffic traveling between 20 and 75 mph. These levels of accuracies shall be provided during both day and night conditions. Personnel participating in and observing these tests will use either radar detectors or probe vehicles to conduct this accuracy demonstration. This test will be performed after the system is in operation as described in the stopped vehicle tests. Failure to achieve accuracy will require remedial/corrective action by the Contractor and repeated testing until accuracy is achieved.

Other Parameters (Occupancy, Flow Rate, Headway, Density) - If the measurements of speed and volume as described above fall within acceptable specified limits of accuracy, and the system is demonstrated to be able to provide the calculated values for these parameters, no further testing will be required. The formulas/algorithms used for the calculations by the system will be provided to the MDOT State Traffic Engineer as part of the documentation of the system.

907-649.02.1.8--Video Camera Sensor. The video camera sensor shall be compatible with the

Video Detection System processor and as a minimum meet the following requirements:

- 1) Lens: The video camera sensor will be equipped with a 16X to 22X motor driven variable focal length zoom lens.
- 2) Image Sensor: Minimum resolution of 470H X 350V TV lines.
- 3) The Sensor's picture element shall be 768H pixels X 494V pixels or greater.
- 4) Input power: 115 VAC $\pm$ 15%, 60 Hz $\pm$ 10% single phase power. Any required power conversion shall be contained within the VDS, the chassis, or facilitated by a power adapter provided.
- 5) Electromagnetic interference (EMI): The video camera sensor and associated connected equipment will comply with FCC Part 15, Subpart J, Class A device requirements.
- 6) Video camera sensor enclosure: The video camera sensor shall be installed in an enclosure:
 - a. The enclosure shall meet NEMA 250 Type 4 enclosure standards and shall be available un-pressurized or optionally pressurized types.
 - b. If the enclosure is pressurized, it shall be pressurized to at least 5 psi $\pm$ 1 psi and a low pressure sensor with an alarm output to the Video Detection System processor and cabinet assembly will be provided.
 - c. Provide a sun shield visor on the front of the enclosure, which is sufficiently adjustable to divert water away from the video camera sensor lens and also to prevent direct sunlight from entering the iris when mounted in its installed position.
 - d. Install the sun shield so that it does not impede operation or performance accuracy of the video camera sensor or require removal of the video camera sensor enclosure for adjustment.
 - e. Use an enclosure that allows the video camera sensor horizon to be rotated in the field during installation.
- 7) Weight: The standard video camera sensor will not weigh more than 10 lbs., including the mount, shield and camera. If a pressurized video camera sensor and housing is used, the unit including a standard mount, shield and camera will not weigh more than 13 lbs.
- 8) Mounting: The video camera sensor assembly mounting and hardware shall be included as part of the system.
 - a. The video camera sensor horizon shall be adjustable without removing the camera, mounting bracket and enclosure, or sun shield.
 - b. The video camera sensor assembly shall be capable of sustained wind loading of 90 mph with a 30% gust factor.
- 9) The video camera sensor assembly shall include all cabling, mounts, fasteners, conduit, connectors, etc., to provide power and connectivity to the VDS cabinet equipment for a fully functional system. The connection for the power and video cable shall be the connection type recommended by the manufacturer.

907-649.02.1.9--Video Detection System Processor. The Video Detection System processor shall meet the following requirements:

- 1) Shall be contained/integrated in the VDS sensor enclosure.
- 2) Shall process and make available for transmission (upload) to the TMC data stored in operator selectable time periods of 10, 20, or 30 seconds and 1, 5, 10, 15, 30, or 60

- minutes (default setup by Contractor shall be 1 minute).
- 3) Shall be password protected to prohibit unauthorized changes, if enabled by user. A minimum of ten (10) different users may be authorized with different levels of authority.
- 4) Observation of detection operation only, without ability to edit configurations, may be allowed with no password. The VDS shall record time and date of each password usage.
- 5) Shall provide the data and MPEG-4 encoded video through a communications interface device via an Ethernet version 2.0 IEEE 802.3 compliant 10/100 Base-T Auto Sensing port in real-time.
- 6) The processor shall be IP-addressable using the user datagram protocol/IP or UDP/IP message packet and routing standard.
- 7) A communications address shall be automatically assignable or manually configured to the unit during setup.
- 8) Upon receiving a command with the appropriate address from the TMC central computer, the unit shall respond with the accumulated traffic parameter measurements from the period since the last request.
- 9) Shall operate reliably in a typical roadway aerial mounting and under the following conditions:
 - a. Shall have an operating ambient temperature range: -29°F to 140°F (-2034~ C to 60°C)
 - b. Shall have an operating humidity tolerance of: 5% -- 95% humidity per NEMA TS 1-1989 (R 1994).
 - c. Vibration: Provide a video camera sensor and enclosure that maintains its functional capability and physical integrity when subjected to a vibration of 5 to 30 Hz up to 0.5 gravity applied to each of three mutually perpendicular axes (NEMA TS 1-1989 (R 1994)).
 - d. Shock: Ensure the video camera sensor and enclosure can withstand a minimum 9G shock. Neither permanent physical deformation nor inoperability of the video camera sensor and enclosure shall be sustained from this shock level.
 - e. Acoustic Noise: Provide a video camera sensor and enclosure that can withstand a 150 dB for 30 minutes continuously, with no reduction in function or accuracy.
- 10) Shall be capable of storing data for an extended period of time.
 - a. All traffic parameter data shall be stored in non-volatile memory within the video detection system processor.
 - b. All traffic parameter data shall be capable of being retrieved using the central computer and by means of an automatic polling client application.
 - c. Upon loss of communications, the system shall automatically store no less than seven (7) days of data in 30 second increments based on the default set-up required. At a minimum, data storage requirements apply to volume, speed and occupancy requirements.
- 11) Shall be powered by input power: 115 VAC $\pm$ 15%, 60 Hz $\pm$ 10% single phase power. Any required power conversion shall be contained within the VDS, the chassis, or facilitated by a power adapter provided Total power for a single video camera sensor and the processor shall not exceed 15 watts with the camera heater in operation.
- 12) Shall have transient protection that meets the requirements of NEMA TS 1-1989 (R 1994) and NEMA T52-1992 standards.
- 13) Shall recover from power interruptions. Momentary interruptions in power to the

- processor shall not result in loss of function upon restoration of power.
- 14) In the event of an interruption of power, the equipment shall automatically recover when power is restored. All detection zones, stations, and parameters shall be returned to their last configurations.
 - 15) Each VDS location shall be capable of simultaneously processing data and images from four separate video camera sensor installations for detection and analysis.
 - 16) The system shall be capable of detecting objects in EIA-170 (monochrome) and NTSC (color), or CCIR (monochrome) and PAL (color) video signals.
 - 17) Shall allow still image capture (snapshot) from any of the video detection system processor's active video inputs and provide for downloading the image to the central computer for display or storage as a picture file; capture and transmit the still image to the central computer in one minute or less.

907-649.02.2--Materials Type 2 Vehicle Detection System. The Type 2 video detection system shall consist of power supply, video cameras, all necessary video and power cabling with end connectors, mounting brackets, lightning protection as recommended by the manufacturer, video detection processors/extension modules capable of processing the number of camera and phase combination video sources shown on the project plans or in the purchase order. A sufficient number of cameras shall be provided to process vehicle presence, passage and system detection zones as shown on the project plans or listed on the purchase order.

907-649.02.2.1--Functional Requirements for Type 2 Vehicle Detection System. The video detection system configuration shall utilize video processors with one or more video inputs and one video output, responding to specific site applications, camera locations and detection zones shown on the project plans. Video processors or interface modules shall be provided which plug directly into TS-1 and TS-2 detector racks without adapters. Extension modules which allow detection zones from one camera to be routed to other card slots shall also be provided. Remote programming and monitoring capability from a distant Traffic Management Center shall be mandatory. The system shall be Ethernet compatible with an RJ4S port.

907-649.02.2.2--Interface Type 2 Video Detection System. The Contractor shall provide the following:

- 1) video inputs that accept RS 170 (NTSC) signals from an external video source. A BNC type interface connector shall be provided and located on the front of the video processing unit.
- 2) a LED indicator to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.
- 3) one video output per processor module. The video output shall be RS 170 compliant and shall pass through the input video signal. The video output shall have the capability to show text and graphical overlays to aid in system setup. The overlays shall display real-time actuation of detection zones upon vehicle detection or presence. Control of the overlays and video switching shall also be provided through the serial communications port. The video output interface connector shall be BNC or RCA type. If RCA connector is used, an RCA to BNC adapter shall be provided.

- 4) a serial communications port on the front panel. The serial port shall be compliant with RS-232 or RS-422 electrical interfaces and shall use a DB9 or RJ4S type connector. The serial communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information.
- 5) interface software. The interface protocol shall support multi-drop or point-to-multipoint communications. Each video detection system shall have the capability to be individually IP addressable either built in or with third party video server units.
- 6) open collector contact closure outputs meeting NEMA T52 requirements. The open collector output will be used for vehicle detection indicators as well as discrete outputs for alarm conditions.
- 7) LED status indicators on the front panel. The LED's shall illuminate when a contact closure output occurs. Provide one output LED for each contact closure output.
- 8) a mouse compatible port (PS-2 or USB) on the front panel of the video processing unit. The mouse port shall be used as part of the system setup and configuration. A compatible mouse shall be provided with each video detection system.

907-649.02.2.3--Functionality. Detection zones shall be programmed via an on-board menu displayed on a video monitor and a pointing device connected to the video detection processor. The menu shall facilitate placement of detection zones and setting of zone parameters or to view system parameters. The video detection processor shall detect vehicles in real time as they travel across each detection zone. The video detection processor shall have an RS-232 (DB9 or RJ4S) port for communications with an external computer. The video detection processor port shall be multi-drop capable.

It shall be possible to upload and save all configuration data including loop placement and save the file on a computer. It shall be possible to download a configuration file from a computer to the detection device.

The video detection processor shall accept new detection patterns from an external computer through the RS-232 port when the external computer uses the correct communications protocol for downloading detection patterns.

A WindowsTM based software designed for local and remote connection shall be provided for video capture, real-time detection indication and detection zone modification capability.

The video detection processor shall send its detection patterns to an external computer through the RS-232 port.

The video detection processor shall default to a safe condition, such as minimum recall, fixed recall or a constant call on each active detection channel, in the event of unacceptable interference with the video signal, low visibility conditions, or power failure.

A user-selected output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.

907-649.02.2.4--Vehicle Detection. A minimum of 24 detection zones per camera input shall be possible, and each detection zone shall be capable of being sized to suit the site and the desired vehicle detection area.

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be ANDed together to indicate vehicle presence on a single phase of traffic movement.

Placement of detection zones shall be done by using only a pointing device, and a graphical interface built into the video detection processor and displayed on a video monitor, to draw the detection zones on the video image from each video camera. Detection zones created in this manner shall be compatible with the PC-based software provided with the system.

The video detection processor's memory shall be non-volatile to prevent data loss during power outages.

When a vehicle is detected crossing a detection zone, the corners or entire zone of the detection zone shall flash/change color on the video overlay display to confirm the detection of the vehicle. It shall be possible to record the operation of the unit in real time with the detection zones operating.

Detection shall be at least 98% accurate in all weather conditions, with slight degradation acceptable under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility.

The video detection processor shall maintain normal operation of existing detection zones when one zone is being added or modified.

The video detection processor shall output a constant call on any detector channel corresponding to a zone being modified and shall resume normal operation upon completion.

Detection zones shall be directional to reduce false detections from objects traveling in directions other than the desired direction of travel in the detection area.

The video detection processor shall process the video input from each camera using a microprocessor at 30 frames per second at one volt peak to peak 75 ohms or EIA 170 NTSC video standard.

The video detection processor shall output minimum recall, fixed recall or constant call for each enabled detector output channel if a loss of video signal occurs. The recall behavior shall be user selectable for each output. The video detection processor shall output a constant call during the background "learning" period.

Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds in increments of 0.1 seconds.

Up to six detection zones per camera view shall have the capability to count the number of vehicles detected, measure classification and speed. The data values shall be internally stored within the processor module for later retrieval through the RS-232 port. The data collection interval shall be user definable in periods of 5, 15, 30, or 60 minutes or by intersection cycle. Real-time data shall be retrieved from the PC-based software provided with the system.

907-649.02.2.5--Camera. Cameras shall be completely compatible with the video detection processor and shall be certified by the manufacturer to ensure proper system operation.

The detection system shall produce accurate detector outputs under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.009 to 930 foot-candles (0.1 lux to 10,000 lux).

The camera shall use a color CCD sensing element with resolution of not less than 470 lines horizontal and 400 lines vertical.

The camera shall include mechanisms to compensate for changing of lighting by using an electronic shutter and/or auto-iris lens.

The camera shall include a variable focal length lens with factory preset focus that requires no field adjustment. Zooming of the camera lens to suit the site geometry by means of a portable interface device designed for that purpose. The horizontal field of view shall be adjustable from 8.1 to 44.3 degrees. Camera configuration shall be customized for each approach based on field site conditions and the project plans.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall be field rotatable to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view.

The camera enclosure shall include a thermostatically controlled heater to assure proper operation of the lens shutter at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The heater shall directly heat the glass lens and require less than 5 watts over the temperature range.

Power consumption of the camera shall be 15 watts or less under all conditions.

The camera enclosure shall be equipped with separate, weather-tight connections for power and setup video cables at the rear of the enclosure. These connections shall allow diagnostic testing and viewing of video at the camera while the camera is installed on a mast arm or pole using a

lens adjustment module furnished under this bid item.

The video signal output by the camera shall in accordance with NTSC standards.

All necessary mounting brackets shall be mounted to pole shafts, mast arms, or other structures to mount cameras as indicated on the project plans. Mounting brackets shall result in a fixed-position mounting. Mounting Brackets shall be included at no additional cost.

907-649.02.2.6--Video Cable. The cable provided shall be as recommended by the manufacturer for optimal video detection performance. The cable shall be either multi-paired jacketed cable or coaxial cable. Coaxial cable can be used between the camera and the video detection processor in the traffic signal controller cabinet and shall be Belden 8281 or equivalent. The signal attenuation shall not exceed 0.78 dB per 100 feet at 10 MHz. Nominal outside diameter shall be approximately 0.305 inch. Coaxial cable shall be suitable for installation in conduit and in exposed sunlight environment. 75-ohm BNC plug connectors shall be used at both the camera and cabinet ends. The coaxial cable, BNC connector, and crimping tool recommended by the manufacturer of the video detection system shall be used and installed per the manufacturer's recommended instructions to ensure proper connection.

Multi-paired jacketed cable shall include a minimum of four individually paired No. 19 AWG communication cables with an overall shield. Pairs shall not be individually shielded. Paired cable and power cables may be installed under the same outer jacket.

907-649.02.2.7--Power Cable. Power cable for 120VAC cameras shall be rated for 90°C, 300 volt, 16 AWG, stranded, three-conductor cable with a nominal outside diameter of approximately 0.330 inch. Conductor insulation color code shall be black, white and green. Outside jacket shall be black.

Power cable for 24 Volt or other low voltage cameras shall be the cable recommended by the manufacturer.

Camera power cable shall be suitable for installation in conduit and in exposed sunlight environment, and UL listed.

The power and video cable may be installed under the same outer jacket.

907-649.02.2.8--Surge Protection. Surge protection devices shall be provide for all new or added video detection devices as recommended by the manufacturer.

Coaxial cable shall be protected with an inline surge suppressor as recommended by the manufacturer or a panel mounted surge suppressor as recommended by the manufacturer or approved equal, installed and grounded per video detection manufacturer's recommendations.

907-649.02.2.9--Physical and Environmental Specifications.

Video Detection System Processor: The video detection system processor shall operate reliably

in a typical roadside traffic cabinet environment. Internal cabinet equipment and a video detection system processor shall be provided that meets the environmental requirements of NEMA T52-2003 Section 2. If the processor is located in the sensor, it shall meet the same requirements.

Video Camera Sensor: The operating ambient temperature range shall be -30°F to 140°F. Additionally, a heater shall be included to prevent the formation of ice and condensation in cold weather. Do not allow the heater to interfere with the operation of the video camera sensor electronics, or cause interference with the video signal.

Vibration: Vibrations shall meet the requirements of TS-2 2003 section 2.1.9.

Shock: Shock shall meet the requirements of TS-2 2003 section 2.1 .10.

Acoustic Noise: A video camera sensor and enclosure shall be provided that can withstand 150 dB for 30 minutes continuously, with no reduction in function or accuracy.

907-649.02.3--Materials Multi-Sensor Vehicle Detection System.

907-649.02.3.1--General. The multi-sensor system shall utilize two different sensors of different technologies, video imaging and radar, to detect and track licensed and unlicensed vehicles at distances up to 600 feet. The sensor system shall fuse vehicle information from the two sensors to provide highly accurate and precise detection for special or advanced applications.

The multi-sensor system shall use a primary detector rack mounted processor to interface with the traffic control cabinet. The module shall process information from both video imaging and radar sensors simultaneously in real-time.

907-649.02.3.2--System Configurations. The multi-sensor detection system (MSDS) shall consist of up to four video cameras and radar units, detection processors (DP) capable of processing from one to four intersection approaches, output extension modules, surge suppressors, a setup tool and a pointing device.

The proposed MSDS shall be available in various configurations to allow maximum deployment flexibility. Each configuration shall have an identical user interface for system setup and configuration. The communications protocol to each configuration shall be identical and shall be hardware platform independent.

The system shall include software that detects vehicles in multiple lanes. Video imaging detection zones shall be defined using only an on-board video menu and a pointing device to place the zones on a video image. Up to 24 video detection zones per camera view shall be available. Two additional trigger zones for the radar sensor shall be available and be configurable by using the same system setup menu on the DP. A separate computer shall not be required to program the detection zones. A pre-programmed setup tool is required to align and input radar information and set the camera field of view (zoom and focus).

907-649.02.3.3--Multi-Sensor Detection System Hardware. The MSDS hardware shall consist of the following four elements:

- 1) Video Imaging Camera Sensor
- 2) Radar Sensor
- 3) Sensor Data Combiner
- 4) Detection Processor

907-649.02.3.3.1--Video Imaging Camera Sensor. The video imaging camera sensor shall meet the following minimum requirements:

To accommodate deployment flexibility, the MSDS camera sensor shall be compatible with the Data Processor platforms. The MSDS camera sensor shall be supplied by the MSDS manufacturer.

The advanced camera enclosure shall utilize Indium Tin Oxide (ITO) technology for the heating element of the front glass. The transparent coating shall not impact the visual acuity and shall be close to optically clear.

Cable terminations at the data combiner for video and power shall not require crimping or special tools.

The camera sensor shall allow the user to set the focus and field of view via Wi-Fi connectivity.

The camera shall produce a useable video image of the bodies of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 1.0 lux to 10,000 lux.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.

The imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled.

The imager shall employ three dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise.

The camera imager shall employ wide dynamic range (WDR) technology to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB.

The camera shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 550 TV lines.

The camera sensor shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/1 to 1/10,000th second.

The camera sensor shall utilize automatic white balance.

The camera sensor shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier.

The horizontal field of view shall be adjustable from 4.6 to 53.6 degrees. This camera configuration may be used for the majority of detection approaches in order to minimize the setup time and spares required by the user. The lens shall be a 12x zoom lens with a focal length of 3.7mm to 44.0mm.

The lens shall also have an auto-focus feature with a manual override to facilitate ease of setup.

The camera shall incorporate the use of preset positioning that store zoom and focus positioning information. The camera shall have the capability to recall the previously stored preset upon application of power.

The camera shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. The housing shall allow the camera to be rotated to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view.

The camera enclosure shall be designed so that the pan, tilt and rotation of the camera assembly can be accomplished independently without affecting the other settings.

The camera enclosure shall include a proportionally controlled Indium Tin Oxide heater design that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure.

The glass face on the front of the enclosure shall have an anti-reflective coating to minimize light and image reflections.

When mounted outdoors in the enclosure, the camera shall operate in a temperature range from -34°C to +74°C and a humidity range from 0% RH to 100% RH. Measurement of satisfactory video shall be based upon DP system operation.

The camera sensor shall acquire its power from the sensor data combiner.

Recommended camera placement height shall be 18 - 33 feet above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

The video signal shall be fully isolated from the camera enclosure and power cabling

A weather-proof protective cover shall be provided to protect all terminations at the camera.

907-649.02.3.3.2--Radar Sensor. The radar sensor shall meet the following minimum requirements:

The radar sensor shall operate in the 24 GHz frequency band.

The radar detection range shall be 600 feet minimum, +/- 5%.

The radar sensor shall be able to track up to 20 independent objects simultaneously.

Object speed detection shall be within a range of 0 to 150 miles per hour +/- 1.0 miles per hour.

The radar sensor shall be able to detect vehicles in 1 to 4 traffic lanes.

The radar sensor shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications. The housing shall allow the radar to be adjusted to allow proper alignment between the sensor and the traveled road surface.

When mounted outdoors in the enclosure, the radar shall operate in a temperature range from - 34°C to +74°C and a humidity range from 0% RH to 100% RH.

The radar sensor shall communicate with the sensor data combiner.

The radar sensor shall acquire its power from the sensor data combiner.

Data and power cables between the radar sensor and sensor data combiner shall be fully isolated from the sensor enclosure.

Multi-Sensor Assembly

Both camera and radar sensors shall be housed in an overall, single enclosure assembly.

The overall size of the multi-sensor enclosure shall not exceed 14 inches x 15 inches x 17 inches.

The overall weight of the multi-sensor unit shall not exceed 11 pounds.

The effective projected area (EPA) shall not exceed 2.0 square feet.

The maximum power consumption for the multi-sensor assembly shall be less than 10 watts typical, 20 watts peak.

907-649.02.3.3.3--Sensor Data Combiner. The sensor data combiner shall meet the following minimum requirements:

A sensor data combiner that combines sensor information from both video and radar sensors shall be employed.

The sensor data combiner shall supply primary power to each sensor unit.

The sensor data combiner shall facilitate digital communications between the sensor data combiner and each of the sensor units.

The sensor data combiner shall get its primary power from an AC power source using industry standard 3-conductor cabling.

The sensor data combiner shall communicate with the detection processor using a single coax cable. Both video imaging and radar data shall use the single coax cable.

The sensor data combiner shall also employ industry standard Wi-Fi connectivity for remote sensor system setup using a mobile programming device such as a netbook or tablet computer. Video camera and radar sensor shall be able to be configured independently.

The sensor data signal shall be fully isolated from the mechanical enclosure and power cabling

Cable terminations at the sensor data combiner shall not require crimping tools.

The Sensor Data Combiner shall be housed in a weather-tight sealed enclosure conforming to IP-67 specifications.

907-649.02.3.3.4--Detection Processor. The detection processor shall meet the following minimum requirements:

Each sensor input shall accept RS170 (NTSC) or CCIR (PAL) signals from an external video source. The interface connector shall be BNC type and shall be located on the front of the processing unit. The sensor input shall have the capability to be terminated into 75-ohms or high impedance (Hi-Z) using dip switches or software control from the user menu. The sensor input shall also facilitate the data from the radar sensor.

A LED indicator shall be provided to indicate the presence of the sensor signal. The LED shall

illuminate upon valid sensor synchronization and turn off when the presence of a valid sensor signal is removed.

One video output shall be provided. The video output shall be RS170 or CCIR compliant and shall pass through the input video signal. For multi-channel video input configurations, a momentary push-button shall be provided on the front panel to cycle through each input video channel. In the absence of a valid sensor signal, the channel shall be skipped and the next valid sensor signal shall be switched. The real time video output shall have the capability to show text and graphical overlays to aid in system setup. The overlays shall display real-time actuation of detection zones upon vehicle detection or presence. Overlays shall be able to be turned off by the user. Control of the overlays and sensor switching shall also be provided through the serial communications port. The video output interface connector shall be positive locking BNC type. Friction type (e.g. RCA type) connectors shall not be allowed.

A serial communications port shall be provided on the front panel. The serial port shall comply with EIA232 electrical interfaces and shall use a DB9 type connector mounted on the front panel of the DP. The serial communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information. The interface protocol shall be documented or interface software shall be provided. The interface protocol shall support multi-drop or point-to-multipoint communications. Each MSDS shall have the capability to be addressable. The DP shall support data rates of 1200 bps to 230,400 bps, inclusive.

Open collector (contact closure) outputs shall be provided. Four (4) open collector outputs shall be provided for the single or dual channel rack-mount configuration. Additionally, the DP shall allow the use of extension modules to provide up to 24 open collector contact closures per camera input. Each open collector output shall be capable of sinking 30 mA at 24 VDC. Open collector outputs will be used for vehicle detection indicators as well as discrete outputs for alarm conditions. The DP outputs shall be compatible with industry standard detector racks assignments.

Logic inputs such as delay/extend or delay inhibit shall be supported through the appropriate detector rack connector pin or front panel connector in the case of the I/O module. For DPs and extension modules, 4 inputs shall be supported via detector rack interface. The I/O module shall accommodate eight (8) inputs through a 15-pin "D" connector.

Detection status LEDs shall be provided on the front panel. The LEDs shall illuminate when a contact closure output occurs. Rack-mounted detection processors shall have a minimum of four (4) LEDs. Rack-mounted extension modules shall have two (2), four (4) or eight (8) LEDs (depending upon extension module type) to indicate detection.

The front panel of the DP shall have detector test switches to allow the user to manually place calls on each DP output channel. The test switch shall be able to place either a constant call or a momentary call depending on the position of the switch.

A USB mouse port shall be provided on the front panel of the rack mount detection processing unit. The mouse port shall not require special mouse software drivers. The mouse port shall be used as part of system setup and configuration. A mouse shall be provided with each detection processor.

Extension modules shall be connected to the DP by an 8-wire twisted-pair cable with modular RJ45 connectors. DP and EM communications shall be accommodated by methods using differential signals to reject electrically coupled noise.

Extension modules (EM) shall be available to eliminate the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack to provide additional open collector outputs. The extension module shall be available in both 2- and 4-channel configurations. EM configurations shall be programmable from the DP. A separate I/O module with 32 outputs through a 37-pin "D" connector on the front panel and eight (8) inputs through a 15-pin "D" connector using an external wire harness for expanded flexibility shall also be available.

The DP and EM shall be specifically designed to mount in a standard detector rack, using the edge connector to obtain power, provide contact closure outputs and accept logic inputs (e.g. delay/extend). No adapters shall be required to mount the DP or EM in a standard detector rack. Detector rack rewiring shall not be required.

The DP shall utilize non-volatile memory technology to store on-board firmware and operational data.

The DP shall enable the loading of modified or enhanced software through the EIA232 or USB port (using a USB thumb drive) and without modifying the DP hardware.

The DP and EM shall be powered by 12 or 24 volts DC. DP and EM modules shall automatically compensate for either 12 or 24 VDC operation. DP power consumption shall not exceed 7.5 watts. The EM power consumption shall not exceed 3 watts.

The DP shall operate satisfactorily in a temperature range from -34°C to +74°C and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

An Edco CX-06M video surge suppresser shall be provided for each sensor input. The surge suppresser shall be appropriately grounded to the cabinet ground rod using 14 AWG minimum.

907-649.02.3.4--System Software. The system software shall meet the following general system functions:

Detection zones shall be programmed via an on board menu displayed on a video monitor and a pointing device connected to the DP. The menu shall facilitate placement of detection zones and setting of zone parameters or to view system parameters. A separate computer shall not be required for programming detection zones or to view system operation.

The DP shall store up to three different detection zone patterns in non-volatile memory. The DP can switch to any one of the three different detection patterns within one (1) second of user request via menu selection with the pointing device. Each configuration shall be uniquely labeled and able to be edited by the user for identification. The currently active configuration indicator shall be displayed on the monitor.

The DP shall detect vehicles in real time as they travel across each detection zone.

The DP shall accept new detection patterns from an external computer through the EIA232 port when the external computer uses the correct communications protocol for downloading detection patterns. A Windows™-based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.

The DP system shall have the capability to automatically switch to any one of the stored configurations based on the time of day which shall be programmable by the user.

The DP shall send its detection patterns to an external computer through the EIA232 port when requested when the external computer uses the appropriate communications protocol for uploading detection patterns.

The DP shall default to a safe condition, such as a constant call on each active detection channel, in the event of unacceptable interference or loss of the sensor signal.

The system shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all effected detection zones in a constant call mode. A user-selected alarm output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.

Up to 24 detection zones per camera input shall be supported and each detection zone can be sized to suit the site and the desired vehicle detection region.

The DP shall support two (2) independent trigger points for radar outputs for dilemma zone applications.

The DP shall provide up to 24 open collector output channels per sensor input using one or more extension modules.

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be AND'ed together to indicate vehicle presence on a single approach of traffic movement.

Placement of detection zones shall be done by using only a pointing device, and a graphical

interface built into the DP and displayed on a video monitor, to draw the detection zones on the video image from each video camera. No separate computer shall be required to program the detection zones.

When a vehicle is detected within a detection zone, a visual indication of the detection shall activate on the video overlay display to confirm the detection of the vehicle for the zone.

Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon site geometry, camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality.

The DP shall provide dynamic zone reconfiguration (DZR). DZR enables normal operation of existing detection zones when one zone is being added or modified during the setup process. The new zone configuration shall not go into effect until the configuration is saved by the operator.

Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.

The DP shall process the video input from each camera at 30 frames per second. Multiple camera processors shall process all video inputs simultaneously.

The DP shall output a constant call during the background learning period of no more than three (3) minutes.

Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.

Up to six video detection zones per sensor input shall have the capability to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the EIA232 port. The zone shall also have the capability to calculate and store average speed and lane occupancy at bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes. One of the radar sensor zones (the Near Zone) will also count vehicles and calculate and store the average speed and lane occupancy across the approach.

In addition to the count type zone, the DP shall be able to calculate and/or acquire average speed and lane occupancy using both video and radar sensors. These values shall be stored in non-volatile memory for later retrieval.

The DP shall have an "advance" zone type where detection outputs to the traffic controller is compensated for angular occlusion and distance.

The DP shall employ color overlays on the video output.

The DP shall have the ability to show phase status (green, yellow, or red) for up to eight (8) phases. These indications shall also be color coded.

The user shall have the ability to enable or disable the display of the phase information on the video output.

The DP shall have the capability to change the characteristics of a detection zone based on external inputs such as signal phase. Each detection zone shall be able to switch from one zone type (i.e. presence, extension, pulse, etc.) to another zone type based on the signal state. For example, a zone may be a "count" zone when the phase is green but change to a "presence" zone type when the phase is not green. Another application would be zone type of "extension" when the signal phase is green and then "delay" when red.

For alpha numeric user inputs, the DP shall utilize a virtual keyboard on the video overlay system to ease user input. The virtual keyboard shall use the standard QWERTY keyboard layout.

The DP shall aid the user in drawing additional detection zones by automatically drawing and placing zones at appropriate locations with only a single click of the mouse. The additional zone shall utilize geometric extrapolation of the parent zone when creating the child zone. The process shall also automatically accommodate lane marking angles and zone overlaps.

When the user wishes to modify the location of a zone, the DP shall allow the user move a single zone, multiple zones or all zones simultaneously.

When the user wishes to modify the geometric shape of the zone, the DP shall allow the user to change the shape by moving the zone corner or zone sides.

On screen zone identifiers shall be modifiable by the user. The user shall be allowed to select channel output assignments, zone type, input status, zone labels or zone numbers to be the identifier.

For multiple camera input DPs, the user shall have the ability to enable automatic video output switching. The dwell time for each sensor input shall be user programmable.

For the radar sensor zones the output can be triggered by presence of a vehicle only or by presence of a vehicle above a speed defined by the user.

907-649.02.3.5--Multi-Sensor Cable. The multi-sensor cable shall meet the following minimum requirements:

The coaxial cable to be used between the multi-sensor assembly and the DP in the traffic cabinet shall be Belden 8281. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. BNC plug connectors shall be used where applicable. The coaxial cable, BNC connector, and crimping tool shall be approved by the supplier of the MSDS, and the

manufacturer's instructions must be followed to ensure proper connection.

907-649.02.3.6--Power Cable. The power cabling shall be 16 AWG three-conductor cable with a minimum outside diameter of 0.325 inch and a maximum diameter of 0.490 inch. The cabling shall comply with the National Electric Code, as well as local electrical codes. Cameras may acquire power from the luminaire if necessary.

907-649.03--Construction Requirements. The Construction and testing requirements for Type 1 and Type 2 Video Detection Systems are the same.

907-649.03.1--General Requirements. The Contractor shall:

- 1) Install all video camera sensors, video detection system processors and associated enclosures and equipment at the locations specified in the Plans, in any related notice to bidders, or as directed.
- 2) Install all cabinet-mounted equipment in the intersection equipment cabinet or as specified in the Plans.
- 3) Cabling from video camera sensors shall be provided and installed in accordance with the video detection system manufacturer's recommendations.
- 4) Make all necessary adjustments and modifications to the total VDS prior to requesting inspection for system/device acceptance.
- 5) Mount the camera approximately two (2) feet below the top of the extension pole or separate pole or as shown in the Plans.
- 6) The camera shall be mounted so as to view approaching traffic unless otherwise directed.
- 7) The camera location and zone of detection shall be optimized as directed by the MDOT State Traffic Engineer, or authorized designee.
- 8) Adjust the video camera sensor zoom lens to match the width of the road/detection area, and minimize lane vehicle occlusion.
- 9) Fasten all other cabinet components, with hex-head or Phillips-head machine screws insulated with nuts (with locking washer or insert) or into tapped and threaded holes. Do not use self-tapping or self-threading fasteners.
- 10) Provide electrical cables for video, communications signaling and power supply between the cabinet and the VDS image sensor cameras as recommended by the video detection system manufacturer, and as required for a fully functional VDS.

907-649.03.2--Contractor Training. Installation of the video detection system shall be as recommended by the supplier and performed by a Contractor trained and certified by the supplier. Where time does not reasonably permit training of the installing Contractor, a supplier factory representative shall supervise and assist a Contractor during installation of the video detection system.

Installation of the multi-sensor detection system shall be as recommended by the supplier and performed by a Contractor with factory-certified installers and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.

907-649.03.3--Test Requirements. The Contractor shall conduct a Project Testing Program as required below. All costs associated with the Project Testing Program shall be included in overall contract prices; no separate payment will be made for any testing.

907-649.03.3.1--General Requirements. The Contractor is responsible for planning, coordinating, conducting and documenting all aspects of the Project Testing Program. The Project Engineer and/or authorized representatives are only responsible for attending and observing each test, and reviewing and approving the Contractor's test results documentation. The Project Engineer and/or authorized representatives reserve the right to attend and observe all tests.

Each test shall fully demonstrate that the equipment being tested is clearly and definitely in full compliance with all project requirements.

Test procedures shall be submitted and approved for each test as part of the project submittals. Test procedures shall include every action necessary to fully demonstrate that the equipment being tested is clearly and definitely in full compliance with all project requirements. Test procedures shall cross-reference to these Technical Specifications or the Project Plans. Test procedures shall contain documentation regarding the equipment configurations and programming.

No testing shall be scheduled until approval of all project submittals and approval of the test procedures for the given test.

The Contractor shall provide all ancillary equipment and materials as required in the approved test procedures.

The Contractor shall request in writing the Project Engineer's approval for each test occurrence a minimum of 14 days prior to the requested test date. Test requests shall include the test to be performed and the equipment to be tested. The Project Engineer reserves the right to reschedule test request if needed.

All tests shall be documented in writing by the Contractor in accordance with the test procedure and submitted to the Project Engineer within seven (7) days of the test. Any given test session is considered incomplete until the Project Engineer has approved the documentation for that test session.

All tests deemed by the Project Engineer to be unsatisfactorily completed shall be repeated by the Contractor. In the written request for each test occurrence that is a repeat of a previous test, the Contractor shall summarize the diagnosis and correction of each aspect of the previous test, that was deemed unsatisfactory. The test procedures for a repeated test occurrence shall meet all the requirements of the original test procedures, including review and approval by the Project Engineer and ITS Manager.

The satisfactory completion of any test shall not relieve the Contractor of responsibility to provide a completely acceptable and operating system that meets all requirements of this project.

907-649.03.3.2--Factory Acceptance Test (FAT). Factory Acceptance Tests shall be conducted at the Manufacturer or Contractor facility or at a facility acceptable to all parties. All equipment to be utilized for this project shall be subject to tests that demonstrate the suitability of the design and compliance with the contract requirements, unless an exception for an equipment item is granted by the Project Engineer. The tests shall be performed on production units identified to be delivered under this contract.

The FAT procedure shall demonstrate all requirements defined in these specifications are met, including, but not limited to: functional/system performance requirements, electrical requirements, data transmission/communication requirements, safety/password requirements, environmental requirements, and interface requirements with other components of the project system.

The Project Engineer reserves the right to waive FATs which are deemed to be unnecessary and reserves the right to witness all FATs that are determined to be critical to the project. At a minimum, the Project Engineer and/or authorized representative will be in attendance at the FAT for the first three (3) units tested. The FAT for the first three (3) units shall be conducted during the same period. The Project Engineer shall be notified a minimum of forty-five (45) calendar days in advance of such tests. Salary and travel expenses of the Project Engineer and authorized representatives will be the responsibility of MDOT. In case of equipment or other failures that make a retest necessary, travel expenses of the Project Engineer and authorized representatives shall be the responsibility of the Contractor. These costs shall be deducted from payment due the Contractor.

The vendor must complete the FAT on all remaining units on their own and submit documentation to the Project Engineer that the FATs were completed. The Project Engineer reserves the right to randomly attend those FAT tests.

No equipment for which a FAT is required shall be shipped to the project site without successful completion of factory acceptance testing as approved by the Project Engineer and the Engineer's approval to ship.

907-649.03.3.3--Standalone Acceptance Test (SAT). The Contractor shall perform a complete SAT on all equipment and materials associated with the field device site, including but not limited to electrical service, conduit, pull boxes, communication links (fiber, leased copper, wireless), control cables, poles, etc. A SAT shall be conducted at every field device site. Where applicable, a SAT shall be conducted for a fully installed and completed connection to the designated Traffic Management Center (TMC) or central data/video collection site.

The SAT shall demonstrate that all equipment and materials are in full compliance with all project requirements and fully functional as installed and in final configuration. The SAT shall also demonstrate full compliance with all operational and performance requirements of the project. All SATs will include a visual inspection of the cabinet and all construction elements at the site to ensure they are compliant with the specifications.

All SATs will include videos of the approach with detection zones overlaid showing detector activations.

- 1) One hour videos shall be made of each approach and compared to actual detection calls.
- 2) Thirty minute videos shall be made starting 15 minutes prior to sunrise and sunset for each approach and compared to actual detection calls.
- 3) All videos shall be date and time stamped.
- 4) Provide all videos to the Engineer with a summary of the results included total calls, missed calls and false calls.
- 5) All test results must meet a 98% accuracy requirement.

After a sixty (60) day burn-in period, the Contractor must demonstrate the accuracy requirements specified in Subsection 907-649.02.1.7 at selected intersections. The intersections to be tested will be randomly selected by the Project Engineer.

907-649.03.4--Warranty. The video detection system shall be warranted to be free of manufacturer defects in materials and workmanship for a period of one year from the date of final acceptance. Equipment covered by the manufacturer's warranties shall have the registration of that component placed in MDOT's name prior to final inspection. The Contractor is responsible for ensuring that the vendors and/or manufacturers supplying the components and providing the equipment warranties recognize MDOT as the original purchaser and owner/end user of the components from new. During the warranty period, the supplier shall repair or replace with new or refurbished material, at no additional cost to the State, any product containing a warranty defect, provided the product is returned postage-paid by the Department to the supplier's factory or authorized warranty site. Products repaired or replaced under warranty by the supplier shall be returned prepaid by the supplier.

The multi-sensor detection system shall be warranted to be free of manufacturer defects in materials and workmanship for a period of three years from the date of final acceptance.

During the warranty period, technical support shall be available from the supplier via telephone within four hours of the time a call is made by the Department, and this support shall be available from factory certified personnel. During the warranty period, updates and corrections to control unit software shall be made available to the Department by the supplier at no additional cost.

907-649.03.5--MDOT Employee Training. The Contractor shall submit to the Project Engineer for approval a detailed Training Plan including course agendas, detailed description of functions to be demonstrated and a schedule. The Contractor must also submit the Trainer's qualifications to the Project Engineer for approval prior to scheduling any training. The training must include both classroom style training and hands-on training in the field of the maintenance and troubleshooting procedures required for each component. The training should also consist of a hands-on demonstration of all software configuration and functionality where applicable.

The supplier of the detection system shall, at a minimum, provide a sixteen-hour operations and maintenance training class with suitable documentation for up to eight (8) persons selected by

the Department. The operations and maintenance class shall be scheduled at a mutually acceptable time and location.

907-649.03.6--Maintenance and Technical Support. The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the detection system. Spare parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale of said spare parts.

The suppliers shall maintain an ongoing program of technical support for the detection system. This technical support shall be available via telephone or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale of said technical support services.

The installation or training support shall be provided by a factory-authorized representative and shall be a minimum IMSA-Level II Certified Traffic Signal Technician.

All product documentation shall be written in the English language.

907-649.04--Method of Measurement. Video Detection System, 1 Sensor, of the Type specified, and Video Detection-Data Collection and Reporting Tool License will be measured as a unit per each.

Multi-Sensor Detection System, 1 Sensor will be measured as a unit per each.

Video Detection Training will be measured per lump sum after the completion of all training.

907-649.05--Basis of Payment. Video Detection System, 1 Sensor, of the Type specified, and Video Detection-Data Collection and Reporting Tool License, measured as prescribed above, will be paid for at the contract price per each, which price shall include installation, system integration, documentation, and testing of a complete video detection system site including video camera sensor/processor, the sensor environmental enclosure, five (5) space card rack including installation, minimum 175 Watt power supply card, all cables between cameras and the cabinet, attachment hardware and brackets, completion of all testing requirements and all work, equipment and appurtenances as required to provide and install a complete video detection system. The price bid shall also include all system documentation including: shop drawings, operations and maintenance manuals, wiring diagrams, block diagrams and other materials necessary to document the operation of the video detection system. This price shall be full compensation for all labor, tools, materials, equipment and incidentals necessary to complete the work.

Multi-Sensor Detection System, 1 Sensor, measured as prescribed above, will be paid for at the contract price per each, which price shall include installation, system integration, documentation, and testing of a complete multi-sensor detection system site including video imaging camera sensor, radar sensor, sensor data combiner, detection processor, the sensor environment enclosure, five (5) space card rack including installation, minimum 175 Watt power supply card, all cables between sensors and the cabinet, attachment hardware and brackets, completion of all

testing requirements and all work, equipment and appurtenances as required to provide and install a complete multi-sensor detection system. The price bid shall also include all system documentation including: shop drawings, operations and maintenance manuals, wiring diagrams, block diagrams and other materials necessary to document the operation of the multi-sensor detection system. This price shall be full compensation for all labor, tools, materials, equipment and incidentals necessary to complete the work.

Video Detection Training, measured as prescribed above, will be paid for at the contract lump sum price, which price shall be full compensation for all training costs.

Payment will be made under:

907-649-A: Video Detection System, 1 Sensor, Type ____	- per each
907-649-B: Video Detection-Data Collection and Reporting Tool License	- per each
907-649-C: Video Detection Training	- lump sum
907-649-D: Multi-Sensor Detection System, 1 Sensor	- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-699-5

CODE: (SP)

DATE: 12/17/2013

SUBJECT: Construction Stakes

Section 699, Construction Stakes, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby deleted and replaced as follows.

SECTION 907-699 - CONSTRUCTION STAKES

907-699.01--Description. This work consists of performing all calculations and other work necessary to establish and/or verify all horizontal and vertical control data; and furnishing, placing and maintaining roadway construction stakes or bridge construction stakes, or both, necessary for the proper prosecution of all features and items of the work under contract. This shall include, but not be limited to, grades and drainage structure locations, lengths, elevations and skews. When the contract includes a pay item for roadway construction stakes as provided herein, any references in other sections of the Standard Specifications to establishment of control points or construction staking "by the Department" shall be construed to mean "by the Contractor".

This work may be performed utilizing Automated Machine Guidance technologies and systems in accordance with the standard specifications and contract documents. Automated Machine Guidance (AMG) is defined as the utilization of positioning technologies such as Global Positioning Systems (GPS), Robotic Total Stations, lasers, and sonic systems to automatically guide and adjust construction equipment according to the intended design requirements. Global Positioning Systems (GPS) shall NOT be used for determining any points above the subgrade line. The Contractor may use any type of AMG system(s) that result in compliance with the contract documents and applicable Standard Specifications.

Automated Machine Guidance (AMG) is not a mandatory requirement. Automated Machine Guidance (AMG), conventional staking, or a combination of both may be used at the Contractor's option for staking on this project.

907-699.02--Materials. The Contractor shall furnish all personnel, materials, equipment and devices necessary for determining, establishing, setting, checking and maintaining points, lines, grades and layout of the work. All surveying equipment shall be properly adjusted and suited for performing the work required. Traffic control necessary for the proper execution of the work shall be furnished by the Contractor without separate measurement for payment. Stakes shall be of sufficient length, thickness and quality to serve the purpose for which they are being used.

All equipment required to accomplish automated machine guidance shall be provided by the Contractor. The Contractor may use any type of AMG equipment that achieves compliance with the contract documents and applicable Standard Specifications.

The Contractor shall provide the Department with an acceptable portable grade-verification device (Rover) to be used by the Department during the duration of the contract. On large projects with high production rates, the Contractor may have to provide more than one device. At the end of the contract, the device will be returned to the Contractor. This device shall have the same capabilities as the unit used by the Contractor.

907-699.03--Construction Requirements.

907-699.03.1--General. The Department will establish, one time only, secondary control points with elevations at distances not to exceed 1500 feet or that minimum distance necessary to maintain inter-visibility. For bridge work, the Engineer's field control will consist of a stationed baseline reference point near each end of the bridge(s) and one accessible bench mark near each bridge site. For the purpose of determining responsibility for construction stakes, lines and grades, a box bridge will not be considered as a bridge. The Contractor shall verify the accuracy of the control points before proceeding with the layout for construction.

When errors are discovered and control points do not agree with the plans, the Contractor shall promptly notify the Engineer in writing, and explain the problem in detail. The Engineer will advise the Contractor within five (5) working days of any corrective actions which may be deemed necessary.

The Contractor will be responsible for verifying and modifying, as necessary to best fit existing field conditions, lengths, locations, elevations and skew angles of all drainage structures shown on the construction plans. All junction box and inlet locations and heights shall also be verified and modified as necessary to fit existing field conditions. Modifications to the plans shall not be made without the consent of the Project Engineer. The Contractor will not be responsible for determining the size of drainage structures, but should immediately report any suspected error to the Engineer. Heights of fill over drainage structures shall be checked to verify class of pipe, bedding and the appropriate standard and/or modified standard drawing(s) required in the construction with any differences from the plans being reported to the Engineer.

The Contractor shall perform work necessary to verify alignment and plan grades on all roadway intersections and tie-ins. Any discrepancies in grades, alignment, location and or dimension detected by the Contractor shall immediately be brought to the attention of the Project Engineer.

The Contractor shall employ sufficient qualified personnel experienced in highway surveying and layout to complete the work accurately. The Contractor shall also determine and provide all additional grade controls and staking operations necessary to secure a correct layout and construction of the work. All minor variations in layout and grades required to meet field conditions shall be resolved with the Engineer and shall not be considered justification for adjusting contract price or time.

Examples of minor variations in layout and grades are:

- (a) Adjustment of drainage or other structure length, alignment, and flow line elevation.

(b) The adjustment of grades and alignment at roadway intersections, cross-overs, railroad crossings, interchanges, existing bridges and roadways.

(c) Adjustment of curve data.

The Contractor will be responsible for calculating and laying out all additional lines, grades, elevations and dimensions necessary to construct the work required in the plans. All grades and other layout data computed by the Contractor shall be recorded and a copy of this data shall be furnished, with sufficient time for checking, to the Engineer before field work is started. The originals of all data shall be furnished to the Engineer on or before final inspection for the Department's permanent file. The Contractor shall also furnish personnel to assist the Engineer in taking tolerance verification checks or other notes to determine whether specified tolerances are met. Any inspection or checking of the Contractor's layout by the Engineer and the approval of all or any part of it will not relieve the Contractor of the responsibility to secure proper dimensions, grades, and elevations of the several parts of the work.

Prior to beginning construction on any structure which is referenced to an existing structure or topographical feature, the Contractor shall check the pertinent location and grades of the existing structures or topographical features to determine whether the location and grade shown on the plans are correct.

The Contractor shall stake centerline control at each station, BOP, EOP, PC, PT, SC, CS, TS, ST, and equations just before field cross sectioning by the Department for both original and final cross sections.

The Contractor shall furnish "as built" finish centerline elevations to the Project Engineer prior to final inspection of the project.

The Contractor shall set stakes and/or flags on the right-of-way line at each station and right-of-way break or as directed by the Engineer before clearing operations are started on any section of roadway.

Regardless of the method used, the Contractor shall meet the surface tolerances addressed in Section 321.

The Contractor shall exercise care in the preservation of stakes and bench marks and shall reset them when they are damaged, lost, displaced or removed. The Contractor shall use competent personnel and suitable equipment for the layout work required and shall provide that it be performed under the supervision of, or directed by, a Registered Professional Engineer or Registered Land Surveyor who is duly registered and entitled to practice as a Professional Engineer or Professional Land Surveyor in the State of Mississippi. The duties performed by said Registrant shall conform to the definitions under the "practice of engineering" and practice of "land surveying" in Mississippi Law and the latest edition of the MDOT Survey Manual. The MDOT Survey Manual can be obtained online at the following address.

<http://sp.mdot.ms.gov/RoadwayDesign/Pages/MDOT-Survey-Manual.aspx>

The Contractor shall not engage the services of any person in the employ of the Department for the performance of any of the work covered by this Section or any person who has been employed by the Department within the past six months except those who have legitimately retired from service with the Department during this period.

All cross sections, measurements, and tickets required for determining pay quantities will be the responsibility of the Department.

The Department reserves the right to check for accuracy any or all of the Contractor's layout work and shall be assisted by the Contractor's personnel in such checking. When errors or discrepancies are found, the Contractor will take measures necessary to correct, at no expense to the State, any construction that has been performed using the improper layout. Any inspection, checking and approval thereof by the Engineer of work for which the Contractor is responsible will not relieve the Contractor of responsibility to secure correct dimensions, grades, elevations, alignments and locations of the work for satisfactory completion of the project and as a condition for final acceptance by the Department.

907-699.03.2--Conventional Staking. In addition to the requirements set forth in Subsection 907-699.03.1, the following shall be required when using the conventional staking method.

On grading projects, the Contractor shall set slope stakes at each station and at the beginning and end of spirals and curves. Closer intervals will be required for sharp changes in grades or alignment, widening and certain other geometric details.

The Contractor shall set subgrade blue tops on centerline, break points and at the left and right subgrade shoulder lines at intervals of not more than 100 feet on tangents and intervals of not more than 50 feet in curves. Closer intervals will be required for sharp changes in grades or alignment, widening, or super elevation.

The Contractor shall furnish personnel to assist the Engineer in taking stringline and other notes to determine whether specified tolerances are met.

On paving contracts, the Contractor shall set subgrade, base and paving blue tops. The base and pavement grade stakes shall be set on intervals in accordance with the applicable requirements of Sections 321, 403 and 501.

907-699.03.3--Automated Machine Guidance. In addition to the requirements set forth in Subsection 907-699.03.1, the following shall be required when using the automated machine grading method.

907-699.03.3.1--Automated Machine Guidance Work Plan. The Contractor shall submit a comprehensive written Automated Machine Guidance Work Plan to the Engineer for review at least 30 days prior to use. The Project Engineer will have to concur with the Plan prior to the Contractor performing any AMG work. The submittal of an AMG Work Plan shall be an indication of the Contractor's intention to utilize AMG instead of conventional methods on the

project areas and elements stated in the Work Plan. The Engineer shall review the Automated Machine Guidance Work Plan to ensure that the requirements of this special provision are addressed. The Contractor shall assume total responsibility for the performance of the system utilized in the Work Plan. Any update or alteration of the Automated Machine Guidance Work Plan in the course of the work shall be approved and submitted to MDOT for determination of conformance with requirements of this special provision.

The Automated Machine Guidance Work Plan shall describe how the automated machine guidance technology will be integrated into other technologies employed on the project. This shall include, but not limited to, the following:

1. A description of the manufacturer, model, and software version of the AMG equipment.
2. Information on the Contractor's experience in the use of Automated Machine Guidance system (or Related Technologies) to be used on the project, including formal training and field experience of project staff.
3. A single onsite staff person as the primary contact, and up to one alternate contact person for Automated Machine Guidance technology issues.
4. A definition of the project boundaries and scope of work to be accomplished with the AMG system.
5. A description of how the project proposed secondary control(s) is to be established. It shall also include a list and map detailing control points enveloping the site.
6. A description of site calibration procedures including, but not limited to, equipment calibration and the frequency of calibration as well as how the equipment calibration and information will be documented to MDOT and the Project Engineer. The documentation shall contain a complete record of when and where the tests were performed and the status of each equipment item tested within or out of the ranges of required tolerances.
7. A description of the Contractor's quality control procedures for checking mechanical calibration and maintenance of equipment. It shall also include the frequency and type of checks to be performed.
8. A description of the method and frequency of field verification checks and the submission schedule of results to the Project Engineer.
9. A description of the Contractor's contingency plan in the event of failure/outage of the AMG system.
10. A schedule of Digital Terrain Models (DTM) intended for use on the project. This shall be submitted to the Engineer for review, feedback, and communication.

907-699.03.3.2--State's Responsibilities. The District Surveyor will set the primary horizontal and vertical control points in the field for the project as per latest edition of the MDOT Survey Manual. The control points shall be in Mississippi State Plane coordinate system.

MDOT will provide an electronic alignment file and primary control file for the project. This file will be based on the appropriate Mississippi State Plane Coordinate Zone either West or East. These files will be created with the computer software applications MicroStation (CADD software) and GEOPAK (civil engineering software). The data files will be provided in the native formats. The Contractor shall perform necessary conversion of the files for their selected grade control equipment, field verify the data for accuracy, and immediately report any errors to

MDOT.

MDOT will provide design data, if available, in an electronic format to the Contractor. These files will be created with the computer software applications MicroStation (CADD software) and GEOPAK (civil engineering software). The data files will be provided in the native formats as specified in the Data Format section of this specification. No guarantee is made to the data accuracy or completeness, or that the data systems used by MDOT will be directly compatible with the systems used by the Contractor. Information shown on the paper plans marked with the seal (official plans as advertised) shall govern.

The Engineer will perform spot checks as necessary of the Contractor's machine control grading results, surveying calculations, records, field procedures, and actual staking. If the Engineer determines that the work is not being performed in accordance with the Specifications, the Engineer shall order the Contractor to re-construct the work to the requirements of the contract documents at no additional cost to the Department.

907-699.03.3--Contractor's Responsibilities. The Contractor shall provide formal training, as requested, on the use of the Automated Machine Guidance Equipment, including Rover, and the Contractor's systems to MDOT project personnel prior to the start of construction activities utilizing AMG. This training is for providing MDOT project personnel with an understanding of the equipment, software, and electronic data being used by the Contractor.

The Contractor shall use the alignment and control data provided by MDOT.

The Contractor shall bear all costs, including but not limited to the cost of actual reconstruction work that may be incurred due to errors in application of Automated Machine Guidance techniques or manipulation of MDOT design data in Digital Terrain Models (DTM). The Contractor shall also bear all costs associated with any graphical grading outside the model / typical section, such as tying to existing grades at the beginning or end of a project.

The Contractor shall be responsible for converting the information on the plans and/or electronic data file provided by MDOT into a format compatible with the Contractor's AMG system.

The Contractor shall establish secondary control points at locations along the length of the project and outside the project limits and/or where work is performed beyond the project limits as required by the Automated Machine Guidance system utilized. The Contractor shall establish this secondary control using survey procedures as outlined in the latest edition of the MDOT Survey Manual. A copy of all new control point information shall be provided to the Engineer prior to construction activities. The Contractor shall be responsible for all errors resulting from their efforts and shall correct deficiencies to the satisfaction of the Engineer and at no additional cost to the State.

The Contractor shall preserve all reference points and monuments that are established by the District Surveyor outside the construction limits. If the Contractor fails to preserve these items, they shall be re-established by the Contractor to their original quality at no additional cost to the State.

The Contractor shall set grade stakes at the top of the finished sub-grade and base course at all hinge points on the typical sections at 1000-foot maximum intervals on mainline, critical points such as, but not limited to, PC's, PT's, beginning and ending super elevation transition sections, middle of the curve, and at least two locations on each of the side roads and ramps, and at the beginning and end of each cross slope transition where Automated Machine Guidance is used. These grade stakes shall be established using conventional survey methods for use by the Engineer to check the accuracy of the construction.

On grading projects, the Contractor shall set slope stakes and centerline stationing every 500 feet and at the beginning and end of spirals and curves. Closer intervals will be required for sharp changes in grades or alignment, widening and certain other geometric details.

The staking requirements for pavement grade stakes addressed in Sections 403 and 501 will not apply. The Contractor shall furnish an acceptable portable grade-verification device(s) (Rover) to verify grade tolerances.

The Contractor will be required to set 20 grade points (hubs) per mile at locations determined by the Engineer for field verification. If tolerances are not met, additional grade points may be required by the Engineer.

The Contractor shall furnish personnel to assist the Engineer in taking tolerance verification checks as necessary to determine whether specified tolerances are met.

The Contractor shall meet the same accuracy requirements as detailed in the Mississippi Standard Specifications for Road and Bridge Construction.

The Contractor shall be responsible for implementing the AMG system using the Mississippi State Plane Coordinate System. No localization methods will be accepted.

907-699.03.3.4--Data Format. It is the Contractor's responsibility to produce the Digital Terrain Model(s) and/or 3D line work needed for Automated Machine Guidance. MDOT does not produce this data in its design process. MDOT does provide CADD files created in the design process to the Contractor. The CADD files provided by MDOT are provided in the native software application formats in which they are created with no conversions, and their use in developing 3D data for machine guidance is at the discretion of the Contractor. The CADD files that may be available are listed below. Cross-Sections are one of the items provided but are not necessarily created at critical design locations. Therefore their use in Digital Terrain Models (DTM) for AMG is limited.

1. Project Control - Microstation DGN file and ASCII file
2. Existing Topographic Data - Microstation DGN file(s)
3. Preliminary Surveyed Ground Surface - GeoPak TIN, if available
4. Horizontal and Vertical alignment information - GeoPak GPK file and/or Microstation DGN file(s)
5. 2D Design line work (edge of pavement, shoulder, etc.) - Microstation DGN file(s)

6. Cross sections - Microstation DGN file(s), GeoPak format
7. Superelevation - Microstation DGN file(s), GeoPak format
8. Form Grades - Microstation DGN file(s)
9. Design Drainage - Microstation DGN file(s)

It is expressly understood and agreed that MDOT assumes no responsibility in respect to the sufficiency or accuracy of these CADD files. These files are provided for convenience only and the contract plans are the legal document for constructing the project.

907-699.04--Method of Measurement. Construction stakes will be measured as a lump sum quantity. When Pay Item No. 907-699-A, Roadway Construction Stakes, is provided in the contract, measurement shall include the staking of all bridges, including detour bridges, which are a part of the contract.

907-699.04.1--Roadway Construction Stakes. Roadway Construction Stakes will be measured for payment in accordance with the following schedule:

- (a) When one percent of the original contract amount is earned from all direct pay items, 10 percent of the amount bid for Roadway Construction Stakes will be paid.
- (b) When five percent of the original contract amount is earned from all direct pay items, 25 percent of the amount bid for Roadway Construction Stakes will be paid.
- (c) When 20 percent of the original contract amount is earned from all direct pay items, 50 percent of the amount bid for Roadway Construction Stakes will be paid.
- (d) After the Contractor has earned 50 percent of the original value of all direct pay items, the amount paid will be based on the contract percent complete.

907-699.04.2--Bridge Construction Stakes. Bridge Construction Stakes will be measured for payment in accordance with the following schedule:

- (a) When one percent of the original contract value of all bridge items is earned, 10 percent of the amount bid for Bridge Construction Stakes will be paid.
- (b) When five percent of the original contract value of all bridge items is earned, 25 percent of the amount bid for Bridge Construction Stakes will be paid.
- (c) When 20 percent of the original contract value of all bridge items is earned, 50 percent of the amount bid for Bridge Construction Stakes will be paid.
- (d) After the Contractor has earned 50 percent of original contract value of all bridge items, the amount paid will be based on the percentage of work completed on all bridge items.

907-699.05--Basis of Payment. Construction stakes, measured as prescribed above, will be paid for at the contract lump sum price, which shall be full compensation for completing the work.

Payment will be made under:

907-699-A: Roadway Construction Stakes - lump sum

907-699-B: Bridge Construction Stakes - lump sum

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-701-5

DATE: 09/17/2014

SUBJECT: Hydraulic Cement

In the last paragraph of Subsection 907-701.04.1.1 on page 3, change “AASHTO Designation: M 240, Table 3” to “AASHTO Designation: M 240, Table 4”.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-701-5

CODE: (SP)

| DATE: 08/20/2014

SUBJECT: Hydraulic Cement

Section 701, Hydraulic Cement, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

Delete Subsection 701.01 on pages 595 & 596, and substitute the following:

907-701.01--General. The following requirements shall be applicable to hydraulic cement:

Only hydraulic cements conforming to Section 701 shall be used. Hydraulic cements shall not be listed or designated as meeting more than one AASHTO or Department type.

Different brands of hydraulic cement, or the same brand of hydraulic cement from different mills, shall not be mixed or used alternately in any one class of construction or structure, without written permission from the Engineer; except that this requirement will not be applicable to hydraulic cement treatment of design soils, or bases.

The Contractor shall provide suitable means for storing and protecting the hydraulic cement against dampness. Hydraulic cement, which for any reason, has become partially set or which contains lumps of caked hydraulic cement will be rejected. Hydraulic cement salvaged from discarded or used bags shall not be used.

The temperature of bulk hydraulic cement shall not be greater than 165°F at the time of incorporation in the mix.

Acceptance of hydraulic cement will be based on the certification program as described in the Department's Materials Division Inspection, Testing, and Certification Manual and job control sampling and testing as established by Department SOP.

Retests of hydraulic cement may be made for soundness and expansion within 28 days of test failure and, if the hydraulic cement passes, it may be accepted. Hydraulic cement shall not be rejected due to failure to meet the fineness requirements if upon retests after drying at 212°F for one hour, it meets such requirements.

Delete Subsection 701.02 on page 596, and substitute the following:

907-701.02--Portland Cement.

907-701.02.1--General.

907-701.02.1.1--Types of Portland Cement. Portland cement (cement) shall be either Type I or Type II conforming to AASHTO Designation: M85. Type III cement conforming to AASHTO Designation: M85 or Type III (MS), as defined by the description below Table 1, may be used for the production of precast or precast-prestressed concrete members.

907-701.02.1.2--Alkali Content. All cement types in this Subsection shall meet the Equivalent alkali content requirement for low-alkali cements listed in AASHTO Designation: M85, Table 2.

907-701.02.2--Replacement by Other Cementitious Materials. The maximum replacement of cement by weight is 25% for fly ash or 50% for ground granulated blast furnace slag (GGBFS). The minimum tolerance for replacement shall be 5% below the maximum replacement content. Replacement contents below this minimum tolerance by fly ash or GGBFS may be used, but shall not be given any special considerations, like the maximum acceptance temperature for portland cement concrete containing pozzolans. Special considerations shall only apply for replacement of cement by fly ash or GGBFS.

907-701.02.2.1--Portland Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater. When portland cement concrete is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash, GGBFS, or silica fume shall be as follows in Table 1.

Table 1- Cementitious Materials for Soluble Sulfate Conditions

Sulfate Exposure	Water-soluble sulfate (SO ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required*
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type II **, ***, **** cement, or Type I cement with one of the following replacements of cement by weight: 25% Class F fly ash, 50% GGBFS, or 8% silica fume
Severe	0.20 - 2.00	1,500 - 10,000	Type I cement with a replacement by weight of 50% GGBFS, or Type II cement with one of the following replacements of cement by weight: 25% Class F fly ash, 50% GGBFS, or 8% silica fume

* The values listed in this table for replacement of portland cement by the cementitious materials listed are maximums and shall not be exceeded. The

minimum tolerance for replacement shall be 0.5% below the maximum replacement content. Replacement contents below this minimum tolerance by the cementitious materials listed in this table do not meet the requirements for the exposure conditions listed and shall not be allowed.

** Type III cement conforming to AASHTO Designation: M85 with a maximum 8% tricalcium aluminate (C_3A) may be used in lieu of Type II cement as allowed in Subsection 907-701.02.1; this cement is given the designation "Type III(MS)".

*** Blended cement meeting the sulfate resistance requirements of Subsection 907-701.04 may be used in lieu of Type II as allowed in Subsection 907-701.04.

**** Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.02.2.

Class C fly ash shall not be used as a replacement for cement in any of the sulfate exposure conditions listed above.

907-701.02.2.2--Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater. When portland cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 907-701.02.2.1. Silica fume shall be used to bring the cementitious materials into compliance with the requirements of Table 1.

Delete Subsection 701.03 on page 596, and substitute the following:

907-701.03--Masonry Cement. Masonry cement shall conform to ASTM Designation: C 91 and shall only be used in masonry applications.

Delete Subsection 701.04 on page 596, and substitute the following:

907-701.04--Blended Hydraulic Cement.

907-701.04.1--General.

907-701.04.1.1--Types of Blended Cement. Blended hydraulic cements (blended cements) shall be of the following types and conform to AASHTO Designation: M 240:

Type IS – Portland blast-furnace slag cement

Type IP – Portland-pozzolan cement

Type IL – Portland-limestone cement

Blended cement Types IS and IP for use in portland cement concrete or soil stabilization exposed to the moderate soluble sulfate condition or exposure to seawater as defined in Table 1 shall meet the Sulfate resistance requirement listed in AASHTO Designation: M 240, Table 3 and the "(MS)" suffix shall be added to the type designation.

907-701.04.1.2--Alkali Content. All blended cement shall be made with clinker that would result in cement meeting the requirements of Subsection 907-701.02.1.2 when used in the production of AASHTO Designation: M 85, Type I or Type II cement.

907-701.04.2--Replacement by Other Cementitious Materials. The maximum replacement of blended cement Type IL by weight is 35% for fly ash or 50% for GGBFS. Replacement contents below 20% fly ash or 45% GGBFS may be used, but shall not be given any special considerations, like the maximum acceptance temperature for portland cement concrete containing pozzolans. Special considerations shall only apply for replacement of blended cement by fly ash or GGBFS. No additional cementitious materials, such as Portland cement, performance hydraulic cement, fly ash, GGBFS, metakaolin, or others, shall be added to or as a replacement for blended cement Types IS and IP.

907-701.04.3--Exposure to Soluble Sulfate Conditions or Seawater. When portland cement concrete or blended cement for soil stabilization is exposed to moderate soluble sulfate conditions or to seawater, where the moderate soluble sulfate condition is defined in Table 1, the blended cement shall meet the sulfate resistance requirement listed in AASHTO Designation: M 240, Table 3.

When portland cement concrete or blended cement for soil stabilization is exposed to severe soluble sulfate conditions, where the severe soluble sulfate condition is defined in Table 1, blended cements shall not be used.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-702-5

CODE: (SP)

| DATE: 08/12/2014

| SUBJECT: Specifications for Bituminous Materials

Section 702, Bituminous Materials, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-702.05--Petroleum Asphalt Cement. Delete the third paragraph of Subsection 702.05 on page 598, and substitute the following.

The bituminous material used in all types of asphalt mixtures shall conform to AASHTO Designation: M 320, Performance Grade PG 67-22, as modified in the table below, except that Polyphosphoric Acid (PPA) may be used at low dosage rates as a modifier to enhance the physical properties of a base binder to meet the requirements for Performance Grade PG 67-22. In addition, PPA may be used as a catalyst or mixing agent at low dosage rates in the production of Polymer Modified, Performance Grade PG 76-22.

When PPA is used as a modifier, in no case shall the PPA modifier be used to adjust the physical properties of the binder a full binder grade. For example: the base binder (unmodified) is graded as a PG 64-22 and should only be modified by the addition of PPA to a modified binder grade of PG 67-22.

When petroleum asphalt cement is modified by PPA, the following dosage limits shall be applied.

Grade	Dosage Limit
PG 67-22	0.75% by weight of binder
PG 76-22	0.50% by weight of binder

| **907-702.07--Emulsified Asphalt.**

907-702.07.2--Anionic and Cationic. After the last paragraph of Subsection 702.07.2 on page 600, add the following.

| LockDown (LD-7) and CQS-1h shall conform to the requirements of Table V.

907-702.07.3--Polymer Modified Cationic Emulsified Asphalt (CRS-2P). Delete the paragraph in Subsection 702.07.3 on page 600, and substitute the following.

Polymer Modified Cationic Emulsified Asphalt shall conform to the requirements of AASHTO Designation: M 316, with the following exception:

In Table 1, the Ductility, 25 °C, 5 cm/min, shall be a minimum of 100 cm.

907-702.12--Tables. After the last Table of Subsection 702.12 on page 606, add the following.

TABLE V
SPECIFICATION FOR FOG SEAL

Test Requirements	LD-7		CQS-1h		Test Method
	Min.	Max.	Min.	Max.	
Viscosity, Saybolt Furol, @ 25°C, Sec.	15	100	20	150	AASHTO T 72
Storage Stability Test, 24 hr, %	-	1	-	1	AASHTO T 59
Settlement, 5 day, %	-	5	-	-	AASHTO T 59
Particle Charge	-	-	Positive		AASHTO T 59
Oil Distillate, %	-	1	-	-	AASHTO T 59
Sieve Test, % *	-	0.3	-	0.1	AASHTO T 59
Residue by Distillation, %	40	-	60	-	AASHTO T 59
Test on Residue from Distillation					
Penetration @ 25°C	-	20	-	-	AASHTO T 49
Penetration @ 25°C, 100g, 5s	-	-	60	110	AASHTO T 49
Softening Point, °C	65	-	-	-	ASTM 36
Solubility in trichloroethylene, %	97.5	-	97.5	-	AASHTO T 44
Ductility @ 25°C, cm	-	-	40	-	AASHTO T 51
Original DSR @ 82° (G*/Sinδ, 10 rad/sec)	1	-	-	-	AASHTO T 111

* The Sieve result is tested for reporting purpose only, and it may be waived if no application problems are present in the field.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-703-12

DATE: 01/29/2015

SUBJECT: Aggregates

In the title of Subsection 907-703.06 on page 2, delete “Hot Mix”.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-703-12

CODE: (IS)

DATE: 10/28/2014

SUBJECT: Aggregates

Section 703, Aggregates, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-703.03.2.4--Gradation. Delete the table in Subsection 703.03.2.4 on page 611 and substitute the following.

**Table of Sizes and Gradation of Coarse Aggregate
for Portland Cement Concrete**

Square Mesh Sieves	Percent Passing by Weight						
	Size No. 467	Size No. 57	Size No. 67	Size No. 7	Size No. 78	Size No. 8	Size No. 89
2 inch	100						
1½ inch	95-100	100					
1 inch		80-100	100				
¾ inch	35-70		80-100	100	100	100	
½ inch		25-60		90-100	90-100	95 100	100
⅜ inch	10-30		20-55	40-70	40-75	75-100	85 100
No. 4	0-5	0-10	0-10	0-15	5-25	5-30	20-40
No. 8		0-5	0-5	0-5	0-10	0-10	0-10
No. 16					0-5	0-5	0-5

Delete the last sentence of the last paragraph of Subsection 703.03.2.4 on page 611.

907-703.04--Aggregate for Crushed Stone Courses.

907-703.04.1--Coarse Aggregate. Delete the first paragraph of Subsection 703.04.1 on page 611, and substitute the following.

Coarse aggregate, defined as material retained on No. 8 sieve, shall be either crushed limestone, steel slag, granite, concrete, or combination thereof. Crushed concrete is defined as recycled concrete pavement, structural concrete, or other concrete sources that can be crushed to meet the gradation requirements for Size No. 825B as modified below. In no case shall waste from concrete production (wash-out) be used as a crushed stone base.

907-703.04.2--Fine Aggregate. Delete the first sentence of the first paragraph of Subsection 703.04.2 on page 612, and substitute the following.

Fine aggregate, defined as material passing the No. 8 sieve, shall be material resulting from the crushing of limestone, steel slag, granite, concrete, or combination thereof.

Delete the third paragraph of Subsection 703.04.2 on page 612.

907-703.04.3--Gradation. In the table of Subsection 703.04.3 on page 613, change the requirement for the 1-inch sieve under Size No. 825 B from “75 - 98” to “75 - 100”.

After the table in Subsection 703.04.3 on page 613, add the following.

If crushed concrete is used, the crushed material shall meet the gradation requirements of Size No. 825 B with the exception that the percent passing by weight of the No. 200 sieve shall be 2 – 18.

907-703.06--Aggregates for Hot Mix Asphalt.

907-703.06.1--Coarse Aggregates. Delete the third paragraph of Subsection 703.06.1 on page 613, and substitute the following.

When tested in accordance with AASHTO Designation: T 19, the dry rodded unit weight of all aggregates except expanded clay and shale shall not be less than 70 pounds per cubic foot.

907-703.06.1.2--Fine Aggregates. Delete the last sentence of Subsection 703.06.1.2 on page 614.

907-703.14--Aggregates for Bituminous Surface Treatments.

907-703.14.2--Detail Requirements.

907-703.14.2.1--Gradation. In the table entitled “Gradation Requirements For Cover Aggregate” in Subsection 703.14.2.1 on page 622, delete the requirement for the No. 16 sieve for Size No. 7 under the column “Slag or Expanded Clay”.

Delete Subsection 703.19 on page 624, and substitute the following.

907-703.19--Lightweight Aggregate for Concrete.

907-703.19.1--Lightweight Aggregate for Structural Concrete. Lightweight aggregate for structural concrete shall meet the requirements of AASHTO Designation: M 195.

907-703.19.2--Lightweight Aggregate for Internal Curing of Concrete. Lightweight aggregate for internal curing of concrete shall meet the requirements of ASTM Designation: C 1761. The lightweight aggregate shall meet the gradation requirements listed in Table 1 for either “9.5 mm to 2.36 mm (3/8 in. to No. 8)” Coarse aggregate, “9.5 mm to 0 (3/8 in. to 0)” Combined fine and coarse aggregate, or “4.75 mm to 0 (No. 4 to 0)” Fine aggregate. The fineness modulus of the lightweight aggregate shall not be less than 2.70.

907-703.20--Aggregate for Stabilizer.

907-703.20.3--Gradation. Delete the table and notes in Subsection 703.20.3 at the top of page 626, and substitute the following.

PERCENT PASSING BY WEIGHT

Square Mesh Sieves	Shell	Coarse			Medium	Fine
		Size I	Size II Note (1)	Size III Note (3)		
3 inch	90-100			100		
2 1/2 inch				90-100		
2 inch		100				
1 1/2 inch		90-100	100	25-60		
1 inch		80-100	97-100			
3/4 inch		55-100	55-100	0-10		
1/2 inch		35-85	35-85	0-5	100	
3/8 inch		12-65	12-65		97-100	
No. 4, Note (2)		0-30	0-30		92-100	
No. 10		0-8	0-8		80-100	100
No. 40	0-5				10-40	80-100
No. 60					0-20	30-100
No. 100						15-80
No. 200		0-4	0-4		0-5	0-30
PI Material Passing No. 40					6 or less	0

Note (1): Size II is intended for use in bases in which portland cement is used.

Note (2): Ground shell shall contain at least 97% passing the No. 4 sieve.

Note (3): Size III is intended for use in stabilized construction entrances.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-711-4

CODE: (IS)

DATE: 06/26/2009

SUBJECT: Synthetic Structural Fiber Reinforcement

Section 711, Reinforcement and Wire Rope, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

After Subsection 711.03.4.3 on page 665, add the following:

907-711.04--Synthetic Structural Fiber. The synthetic structural fibers shall be approved for listing in the Department's "Approved Sources of Materials" prior to use. The synthetic structural fibers shall be added to the concrete and mixed in accordance with the manufacturer's recommended methods.

907-711.04.1--Material Properties. The fibers shall meet the requirements of ASTM Designation: C 1116, Section 4.1.3. The fibers shall be made of polypropylene, polypropylene/polyethylene blend, nylon, or polyvinyl alcohol (PVA).

907-711.04.2--Minimum Dosage Rate. The dosage rate shall be such that the average residual strength ratio ($R_{150,3.0}$) of fiber reinforced concrete beams is a minimum of 20.0 percent when the beams are tested in accordance with ASTM Designation: C 1609. The dosage rate for fibers shall be determined by the following.

The fiber manufacturer shall have the fibers tested by an acceptable, independent laboratory acceptable to the Department and regularly inspected by the Cement and Concrete Reference Laboratory of the National Institutes of Standards and Technology and approved to perform ASTM Designations: C 39, C 78, and C192.

The laboratory shall test the fibers following the requirements of ASTM Designation: C 1609 in a minimum of three (3) test specimens cast from the same batch of concrete, molded in 6 x 6 x 20-inch standard beam molds meeting the requirements of ASTM Designation: C 31. The beams shall be tested on an 18-inch span. The tests for $R_{150,3.0}$ shall be performed when the average compressive strength of concrete used to cast the beams is between 3500 and 4500 psi. The tests for compressive strength shall follow the requirements of ASTM Designation: C 39. The average compressive strength shall be determined from a minimum of two (2) compressive strength cylinders.

The value for $R_{150,3}$ shall be determined using the following equation:

$$R_{150,3.0} = \frac{f_{150,3.0}}{f_1} \times 100$$

The residual flexural strength ($f_{150,3.0}$) shall be determined using the following equation:

$$f_{150,3.0} = \frac{P_{150,3.0} \times L}{b \times d^2}$$

where:

$f_{150,3.0}$ is the residual flexural strength at the midspan deflection of $L/150$, (psi),

$P_{150,3.0}$ is the residual load capacity at the midspan deflection of $L/150$, (lbf),

L is the span, (in),

b is the width of the specimen at the fracture, (in), and

d is the depth of the specimen at the fracture, (in).

For a 6 x 6 x 20-inch beam, the $P_{150,3.0}$ shall be measured at a midspan deflection of 0.12 inch.

Additionally, $R_{150,3.0}$, $f_{150,3.0}$, and $P_{150,3.0}$ may also be referred to as R_{150}^{150} , f_{150}^{150} , and P_{150}^{150} respectively.

At the dosage rate required to achieve the minimum $R_{150,3}$, the mixture shall both be workable and the fibers shall not form clumps.

The manufacturer shall submit to the State Materials Engineer certified test reports from the independent laboratory showing the test results of each test specimen.

907-711.04.3--Job Control Requirements. The synthetic structural fibers shall be one from the Department's "Approved Sources of Materials."

At the required dosage rate, the mixture shall both be workable and the fibers shall not form clumps to the satisfaction of the Engineer. If the mixture is determined by the Engineer to not be workable or have clumps of fibers, the mixture may be rejected.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-713-6

CODE: (SP)

DATE: 03/17/2016

SUBJECT: Admixtures for Concrete

Section 713, Concrete Curing Materials and Admixtures, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

After the second paragraph of Subsection 713.01.2 on page 676, add the following.

Type 1-D compound may be used on bridge rails, median barriers, and other structures requiring a spray finish. When Type 1-D compound is used, it will be the responsibility of the Contractor to assure that the compound has dissipated from the structure prior to applying the spray finish and that the spray finish adheres soundly to the structure.

Delete Subsection 713.02 on pages 676 & 677, and substitute the following.

907-713.02--Admixtures for Concrete. Air-entraining admixtures used in Portland cement concrete shall comply with AASHTO Designation: M 154. Set-retarding, accelerating, and/or water-reducing admixtures shall comply with AASHTO Designation: M 194. Water-reducing admixture shall meet the minimum requirements for Type A. Set-retarding admixtures shall meet the minimum requirements for Type D. Admixtures providing a specific performance characteristic(s) other than those of water reduction or set retardation shall meet the minimum requirements for Type S. For admixtures meeting the requirements for Type S, the manufacturer shall provide data to substantiate the specific performance characteristic(s) to the satisfaction of the State Materials Engineer.

In order to obtain approval of an admixture, the State Materials Engineer shall have been furnished certified test reports, made by an acceptable independent laboratory regularly inspected by the Cement and Concrete Reference Laboratory of the National Institutes of Standards and Technology, which show that the admixture meets all the requirements of the applicable AASHTO Standard Specification.

The Department reserves the right to sample, for check tests, any shipment or lot of admixture delivered to a project.

The Department reserves the right to require tests of the material to be furnished, using the specific cement and aggregates proposed for use on the project, as suggested in AASHTO Designation: M 154 and outlined in AASHTO Designation: M 194.

After an admixture has been approved, the Contractor shall submit to the State Materials Engineer, with each new lot of material shipped, a certification from the manufacturer in accordance with the requirements of Subsection 700.05.1 and stating the material is of the same composition as

originally approved and has not been changed or altered in any way. The requirement in Subsection 700.05.1(b) is not required on the certification from the manufacturer.

Admixtures containing chlorides will not be permitted.

Failure to maintain compliance with any requirement of these specifications shall be cause for rejection of any previously approved source or brand of admixture.

Admixtures shall only be used in accordance with the manufacturer's recommended dosage range as set forth in the manufacturer's approval request correspondence. When an admixture is used in Portland cement concrete, it shall be the responsibility of the Contractor to produce satisfactory results.

907-713.02.1--Source Approval. In order to obtain approval of an admixture, the Producer/Suppliers shall submit to the State Materials Engineer the following for review: certified test reports, made by an acceptable independent laboratory regularly inspected by the Cement and Concrete Reference Laboratory of the National Institutes of Standards and Technology, which show that the admixture meets all the requirements of the applicable AASHTO or Department Specification for the specific type and the dosage range for the specific type of admixture.

907-713.02.2--Specific Requirements. Admixtures containing chlorides will not be permitted.

907-713.02.3--Acceptance. The Department reserves the right to sample, for check tests, any shipment or lot of admixture delivered to a project.

The Department reserves the right to require tests of the material to be furnished, using the specific cement and aggregates proposed for use on the project, as suggested in AASHTO Designation: M 154 and outlined in AASHTO Designation: M 194.

Failure to maintain compliance with any requirement of these specifications shall be cause for rejection of any previously approved source or brand of admixture.

With each new lot of material shipped the Contractor shall submit to the State Materials Engineer, a notarized certification from the manufacturer showing that the material complies with the requirements of the applicable AASHTO or Department Specification.

When an admixture is used, it shall be the responsibility of the Contractor to produce satisfactory results.

907-713.02.4--Waterproofing Admixture. This product is used as a waterproofing admixture for cast in place concrete bridge decks and bridge deck topping.

The Contractor shall submit manufacturer's product data and installation methods for each type of the products required to demonstrate the product complies with specifications.

The materials shall be installed in accordance with manufacturer's instructions.

The waterproofing admixture shall be one of the following, or an approved equal.

- Xypex Admix
- Everdure Caltite
- Hycrete W1000

The dosage rate for the above admixtures shall be as follows:

- Xypex Admix shall be 15 pounds per cubic yard.
- Everdure Caltite shall be a minimum of 1.5% by weight of cement.
- Hycrete W1000 shall be a minimum one (1) gallon per cubic yard.

Any retardation of set that occurs will depend upon the concrete mix design and the dosage rate of the admixture.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-714-8

CODE: (IS)

| DATE: 05/01/2013

SUBJECT: Miscellaneous Materials

Section 714, Miscellaneous Materials, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-714.05--Fly Ash. Delete Subsections 714.05.1 & 714.05.2 on pages 680 & 681, and substitute the following.

907-714.05.1--General. The fly ash source must be approved for listing in the Department's "Approved Sources of Materials" prior to use. The acceptance of fly ash shall be based on certified test reports, certification of shipment from the supplier, and tests performed on samples obtained after delivery in accordance with the Department's Materials Division Inspection, Testing, and Certification Manual and Department SOP.

Different classes of fly ash or different sources of the same class shall not be mixed or used in the construction of a structure or unit of a structure without written permission from the Engineer.

The Contractor shall provide suitable means for storing and protecting the fly ash from dampness. Separate storage silos, bins, or containers shall be provided for fly ash. Fly ash which has become partially set or contains lumps of caked fly ash shall not be used.

The temperature of the bulk fly ash shall not be greater than 165°F at the time of incorporation into the work.

All classes of fly ash shall meet the supplementary option chemical requirement for available alkalis listed in AASHTO Designation: M 295, Table 2. Class F fly ash shall have a calcium oxide (CaO) content of less than 6.0%. Class C fly ash shall have a CaO content of greater than or equal to 8.0%.

The replacement of Portland cement with fly ash shall be in accordance with the applicable replacement content specified in Subsection 907-701.02.2.

In addition to these requirements, fly ash shall meet the following specific requirements for the intended use.

907-714.05.2--Fly Ash for Use in Concrete. When used with Portland cement in the production of concrete or grout, the fly ash shall meet the requirements of AASHTO Designation: M 295, Class C or F, with the following exception:

The loss on ignition shall not exceed 6.0 percent.

No additional cementitious materials, such as blended hydraulic cement, GGBFS, metakaolin, or others, shall be added to or as a replacement for Portland cement when used with fly ash.

907-714.06--Ground Granulated Blast Furnace Slag (GGBFS). Delete Subsection 714.06.1 on page 681, and substitute the following.

907-714.06.1--General. The GGBFS source must be approved for listing in the Department's "Approved Sources of Materials" prior to use. The acceptance of GGBFS shall be based on certified test reports, certification of shipment from the supplier, and tests performed on samples obtained after delivery in accordance with the Department's Materials Division Inspection, Testing, and Certification Manual and Department SOP.

The Contractor shall provide suitable means for storing and protecting the GGBFS against dampness and contamination. Separate storage silos, bins, or containers shall be provided for GGBFS. GGBFS which has become partially set, caked or contains lumps shall not be used.

The State Materials Engineer shall be notified in writing of the nature, amount and identity of any processing or other additions made to the GGBFS during production.

GGBFS from different mills shall not be mixed or used alternately in any one class of construction or structure without written permission from the Engineer; except that this requirement will not be applicable to cement treatment of design soils or bases.

No additional cementitious materials, such as blended hydraulic cement, fly ash, metakaolin, or others, shall be added to or as a replacement for Portland cement when used with GGBFS in the production of concrete. The replacement of Portland cement with GGBFS shall be in accordance with the applicable replacement content specified in Subsection 907-701.02.2.

Delete Subsection 714.07 on page 682, and substitute the following.

907-714.07--Additional Cementitious Materials.

907-714.07.1--Metakaolin.

907-714.07.1.1--General. Metakaolin shall only be used as a supplementary cementitious material in Portland cement concrete for compliance with the requirements for cementitious materials exposed to soluble sulfate conditions. Metakaolin from different sources shall not be mixed or used alternately in any one class of construction or structure without written permission from the Engineer. No additional cementitious materials, such as blended hydraulic cement, fly ash, GGBFS, or others, shall be added to or as a replacement for Portland cement when used with metakaolin in the production of concrete.

The State Materials Engineer shall be notified in writing of the nature, amount and identity of any processing, or other additions made to the metakaolin during production.

907-714.07.1.2--Source Approval. The approval of each metakaolin source shall be on a case

by case basis as determined by the State Materials Engineer. In order to obtain approval of a metakaolin source, the Producer/Suppliers shall submit to the State Materials Engineer the following for review: certified test reports, made by an acceptable, independent laboratory regularly inspected by the Cement and Concrete Reference Laboratory of the National Institutes of Standards and Technology, which show that the metakaolin meets all the requirements of AASHTO Designation: M295, including the Effectiveness in contributing to sulfate resistance, Procedure A, listed in AASHTO Designation: M295, Table 4 for Supplementary Optional Physical Requirements, and other requirements listed herein.

In order to demonstrate effectiveness in contributing to sulfate resistance, included in this test data shall be results of metakaolin from the proposed source tested in accordance with ASTM Designation: C 1012. There shall be two sets of test specimens per the following:

- a. One set of test specimens shall be prepared using a Type I Portland cement meeting the requirements of AASHTO Designation: M85 and having a tricalcium aluminate (C_3A) content of more than 8.0%,
- b. One set of test specimens shall be prepared using a Type II Portland cement meeting the requirements of AASHTO Designation: M85.
- c. The proposed metakaolin shall be incorporated at the rate of 10% cement replacement in each set of test specimens and shall meet both of the acceptance criteria listed below for source approval.

The requirement for acceptance of the test sample using Type I Portland cement is an expansion of 0.10% or less at the end of six months. The requirement for acceptance of the test sample using Type II Portland cement is an expansion of 0.05% or less at the end of six months.

907-714.07.1.3--Storage. The Contractor shall provide suitable means for storing and protecting the metakaolin against dampness and contamination. Metakaolin which has become partially set, caked, or contains lumps shall not be used.

907-714.07.1.4--Specific Requirements. Metakaolin shall meet the requirements of AASHTO Designation: M 295, Class N with the following modifications:

1. The sum of $SiO_2 + Al_2O_3 + Fe_2O_3$ shall be at least 85%. The Material Safety Data Sheet shall indicate that the amount of crystalline silica, as measured by National Institute of Occupation Safety and Health (NIOSH) 7500 method, after removal of the mica interference, is less than 1.0%.
2. The loss on ignition shall be less than 3.0%.
3. The available alkalies, as equivalent Na_2O , shall not exceed 1.0%.
4. The amount of material retained on a No. 325 mesh sieve shall not exceed 1.0%.
5. The strength activity index at seven (7) days shall be at least 85%.

907-714.07.1.5--Acceptance. With each new lot of material shipped the Contractor shall submit to the State Materials Engineer a certified test report from the manufacturer showing that the material meets the requirements AASHTO Designation: M295, Class N and the requirements of this Subsection.

The Department reserves the right to sample, for check tests, any shipment or lot of metakaolin delivered to a project.

907-714.07.2--Silica Fume.

907-714.07.2.1--General. Silica fume shall only be used as a supplementary cementitious material in Portland cement concrete for compliance with the requirements for cementitious materials exposed to soluble sulfate conditions. Silica fume from different sources shall not be mixed or used alternately in any one class of construction or structure without written permission from the Engineer. No additional cementitious materials, such as blended hydraulic cement, performance hydraulic cement, fly ash, GGBFS, or others, shall be added to or as a replacement for Portland cement when used with silica fume in the production of concrete.

The State Materials Engineer shall be notified in writing of the nature, amount and identity of any processing, or other additions made to the silica fume during production.

907-714.07.2.2--Source Approval. The approval of each silica fume source shall be on a case by case basis as determined by the State Materials Engineer. In order to obtain approval of a silica fume source, the Producer/Suppliers shall submit to the State Materials Engineer the following for review: certified test reports, made by an acceptable, independent laboratory regularly inspected by the Cement and Concrete Reference Laboratory of the National Institutes of Standards and Technology, which show that the silica fume meets all the requirements of AASHTO Designation: M307, Table 3, including the Sulfate resistance expansion, listed in the table for Optional Physical Requirements, and other requirements listed herein.

In order to demonstrate effectiveness in contributing to sulfate resistance, included in this test data shall be results of silica fume from the proposed source tested in accordance with ASTM Designation: C 1012. There shall be two sets of test specimens per the following:

- a. One set of test specimens shall be prepared using a Type I Portland cement meeting the requirements of AASHTO Designation: M85 and having a tricalcium aluminate (C_3A) content of more than 8.0%,
- b. One set of test specimens shall be prepared using a Type II Portland cement meeting the requirements of AASHTO Designation: M85.
- c. The proposed silica fume shall be incorporated at the rate of 8% cement replacement in each set of test specimens and shall meet both of the acceptance criteria listed below for source approval.

The requirement for acceptance of the test sample using Type I Portland cement is an expansion of 0.10% or less at the end of six months. The requirement for acceptance of the test sample using Type II Portland cement is an expansion of 0.05% or less at the end of six months.

907-714.07.2.3--Storage. The Contractor shall provide suitable means for storing and protecting the silica fume against dampness and contamination. Silica fume which has become partially set, caked, or contains lumps shall not be used.

907-714.07.2.4--Acceptance. With each new lot of material shipped, the Contractor shall submit to the State Materials Engineer a certified test report from the manufacturer showing that the material meets the Chemical and Physical Requirements of AASHTO Designation: M307.

The Department reserves the right to sample, for check tests, any shipment or lot of silica fume delivered to a project.

Delete Subsection 714.11.6 on pages 690 and 691, and substitute the following.

907-714.11.6--Rapid Setting Cementitious Patching Compounds for Concrete Repair. Rapid setting concrete patching compounds must be approved for listing in the Department's "Approved Sources of Materials" prior to use. Upon approval, a product must be recertified every four (4) years to remain on the "Approved Sources of Materials" list. Each product shall be pre-measured and packaged dry by the manufacturer. All liquid solutions included by the manufacturer as components of the packaged material shall be packaged in a watertight container. The manufacturer may include aggregates in the packaged material or recommend the addition of Contractor furnished aggregates.

The type, size and quantity of aggregates, if any, to be added at the job site shall be in accordance with the manufacturer's recommendations and shall meet the requirements of Subsection 703.02 for fine aggregate and Subsection 703.03 for coarse aggregate. Required mixing water to be added at the job site shall meet the requirements of Subsection 714.01.2.

Only those bonding agents, if any, recommended by the manufacturer of the grout or patching compounds may be used for increasing the bond to old concrete or mortar surfaces.

Patching compounds containing soluble chlorides will not be permitted when in contact with steel.

Site preparation, proportioning of materials, mixing, placing and curing shall be performed in accordance with the manufacturer's recommendation for the specific type of application, and the Contractor shall furnish a copy of these recommendations to the Engineer.

Rapid setting cementitious concrete patching compounds, including components to be added at the job site, shall conform to the following physical requirements:

Non-shrink cementitious grouts shall not be permitted for use.

Compressive strength shall equal or exceed 3000 psi in 24 hours in accordance with ASTM C 928 for Type R2 concrete or mortar.

Bond strength shall equal or exceed 1000 psi in 24 hours in accordance with ASTM C 928 for Type R2 concrete or mortar.

The material shall have a maximum length change of $\pm 0.15\%$ in accordance with ASTM C 928 for Type R2 concrete or mortar.

The Contractor shall furnish to the Engineer three copies of the manufacturer's certified test report(s) showing results of all required tests and certification that the material meets the specifications when mixed and placed in accordance with the manufacturer's instructions. When the mixture is to be placed in contact with steel, the certification shall further state that the packaged material contains no chlorides. Certified test report(s) and certification shall be furnished for each lot in a shipment.

The proportioning of materials must be approved by the State Materials Engineer and any subsequent change in proportioning must also be approved. A sample of each component shall be submitted to the Engineer along with the quantity or percentage of each to be blended. At least 45 days must be allowed for initial approval.

The proportioning of materials for subsequent lots may be approved by the State Materials Engineer upon receipt of certification from the manufacturer that the new lot of material is the same composition as that originally approved by the Department and that the material has not been changed or altered in any way.

907-714.11.7--Commercial Grout for Anchoring Doweled Tie Bars in Concrete. Before Subsection 714.11.7.1 on page 691, add the following.

Approved Non-“Fast Set” Epoxy anchor systems as specified below may be used for the repair of concrete pavements that do not involve permanent sustained tension applications or overhead applications.

“***Fast Set Epoxy***” may not be used for any Adhesive Anchor Applications. Adhesive Anchor Systems (Fast Set epoxy or otherwise) shall not be used for permanent sustained tension applications or overhead applications. “Fast Set Epoxy” refers to an epoxy produced by the Sika Corporation called Sikadur AnchorFix-3 and repackaged for sale under a variety of names/companies listed at the Federal Highway Administration web site at the following link:

<http://www.fhwa.dot.gov/Bridge/adhesives.cfm>

907-714.11.7.4--Acceptance Procedure. After the last sentence of the first paragraph of Subsection 714.11.4 on page 691, add the following.

Upon approval, a product must be recertified every four (4) years to remain on the “Approved Sources of Materials” list.

907-714.11.8--Epoxy Joint Repair System.

907-714.11.8.1--General. After the last sentence of the first paragraph of Subsection 714.11.8.1 on page 692, add the following.

Upon approval, a product must be recertified every four (4) years to remain on the “Approved Sources of Materials” list.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| SPECIAL PROVISION NO. 907-720-2

CODE: (IS)

| DATE: 05/01/2013

| SUBJECT: Pavement Marking Materials

Section 720, Pavement Marking Materials, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

| **907-720.01--Glass Beads.** After the first sentence of Subsection 720.01 on page 729, add the following.

The glass beads shall contain no more than 200 ppm (mg/kg) total concentration for lead, arsenic, or antimony. The manufacture shall furnish the Engineer with a certified test report indicating that the glass beads meet the above requirement.

907-720.02--Thermoplastic Pavement Markings. Delete the first paragraph of Subsection 720.02 on page 730 and substitute the following.

The thermoplastic material shall be lead free and conform to AASHTO Designation: M 249 except the glass beads shall be moisture resistant coated.

After the first sentence of the second paragraph of Subsection 720.02 on page 730, add the following.

In addition, the certification for the thermoplastic material shall state that the material is lead free.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-804-19

DATE: 03/22/2016

SUBJECT: Concrete Bridges and Structures

Delete the second and third paragraphs of Subsection 907.804.03.16.2 on page 37, and substitute the following.

For bridge decks when the ambient temperature is above 90°F, the forms, reinforcing steel, steel beam flanges, and other surfaces which will come in contact with the concrete shall be cooled to below 90°F by means of a water spray or other approved methods. Additionally, when the atmospheric temperature is predicted to be 90°F or above based on the latest information available from the National Weather Service any time during the day of placement or day after placement, the time of placement shall not begin until 5:00 p.m. on the day of placement and shall be completed by 6:00 a.m. the following day.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-804-19

CODE: (SP)

DATE: 11/10/2015

SUBJECT: Concrete Bridges and Structures

Section 804, Concrete Bridges and Structures, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby deleted and replaced as follows.

SECTION 907-804--CONCRETE BRIDGES AND STRUCTURES

907-804.01--Description. This work consists of constructing concrete bridges and structures in accordance with these specifications and in reasonably close conformity with the dimensions, designs, lines, and grades indicated on the plans or established.

Construction of box bridges shall be in accordance with Sections 601 and 602.

907-804.02--Materials.

907-804.02.1--General. Concrete produced and controlled from this specification shall be accepted upon proper certification of concrete production through an approved quality control program and verification by job site acceptance criteria. The Contractor shall develop and implement a quality control program which shall be used to maintain the required properties of concrete. For projects with 1000 cubic yards and more, quality control and acceptance shall be achieved through statistical evaluation of test results. For projects of more than 200 but less than 1000 cubic yards, quality control and acceptance shall be achieved by individual test results. For projects less than or equal to 200 cubic yards, refer to the requirements of TMD-20-05-00-000 "Sampling and Testing of Small Quantities of Miscellaneous Materials" for mixture design and testing requirements.

The materials for concrete bridges and structures, when sampled and tested in accordance with Subsection 700.03, shall meet the requirements of the following Subsections:

Portland Cement	701.01 and 701.02
Blended Cement	907-701.01 and 907-701.04
Admixtures	713.02
Fly Ash	714.05
Ground Granulated Blast Furnace Slag (GGBFS)	907-714.06
Silica Fume	907-714.07.2
Water	714.01.1 and 714.01.2
Fine Aggregate	703.02
Coarse Aggregate	703.03
Lightweight Aggregate	907-703.19
Curing Materials	713.01

Joint Materials	707.01, 707.02, and 707.07
Structural Steel Joints and Bearing Devices	717.01
Bearing Pads	714.10
Wire Rope or Wire Cable for Prestressed Concrete	700.01 and 711.03
Sprayed Finish for Concrete Surface	714.12
Reinforcing Steel	711.02

907-804.02.2--Use, Care, and Handling. The use, care, and handling of materials shall conform to the applicable requirements of Subsection 501.03.10 and the specific requirements of Subsections 907-804.02.4 and 907-804.02.5. Unless otherwise authorized, only fine aggregate or coarse aggregate of one type and from the same source shall be used in the construction of any one unit of a structure. Should the Contractor, with written permission of the Engineer, elect to substitute high early strength cement for cement of the type specified, the Contractor will not receive additional compensation for the substitution.

907-804.02.3--Blank.

907-804.02.4--Care and Storage of Concrete Aggregates. The handling and storage of aggregates shall be such as to prevent segregation or contamination with foreign materials. The Engineer may require that aggregates be stored on separate platforms at satisfactory locations.

When specified, coarse aggregates shall be separated into two or more sizes in order to secure greater uniformity of the concrete mixture. Different sizes of aggregate shall be stored in separate stock piles sufficiently removed from each other to prevent the material at the edges of the piles from becoming intermixed.

907-804.02.5--Storage of Cementitious Materials. All cementitious materials shall be stored in suitable weather-proof buildings or bins. These buildings or bins shall be placed in locations approved by the Engineer. Provision for storage shall be ample, and the shipments of cementitious materials as received shall be stored separately or other provisions made to the satisfaction of the Engineer for easy access for the identification, inspection, and sampling of each shipment as deemed desirable. Stored cementitious materials shall meet the test requirements at any time after storage when a retest is ordered by the Engineer.

On small jobs, open storage consisting of a raised platform and ample waterproof covering may be permitted by written authorization from the Engineer.

When specified, the Contractor shall keep accurate records of deliveries of cementitious materials and of their use in the work. Copies of these records shall be supplied in the form required by the Engineer.

907-804.02.6--Classification and Uses of Concrete. When a specific class of concrete is not specified on the plans or in the contract documents, the structure or parts thereof shall be constructed with the class of concrete as directed by the Engineer.

The classes and their uses are as follows:

- (1) Class AA - Concrete for bridge construction and concrete exposed to seawater.
- (2) Class A - Concrete shown as Class A shall herein be classified as and required to meet the performance criteria of Class AA.
- (3) Class B - General use, heavily reinforced sections, cast-in-place concrete piles, and conventional concrete piles.
- (4) Class C - Massive sections or lightly reinforced sections.
- (5) Class D - Massive unreinforced sections and riprap.
- (6) Class F - Concrete for prestressed members.
- (7) Class FX - Extra strength concrete for prestressed members, as shown on plans.
- (8) Class S - For all seal concrete deposited under water.
- (9) Class DS - Drilled Shaft

907-804.02.7--Blank.

907-804.02.8--Laboratory Accreditation. The Contractor shall be responsible for furnishing the laboratory used to perform concrete quality control tests. The laboratory may be the Contractor's facility, the concrete producer's facility, or a certified independent testing laboratory.

Only laboratories certified by the Mississippi Department of Transportation are qualified to perform material testing. Certification by AASHTO Accreditation Program (AAP) will be acceptable if the laboratory is listed in the latest AAP publication and maintains accreditation to completion of concrete work.

The Contractor's laboratory designated for quality control testing shall have equipment necessary to test aggregates and concrete for the test methods listed in Table 1.

Table 1

AASHTO: R 39	Making and Curing Concrete Test Specimens in the Laboratory
AASHTO: R 60	Sampling Freshly Mixed Concrete
AASHTO: T 2	Sampling Aggregates
AASHTO: T 19	Bulk Density ("Unit Weight") and Voids in Aggregates
AASHTO: T 22	Compressive Strength of Cylindrical Concrete Specimens
AASHTO: T 23	Making and Curing Concrete Test Specimens in the Field
AASHTO: T 27	Sieve Analysis of Fine and Coarse Aggregates
AASHTO: T 84	Specific Gravity and Absorption of Fine Aggregate
AASHTO: T 85	Specific Gravity and Absorption of Coarse Aggregate
AASHTO: T 119	Slump of Hydraulic Cement Concrete
AASHTO: T 121	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
AASHTO: T 152	Air Content of Freshly Mixed Concrete by Pressure Method *
AASHTO: T 196	Air Content of Freshly Mixed Concrete by the Volumetric Method *
AASHTO: T 231	Capping Cylindrical Concrete Specimens
AASHTO: T 248	Reducing Field Samples of Aggregate to Testing Size
AASHTO: T 255	Total Evaporable Moisture Content of Aggregate by Drying

AASHTO: T 325	Standard Method of Test for Estimating the Strength of Concrete in Transportation Construction by Maturity Tests **
ASTM: C 1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic Cement Concrete
ASTM: C 1074	Standard Practice for Estimating Concrete Strength by the Maturity Method **

* Equipment necessary for either pressure or volumetric air content.

** Equipment necessary for estimating concrete strength following the maturity method.

Testing equipment shall have been inspected by the Department or through the AASHTO Accreditation Program. Testing equipment calibration files shall be made available upon request by the Department.

907-804.02.9--Testing Personnel. Technicians testing portland cement concrete, for either acceptance or production control purposes, shall be certified by an accepted certification program. Recertification is required for each Class after five years. Certification requirements are listed in Table 2.

Table 2

Concrete Technician's Tasks	Test Method Required	Certification Required**
Sampling or Testing of Plastic Concrete	AASHTO Designation: R 60, T 23, T 119, T 121, T 152, T 196, and ASTM Designation: C 1064	MDOT Class I certification
Compressive Strength Testing of Concrete Cylinders	AASHTO Designation: T 22 and T 231	MDOT Concrete Strength Testing Technician certification
Sampling of Aggregates	AASHTO Designation: T 2	Work under the supervision of a MDOT Class II certified technician
Testing of Aggregates	AASHTO Designation: T 19, T 27, T 84, T 85, T 248, and T 255	MDOT Class II certification
Proportioning of Concrete Mixtures*	AASHTO Designation: M 157 and R 39	MDOT Class III certification
Interpretation and Application of Maturity Meter Readings	AASHTO Designation: T 325 and ASTM Designation: C 1074	MDOT Class III certification or Two hours maturity method training

* Technicians making concrete test specimens for meeting the requirements of Subsection 907-804.02.10.1.2 shall be MDOT Class I certified and under the direct supervision of an MDOT Class III certified technician.

** MDOT Class I certification encompasses the same test procedures and specifications as ACI Concrete Field Testing Technician-Grade I. MDOT Class II certification encompasses the same test procedures and specifications as ACI Aggregate Testing Technician-Level 1. MDOT Concrete Strength Testing Technician encompasses the same test procedures and specifications as ACI Concrete Strength Testing certification.

Specific requirements for each level of certification are in the latest edition of the Department's *Concrete Field Manual*. Current MDOT Class I, MDOT Class II, and/or MDOT Class III certifications shall be acceptable until those certifications expire. Upon expiration of a current certification, recertification with the certifications listed in Table 2 shall be required. Technicians performing either specific gravity testing of aggregates or compressive strength tests shall be required to either:

- have the required MDOT certification listed in Table 2, or
- have a current MDOT Class III certification or work under the direct supervision of current MDOT Class III technician, and have demonstrated the specific gravity and/or compressive strength test during the inspection of laboratory equipment by the Materials Division, Concrete Section.

907-804.02.10--Portland Cement Concrete Mixture Design. At least 10 days prior to production of concrete, the Contractor shall submit to the Engineer proposed concrete mixture designs complying with the Department's *Concrete Field Manual*. Materials shall be from approved sources meeting the requirements of the Standard Specifications. Proportions for the mixture designs shall be for the class concrete required by the contract plans and shall meet the requirements of the "Master Proportion Table for Structural Concrete Design" listed in Table 3. The concrete producer shall assign a permanent unique mixture number to each mixture design. Each mixture design shall be field verified as required in Subsection 907-804.02.10.3. Acceptable field verification data shall be required for final approval of a mixture design.

All concrete mixture designs will be reviewed by the Materials Division prior to use. Concrete mixture designs disapproved will be returned to the Contractor with a statement explaining the disapproval.

If the Contractor chooses to cure the concrete in accordance with the requirements listed under **Length of Time Defined by Development of Compressive Strength** in Subsection 907-804.03.17, the compressive strength/maturity relationship shall be developed for the mixture design for a minimum of 28 days following the requirements of Subsection 907-804.03.15. The compressive strength/maturity relationship information shall be submitted with the mixture design information.

Table 3
MASTER PROPORTION TABLE FOR STRUCTURAL CONCRETE DESIGN

Class	Coarse Aggregate Size No.*	Maximum Water/Cementitious** Ratio	Specified Compressive Strength (f'_c) psi	Maximum Permitted Slump*** inches	Nominal Total Air Content**** %
AA*****	57 or 67	0.45**	4000	3***	4.5*****
B	57 or 67	0.50	3500	4	4.5
C	57 or 67	0.55	3000	4	4.5
D	57 or 67	0.70	2000	4	4.5
F	67	0.40	5000	3	*****
FX	67	(As per mixture design)	(As shown on plans)	3	*****
S	57 or 67	0.45	3000	8	4.5
DS	67	0.45	4000	***	*****

* Maximum size aggregate shall conform to the concrete mixture design for the specified aggregate. Other smaller coarse aggregate sizes meeting the requirements of Subsection 907-703.03.2.4 may also be used in conjunction with the coarse aggregate sizes listed. Lightweight aggregate (LWA) meeting the requirements of Subsection 907-703.19.2 may also be used as a partial replacement for fine aggregate.

** The replacement limits of portland cement by weight by other cementitious materials (such as fly ash, GGBFS, silica fume, or others) shall be in accordance with the values in Subsection 907-701.02. Other hydraulic cements may be used in accordance with the specifications listed in Section 701.

For Class AA concrete for concrete bridge decks, the water / cementitious ratio range shall be 0.43 – 0.45 and the maximum cementitious material content shall be 550 pounds per cubic yard. The “maximum cementitious material content” refers to the total weight of Portland cement, blended hydraulic cement, GGBFS, silica fume, and fly ash.

*** Unless otherwise specified, minus slump requirements shall meet those set forth in Table 3 of AASHTO Designation: M157.

For Class AA concrete for concrete bridge decks the maximum permitted slump may be increased to five (5) inches. Also, for each additional pound of fibers per cubic yard added in excess of the requirement in Note ***** , an additional inch of slump will be allowed up to a maximum permitted slump of eight (8) inches.

For Class AA not used in bridge decks and all other Classes of concrete, the maximum permitted slump may be increased to eight (8) inches.

For Class DS concrete for drilled shafts the slump range shall be 8 inches $\pm$ 1 inch.

***** The tolerance on total air content shall be $\pm 1.5\%$. For Class AA concrete for concrete bridge decks, the nominal total air content may be increased to 6.5%.

***** For Class AA concrete for concrete bridge decks, an approved synthetic structural fiber meeting the requirements of Special Provision 907-711, Synthetic Structural Fiber Reinforcement, shall be incorporated into the mixture at 1.25 times the approved dosage rate.

***** Entrained air is not required except for concrete exposed to seawater. For concrete not exposed to seawater, the total air content shall not exceed 6.0%. For concrete exposed to seawater, the nominal total air content shall be 4.5%.

At least one water-reducing admixture or water-reducing/set-retarding admixture shall be used in all classes of concrete in accordance with the manufacturer's recommended dosage range. Admixtures providing a specific performance characteristic other than those of water reduction or set retardation may be used in accordance with the manufacturer's recommended dosage range. Mixture designs containing accelerating admixtures will not be approved. Any combinations of admixtures shall be approved by the Engineer before their use.

907-804.02.10.1--Proportioning of Portland Cement Concrete Mixture Design. Proportioning of portland cement concrete shall be based on an existing mixture of which the producer has field experience and documentation or based on a recently batched laboratory mixture tested according to the required specifications.

907-804.02.10.1.1--Proportioning on the Basis of Previous Field Experience of Trial Mixtures. Where a concrete production facility has a record, based on at least 10 consecutive strength tests from at least 10 different batches within the past 12 months from a mixture not previously used on Department projects, the standard deviation shall be calculated. The record of tests from which the standard deviation is calculated shall:

- a) Represent similar materials and conditions to those expected. Changes in materials and proportions within the test record shall not have been more closely restricted than those for the proposed work.
- b) Represent concrete produced to meet a specified strength.
- c) Consist of 10 consecutive tests, average of two cylinders per test, tested at 28 days.

The standard deviation, s , shall be calculated as:

$$s = \left[\sum (X_i - \bar{X})^2 \div (N - 1) \right]^{1/2}$$

where:

X_i = the strength result of an individual test

$\bar{X}$ = the average of individual tests in the series

N = number of tests in the series

When the concrete production facility does not have a record of tests for calculation of standard deviation, as required in the above formula, the requirements of Subsection 907-804.02.10.1.2 shall govern.

The required average compressive strength (f'_{cr}) used as the basis for selection of concrete proportions shall conform to the inequality listed below, while using a standard deviation, s , calculated as shown above.

$$\bar{X} \geq f'_{cr}$$

where:

$$f'_{cr} = f'_c + 1.43s$$

where:

f'_c = specified compressive strength of concrete, psi

f'_{cr} = required average compressive strength of concrete, psi

s = standard deviation, psi

1.43 represents the Lower Quality Index necessary to assure that 93% of compressive strength tests are above f'_c .

907-804.02.10.1.2--Proportioning on the Basis of Laboratory Trial Mixtures. When an acceptable record of field test results is not available, concrete proportions shall be established based on laboratory trial mixtures meeting the following restrictions:

- a) The combination of materials shall be those intended for use in the proposed work.
- b) Trial mixtures having proportions and consistencies suitable for the proposed work shall be made using the ACI 211.1 as a guide to proportion the mixture design.
- c) Trial mixtures shall be designed to produce a slump within $\pm 3/4$ inch of the maximum permitted, and for air-entrained concrete, ± 0.5 percent of the maximum total air content. The temperature of freshly mixed concrete in trial mixtures shall be reported.
- d) For each proposed mixture, at least three compressive test cylinders shall be made and cured in accordance with AASHTO Designation: R 39. Each change of water-cement ratio shall be considered a new mixture. The cylinders shall be tested for strength in accordance with AASHTO Designation: T 22 and shall be tested at 28 days.
- e) The required average strength of laboratory trial mixes shall exceed f'_c by 1200 psi for concrete mixture designs less than 5000 psi and by 1400 psi for concrete mixture designs of 5000 psi or more.

- f) The laboratory trial batch mixtures shall have been made within the previous 12 months before being submitted for approval and shall not have been previously used on Department projects.

907-804.02.10.2--Documentation of Average Strength. Documentation that the proposed concrete proportions will produce an average strength equal to or greater than the required average shall consist of the strength test records from field tests or results from laboratory trial mixtures.

907-804.02.10.3--Field Verification of Concrete Mixture Design. Concrete mixture designs will only be tentatively approved pending field verification. The requirements for yield, slump, or total air content shall be successfully met within the first three (3) production days. Mixture designs may be transferred to other projects without additional field verification testing, once the mixture design has passed the field verification process.

The Contractor's Certified Quality Control Technicians shall test each concrete mixture design upon the first placement of the mix. Aggregates and concrete tests during the first placement shall be as follows.

<u>Aggregates</u>	<u>Concrete</u>
Bulk Specific Gravity	Water Content
Moisture	Slump
Gradation	Air Content
	Unit Weight
	Yield

For all Classes of concrete, the mixture shall be verified to yield within 2.0% of the correct volume when all the mix water is added to the batch.

For all Classes of concrete other than DS, F, and FX, the mixture shall produce a slump within a minus 1½-inch tolerance of the maximum permitted for mixtures with a maximum permitted slump of three inches (3") or less or within a minus 2½-inch tolerance of the maximum permitted for mixtures with a maximum permitted slump of greater than three inches (3"), and producing a total air content within a minus 1½ percent tolerance of the maximum allowable air content in Table 3.

For Class DS, the slump shall be within the requirements in Note *** below Table 3. For Class DS exposed to seawater, the total air content shall be within a minus 1½ percent tolerance of the maximum allowable air content in Note ***** below Table 3. For Class DS not exposed to seawater the total air content shall be within the requirements in Note ***** below Table 3.

For Classes F and FX, the slump shall be within a minus 1½-inch tolerance of the maximum permitted for mixtures with a maximum permitted slump of three inches (3") or less or within a minus 2½-inch tolerance of the maximum permitted for mixtures with a maximum permitted slump of greater than three inches (3"). For Classes F and FX exposed to seawater, the total air content shall be within a minus 1½ percent tolerance of the maximum allowable air content in

Note ***** below Table 3. For Classes F and FX not exposed to seawater the total air content shall be within the requirements in Note ***** below Table 3.

The mixture shall be adjusted and retested, if necessary, on subsequent placements until the above mentioned properties are met.

If the requirements for yield, slump, or total air content are not met within the first three (3) production days, subsequent field verification testing shall not be permitted on Department projects, and the mixture design shall not be used until the requirements listed above are met. Any mixture design adjustments, changes in the mixture proportions, are to be made by a Class III Certified Technician representing the Contractor. After the mixture design has been verified and adjustments made, verification test results will be reviewed by the Engineer.

907-804.02.10.3.1--Slump Retention of Class DS Concrete Mixture Designs. Prior to concrete placement, the Contractor shall provide test results of a slump loss test using approved methods to demonstrate that the mixture meets the four hour requirement in Subsection 907-803.02.7.1. These tests shall be conducted successfully by an approved testing laboratory within 30 days prior to installation of the trial shaft, with personnel from the Materials Division present. The slump loss test shall be conducted at temperatures and conditions similar to those expected at the job site at the time of the installation of the trial shaft. The sample for the slump loss test shall be from a minimum batch size of four (4) cubic yards of concrete. If the time between the previous successful slump loss test and the installation of the trial shaft exceeds 30 days, another successful slump loss test shall be performed on the first truckload of concrete as part of the installation of the trial shaft. This requirement limiting the time between the previous slump loss test and an installation of the trial shaft also applies to Class DS concrete mixture designs being transferred from another project. During any shaft installation a slump loss test shall be conducted by the Contractor at the direction of the Engineer from the concrete at the site for verification of slump loss requirements using a sample from a minimum batch size of four cubic yards of concrete.

907-804.02.10.4--Adjustments of Mixtures. The mixture design may be adjusted by the Class III Certified Technician representing the Contractor in accordance with the allowable revisions listed in the Department's *Concrete Field Manual*, paragraph 5.7. Written notification shall be submitted to the Engineer a minimum of seven (7) days prior to any source or brand of material change, aggregate size change, allowable material type change, or decrease in any cementitious material content. Any adjustments of the concrete mixture design shall necessitate repeat of field verification procedure as described in Subsection 907-804.02.10.3 and approval by the Engineer.

907-804.02.11--Concrete Batch Plants. The concrete batch plant shall meet the requirements of the National Ready Mixed Concrete Association *Quality Control Manual, Section 3, Plant Certification Checklist* as outlined in the latest edition of the Department's *Concrete Field Manual*. The Contractor shall submit a copy of the approved checklist along with proof of calibration of batching equipment, i.e., scales, water meter, and admixture dispenser, to the Engineer 30 days prior to the production of concrete.

For projects with 1000 cubic yards and more, the concrete batch plant shall meet the requirements for an automatic system capable of recording batch weights. It shall also have automatic moisture

compensation for the fine aggregate. For projects of more than 200 but less than 1000 cubic yards the plant can be equipped for manual batching with a fine aggregate moisture meter visible to the plant operator.

The concrete batch plant shall have available adequate facilities to cool concrete during hot weather.

Mixer trucks to be used on the project are to be listed in the checklist and shall meet the requirements of the checklist.

907-804.02.12--Contractor's Quality Control. The Contractor shall provide and maintain a quality control program that will provide reasonable assurance that all materials and products submitted to the Department for acceptance will conform to the contract requirements, whether manufactured or processed by the Contractor or procured from suppliers, subcontractors, or vendors.

The Contractor's Quality Control program shall implement the minimum quality control requirements shown in Table 4, "CONTRACTOR'S MINIMUM REQUIREMENTS FOR QUALITY CONTROL". The quality control activities shown in the table are considered to be normal activities necessary to control the production and placing of a given product or material at an acceptable quality level. To facilitate the Department's activities, all completed gradation samples shall be retained for a maximum of sixty (60) days by the Contractor until further disposition is designated by the Department.

The Contractor shall perform, or have performed, the tests required to substantiate product conformance to contract document requirements and shall also perform, or have performed, all tests otherwise required.

The Contractor's Quality Control program shall encompass the requirements of AASHTO Designation: M 157 into concrete production and control, equipment requirements, testing, and batch ticket information. The requirement of AASHTO Designation: M 157, Section 11.7 shall be followed except, on arrival to the job site, a maximum of 1½ gallons per cubic yard shall be allowed to be added. Water shall not be added at a later time. Job site adjustment of a batch using chemical admixtures or the mechanical adjustment of a batch may be performed by the Contractor if the requirements of Subsection 907-804.02.12.1.1 have been satisfactorily addressed in the Quality Control Plan. If either the maximum permitted slump is exceeded or the total air content is not within the required range after all adjustments are made at the job site, the concrete shall be rejected.

The Contractor's quality control tests shall be documented and shall be available for review by the Engineer throughout the life of the contract.

As set out in these specifications, quality control sampling and testing performed by the Contractor will be used by the Department for determination of acceptability of the concrete.

The Contractor shall maintain standard equipment and qualified personnel as required to assure conformance to contract requirements.

907-804.02.12.1--Quality Control Plan. The Contractor shall prepare a Quality Control Plan which shall identify the personnel responsible for the Contractor's quality control including the company official who will act as liaison with Department personnel. The Quality Control Plan shall be submitted in writing to the Engineer for approval 30 days prior to the production of concrete.

The class(es) of concrete involved will be listed separately. If an existing mixture design(s) is to be used, the mixture design number(s) as previously approved shall be listed.

It is intended that sampling and testing be in accordance with standard methods and procedures, and that measuring and testing equipment be standard and properly calibrated. If alternative sampling methods and procedures, and inspection equipment are to be used, they shall be detailed in the Quality Control Plan.

907-804.02.12.1.1--Elements of Plan. The Plan shall address all elements that affect the quality of the structural concrete including, but not limited to, the following items:

- 1) Stockpile Management
- 2) Procedures for Corrective Actions for Non Compliance of Specifications
- 3) Procedure for Controlling Concrete Temperatures
- 4) Job Site Batch Adjustments by Addition of Chemical Admixtures:

The Plan shall address if the Contractor intends to adjust either the slump and/or total air content of a batch on the job site by adding chemical admixture(s) to a batch. The Contractor shall include the names of the personnel designated to perform this batch adjustment, the equipment used to add the chemical admixture(s), and the procedure by which the batch adjustment will be accomplished. Only the Contractor's designated personnel shall adjust a batch. Only calibrated dispensing equipment shall be used to add chemical admixture(s) to a batch. Only the procedure described in this section of the Plan shall be utilized.

If either the maximum permitted slump is exceeded or the total air content is not within the required range after all adjustments are made at the job site, the concrete shall be rejected.

If the Contractor elects to utilize Job Site Batch Adjustments by Addition of Chemical Admixture within Item 2, Procedures for Corrective Actions for Non Compliance of Specifications, to adjust batches which do not meet the minimum specification requirements for slump and/or total air content, no more than three batches on any one project shall be allowed to be adjusted regardless of the number of mixtures associated with the project.

- 5) Construction of Concrete Bridge Decks, including the following:

- the description of the equipment used for placing concrete on the bridge deck in accordance with Subsection 907-804.03.6 and, as applicable, Subsections 907-804.03.7 and 907-804.03.8 including any accessories added to the pump to ensure the entrained air in the concrete mixture remains entrained during pumping and depositing of the concrete mixture,
- the description of and the number of pieces of equipment used to consolidate the concrete in accordance with Subsection 907-804.03.6.2,
- the description of the equipment used to finish the bridge deck in accordance with Subsection 907-804.03.19.7,
- the plan for ensuring a continuous rate of finishing the bridge deck without delaying the application of curing materials within the time specified in Subsection 907-804.03.17, including ensuring a continuous supply of concrete throughout the placement with an adequate quantity of concrete to complete the deck and filling diaphragms and end walls in advance of deck placement,
- the plan for applying the curing materials within the time specified in Subsection 907-804.03.17,
- the description of the powered fogging equipment in accordance with Subsection 907-804.03.17,
- a sample of the documentation used as the daily inspection report for ensuring maintenance of the continuous wet curing in accordance with Subsection 907-804.03.17, as required,
- the description of the equipment used to apply the liquid membrane, including but not limited to, the nozzles, pumping/pressurization equipment, and liquid membrane tanks, in accordance with Subsection 907-804.03.17,
- the method for determining the rate of applied liquid membrane meets the application rate requirements in accordance with Subsection 907-804.03.17,
- a sample of the documentation used for the application rate verification of the liquid membrane in accordance with Subsection 907-804.03.17.

6) Mechanical Adjustment of Trucks

907-804.02.12.2--Personnel Requirements. The Contractor's Designated Certified Technician shall perform and use quality control tests and other quality control practices to assure that delivered materials and proportioning meet the requirements of the mixture design including temperature, slump, air content, and strength and shall periodically inspect all equipment used in transporting, proportioning, and mixing.

The Contractor's Designated Technician shall periodically inspect all equipment used placing, consolidating, finishing, and curing to assure it is operating properly and that placement, consolidation, finishing, and curing conform to the mixture design and other contract requirements.

907-804.02.12.3--Documentation. The Contractor shall maintain adequate records of all inspections and tests. The records shall indicate the nature and number of observations made, the number and type of deficiencies found, date and time of samples taken, the quantities approved and rejected, and the nature of corrective action taken as appropriate. The Contractor's

documentation procedures will be subject to approval of the Department prior to the start of the work and to compliance checks during the progress of the work.

All conforming and non-conforming results shall be kept complete and shall be available at all times to the Department during the performance of the work. Forms shall be on a computer-acceptable medium. Batch tickets and gradation data shall be documented in accordance with Department requirements.

Batch tickets shall contain all the information in AASHTO Designation: M157, Section 16 including the additional information in Subsection 16.2 with the following exception: the information listed in paragraphs 16.2.7 and 16.2.8 is not required. All material added to a batch by both the batch plant or added manually shall be documented on the ticket. Batch tickets shall also contain the concrete producer's permanent unique mixture number assigned to the concrete mixture design. Copies shall be submitted to the Department as the work progresses.

Test data for portland cement concrete, including gradation, shall be charted in accordance with the applicable requirements.

The Contractor may use additional control charts as deemed appropriate. It is normally expected that testing and charting will be completed within 24 hours after sampling.

All records documenting the Contractor's quality control tests shall become the property of the Department upon completion of the work.

907-804.02.12.4--Corrective Action. The Contractor shall take prompt action to correct conditions that have resulted, or could result, in the submission to the Department of materials and products that do not conform to the requirements of the contract documents. All corrective actions shall be documented.

907-804.02.12.5--Non-Conforming Materials. The Contractor shall establish and maintain an effective and positive system for controlling non-conforming material, including procedures for its identification, isolation and disposition. Reclaiming or reworking of non-conforming materials shall be in accordance with procedures acceptable to the Department.

All non-conforming materials and products shall be positively identified to prevent use, shipment, and intermingling with conforming materials and products. Holding areas, mutually agreeable to the Department and the Contractor, shall be provided by the Contractor.

TABLE 4
CONTRACTOR'S MINIMUM REQUIREMENTS FOR QUALITY CONTROL

Portland Cement Concrete		
Control Requirement	Frequency	AASHTO/ASTM Designation
A. PLANT AND TRUCKS 1. Mixer Blades 2. Scales a. Tared b. Calibrate c. Check Calibration 3. Gauges & Meters - Plant & Truck a. Calibrate b. Check Calibration 4. Admixture Dispenser a. Calibrate b. Check Operation & Calibration	Monthly Daily Every 6 months Weekly Every 6 months Weekly Every 6 months Daily	
B. AGGREGATES 1. Sampling 2. Fine Aggregate a. Gradation / FM b. Moisture c. Specific Gravity / Absorption 3. Coarse Aggregates a. Gradation b. Moisture c. Specific Gravity / Absorption	250 yd ³ concrete Check meter against test results weekly 2500 yd ³ concrete 250 yd ³ concrete Minimum of once daily or more as needed to control production. Check meter against test results weekly. 2500 yd ³ Concrete	T 2 T 27 T 255 T 84 T 27 T 255 T 85
C. PLASTIC CONCRETE 1. Sampling 2. Air Content 3. Slump 4. Compressive Strength 5. Yield 6. Temperature	First load then one per 50 yd ³ First load then one per 50 yd ³ A minimum of one set (three cylinders) for each 100 yd ³ inclusive and one set for each additional 100 yd ³ or fraction thereof for each class concrete delivered and placed on a calendar day from a single supplier. A test shall be the average of three cylinders. Each 400 yd ³ With each sample	T 141 T 152 or T 196 T 119 T 22, T 23, T 231 T 121 C 1064

907-804.02.13--Quality Assurance Sampling and Testing. Quality Assurance (QA) inspection and testing will be provided by the Department to assure that the Contractor's Quality Control (QC) testing meets the requirements of these specifications.

Acceptance of the material is based on the inspection of the construction, monitoring of the Contractor's QC program, QC and QA test results per Subsection 907-804.02.13.1, and the comparison of the QA test results with the QC test results. The Department may use the results of the Contractor's QC tests as a part of the acceptance procedures instead of the results of QA tests, provided:

- a) The Department's inspection and monitoring activities indicate that the Contractor is following the approved QC program and, respectively,
- b) For aggregates, the results from the Contractor's QC and the Department's QA testing of aggregate gradations compare by both meeting the aggregate type's gradation requirements;
- c) For concrete, the Contractor's QC and Department's QA testing of concrete compressive strengths compare when using the data comparison computer program with an alpha value of 0.01 for projects with 1000 cubic yards and more; or, strength comparisons are within 990 psi for projects of more than 200 but less than 1000 cubic yards.

The minimum frequency for QA testing of aggregate and plastic concrete by the Department will follow the frequencies listed in Table 5, "DEPARTMENT'S MINIMUM REQUIREMENTS FOR QUALITY ASSURANCE".

TABLE 5
DEPARTMENT'S MINIMUM REQUIREMENTS FOR QUALITY ASSURANCE

Quality Assurance Tests	Frequency	AASHTO/ASTM Designation
A. AGGREGATES		
1. Sampling		T 2
2. Fine Aggregate Gradation and FM	250 yd ³ concrete	T 27
3. Coarse Aggregates Gradation	250 yd ³ concrete	T 27
B. PLASTIC CONCRETE		
1. Sampling		T 141
2. Air Content	Every 100 yd ³	T 152 or T 196
3. Slump	Every 100 yd ³	T 119
4. Compressive Strength	One set (three cylinders) for every 100 yd ³ inclusive. A test shall be the average of three cylinders.	T 22, T 23, T 231
5. Temperature	With each sample	C 1064

Periodic inspection by the Department of the Contractor's QC testing and production will continue through the duration of the project. Weekly reviews will be made of the Contractor's QC records and charts.

For aggregates, comparison of data of the Contractor's QC aggregate gradation test results to those of the Department's QA aggregate gradation test results will be made monthly during concrete

production periods according to Department Standard Operating Procedures. When it is determined that the Contractor's QC test results of aggregate gradations are comparative to that of the Department's QA test results, then the Department will use the Contractor's QC results as a basis for acceptance of the aggregates and the Department's QA testing frequency of aggregates may be reduced to a frequency of no less than three QA tests to every 10 QC tests. If the Contractor's QC aggregate gradation test results fail to compare to those of the Department's QA aggregate gradation test results, Department testing for aggregate gradations will revert to the frequency shown in Table 5 for aggregates until the Contractor's and Department's aggregate gradation test data compare.

For concrete compressive strength, comparison of data of the Contractor's QC compressive strength test results to those of the Department's QA compressive strength test results will be made monthly during concrete production periods according to Department's *Concrete Field Manual*. When it is determined that the Contractor's QC test results of concrete compressive strengths are comparative to that of the Department's QA test results, then the Department will use the Contractor's QC results as a basis for acceptance of the concrete and the Department's QA testing frequency of concrete compressive strengths may be reduced to a frequency of no less than three QA tests to every 10 QC tests. If the Contractor's QC compressive strength test results fail to compare to those of the Department's QA compressive strength test results, Department testing will revert to the frequency shown in Table 5 for plastic concrete until the Contractor's and Department's compressive strength test data compare.

907-804.02.13.1--Job Control Testing.

907-804.02.13.1.1--Sampling. Sampling of concrete mixture shall be performed in accordance with the latest edition of the Department's *Concrete Field Manual*.

907-804.02.13.1.2--Slump. Slump of plastic concrete shall meet the requirements of Table 3: MASTER PROPORTION TABLE FOR STRUCTURAL CONCRETE DESIGN. A check test shall be made on another portion of the sample before rejection of any load.

907-804.02.13.1.3--Air. Total air content of concrete shall be within the specified range for the class of concrete listed in Table 3: MASTER PROPORTION TABLE FOR STRUCTURAL CONCRETE DESIGN. A check test shall be made on another portion of the sample before rejection of any load.

907-804.02.13.1.4--Yield. If the yield of the concrete mix design is more than plus or minus three percent ($\pm 3\%$) of the designed volume, the mix shall be adjusted by a Class III Certified Technician representing the Contractor to yield the correct volume plus or minus three percent ($\pm 3\%$). If batching of the proportions of the mixture design varies outside the batching tolerance range of the originally approved proportions by more than the tolerances allowed in Subsection 907-804.02.12, the new proportions shall be field verified per Subsection 907-804.02.10.3.

907-804.02.13.1.5--Temperature. Cold weather concreting shall follow the requirements of Subsection 907-804.03.16.1. Hot weather concreting shall follow the requirements of Subsection

907-804.03.16.2. Concrete with a temperature more than the maximum allowable temperature shall be rejected and not used in Department work.

The maximum acceptance temperature for Class DS concrete mixtures is 95°F.

The maximum acceptance temperature of Class C concrete mixtures is 100°F for mixtures meeting the cement replacement requirements of Subsection 907-701.02.2. For Class C concrete mixtures that do not meet the cement replacement requirements of Subsection 907-701.02.2, the maximum acceptance temperature is 95°F.

The maximum acceptance temperature for all other concrete mixtures meeting the cement replacement requirements of Subsection 907-701.02.2 is 95°F. The maximum acceptance temperature for all other concrete mixtures which do not meet the cement replacement requirements of Subsection 907-701.02.2 is 90°F.

907-804.02.13.1.6--Compressive Strength. Standard cured concrete compressive strength tests shall conform to the specified strength (f'_c) listed in the specifications. Concrete represented by compressive strength test below the specified strength (f'_c) may be removed and replaced by the Contractor. If the Contractor elects not to remove the material, it will be evaluated by the Department as to the adequacy for the use intended. All concrete evaluated as unsatisfactory for the intended use shall be removed and replaced by the Contractor at no additional cost to the Department. For concrete allowed to remain in place, reduction in payment will be as follows:

Projects with 1000 Cubic Yards and More. When the evaluation indicates that the work may remain in place, a statistical analysis will be made of the QC and QA concrete test results. If this statistical analysis indicates at least 93% of the material would be expected to have a compressive strength equal to or greater than the specified strength (f'_c) and 99.87% of the material would be expected to have a compressive strength at least one standard deviation above the allowable design stress (f_c), the work will be accepted. If the statistical analysis indicates that either of the two criteria are not met, the Engineer will provide for an adjustment in pay as follows for the material represented by the test result.

Total Pay on Material in Question = Unit Price - (Unit Price x % Reduction)

$$\% \text{ Reduction} = \frac{(f'_c - X)}{f'_c - (f_c + s)} \times 100 \times M$$

where:

f'_c = Specified 28-day compressive strength, psi

X = Individual compressive strength below f'_c , psi

s = standard deviation, psi*

f_c = allowable design stress, psi

M = pay reduction multiplier, per the *Concrete Field Manual*, paragraph 7.3

* Standard deviation used in the above reduction of pay formula shall be calculated from the applicable preceding compressive strengths test results plus the individual compressive strength below f'_c . If below f'_c strengths occur during the project's first ten compressive strength tests, the standard deviation shall be calculated from the first ten compressive strength tests results.

Projects of More Than 200 but Less Than 1000 Cubic Yards. When the evaluation indicates that the work may remain in place, a percent reduction in pay will be assessed based on a comparison of the deficient 28-day test result to the specified strength. The Engineer will provide for an adjustment in pay as follows for the material represented by the test result.

Total Pay on Material in Question = Unit Price - (Unit Price x % Reduction)

$$\% \text{ Reduction} = \frac{(f'_c - X)}{f'_c} \times 100 \times M$$

where:

f'_c = Specified 28-day compressive strength, psi

X = Individual compressive strength below f'_c , psi

M = pay reduction multiplier, per the *Concrete Field Manual*, paragraph 7.3

907-804.02.14--Dispute Resolution. Disputes over variations between Contractor's QC test results and the Department's QA test results shall be resolved at the lowest possible level using the latest edition of the Department's *Concrete Field Manual*. When there are significant discrepancies between the QC test results and the QA test results, the Contractor's QC Manager, the Project Engineer, and/or the District Materials Engineer shall look for differences in the procedures, and correct the inappropriate procedure before requesting a third party resolution.

If the dispute cannot be resolved at the project or District level, the Department's Materials Division will serve as a third party to resolve the dispute. The Materials Division's decision shall be binding.

The Contractor shall be responsible for the cost associated with the third party resolution if the final decision is such that the Department's QA test results were correct. Likewise, the Department will be responsible for the cost when the final decision is such that the Contractor's QC test results were correct.

907-804.03--Construction Requirements.

907-804.03.1--Measurement of Materials.

907-804.03.1.1--General. The accuracy for measuring materials shall be in accordance with AASHTO Designation: M 157.

907-804.03.1.2--Measurement by Weighing. Except when otherwise specified or authorized, the materials shall be measured by weighing. The apparatus provided for weighing materials shall be

suitably designed and constructed for this purpose. Cementitious materials and aggregates shall be weighed separately. Cement in standard bags need not be weighed, but bulk cement and other cementitious materials shall be weighed. The mixing water shall be measured by volume or by weight. All measuring devices shall be subject to approval.

907-804.03.2--Blank.

907-804.03.3--Blank.

907-804.03.4--Hand Mixing. Hand mixing of concrete will not be allowed.

907-804.03.5--Delivery. The plant supplying concrete shall have sufficient capacity and transporting apparatus to ensure continuous delivery at the rate required. The rate of delivery shall be such as to provide for the proper continuity in handling, placing, and furnishing of the concrete. The rate shall be such that the interval between batches shall not exceed 20 minutes. The methods of delivering and handling the concrete shall be that which will facilitate placing with minimum re-handling and without damage to the structure or the concrete.

907-804.03.6--Handling and Placing Concrete.

907-804.03.6.1--General. Prior to placing concrete, all reinforcement shall have been accurately placed in the position shown on the plans and fastened as set out in Section 805. All sawdust, chips, and other construction debris and extraneous matter shall have been removed from the interior of the forms. Temporary struts, braces, and stays holding the forms in correct shape and alignment shall be removed when the concrete placing has reached an elevation rendering their service unnecessary. These temporary members shall be entirely removed from the forms and shall not be buried in the concrete.

No concrete shall be placed until the forms and reinforcement have been inspected.

Except as provided for truck mixers and truck agitators, concrete shall be placed in the forms within 30 minutes after the time that the cement is first added to the mixture.

Concrete shall be placed so as to avoid segregation of materials and displacement of reinforcement. The use of troughs, chutes, and pipes over 25 feet in length for gravity conveyance of concrete to the forms, will not be permitted except when authorized by the Engineer and subject to the production of quality concrete.

Only approved mechanical conveyors will be permitted.

Open troughs and chutes shall be metal or metal lined. The use of aluminum pipes, chutes, or other devices made of aluminum that come into direct contact with the concrete shall not be used. Where steep slopes are required, the chutes shall be equipped with baffles or be in short sections that change the direction of movement.

All chutes, troughs, and pipes shall be kept clean and free from coatings of hardened concrete by thoroughly flushing with water after each run. Water used for flushing shall be discharged clear of the structure.

When placing operations involve dropping the concrete more than five feet, it shall be deposited through sheet metal or other approved pipes to prevent segregation and unnecessary splashing. The pipes shall be made in sections to permit discharging and raising as the placement progresses. A non-jointed pipe may be used if sufficient openings of the proper size are provided to allow for the flow of the concrete into the shaft. As far as practicable, the pipes shall be kept full of concrete during placing, and their ends shall be kept buried in the newly placed concrete.

Except as herein provided, concrete shall be placed in horizontal layers not more than 12 inches thick. When, with the Engineer's approval, less than the complete length of a layer is placed in one operation, it shall be terminated in a vertical bulkhead. Each layer shall be placed and compacted before the preceding layer has taken its initial set and shall be compacted so as to avoid the formation of a construction joint with the preceding layer.

If the Department determines that there is an excessive number of projections, swells, ridges, depressions, waves, voids, holes, honeycombs, or other defects in the completed structure, removal of the entire structure may be required as set out in Subsection 105.12.

907-804.03.6.2--Consolidation. Immediately after depositing the concrete mixture, the concrete mixture shall be thoroughly consolidated by the use of approved mechanical vibrators and suitable spading tools. Only concrete mixture which has not achieved initial set shall be consolidated. Hand spading alone will be permitted on small structural members such as railing, small culvert headwalls, and as necessary to ensure smooth surfaces and dense concrete along form surfaces, in corners, and in locations impossible to reach with vibrators. When hand spading is used for consolidation, a sufficient number of workmen with spading tools shall be provided. For hand spading, flush a thin layer of mortar to all the surfaces and thoroughly and satisfactorily consolidate the concrete.

The Contractor shall conduct operations of depositing and consolidating the concrete mixture such that the operation produces concrete which is uniformly smooth and dense, having no honeycombing or pockets of segregated aggregate.

Movement of personnel through the consolidated concrete shall not be permitted. If it is determined it is necessary to step into previously consolidated concrete, the concrete in the stepped into area shall be consolidated again.

907-804.03.6.2.1--Requirements for Vibrators. Mechanical vibrators shall be subject to the following:

1. To verify compliance with these requirements, the Contractor shall provide the Engineer with a copy of the manufacturer's specifications for each type and brand of vibrator used on the project.

2. The Contractor shall provide a sufficient number of personnel with vibrators to properly consolidate each batch immediately after the concrete is placed in the forms. The Contractor shall provide at least one stand-by vibrator and required power source.
3. Concrete having been consolidated shall not be walked in or through. If it is determined it is necessary to step into previously consolidated concrete, the concrete in the stepped into area shall be consolidated again.
4. Internal vibrators shall be of the spud or tube type, meeting the following characteristics and performance:
 - a. The diameter of the head of the vibrator shall be 1¼ to 2½ inches.
 - b. The frequency of vibration shall be 8000 to 12000 vibrations per minute (Hz) while operating in the concrete.
 - c. The average amplitude shall be 0.025 to 0.05 inch while operating in air.
 - d. The minimum radius of influence shall be seven (7) inches.
 - e. The length of the vibrator head shall be nearly equal to the depth of the layer of concrete placed.
5. When the reinforcing steel is coated with epoxy, internal vibrators with heads of rubber or other resilient material shall be used. Rubber covers securely fastened over steel heads shall be acceptable.
6. For consolidation of concrete used in concrete bridge decks, the following additional requirements shall apply:
 - a. Only internal vibration shall be used.
 - b. Internal vibrators shall all be of the same type and size.
 - c. The configuration of the internal vibrators shall meet the requirements of Subsection 907-804.03.6.2.3.

907-804.03.6.2.2--Operation of Internal Vibration. Mechanical vibrators used for internal vibration shall be operated as follows:

1. Vibrators shall not be dragged or moved laterally through the concrete to transport concrete. Vibrators shall not be used in such a manner that the concrete segregates or forms pockets of grout. Vibrators shall not be applied directly or through the reinforcement to sections or layers of concrete which have taken initial set.
2. Vibrators shall only be inserted into the concrete while operating and at the point of placement to consolidate the concrete for such a length of time that there is a general cessation in the escape of large entrapped air bubbles at the surface.
3. Vibrators shall be inserted slowly into the concrete and allowed to penetrate into the concrete under their own weight.
4. Vibrators shall be inserted into the concrete while they are in a vertical position with enough flexibility to work themselves around the reinforcing steel.
5. The head of the vibrator shall be completely submerged in the concrete for a time of consolidation between 3 and 15 seconds prior to removal, unless otherwise defined by the Engineer.
6. For consolidation of two or more layers of concrete, the vibrator shall be inserted into the bottom most layer at least six (6) inches. The vibrator shall be manipulated in a series of up-and-down motions to knit the layers together.

7. Vibrators shall be removed slowly from the concrete after the consolidation has been accomplished. However, once the head of the vibrator has become only partially immersed in the concrete, vibrators shall be removed rapidly.
8. The insertions of the vibrators shall be systematically spaced such that the entire surface of the concrete comes under the influence of the vibrator during consolidation. This includes areas around the reinforcing steel, imbedded fixtures, the corners and angles of forms, and any irregular areas. The distance between insertions shall not exceed 1.5 times the radius of influence such that the area visibly affected by the vibrator overlaps the adjacent, just-vibrated area.
9. For additional information, refer to ACI 309-07, Chapter 7, Sections 7.1 through 7.3

907-804.03.6.2.3--Method of Consolidation. It is anticipated the Contractor will accomplish consolidation by internal vibration using one of the following two methods: vibrators mounted on a mechanical device or an orchestrated effort utilizing personnel. Regardless of the chosen method, the method shall be included in the QCP in accordance with Subsection 907-804.02.12.1.1.5 and shall only receive tentative approval until the method is demonstrated as effectively meeting the requirements of Subsection 907-804.03.6.2.

907-804.03.6.3--Discontinuance of Placing. When placing is temporarily discontinued, the concrete, after becoming firm enough to retain its form, shall be cleaned of laitance and other objectionable material to a sufficient depth to expose sound concrete. To avoid visible joints insofar as possible upon exposed faces, the top surface of the concrete adjacent to the forms shall be smoothed with a trowel. Where a "feather edge" might be produced at a construction joint, such as in the sloped top surface of a wing wall, an inset form work shall be used in the preceding layer to produce a blocked out portion that will provide an edge thickness of at least six inches (6") in the succeeding layer. Work shall not be discontinued within 18 inches of the top of any face unless provision has been made for a coping less than 18 inches thick. In this case and if permitted by the Engineer, the construction joint may be made at the underside of the coping.

Immediately following the discontinuance of placing concrete, all accumulations of mortar splashed on the reinforcement and the surface of forms shall be removed. Dried mortar chips and dust shall not be puddled into the unset concrete. If the accumulations are not removed prior to the concrete becoming set, care shall be exercised not to break or injure the concrete-steel bond at and near the surface of the concrete while cleaning the reinforcement. After initial set the forms shall not be jarred, and no strain shall be placed on the ends of projecting reinforcement until the concrete has sufficiently set to ensure against any damage by such jarring or strain.

907-804.03.6.4--Placing Bridge Concrete. The method and sequence of placing concrete shall conform to the provisions and requirements set forth for the particular type of construction.

907-804.03.6.4.1--Foundations and Substructures. Concrete seals shall be placed in accordance with Subsection 907-804.03.9. All other concrete for foundations shall be poured in the dry unless otherwise stipulated or authorization is given in writing by the Engineer to do otherwise. Concrete shall not be placed in foundations until the foundation area has been inspected and approved.

Unless otherwise specified, the placement of concrete in the substructure shall be in accordance with the general requirements of Subsection 907-804.03.6.

Unless otherwise directed, concrete in columns shall be placed in one continuous operation, and shall be allowed to set at least 12 hours before the caps are placed.

907-804.03.6.4.2--Superstructure. For simple spans, concrete shall preferably be deposited by beginning at the center of the span and working toward the ends. For continuous spans, concrete shall be deposited as shown on the plans. Concrete in girders shall be uniformly deposited for the full length of the girder and brought up evenly in horizontal layers. Concrete in areas below the bridge deck but being deposited at the same time as concrete for the bridge deck, like a diaphragm, shall be placed and consolidated sufficiently ahead of placing the concrete for the bridge deck such that the placing, consolidating, finishing, and curing of concrete for the bridge deck shall not be impeded or slowed.

Unless otherwise permitted by the Engineer, concrete shall not be placed in the superstructure until the column forms have been stripped sufficiently to determine the character of the concrete in the columns. Unless otherwise permitted by the Engineer, the load of the superstructure shall not be placed on pile bents until the caps have been in place at least seven (7) days and shall not be placed on other types of bents until the bents have been in place at least 14 days.

In placing concrete around steel shapes, it shall be placed on one side of the shape until it flushes up over the bottom flange of the shape on the opposite side, after which it shall be placed on both sides to completion.

Concrete in girder haunches less than three feet (3') in height shall be placed at the same time as that in the girder stem. Whenever a haunch or fillet has a height of three feet (3') or more at the abutment or columns, the haunch and the girder shall be poured in three successive stages: first, up to the lower side of the haunch; second, to the lower side of the girder; and third, to completion.

Except when intermediate construction joints are specified, concrete in slab, T-beam, or deck-girder spans shall be placed in one continuous operation for each span.

The floors and girders of through-girder superstructures shall be placed in one continuous operation unless otherwise specified, in which case special shear anchorage shall be provided to ensure monolithic action between girder and floor.

Concrete in box girders shall be placed as shown on the plans.

Concrete shall not be chuted directly into the forms of the span and shall be placed continuously with sufficient speed to be monolithic and to allow for finishing before initial set.

907-804.03.6.4.3--Bridge Deck. When using the Transverse Method in accordance with Subsection 907-804.03.19.7.3, the period of time between concrete placement and completion of the final curing shall be kept to a minimum, as directed by the Engineer.

907-804.03.7--Pneumatic Placing. Pneumatic placing of concrete will be permitted only if specified in the contract or if authorized by the Engineer. The equipment shall be so arranged that no vibrations result which might damage freshly placed concrete.

Where concrete is conveyed and placed by pneumatic means the equipment shall be suitable in kind and adequate in capacity for the work. The machine shall be located as close as practicable to the place of deposit. The position of the discharge end of the line shall not be more than 10 feet from the point of deposit. The discharge lines shall be horizontal or inclined upwards from the machine. At the conclusion of placement the entire equipment shall be thoroughly cleaned.

907-804.03.8--Pumping Concrete. Placement of concrete by pumping will be permitted only if specified in the contract or if authorized in writing by the Engineer. If used, the equipment shall be arranged so that no vibrations result which might damage freshly placed concrete.

Where concrete mixture is conveyed and placed by mechanically applied pressure (pumping), the equipment shall be suitable in kind and adequate in capacity for the work. The Contractor shall select concrete mixture proportions such that the concrete mixture is pumpable and placeable with the selected equipment.

The pumping equipment shall be thoroughly cleaned prior to concrete placement. Excess form release agent shall be removed from the concrete pump hopper. The Contractor shall prime the pump at no additional cost to the Department by pumping and discarding enough concrete mixture to produce a uniform mixture exiting the pump. At least 0.25 cubic yard of concrete mixture shall be pumped and discarded to prime the pump. Only concrete mixture shall be added directly into the concrete pump hopper after placement has commenced. If anything other than concrete mixture is added to the concrete pump hopper, all concrete mixture in the concrete pump hopper and pump line shall be discarded and the pump re-primed at no additional cost to the Department.

The discharge end of the pump shall be of such a configuration that the concrete does not move in the pump line under its own weight. The intent of this requirement is to ensure that entrained air in the concrete mixture remains entrained during pumping and depositing the concrete mixture. This shall be accomplished with one or both of the following:

- a minimum 10-foot flexible hose attached to the discharge end of a steel reducer having a minimum length of three (3) feet and a minimum reduction in area of 20% which is attached to the discharge end of the pump line, or
- a flexible reducing hose to the discharge end of the pumpline with a minimum reduction in area of 20% over a minimum 10-foot hose length.

Regardless of the configuration chosen, the Contractor shall ensure that the concrete is pumped and does not free-fall more than five (5) feet within the entire length of pump line and after discharge from the end of pump line.

The Contractor shall not have any type of metal elbow, metal pipe, or other metal fitting within five (5) feet of any person during discharge of concrete mixture.

Boom pumps shall have a current Concrete Pump Manufacturers Association's ASME/ANSI B30.27 certification. Equipment added to the boom and pump line shall meet the pump manufacturer's specifications and shall not exceed the manufacturer's maximum recommended weight limit for equipment added to the boom and pump line.

The operation of the pump shall be such that a continuous stream of concrete without air pockets is produced. When pumping is completed, the concrete remaining in the pipe line, if it is to be used, shall be ejected in such a manner that there will be no contamination of the concrete or separation of the ingredients. After this operation, the entire equipment shall be thoroughly cleaned.

The use of aluminum pipe as a conveyance for the concrete will not be permitted.

907-804.03.9--Depositing Concrete Under Water. Concrete shall not be deposited in water except with the approval of the Engineer.

Concrete deposited under water shall be Class S.

Concrete deposited under water shall be carefully placed in a compact mass in its final position by means of a tremie, a bottom dump bucket, or other approved method and shall not be disturbed after being deposited. Special care shall be exercised to maintain still water at the point of deposit. No concrete shall be placed in running water and all form work designed to retain concrete under water shall be water-tight. The consistency of the concrete shall be carefully regulated, and special care shall be exercised to prevent segregation of materials.

Concrete seals shall be placed continuously from start to finish, and the surface of the concrete shall be kept as nearly horizontal as practicable at all times. To ensure thorough bonding, each succeeding layer of a seal shall be placed before the preceding layer has taken initial set.

When a tremie is used, it shall consist of a tube having a diameter of at least 10 inches and constructed in sections having flanged couplings fitted with gaskets. The means of supporting the tremie shall be such as to permit the free movement of the discharge over the entire top surface of the work and to permit it to be lowered rapidly when necessary to choke off or retard the flow of concrete. The discharge end shall be closed at the start of the work so as to prevent water entering the tube and shall be entirely sealed. The tremie tube shall be kept full to the bottom of the hopper. When a batch is dumped into the hopper, the flow of concrete shall be induced by slightly raising the discharge end, always keeping it in the deposited concrete. The flow is then stopped by lowering the tremie. The flow shall be continuous until the work is completed.

Depositing of concrete by the drop bottom bucket method shall conform to the following: The top of the bucket shall be open. The bottom doors shall open freely downward and outward when tripped. The bucket shall be completely filled and slowly lowered to avoid backwash. It shall not be dumped until it rests on the surface upon which the concrete is to be deposited and when discharged shall be withdrawn slowly until well above the concrete.

Dewatering may proceed when the concrete seal is sufficiently hard and strong. As a general rule, this time will be 48 hours for concrete made with high-early-strength cement and three days for concrete made with other types of cement. All laitance and other unsatisfactory material shall be removed from the exposed surface by scraping, chipping, or other means which will not injure the surface of the concrete.

907-804.03.10--Construction Joints.

907-804.03.10.1--General. Unless otherwise approved by the Engineer, construction joints shall be made only where located on the plans or shown in the pouring schedule. If not detailed on the plans, or in the case of emergency, construction joints shall be placed as directed by the Engineer. Shear keys or inclined reinforcement shall be used where necessary to transmit shear or to bond the two sections together.

For continuous spans, bridge deck concrete shall be deposited as shown on the plans. Deviation from the pouring schedule shown in the plans is not permitted.

907-804.03.10.2--Bonding. Before depositing new concrete on or against concrete which has hardened, the forms shall be retightened. The surface of the hardened concrete shall be roughened as required by the Engineer and in a manner that will not leave loosened particles of aggregate or damaged concrete at the surface. It shall be thoroughly cleaned of foreign matter and laitance and saturated with water. When directed by the Engineer, the cleaned and saturated surfaces, including vertical and inclined surfaces, shall first be thoroughly covered with a coating of mortar or neat cement grout against which the new concrete shall be placed before the grout has attained its initial set.

The placing of concrete shall be carried continuously from joint to joint. The face edges of all joints which are exposed to view shall be carefully finished, true to line and elevation.

In order to bond successive courses suitable depressed or raised keys of the designated size shall be constructed. Raised keys shall be monolithic with the concrete of the lower course.

907-804.03.11--Concrete Exposed to Seawater. Unless otherwise specifically provided, concrete for structures exposed to seawater shall be Class AA concrete as referenced in Subsection 907-804.02.10. The clear distance from the face of the concrete to the nearest face of reinforcing steel shall be at least four inches. The mixing time and the water content shall be carefully controlled and regulated so as to produce concrete of maximum impermeability. The concrete shall be thoroughly compacted, and stone pockets shall be avoided. No construction joints shall be formed between the levels of extreme low water and extreme high water as determined by the Engineer. Between these levels, seawater shall not come in direct contact with the new concrete until at least 30 days have elapsed. The surface concrete as left by the forms shall be left undisturbed.

907-804.03.12--Blank.

907-804.03.13--Falsework. The Contractor shall submit to the Engineer four copies of structural design analysis and detail drawings, which show the method of falsework or centering. These designs and detail plans shall be prepared and bear the seal of a Registered Professional Engineer with experience in falsework design.

Falsework plans shall include falsework elevations together with all other dimensions and details which is considered necessary for the construction. Other pertinent data needed is size and spacing of all falsework members and minimum bearing requirements for false piles.

Upon completion of falsework erection, the Registered Professional Engineer shall certify that the erected falsework is capable of supporting the load for construction.

Falsework piling shall be spaced and driven so that the bearing value of each pile is sufficient to support the load that will be imposed upon it. The bearing value of the piles should be calculated according to the appropriate formula given in Section 803.

For designing falsework and centering, a weight of 150 pounds per cubic foot shall be assumed for green concrete. All falsework shall be designed and constructed to provide the necessary rigidity and to support the loads without appreciable settlement or deformation. The Contractor may be required to employ screw jacks or hardwood wedges to take up slight settlement in the falsework either before or during the placing of concrete. An allowance shall be made for anticipated compressibility of falsework and for the placement of shims, wedges, or jacks to produce the permanent structural camber shown on the plans. If during construction, any weakness develops and the falsework shows any undue settlement or distortion, the work shall be stopped, the part of the structure affected removed, and the falsework strengthened before work is resumed. Falsework which cannot be founded on a satisfactory footing shall be supported on piling, which shall be spaced, driven, and removed, as referenced in Subsection 907-804.03.15, in a manner approved by the Engineer.

All structures built across a public street or highway on which maintenance of traffic is required, shall have falsework so arranged that a vertical clearance of at least 12' 6" is provided. Unless otherwise specified, a horizontal clearance of at least the width of the traveled way shall be provided at all times. If the vertical clearance is less than 13' 6" or the horizontal clearance is less than the full crown width of the roadway, the Contractor shall install and maintain appropriate safety devices, clearance signs and warning lights, and shall notify the Engineer sufficiently in advance of restricting the clearance for the Engineer to advise both the Traffic Engineering and the Maintenance Divisions. All traffic control and safety devices shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

907-804.03.14--Forms.

907-804.03.14.1--General. Forms shall be wood, metal, or other material approved by the Engineer. All forms shall be built mortar-tight and sufficiently rigid to prevent distortion due to pressure of the concrete and other loads incident to the construction operations. Forms shall be constructed and maintained so as to prevent warping and the opening of joints due to shrinkage. The forms shall be substantial and unyielding and shall be so designed that the finished concrete

will conform to the proper dimensions and contours. The design of the forms shall take into account the effect of vibration of concrete as it is placed.

Minimum requirements for slab overhang forms shall be 3/4-inch plywood supported on 2-inch x 6-inch S4S wood timbers placed flatwise on 16-inch centers.

Adjustable brackets for support of slab overhang forms shall be spaced at a maximum distance of 3' 0" center to center unless specifically approved otherwise. Grade points for forms shall coincide with the location of the adjustable form brackets.

Forms for surfaces exposed to view shall be of uniform thickness with a smooth inside surface of an approved type. Joints in forms for exposed surfaces shall be closely fitted to eliminate fins, stone pockets, or other variations in the surface of the concrete which would mar a smooth and uniform texture.

Forms shall be filleted at all sharp corners and shall be given a bevel or draft in the case of all projections, such as girders and copings, to ensure easy removal.

Metal ties or anchorages within the forms shall be so constructed as to permit their removal, without injury to the concrete, to a depth of at least the reinforcing steel clearance shown on the plans. In case ordinary wire ties are permitted, all wires, upon removal of the forms, shall be cut back at least 1/4 inch from the face of the concrete with chisels or nippers. Nippers shall be used for green concrete. All fittings for metal ties shall be designed so that upon their removal the cavities which are left will be the smallest practicable size. The cavities shall be filled with cement mortar and the surface left sound, smooth, even, and uniform in color.

Forms shall be set and maintained to the lines designated until the concrete is sufficiently cured for form removal. Forms shall remain in place for periods which shall be determined as hereinafter specified. If forms are deemed to be unsatisfactory in any way, either before or during the placing of concrete, the Engineer will order the work stopped until the defects have been corrected.

The shape, strength, rigidity, water-tightness, and surface smoothness of reused forms shall be maintained at all times. Warped or bulged lumber shall be resized before being reused. Forms which are unsatisfactory in any respect shall not be reused.

Access to the lower portions of forms for narrow walls and columns shall be provided for cleaning out extraneous material immediately before placing the concrete.

All forms shall be treated with an approved oil or saturated with water immediately before placing the concrete. For rail members or other members with exposed faces, the forms shall be treated only with an approved oil to prevent the adherence of concrete. Any material which will adhere to or discolor the concrete shall not be used.

When metal forms are used they shall be kept free from rust, grease, or other foreign matter which will discolor the concrete. They shall be of sufficient thickness and so connected that they will remain true to shape and line, and shall conform in all respects as herein prescribed for mortar

tightness, filleted corners, beveled projections, etc. They shall be constructed so as to ensure easy removal without injury to concrete. All inside bolt and rivet heads shall be countersunk.

All chamfer strips shall be dressed, straight, and of uniform width and shall be maintained as such at all times.

907-804.03.14.2--Stay-In-Place Metal Forms. Stay-in-place (SIP) metal forms are corrugated metal sheets permanently installed between the supporting superstructure members. After the concrete has cured, these forms shall remain in place as permanent, non-structural members of the bridge.

Pay quantities for deck concrete will be computed from the dimensions shown in the Contract Plans with no allowance for changes in deflection and /or changes in dimensions necessary to accommodate the SIP metal forms.

There will be no direct payment for the cost of the forms and form supports, or any material, tools, equipment, or labor incidental thereto, but the cost shall be considered absorbed in the contract unit price for concrete.

Before fabricating any material, three (3) complete sets of SIP metal form shop drawings and design calculations, bearing the Design Engineer's Seal, shall be submitted to the Director of Structures, State Bridge Engineer, through the Engineer, for review. The Contractor's SIP metal form Design Engineer shall be a MS Registered Professional Engineer who is knowledgeable in the field of structural design.

In no case shall additional dead load produced by the use of SIP metal forms overstress any bridge component. Design calculations shall indicate any additional dead load from SIP metal form self-weight, form support hangers, concrete in flutes, concrete due to form deflection, etc. not included in the Contract Plans. The additional dead loads shall be clearly labeled and tabulated on the shop drawings. Bridge Division will evaluate the additional load for overstress of the bridge components. In the event that the additional dead load produces an overstress in any bridge component, Bridge Division will reject the Contractor's design. Deflection and loads produced by deflection of the SIP metal forms shall be considered and indicated in the design calculations.

The cambers and deflections provided in the Contract Plans do not consider the effects of SIP metal forms. The Contractor's Engineer shall take into account the weight of the forms and any additional dead load when developing the "Bridge Superstructure Construction Plan".

For the purpose of reducing any additional dead load produced by the SIP metal forms, the flutes of SIP metal forms may be filled with polystyrene foam. When polystyrene foam is used to fill the forms, the form flutes shall be filled completely; no portion of the polystyrene foam shall extend beyond the limits of the flutes. The Contractor shall ensure that the polystyrene foam remains in its required position within flutes during the entire concrete placement process. The Contractor shall not use reinforcing steel supports or other accessories in such a manner as to cause damage to the polystyrene foam. All damaged polystyrene foam shall be replaced to the

satisfaction of the Engineer. All welding of formwork shall be completed prior to placement of polystyrene foam.

For bridges not located in horizontal curves, the Contractor may reduce the additional dead load by matching the flute spacing with the transverse steel spacing of the bottom layer. The bottom longitudinal layer of steel shall have one (1) inch of minimum concrete cover measured from the bottom of the reinforcing to the top of the flute. The Contractor will not be allowed to vary the reinforcing steel spacing or size from the Contract Plans for the purpose of matching flute spacing.

907-804.03.14.2.1--Materials. SIP metal forms and supports shall meet the requirements of ASTM Designation: A653 having a coating designation G165. Form materials that are less than 0.03-inch uncoated thickness shall not be allowed.

907-804.03.14.2.2--Certification. The Contractor shall provide written certification from the manufacturer stating the product meets the requirements of this specification to the Engineer along with the delivery of the coated forms to the job site.

907-804.03.14.2.3--Polystyrene Foam. The polystyrene foam shall be comprised of expanded polystyrene manufactured from virgin resin of sufficient density to support the weight of concrete without deformation. The polystyrene foam shall be extruded to match the geometry of the flutes and provide a snug fit. The polystyrene foam shall have a density of not less than 0.8 pounds per cubic foot. The polystyrene foam shall have water absorption of less than 2.6% when tested according to ASTM Designation: C272. The Contractor shall provide written certification from the manufacturer stating the polystyrene foam product meets the requirements of this specification to the Engineer along with the delivery of the coated forms to the job site.

907-804.03.14.2.4--Design. The design of the SIP metal forms shall meet the following criteria.

1. The maximum self-weight of the stay in place metal forms, plus the weight of the concrete or expanded polystyrene required to fill the form flutes (where used), shall not exceed 20 psf.
2. The forms shall be designed on the basis of dead load of form, reinforcement, and plastic concrete plus 50 pounds per square foot for construction loads. The design shall use a unit working stress in the steel sheet of not more than 0.725 of the specified minimum yield strength of the material furnished, but not to exceed 36,000 psi.
3. Deflection under the weight of the forms, reinforcement, and plastic concrete shall not exceed 1/180 of the form span or 1/2 inch, whichever is less, for form spans of 10 feet or less, or 1/240 of the form span or 3/4 inch, whichever is less, for form spans greater than 10 feet.
4. The design span of the form shall equal the clear span of the form plus two (2) inches. The span shall be measure parallel to the form flutes.

5. Physical design properties shall be computed in accordance with requirements of the AISI Specifications for the Design of Cold Formed Steel Structural Members, latest published edition.
6. The design concrete cover required by the plans shall be maintained for all reinforcement.
7. The plan dimensions of both layers of primary deck reinforcement from the top surface of the concrete deck shall be maintained.
8. The SIP metal form shall not be considered as lateral bracing for compression flanges of supporting structural members.
9. SIP metal forms shall not be used under closure pours or in bays where longitudinal slab construction joints are located. SIP metal forms shall not be used under cantilevered slabs such as the overhang outside of fascia members.
10. Forms shall be secured to the supporting members by means other than welding directly to the member. Welding to the top flanges of steel stringers and/or girders shall not be allowed. Alternate installation procedures shall be submitted addressing this condition.

907-804.03.14.2.5--Construction. SIP metal form sheets shall not rest directly on the top of the stringer or floor beam flanges. Sheets shall be fastened securely to form supports, and maintain a minimum bearing length of one (1) inch at each end for metal forms. Form supports shall be placed in direct contact with the flange of the stringer or floor beam. All attachments for coated metal forms shall be made by bolts, clips, screws, or other approved means.

907-804.03.14.2.6--Form Galvanizing Repairs. Where forms or their installation are unsatisfactory in the opinion of the Engineer, either before or during placement of the concrete, the Contractor shall correct the defects before proceeding with the construction work. The cost of such corrective work shall be at the sole expense of the Contractor. Minor heat discoloration in areas of welds shall not be touched up.

907-804.03.14.2.7--Concrete. The Contractor shall ensure concrete placement does not damage the SIP metal forms. Approved pouring sequences shall be used. The completed SIP metal form system shall be sufficiently tight to prevent leakage of mortar or concrete. The concrete shall be consolidated to avoid honeycomb and voids, especially at construction joints, expansion joints, valleys, and ends of form sheets. Calcium chloride or any other admixture containing chloride salts shall not be used in the concrete.

907-804.03.14.2.8--Inspection. The Engineer will observe the Contractor's method of construction during all phases of the construction of the bridge deck slab, including the installation of the SIP metal form system; location and fastening of the reinforcement; composition of concrete items; mixing procedures, concrete placement, and vibration; and finishing of the bridge deck. Should the Engineer determine that the procedures used during the placement of the concrete warrant inspection of the underside of the deck, at least one section of the metal forms shall be removed in each span for this purpose. This shall be done as soon after placing the concrete as

practical in order to provide visual evidence that the concrete mix and the procedures are obtaining the desired results. An additional section shall be removed in any span if the Engineer determines that there has been any change in the concrete mix or in the procedures warranting additional inspection.

If, in the Engineer's judgment, inspection is needed to check for defects in the bottom of the deck or to verify soundness, the SIP metal forms shall be sounded with a hammer after the deck concrete has been in place a minimum of two days. If sounding discloses areas of doubtful soundness to the Engineer, the SIP metal forms shall be removed from such areas for visual inspection after the concrete has attained adequate strength. The SIP metal bridge deck forms shall be removed at no expense to the State.

At locations where sections of the metal forms have been removed, the Engineer will not require the Contractor to replace the metal forms. The adjacent metal forms and supports shall be repaired to present a neat appearance and to ensure their satisfactory retention. As soon as the form is removed, the Engineer will examine the concrete surfaces for cavities, honeycombing, and other defects. If irregularities are found and the Engineer determines that these irregularities do not justify rejection of the work, the concrete shall be repaired as directed by the Engineer. If the Engineer determines that the concrete where the form is removed is unsatisfactory, additional metal forms as necessary shall be removed to inspect and repair the slab, and the Contractor's method of construction shall be modified as required to obtain satisfactory concrete in the slab. All unsatisfactory concrete shall be removed and replaced as directed at no expense to the State.

If the method of construction and the results of the inspections as outlined above indicate that sound concrete has been obtained throughout the slabs, the amount of sounding and form removal may be reduced when approved by the Engineer.

The Contractor shall provide a safe and convenient means of conducting of the inspection.

907-804.03.15--Removal of Falsework, Forms, and Housing. In the determination of the time for the removal of falsework, forms, and housing and the discontinuance of heating, consideration shall be given to the location and character of the structure, the weather and other conditions influencing the setting of the concrete, and the materials used in the mix. No forms or supports shall be removed prior to approval by the Engineer. During cold weather, removal of housing and the discontinuance of heating shall be in accordance with Subsection 907-804.03.16.1.

Concrete in the last pour of a continuous superstructure shall have attained a compressive strength of 2,400 psi, as determined by cylinder tests or maturity meter probe, prior to striking any falsework. It is important that falsework be removed as evenly as possible to prevent excessive deflection stresses in the spans.

At the Contractor's option and with the approval of the Engineer, the time for removal of forms may be determined by cylinder tests, in accordance with the requirements listed in Table 6, in which case the Contractor shall furnish facilities for testing the cylinders. The facilities shall include an approved concrete testing machine of sufficient capacity and calibrated by an acceptable commercial laboratory. Tests shall be conducted in the presence of a Department representative

to witness and record strengths obtained on each break or performed by a Department certified technician in an approved testing laboratory.

[a1]The cylinders shall be cured under conditions which are not more favorable than those existing for the portions of the structure which they represent.

Table 6
Minimum Compressive Strength Requirements for Form Removal

Forms:

Columns	1000 psi
Side of Beams	1000 psi
Walls not under pressure	1000 psi
Floor Slabs, overhead	2000 psi
Floor Slabs, between beams	2000 psi
Slab Spans	2400 psi
Other Parts	1000 psi

Centering:

Under Beams	2400 psi
Under Bent Caps	2000 psi

Limitation for Placing Beams on:

Pile Bents, pile under beam	2000 psi
Frame Bents, two or more columns	2200 psi
Frame Bents, single column	2400 psi

For bridges, non-SIP metal forms for bridge deck slabs overhead and bridge deck slabs between beams shall be removed with the approval of the Engineer, between two weeks and four weeks after the removal of the wet burlap applied in accordance with Subsection 907-804.03.17.1, or application of liquid membrane applied in accordance with Subsection 907-804.03.17.2.

In lieu of using concrete strength cylinders to determine when falsework, forms, and housings can be removed, an approved maturity meter may be used to determine concrete strengths by inserting probes into concrete placed in a structure. The minimum number of maturity meter probes required for each structural component shall be in accordance with Table 7. Falsework, forms, and housings may be removed when maturity meter readings indicate that the required concrete strength is achieved. Procedures for using the maturity meter and developing the strength/maturity relationship shall follow the requirements of AASHTO Designation: T 325 and ASTM Designation: C 1074 specifications. Technicians using the maturity meter or calculating strength/maturity graphs shall be required to have at least two hours of training prior to using the maturity equipment.

Table 7
Requirements for use of Maturity Meter Probes

Structure Component	Quantity of Concrete	No. of Probes
Slabs, beams, walls, & miscellaneous items	0 - 30 yd ³	2
	> 30 to 60 yd ³	3
	> 60 to 90 yd ³	4
	> 90 yd ³	5
Footings, Columns & Caps	0 - 13 yd ³	2
	> 13 yd ³	3
Pavement, Pavement Overlays	1200 yd ²	2
Pavement Repairs	Per repair or 900 yd ² Whichever is smaller	2

Methods of form removal likely to cause overstressing of the concrete shall not be used. Forms and supports shall be removed in a manner that will permit the concrete to uniformly and gradually take the stresses due to its own weight. Centers shall be gradually and uniformly lowered in a manner that will avoid injurious stresses in any part of the structure.

As soon as concrete for railings, ornamental work, parapets and vertical faces which require a rubbed finish has attained a safe strength, the forms shall be carefully removed without marring the surfaces and corners, the required finishing performed, and the required curing continued.

Prior to final inspection of the work, the Contractor shall remove all falsework, forms, excavated material or other material placed in the stream channel during construction. Falsework piles may be cut or broken off at least one foot below the mudline or ground line unless the plans specifically indicate that they are to be pulled and completely removed from the channel.

907-804.03.16--Cold or Hot Weather Concreting.

907-804.03.16.1--Cold Weather Concreting. In cold weather, the temperature of the concrete when delivered to the job site shall conform to the temperature limitations of "Temperature Limitations on Concrete when Delivered to Job Site" listed in Table 8 below. Cold weather is defined as three consecutive days when there is a probability that the daily average of the highest and lowest ambient temperatures is expected to be less than 40°F. This three-day forecast shall be based on the latest information available from the National Weather Service.

When the Contractor proposes to place concrete during seasons when there is a probability of ambient temperatures lower than 40°F, the Contractor shall have available on the project the approved facilities necessary to enclose uncured concrete and to keep the temperature of the air inside the enclosure within the ranges and for the minimum periods specified herein.

When there are indications of temperatures of less than 40°F during the first four days after placement of the concrete, the concrete shall be protected from cold temperatures by maintaining a temperature between 50°F and 100°F for at least four days after placement and between 40°F and 100°F for at least three additional days. The Contractor shall use such heating equipment such as stoves, salamanders, or steam equipment as deemed necessary to protect the concrete. When dry heat is used, means of maintaining atmospheric moisture shall be provided.

At the option of the Contractor with the approval of the Engineer, when concrete is placed during cold weather and there is a probability of ambient temperatures lower than 40°F, an approved maturity meter may be used to determine concrete strengths by inserting probes into concrete placed in a structure. The minimum number of maturity meter probes required for each structural component shall be in accordance with Table 7. An approved insulating blanketing material shall be used to protect the work when ambient temperatures are less than 40°F and shall remain in place until the required concrete strength in Table 6 is achieved. Procedures for using the maturity meter and developing the strength/maturity relationship shall follow the requirements of AASHTO Designation: T 325 and ASTM Designation: C 1074 specifications. Technicians using the maturity meter or calculating strength/maturity graphs shall be required to have at least two hours of training prior to using the maturity equipment.

One or more of the aggregates and/or mixing water may be heated. The aggregates may be heated by steam, dry heat, or by placing in the mixing water which has been heated. Frozen aggregates shall not be used. When either aggregates or water are heated above 100°F, the aggregates and water shall be combined first in the mixer before the cement is added to avoid flash set. Cement shall not be mixed with water or with a mixture of water and aggregate having a temperature greater than 100°F.

The use of salt or other chemical admixtures in lieu of heating will not be permitted.

Before placing concrete, all ice or frost shall be removed from the forms and reinforcement.

In the case of concrete placed directly on or in the ground, such as for footings or bottom slabs, protection and curing during cold weather may be provided as set for concrete pavement under Subsection 501.03.20.3.

The Contractor shall assume all risk and added cost connected with the placing and protecting of concrete during cold weather. Permission given by the Engineer to place concrete during such time will in no way relieve the Contractor of responsibility for satisfactory results. Should it be determined at any time that the concrete placed under such conditions is unsatisfactory, it shall be removed and replaced with satisfactory concrete by the Contractor without extra compensation.

TABLE 8
COLD WEATHER TEMPERATURE LIMITATIONS ON CONCRETE WHEN
DELIVERED TO JOB SITE

Section thickness in the least dimension inches	Jobsite Acceptance Temperature Range °F
Less than 12	55 to 75
12 to 36	50 to 70
36 to 72	45 to 65
Greater than 72	40 to 60

907-804.03.16.2--Hot Weather Concreting. The manufacture, placement, and protection of concrete during hot weather requires special attention to ensure that uniform slump ranges and satisfactory placement qualities are maintained, that surface cracking is held to a minimum, and that design strengths are produced.

When the ambient temperature is above 90°F, the forms, reinforcing steel, steel beam flanges, and other surfaces which will come in contact with the concrete shall be cooled to below 90°F by means of a water spray or other approved methods.

When the atmospheric temperature is predicted to be 90°F or above based on the latest information available from the National Weather Service any time during the day of placement or day after placement, the time of placement shall not begin until 5:00 p.m. on the day of placement and shall be completed by 6:00 a.m. the following day.

907-804.03.17--Curing Concrete. Curing is defined as all actions taken to ensure the moisture and temperature conditions of freshly placed concrete exist so the concrete may develop its potential properties. Curing shall take place from the time of placement until its potential properties have developed. The Contractor shall use the guidance in ACI 308R-01 to:

- a) cure the concrete in such a manner as to prevent premature moisture loss from the concrete,
- b) supply additional moisture to the concrete as required in order to ensure sufficient moisture within the concrete, and
- c) maintain a concrete temperature beneficial to the concrete.

Curing in accordance with the requirements in either Subsection 907-804.03.17.1 or Subsection 907-804.03.17.2 shall be completely established within 20 minutes after finishing, except as noted for bridge decks. Finishing is complete when the pan drag, burlap drag, or other finishing method is complete.

When stay-in-place (SIP) metal forms are used in accordance with Subsection 907-804.03.14.2 in conjunction with the Transverse Method in accordance with Subsection 804.03.19.7.3, if the concrete mixture contains lightweight aggregate (LWA) meeting the requirements of Subsection 907-703.19.2 and an internal curing water content of 8.0 pounds or greater per 100 pounds of total cementitious materials, curing shall be accomplished in accordance with either Subsection 907-804.03.17.1 or Subsection 907-804.03.17.2. The minimum amount of LWA shall be established following the information in the Department's *Concrete Field Manual*, Paragraph 5.5.5. If the concrete mixture does not meet or exceed this internal curing water content, curing shall be accomplished in accordance with Subsection 907-804.03.17.1.

When SIP metal forms are not used or used in conjunction with the Longitudinal Method in accordance with Subsection 804.03.19.7.2, curing shall be accomplished in accordance with either Subsection 907-804.03.17.1 or Subsection 907-804.03.17.2.

The length of time for curing shall be maintained in accordance with either of the following:

1. Prescribed Length of Time:

- a) Curing following the requirements of Subsection 907-804.03.17.1 shall continue uninterrupted for at least 14 days.
- b) Curing following the requirements of Subsection 907-804.03.17.2 shall continue uninterrupted for at least 10 days.

OR

2. Length of Time Defined by Development of Compressive Strength:

Curing following the application requirements of Subsection 907-804.03.17.1 or Subsection 907-804.03.17.2 shall continue uninterrupted for each day's production until the compressive strength of the concrete exceeds 75% of the 28-day compressive strength submitted as the Basis of Proportioning per Subsection 907-804.02.10.1. Therefore, if an area is being cured in accordance with Subsection 907-804.03.17.1, the curing by wet burlap shall continue until the concrete in that area has attained a minimum of 75% of the 28-day compressive strength submitted as the Basis of Proportioning per Subsection 907-804.02.10.1. Likewise, if an area is being cured in accordance with Subsection 907-804.03.17.2, the curing by liquid membrane shall continue until the concrete in that area has attained a minimum of 75% of the 28-day compressive strength submitted as the Basis of Proportioning per Subsection 907-804.02.10.1.

The compressive strength of the concrete may be determined by the use of maturity meter in accordance with Subsection 907-804.03.15.

907-804.03.17.1--Water With Waterproof Cover. All burlap shall be completely saturated and wet prior to placing it on the concrete. The burlap shall have been fully soaked in water for a minimum of 12 hours prior to placement on the concrete.

For bridge decks, the Contractor shall apply one (1) layer of saturated burlap within 20 minutes of the initial strike-off for bridges without a skew and 25 minutes of the initial strike-off for bridges with a skew. For all other concrete, the Contractor shall apply one (1) layer of saturated burlap within 20 minutes of completing finishing.

For bridge decks, following the first layer of burlap, the Contractor shall apply a second layer of saturated burlap within five (5) minutes of applying the first layer.

The applied burlap shall completely cover all exposed concrete surfaces. In areas where the burlap may not be directly applied due to the concrete surface, for example, in areas where reinforcing steel protrudes thru the concrete surface, like in the areas of a bridge deck where the bridge railing will be constructed at a later time, the saturated burlap shall be draped over the steel. The concrete surface shall not be allowed to dry after strike-off or at any time during the curing period.

The Contractor shall maintain the burlap in a fully wet condition using powered fogging equipment capable of producing a fog spray of atomized droplets of water until the concrete has gained sufficient strength to allow foot traffic without the foot traffic marring the surface of the concrete. Burlap shall not be maintained in the fully wet condition using equipment which does not produce a fog spray of atomized droplets of water or by use of manually pressurized sprayers.

For bridge decks, once the concrete has gained sufficient strength to allow foot traffic which does not mar the surface of the concrete, soaker hoses shall be placed on the burlap. The soaker hoses shall then be supplied with running water continuously to maintain continuous saturation of all burlap and the entire concrete surface.

If there is a delay in the placement of the first layer of saturated burlap outside the time limit, the struck-off and finished concrete shall be kept wet by use of the powered fogging equipment used to keep the burlap wet.

White polyethylene sheets shall be placed on top of the wet burlap and, as applicable, soaker hoses, covering the entire concrete surface as soon as practical and not more than 12 hours after the placement of the concrete. White polyethylene sheets of the widest practical width shall be used, overlapping adjacent sheets a minimum of six inches (6") and tightly sealed with an adhesive like pressure sensitive tape, mastic, glue, or other approved methods to form a complete waterproof cover of the entire concrete surface. White polyethylene sheets which overlap a minimum of two feet (2') may be held in place using means other than an adhesive. The white polyethylene sheets shall be secured so that wind will not displace them. The Contractor shall immediately repair the broken or damaged portions or replace sections that have lost their waterproof qualities.

If burlap and/or white polyethylene sheets are temporarily removed for any reason during the curing period, the Contractor shall keep the entire exposed area continuously wet. The saturated burlap and white polyethylene sheets shall be replaced, resuming the specified curing conditions, as soon as possible.

The Contractor shall inspect the bridge deck surface once every eight (8) hours for the entirety of the curing period, so that all areas remain wet for the entire curing period and all curing requirements are satisfied and document the inspection in accordance with Subsection 907-804.03.17.1.1.

At the end of the curing period, one coating of liquid membrane shall be applied following the requirements of Subsection 907-804.03.17.1.2. The purpose of the coating of liquid membrane is to allow for slow drying of the concrete. The application of liquid membrane to any area shall be complete within 30 minutes of the beginning of removal of the white polyethylene sheets, soaker hoses, and burlap from this area.

907-804.03.17.1.1--Documentation for Bridge Decks. The Contractor shall provide the Engineer with a daily inspection report that includes:

- documentation that identifies any deficiencies found (including location of deficiency);
- documentation of corrective measures taken;
- a statement of certification that all areas are wet and all curing material is in place on the entire bridge deck;
- documentation showing the time and date of all inspections and the inspector's signature;
- documentation of any temporary removal of curing materials including location, date and time, length of time curing was removed, and means taken to ensure exposed area was kept continuously wet.

907-804.03.17.1.2--Liquid Membrane. At the end of the 14-day wet curing period the wet burlap and polyethylene sheets shall be removed and within 30 minutes, the Contractor shall apply white liquid membrane to the deck. The liquid membrane shall be thoroughly mixed within the time recommended by the liquid membrane producer but no more than an hour before use. If the use of liquid membrane results in a streaked or blotched appearance, the method shall be stopped and water curing applied until the cause of defective appearance is corrected.

The liquid membrane shall be applied when no free water remains on the surface but while the surface is still wet. The liquid membrane shall be applied according to the manufacturer's instructions with a minimum spreading rate per coat of one (1) gallon per 200 square feet of concrete surface. If the concrete is dry or becomes dry, the Contractor shall thoroughly wet it with water applied as a fog spray by means of approved equipment.

The application of liquid membrane shall be accomplished by the use of power applied spray equipment using nozzles and other equipment recommended by the liquid membrane producer. Manually pressurized or manual pump-up type sprayers shall not be used to apply the first application of liquid membrane.

As a visual guide, the color of concrete covered with the required amount of liquid membrane should be indistinguishable from a sheet of commercially available standard "letter" size white copier paper placed on top of it when viewed from a distance of about five feet (5') away horizontally if standing on the same grade as the concrete. The appearance of the concrete does not supersede applying the minimum spreading rate.

The coating shall be protected against marring for at least seven (7) days after the application of the curing compound. The coating on bridge decks shall receive extra attention and may require additional protection as required by the Engineer. All membrane marred or otherwise disturbed shall be given an additional coating. Manually pressurized or manual pump-up type sprayers may be used for giving marred areas the required additional application of liquid membrane. Should the surface coating be subjected repeatedly to injury, the Engineer may require that the water curing method be applied at once.

The 7-day period during which the liquid membrane is applied and protected shall not be reduced even if the period of wet curing is extended past the required 14 days.

907-804.03.17.1.2.1--Liquid Membrane Documentation. The Contractor shall make available to the Engineer an application rate verification method and any information necessary during application of the liquid membrane to verify that the rate of application meets the prescribed rate for the various surfaces of the concrete, including, but not limited to, the top surface of the bridge deck and exposed sides of the bridge deck after any forms are removed. The Contractor shall submit this application verification method to the Engineer in accordance with Subsection 907-804.02.12.1.1.

One method of verifying the rate of application is as follows:

1. Determine the volume of liquid membrane in the container. For a container with a uniform cross-sectional area, for example a 55-gallon drum, determine the area of the cross-section. Determine the height of the surface of the liquid membrane from the bottom of the container. This may be accomplished by inserting a sufficiently long, clean dip-stick parallel with the axis of the container into the liquid membrane until the inserted end of the dip-stick contacts the bottom of the container. On removing the dip-stick, measure the length from the end which was inserted to the point on the dip-stick where the liquid membrane ceases to coat the dip-stick. Multiply the area of the cross-section by the height of the level of liquid membrane, maintaining consistent units, to determine the volume.
2. Perform step 1 prior to beginning applying the liquid membrane to establish the initial volume.
3. During the period of application, perform step 1 each 100 square feet of bridge deck.
4. In order to meet the required application rate of one (1) gallon per 200 square feet, the amount in the container shall be at least 0.5 gallon less than the previous volume in the previous 100 square feet. Other changes in volume may apply depending on the manufacturer's recommended application rate.
5. Additional applications to an area shall be applied until the required rate is satisfied. Areas which are not visually satisfactory to the Engineer shall have additional liquid membrane applied as directed by the Engineer.

The amount of liquid membrane applied shall be determined each day using the application verification method. This information shall be submitted to the Engineer within 24 hours of applying the liquid membrane.

907-804.03.17.2--Liquid Membrane Method. All surfaces on which curing is to be by liquid membrane shall be given the required surface finish prior to the application of liquid membrane. Concrete surfaces cured by liquid membrane shall receive two applications of white liquid membrane. Neither application shall be made from a position supported by or in contact with the freshly placed concrete. Both applications shall be applied perpendicularly to the surface of the concrete.

When using liquid membrane, the liquid membrane shall be thoroughly mixed within the time recommended by the liquid membrane producer but no more than an hour before use. If the use of liquid membrane results in a streaked or blotched appearance, the method shall be stopped and water curing applied until the cause of defective appearance is corrected.

The application of liquid membrane shall be accomplished by the use of power applied spray equipment using nozzles and other equipment recommended by the liquid membrane producer. Manually pressurized or manual pump-up type sprayers shall not be used to apply the first two applications of liquid membrane.

The liquid membrane shall be applied when no free water remains on the surface but while the surface is still wet. The liquid membrane shall be applied according to the manufacturer's instructions with a minimum spreading rate per coat of one (1) gallon per 200 square feet of concrete surface. If the concrete is dry or becomes dry, the Contractor shall thoroughly wet it with water applied as a fog spray by means of approved equipment.

The first application of the liquid membrane shall be made as the work progresses. For bridge decks, the first application shall be completed in each area of the deck, including the area in which the bridge railing will be later constructed, within 20 minutes of initial strike-off for bridges with no skew and within 25 minutes of initial strike-off for bridges with skew. For all other concrete, the first application of the liquid membrane shall be completed within 20 minutes of finishing.

The second application shall be applied within 30 minutes after the first application. The liquid membrane shall be uniformly applied to all exposed concrete surfaces.

As a visual guide, the color of concrete covered with the required amount of liquid membrane should be indistinguishable from a sheet of commercially available standard "letter" size white copier paper placed on top of it when viewed from a distance of about five feet (5') away horizontally if standing on the same grade as the concrete. The appearance of the concrete does not supersede applying the minimum spreading rate.

The Contractor shall make available to the Engineer an application rate verification in accordance with Subsection 907-804.03.17.1.2.1.

The coating shall be protected against marring for at least 10 days after the application of the curing compound. The coating on bridge decks shall receive extra attention and may require additional protection as required by the Engineer. All membrane marred or otherwise disturbed shall be given an additional coating. Manually pressurized or manual pump-up type sprayers may be used for giving marred areas the required additional application of liquid membrane. Should the surface coating be subjected repeatedly to injury, the Engineer may require that the water curing method be applied at once.

After the specified time for curing, but prior to constructing the bridge railing, all liquid membrane shall be removed from both the exposed surfaces of the reinforcing steel and the concrete surfaces on which bridge rail will be constructed. This removal of liquid membrane may be accomplished by high pressure washing or other methods approved by the Engineer.

907-804.03.18--Expansion and Fixed Joints, Bearings, Anchor Bolts, Plates, Castings, Pipes, Drains, Conduits, Etc. All joints shall be constructed according to details shown on the plans. The edges of the concrete at open or filled joints shall be chamfered or edged as indicated on the plans.

907-804.03.18.1--Open Joints. Open joints shall be placed in the locations shown on the plans and shall be constructed by the insertion and subsequent removal of a wood strip, metal plate, or other approved material. The insertion and removal of the template shall be accomplished without chipping or breaking the corners of the concrete. Reinforcement shall not extend across an open joint unless so specified on the plans.

907-804.03.18.2--Filled Joints. Poured expansion joints and joints to be sealed with premolded materials shall be constructed similar to open joints. When premolded types are specified, the filler shall be placed in correct position as the concrete on one side of the joint is placed. When

the form is removed, the concrete on the other side shall be placed. Adequate water stops of metal, rubber, or plastic shall be carefully placed as shown on the plans.

907-804.03.18.3--Premolded and Preformed Joint Seals. When preformed elastomeric compressive joint seals are specified, the previously formed and cured open joint shall be thoroughly cleaned of all foreign matter, the required adhesive uniformly applied, and the seal installed in accordance with the recommendations of the manufacturer of the seal.

When premolded filler is used for the joints in the roadway slab, the tops shall be adequately sealed with poured joint filler in accordance with details on the plans. Premolded filler shall be permanently fastened to an adjacent concrete surface by appropriate use of copper wire, copper nails, or galvanized nails.

907-804.03.18.4--Steel Joints. The plates, angles, or other structural shapes shall be accurately shaped at the shop to conform to the section of the concrete floor. Fabrication and painting shall conform to the specifications covering those items. When called for on the plans or in the special provisions, the material shall be galvanized in lieu of painting. Care shall be taken to ensure that the surface in the finished plane is true and free of warping. Positive methods shall be employed in placing the joints to keep them in correct position during the placing of the concrete. The opening at expansion joints shall be that designated on the plans at normal temperature, and care shall be taken to avoid impairment of the clearance in any manner.

907-804.03.18.5--Water Stops. Adequate water stops of metal, rubber, or plastic shall be placed as shown on the plans. Where movement at the joint is provided for, the water stops shall be of a type permitting movement without injury. They shall be spliced, welded, or soldered to form continuous watertight joints.

907-804.03.18.6--Bearing Devices. Bearing plates, rockers, and other bearing devices shall be constructed according to details shown on the plans. Unless otherwise specified or set in plastic concrete, they shall be set in grout to insure uniform bearing. Structural steel and painting shall conform to the requirements of Sections 810 and 814. When specified, the material shall be galvanized in lieu of painting. The rockers or other expansion bearing devices shall be set, considering the temperature at the time of erection, so that the required position of the device is provided.

At all points of bearing contact, concrete members shall be separated from underlying members by dimensioned bearing pads or by methods and/or materials specified on the plans.

When not otherwise specifically provided, contact areas between concrete super-structures and substructures shall be separated by three layers of No. 15, Type I, roofing felt.

907-804.03.18.7--Friction Joints. Metal friction joints shall consist of plates as indicated on the plans and shall be securely anchored in correct position. All sliding surfaces shall be thoroughly coated with an approved graphite grease. Movement shall not be impeded by the concrete in which the plates are embedded.

907-804.03.18.8--Placing Anchor Bolts, Plates, Castings, Grillage, Conduits, Etc. All anchor bolts, plates, castings, grillage, conduits, etc. indicated on the plans to be placed in or on the concrete shall be placed, set, or embedded as indicated or as directed. These items of the construction shall be set in portland cement mortar as referenced in Subsection 714.11.5, except that anchor bolts may, as permitted by the Engineer, be built into the masonry, set in drilled holes, or placed as the concrete is being constructed by inserting encasing pipe or oiled wooden forms of sufficient size to allow for adjustment of the bolts. After removal of the pipe or forms, the space around the bolts shall be filled with portland cement mortar completely filling the holes. The bolt shall be set accurately and perpendicular to the plane of the seat.

Anchor bolts which are to be set in the masonry prior to the erection of the superstructure shall be carefully set to proper location and elevation with a template or by other suitable means.

When bed plates are set in mortar, no superstructure or other load shall be placed thereon until this mortar has been allowed to set for a period of at least 96 hours, subject to the restrictions for cold weather concreting in Subsection 907-804.03.16.1. The mortar shall be kept well moistened during this period.

Weep hole drains shall be installed in abutments and retaining walls, and roadway drains or scuppers shall be installed in the roadway slabs in accordance with the details shown on the plans.

Where backfill is to be made at weep holes or openings in the structure, sand or stone chimneys or French drains shall be constructed as specified and shall extend through the portion of the backfill to be drained. Except as otherwise provided, the sand, stone, or slag used in this construction shall meet the requirements of Subsection 704.04.

907-804.03.19--Finishing Concrete Surfaces.

804.03.19.1--Classes of Finishes. Surface finishes of exposed concrete surfaces shall be classified as follows:

- Class 1 - Ordinary Surface Finish
- Class 2 - Rubbed or spray Finish
- Class 3 - Tooled Finish
- Class 4 - Sand-Blast Finish
- Class 5 - Wirebrush or Scrubbed Finish
- Class 6 - Floated Surface Finish

907-804.03.19.2--Class 1, Ordinary Surface Finish. Immediately following the removal of forms, all fins and irregular projections shall be removed from all surfaces except from those which are not to be exposed or not to be waterproofed. On all surfaces, the cavities produced by form ties and all other holes, honeycomb spots, broken corners or edges, and other defects shall be thoroughly cleaned, and after having been kept saturated with water for at least three hours shall be carefully pointed and trued with a mortar of cement and fine aggregate mixed in the proportions used in the class of the concrete being finished. Mortar used in pointing shall be not more than one hour old. The mortar patches shall be cured as specified under Subsection 907-804.03.17. All

construction and expansion joints shall be left carefully tooled and free of mortar and concrete. The joint filler shall be left exposed for its full length with clean and true edges.

The resulting surfaces shall be true and uniform. All surfaces which cannot be repaired to the satisfaction of the Engineer shall be given a Class 2 rubbed finish.

907-804.03.19.3--Class 2, Rubbed or Spray Finish.

907-804.03.19.3.1--Rubbed Finish. After removal of forms, the Class 1 finish shall be completed and the rubbing of concrete shall be started as soon as its condition will permit. Immediately before starting this work, the concrete shall be kept thoroughly saturated with water for at least three hours. Surfaces shall be rubbed with a medium course Carborundum stone using a small amount of mortar on its face. The mortar shall be composed of cement and sand mixed in the proportions used in the concrete being finished. Rubbing shall be continued until all form marks, projections, and irregularities have been removed, all voids are filled, and a uniform surface has been obtained. The paste produced by this rubbing shall be left in place at this time.

After all concrete above the surface being treated has been cast, the final finish shall be obtained by rubbing with a fine Carborundum stone and water. This rubbing shall continue until the entire surface is of a smooth texture and uniform color.

After the final rubbing is completed and the surface has dried, it shall be rubbed with burlap to remove loose powder and objectionable marks.

907-804.03.19.3.2--Spray Finish. Prior to the spray finish, the concrete shall be given a Class 1 finish in accordance with Subsection 907-804.03.19.2, supplemented if necessary with a grout meeting the requirements of Subsection 714.11 with fine aggregate modified to require 100 percent passing the No. 16 Sieve.

Grout shall be applied with burlap pads or float sponges, and as soon as the grout has dried the surface shall be brushed to remove all loose grout and the surface left smooth and free of air holes. Surfaces to be sprayed shall be free of efflorescence, flaking coatings, dirt, oil, and other foreign substances. Prior to application of the spray finish, the surfaces shall be free of moisture, as determined by sight and touch, and in a condition consistent with the manufacturer's published recommendations.

The spray finish material shall meet the requirements of Subsection 714.12 and shall be listed on of Approved Sources of Materials. The spray finish shall be applied with heavy duty spray equipment capable of maintaining a constant pressure as necessary for proper application. The material shall be applied as recommended by the manufacturer except the rate of application shall not be less than one gallon per 50 square feet of surface area without prior written approval of the Engineer.

The completed finish shall be tightly bonded to the structure and present a uniform appearance and texture equal to or better than a rubbed finish. If necessary, additional coats shall be sprayed to produce the desired surface texture and uniformity. Upon failure to adhere positively to the

structure without chipping or cracking or to attain the desired surface appearance, the coatings shall be completely removed and the surface given a rubbed finish in accordance with 907-804.03.19.3.1, or other approved methods shall be used to obtain the desired surface finish to the satisfaction of the Engineer without additional cost to the State.

907-804.03.19.4--Classes 3, 4, and 5 Finishes. If required, specifications for these finishes will be contained in the special provisions.

907-804.03.19.5--Class 6, Floated Surface Finish. After the concrete has been deposited in place, it shall be consolidated and the surface shall be struck off by means of a strike board and floated with a wooden or cork float. An edging tool shall be used on edges and expansion joints. The surface shall not vary more than 1/8 inch under a 10-foot straightedge. The surface shall have a granular or matte texture which will not be slick when wet.

907-804.03.19.6--Required Finishes for Various Surfaces.

907-804.03.19.6.1--General. Unless otherwise specified, the top surface of sidewalks, the top horizontal surfaces of footings, and top slabs of box bridges, box culverts, or other structures shall be given a Class 6 finish. All formed concrete surfaces shall be given a Class 1 finish, except on surfaces which are completely enclosed, such as the inside surfaces of cells of box girders, the removal of fins and form marks and the rubbing of mortared surfaces to a uniform color will not be required.

In reference to finishing, exposed surfaces are surfaces or faces which may be seen after all backfill has been placed. Exposed surfaces requiring a Class 2 finish shall be finished at least one foot below the ground line or the low water elevation, whichever is higher.

The Class 2 finish shall be made upon a Class 1 finish. After the removal of forms the Class 1 finish shall be completed and the rubbing of concrete shall be started as soon as the condition of the concrete will permit.

Bridge floors shall be finished in accordance with Subsection 907-804.03.19.7.

907-804.03.19.6.2--Finishing Formed Concrete Surfaces of Box Bridges, Box Culverts, Pipe Headwalls, and Minor Structures. The exposed surfaces of wing walls and parapets of box bridges and box culverts to be used as vehicular or pedestrian underpasses shall be given a Class 2 finish. Exposed surfaces of other box culverts or box bridges, pipe culvert headwalls, and other minor structures shall be given a Class 1 finish unless otherwise indicated on the plans.

The exposed surfaces of retaining walls including copings and parapets shall receive a Class 2 finish.

907-804.03.19.6.3--Finishing Formed Concrete Surface of Bridges. All formed concrete bridge surfaces which are exposed shall have a Class 1 or 2 finish as set forth herein unless designated otherwise on the plans.

Bridges with designated surfaces for Class 2 finish are classified as follows:

- Group A - Bridges over highways, roads and streets.
- Group B - Bridges over waterways and railroads.
- Group BB - Twin or adjacent bridges of Group B category.

When a Group B or BB bridge also spans a highway, road or street, exposed concrete surfaces shall be finished in accordance with Group A requirements.

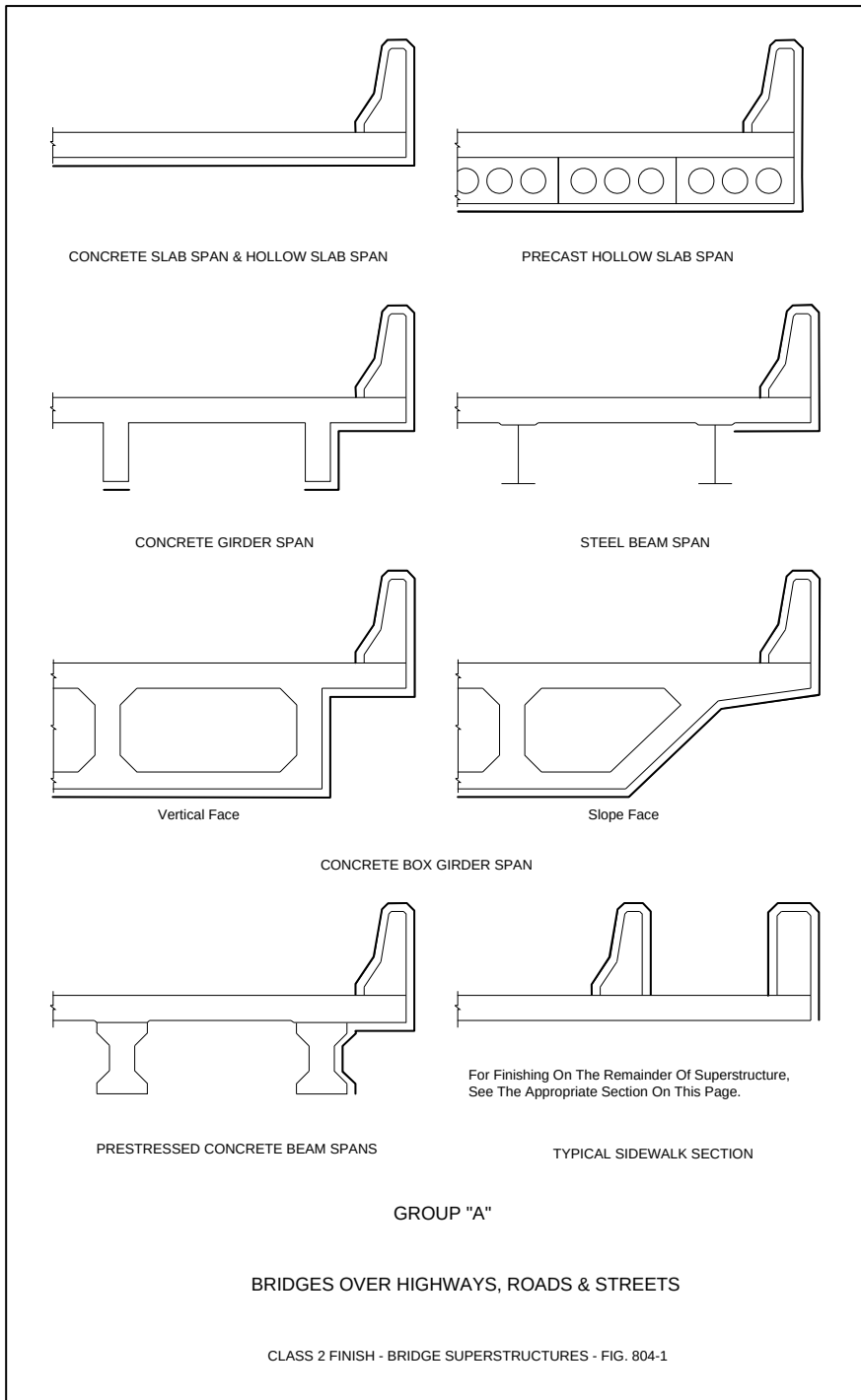
(A) Superstructures. Concrete surfaces to be given a Class 2 finish shall be the exposed surfaces of wings and rails and other exposed surfaces indicated by a double line in Figures 804-1, 804-2, and 804-3.

When a Group B or BB also spans a highway, road or street, the superstructure of spans over and extending one span in each direction beyond the lower level highway, road or street shall be given a Class 2 finish as shown for Group A.

(B) Substructures. Concrete surfaces to be given a Class 2 finish are as follows:

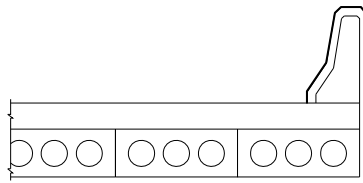
Group A. Exposed surfaces of abutments, end bents, end bent posts, wing walls, railing, retaining walls, parapets, copings, piers, columns, piles, caps, struts or walls between columns or piles, encasement of steel piles, arch rings and spandrel walls.

Group B and BB. Exposed surfaces of abutments, wing walls, end bent posts, railing, retaining walls, parapets and copings.

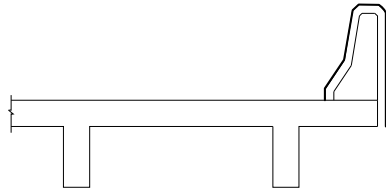




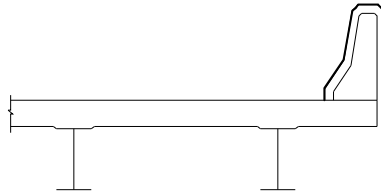
CONCRETE SLAB SPAN & HOLLOW SLAB SPAN



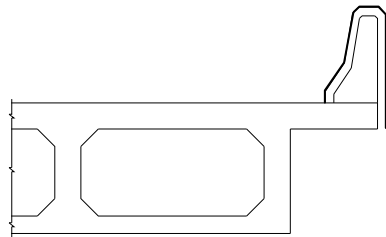
PRECAST HOLLOW SLAB SPAN



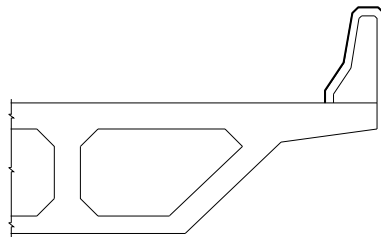
CONCRETE GIRDER SPAN



STEEL BEAM SPAN

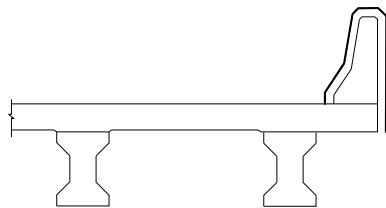


Vertical Face

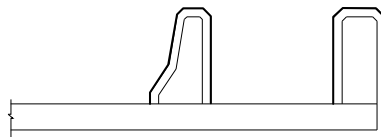


Slope Face

CONCRETE BOX GIRDER SPAN



PRESTRESSED CONCRETE BEAM SPANS

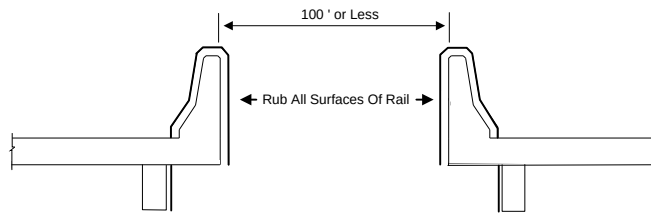


For Finishing On The Remainder Of Superstructure,
See The Appropriate Section On This Page.

TYPICAL SIDEWALK SECTION

GROUP "B"

BRIDGES OVER WATERWAYS AND BRIDGES OVER RAILROAD TRACKS



GROUP "B B" - ADJACENT BRIDGES

GROUP "B B"

TWIN or DUAL BRIDGES

CLASS 2 FINISH - BRIDGE SUPERSTRUCTURES - FIG. 804-3

907-804.03.19.7--Finishing Bridge Decks.

907-804.03.19.7.1--General. Concrete bridge decks shall be struck off and finished by the method(s) designated on the plans.

In the event a method is not designated, the Contractor may use either the longitudinal or transverse method subject to the requirements contained in these specifications.

Except when indicated otherwise on the plans, the finish of the bridge deck shall be either a belt finish, a broom finish, or one of the following drag methods: pan, double pan, burlap, or pan and burlap. Manual finishing of the bridge deck shall be performed only in areas inaccessible by the finishing equipment mounted to the strike-off screed, but shall not hinder the requirements for curing in accordance with Subsection 907-804.03.17.1. The surface texture specified and surface requirements shall be in accordance with the applicable requirements of Subsections 501.03.17 and 501.03.18 modified only as the Engineer deems necessary for bridge deck construction operations.

At no time shall water on the surface of the concrete from bleeding, fogging, curing, or other sources be worked into the concrete or used as an aid for finishing.

Regardless of the method of finishing selected, requirements for curing per Subsection 907-804.03.17 shall be completed within the specified time limits. If the requirements in Subsection 907-804.03.17 are not completed within the specific time limits, the Contractor shall cease operations, revise his operations up to and including acquiring new or additional equipment or additional personnel in order to satisfy the requirements in Subsection 907-804.03.17, and, on approval from the Engineer, resume operations

907-804.03.19.7.2--Longitudinal Method. The longitudinal method may be used for repairs to bridge decks or bridge widening projects. For bridge widening projects, curing in accordance with Subsections 907-804.03.17 shall be completed within 30 minutes of initial strike-off for bridges without skew and within 35 minutes of initial strike-off for bridges with skew.

The longitudinal method requires that the strike-off screed be supported on accurately graded and supported bulkheads or templates placed across the full width at the end(s) of the pour. Before the concrete is placed, approved fixed templates or wooden bulkheads of not less than 1¼-inch lumber shall be placed perpendicular to the centerline of the roadway, or in the case of skew bridges at the angle of skew. At least one dry run shall be made the length of each pour with a "tell-tale" device attached to the screed to assure the specified clearance to the reinforcing steel. The upper surface of the template or bulkheads shall be accurately set to conform to the required grade and crown.

Special attention shall be given to the gutter lines where the strike-off screed cannot reach. The gutters shall be finished by hand and tested with the straight edge. Floor drains shall be set lower than the finished gutter line and finished over. After initial set, the concrete shall be dished out and finished around the drains to form an outlet.

After the concrete has been deposited and rough graded, it shall be struck off by means of a strike-off screed resting on the bulkheads or fixed templates. The strike-off screed shall be of a type satisfactory to the Engineer and shall have sufficient strength to retain its shape under all working conditions. The final surface shall comply with the applicable requirements of Subsections 501.03.17.6 and 501.03.18, and unless otherwise specified in the contract, the final finish under this method shall be the belt finish.

In general, the overall strike-off screed should be trussed, with bracing heavy enough to support the weight of a man without deflecting, and should be adjustable for camber and correction of sag.

The strike-off screed will ride on the bulkheads or fixed templates at the ends of the section being finished. Care shall be taken to see that the bulkhead or fixed template elevations are accurately set since the entire span surface will be controlled by them. The manipulation of the screed shall be such that neither end is raised from the bulkheads or templates during the process.

The concrete shall be struck off by beginning at one curb and proceeding entirely across the span. A slight excess of concrete shall be kept in front of the cutting edge at all times. This operation shall be repeated at least three times. In each case, the strike-off screed shall be picked up and carried back to the point of beginning. No backward strokes will be allowed. The strike-off screed shall be moved along the bulkheads or fixed templates with a combined longitudinal and transverse motion. This operation may be manual or mechanical. Standing or walking in the fresh concrete ahead of the strike-off screed will not be permitted.

907-804.03.19.7.3--Transverse Method. The transverse method requires that the screeding equipment be supported on accurately graded and supported rails placed beyond the gutter lines and parallel with the centerline of the bridge.

The machine shall be so constructed and operated as to produce a bridge deck of uniform density with minimum manipulation of the fresh concrete and achieved in the shortest possible time. Manual transverse methods of screeding will not be permitted.

The finishing machine shall be supported on vertically adjustable rails set a sufficient distance from the gutter line to allow free movement of the screed from gutter line to gutter line. Satisfactory means of load distribution with minimum rail deflection shall be provided. The screed rails for a deck pour shall be completely in place for the full length of the pour and shall be firmly secured prior to placing concrete. The screed rails shall be adjusted as necessary to compensate for settlement and deflection occurring during the screeding operations. Supports for the screed rail shall be located directly over slab overhang support brackets as referenced in Subsection 907-804.03.14.1.

At least one dry run shall be made the length of each pour with a "tell-tale" device attached to the screed carriage to assure the specified clearance to the reinforcing steel.

The screed shall be equipped with a metal cutting edge or other approved mechanical means for accurately fine grading the plastic concrete to the required grade and surface smoothness and shall be supported by a bridging structure sufficiently rigid and heavy to perform operations

satisfactorily on concrete of minimum slump without vibration, distortion, and wrecking of forms. The screed shall be mechanically actuated to deliver the screeding action and for travel in a longitudinal direction at a uniform rate along the bridge deck.

The screed shall complete sufficient passes to strike off all of the excess concrete with ample mortar along the entire leading edge to assure filling of low spots. Care shall be taken to remove all objectionable material from the gutters where final hand finishing will be required.

The selection of the transverse method may require the Contractor to furnish bridge deck concrete which contains an approved water-reducing set-retarding admixture in the quantities approved by the Engineer at no additional cost to the State. See Subsection 713.02 for more information.

Other finishing requirements shall be in accordance with the general requirements in Subsection 907-804.03.19.7.1 and as specified on the plans.

907-804.03.19.7.4--Acceptance Procedure for Bridge Deck Smoothness. After the bridge decks and bridge end slabs are completed and preferably before the construction of the bridge railing, they shall be tested for ride quality using a Contractor furnished profilograph. Profile Index Values shall be determined in accordance with Department SOPs and these specifications. The profilograph shall meet the requirements of Subsection 907-804.03.19.7.5. Profiles will be obtained in the wheel paths of the main thru lanes and, where conditions allow, in the wheel paths of any auxiliary lanes or tapers. Profile Index Values for bridge decks and bridge end slabs shall be obtained for all state roads with four lanes or more, on state roads three lanes or less where the current traffic count is 2000 ADT or higher, or as designated on the plans. Ride quality tests will begin at a point where the rearmost wheel of the profilograph is as close to the beginning of the bridge end slab as possible and shall proceed forward across the remainder of the bridge end slab, across the bridge deck and continue across the next bridge end slab to a point where the front-most wheel of the profilograph reaches the far-most edge of the bridge end slab. Bridges and bridge end slabs not requiring a ride quality test must meet a 1/8 inch in 10-foot straightedge requirement in longitudinal and transverse directions. Bridges in horizontal curves having a radius of less than 1000 feet at the centerline and bridges within the superelevation transition of such curves are excluded from a test with the profilograph.

The Profile Index Value for bridge decks including the bridge end slabs shall be averaged for the left and right wheel path for each lane and where applicable, each auxiliary lane and taper, and shall not exceed 65 inches per mile for each lane. Auxiliary lanes, tapers, shoulders and other areas that are not checked with the profilograph, shall meet a 1/8 inch in 10-foot straightedge check made transversely and longitudinally across the deck or slab. In addition, individual bumps or depressions exceeding 0.3 of an inch, when measured from a chord length of 25 feet, shall be corrected and the surface shall meet a 1/8 inch in 10-foot straightedge check made transversely across the deck or slab.

Bridge decks and bridge end slabs not meeting the preceding requirements shall be corrected. Corrective work shall be done at no additional cost to the Department. Corrective work shall consist of grinding the bridge deck in accordance with this specification. All corrective work shall precede final surface texturing. After completion of final surface texturing, all surface areas

corrected by grinding shall be sealed with a nonstaining 40% minimum alkylalkoxysilane penetrating sealant applied per the manufacturer's directions.

In case the bridge end slabs are to be constructed on a future project, the bridge deck(s) alone shall be tested for ride quality using the acceptance procedure outlined above, except that the ride quality test will begin at a point where the rearmost wheel of the profilograph is as close to the beginning of the bridge as possible and shall proceed forward across the bridge deck to a point where the front-most wheel of the profilograph reaches the far-most edge of the bridge.

Expansion joint installation shall be delayed and the joint temporarily bridged to facilitate operation of the profilograph and grinding equipment across the joint wherever feasible.

It shall be the Contractor's responsibility to schedule profilograph testing. The Contractor shall notify the Department at least five (5) days in advance of profilograph testing. The Contractor shall ensure that the area to be tested has been cleaned and cleared of all obstructions. Profilograph testing of bridge decks and bridge end slabs shall be performed by the Contractor under supervision of the Engineer. All profilograph testing shall be performed at no additional cost to the Department. The Contractor will be responsible for traffic control associated with this testing operation.

907-804.03.19.7.4.1--Grinding Bridge Decks.

907-804.03.19.7.4.1.1--Equipment. The grinding equipment shall be a power driven, self-propelled machine that is specifically designed to smooth and texture portland cement concrete pavement with diamond blades. The effective wheel base of the machine shall not be less than 12.0 feet. It shall have a set of pivoting tandem bogey wheels at the front of the machine and the rear wheels shall be arranged to travel in the track of the fresh cut pavement. The center of the grinding head shall be no further than 3.0 feet forward from the center of the back wheels.

The equipment shall be of a size that will cut or plane at least 3.0 feet wide. It shall also be of a shape and dimension that does not encroach on traffic movement outside of the work area. The equipment shall be capable of grinding the surface without causing spalls at cracks, joints, or other locations.

907-804.03.19.7.4.1.2--Grinding. The grinding areas will be determined by the Contractor and approved by the Engineer. The Contractor shall develop and submit to the Engineer for approval a Grinding Plan. The Contractor shall allow up to 45 days for the Department to review the Plan prior to starting any grinding operations. This plan shall include as a minimum:

- 1) Name of the project superintendent in responsible charge of the grinding operation.
- 2) List and description of all equipment to be used.
- 3) Maximum depth of each pass allowed by the grinding equipment.
- 4) Maximum width of each pass allowed by the grinding equipment.
- 5) Details of a sequence of the grinding operation.
- 6) Complete data from Profilograph runs, based on a 0.3 inch bump height, for each wheel path over the entire bridge including bridge end slabs, which shall include profile index,

bump locations (in stations), bump heights and proposed final cross-slopes. When a computerized profilograph is used, a complete printout of the profile including the header information for each wheel path will be required.

- 7) Data showing reinforcing steel clearance in all areas to be ground.
- 8) A detailed drawing of the deck showing areas to be ground with station numbers and grinding depths clearly indicated.
- 9) A description of grinding in areas where drains are in conflict with grind areas.
- 10) Details of any changes in deck drainage, anticipated ponding, etc.

The Engineer will evaluate the grinding plan for conformance with the plans and specifications, after which the Engineer will notify the Contractor of any additional information required and/or changes that may be needed. Any part of the plan that is unacceptable will be rejected and the Contractor shall submit changes for reevaluation. All approvals given by the Engineer shall be subject to trial and satisfactory performance in the field, and shall not relieve the Contractor of the responsibility to satisfactorily complete the work.

The construction operation shall be scheduled and proceed in a manner that produces a uniform finished surface. Grinding will be accomplished in a manner that eliminates joint or crack faults while providing positive lateral drainage by maintaining a constant cross-slope between grinding extremities in each lane. Auxiliary or ramp lane grinding shall transition as required from the mainline edge to provide positive drainage and acceptable riding surface.

The operation shall result in a finished surface that conforms as close as possible to the typical cross-section and the requirements specified in Subsection 907-804.03.19.7.4.1.3.

The Contractor shall establish positive means for removal of grinding residue. Residue shall not be permitted to flow across lanes used by public traffic or into gutters or drainage facilities.

907-804.03.19.7.4.1.3--Final Surface Texture. The grinding process shall produce a finish surface that is as close as possible to grade and uniform in appearance with a longitudinal line type texture. The line type texture shall contain parallel longitudinal corrugations that present a narrow ridge corduroy type appearance. The peaks of the ridges shall be approximately 1/16 inch higher than the bottoms of the grooves with approximately 53 to 57 evenly spaced grooves per foot. Grinding chip thickness shall be a minimum of 0.080 inches thick.

The finished bridge decks and bridge end slabs shall be retested for riding quality using a Contractor furnished profilograph meeting the requirements of Subsection 907-804.03.19.7.5. The finished results shall meet the following conditions:

- (a) Individual bumps or depressions shall not exceed 0.3 inches when measured from a chord length of 25 feet.
- (b) The final index value for the bridge deck and bridge end slabs shall be an average of both the right and left wheel paths of each lane and shall not exceed 65 inches per mile.

The final profilogram will be furnished to the Engineer for informational purposes.

907-804.03.19.7.5--Profilograph Requirements. The smoothness of the bridge deck will be determined by using a California Profilograph to produce a profilogram (profile trace) at each designated location. The surface shall be tested and corrected to a smoothness index as described herein with the exception of those locations or specific projects that are excluded from a smoothness test with the profilograph.

The profilograph, furnished and operated by the Contractor under supervision of the Engineer, shall consist of a frame at least 25 feet in length supported upon multiple wheels having no common axle. The wheels shall be arranged in a staggered pattern so that no two wheels will simultaneously cross the same bump. A profile is to be recorded from the vertical movement of a sensing mechanism. This profile is in reference to the mean elevation of the contact points established by the support wheels. The sensing mechanism, located at the mid-frame, may consist of a single bicycle-type wheel or a dual-wheel assembly consisting of either a bicycle-type (pneumatic tire) or solid rubber tire vertical sensing wheel and a separate bicycle-type (pneumatic tire) longitudinal sensing wheel. The wheel(s) shall be of such circumference(s) to produce a profilogram recorded on a scale of one (1) inch equal to 25 feet longitudinally and one (1) inch equal to one (1) inch (full scale) vertically. Motive power may be provided manually or by the use of a propulsion unit attached to the center assembly. In operation, the profilograph shall be moved longitudinally along the pavement at a speed no greater than 3 MPH so as to reduce bounce as much as possible. The testing equipment and procedure shall comply with the requirements of Department SOP.

The Contractor may elect to use a computerized version of the profilograph in lieu of the standard profilograph. If the computerized version of the profilograph is used, it shall meet the requirements of Subsection 907-804.03.19.7.5.1.

907-804.03.19.7.5.1--Computerized Profilograph.

907-804.03.19.7.5.1.1--General The computerized profilograph, furnished and operated by the Contractor under the supervision of the Engineer, shall be equipped with an on-board computer capable of meeting the following conditions.

Vertical displacement shall be sampled every three (3) inches or less along the bridge deck. The profile data shall be bandpass filtered in the computer to remove all spatial wavelengths shorter than two (2) feet. This shall be accomplished by a third order, low pass Butterworth filter. The resulting band limited profile will then be computer analyzed according to the California Profilograph reduction process to produce the required inches per mile index. This shall be accomplished by fitting a linear regression line to the length of bridge. This corresponds to the perfect placement of the blanking band bar by a human trace reducer. Scallops above and below the blanking band are then detected and totaled according to the California protocol. Bump/Dip analysis shall take place according to the California Profilograph reduction process.

The computerized profilograph shall be capable of producing a plot of the profile and a printout which will give the following data: Stations every twenty five (25) feet, bump/dip height and bump/dip length of specification (3/10 of an inch and 25 feet respectively), the blanking band width, date of measurement, total profile index in inches per mile for the measurement, total length

of the measurement, and the raw inches for each segment.

907-804.03.19.7.5.1.2--Mechanical Requirements. The profilograph shall consist of a frame twenty five (25) feet long supported at each end by multiple wheels. The frame shall be constructed to be easily dismantled for transporting. The profilograph shall be constructed from aluminum, stainless steel and chromed parts. The end support wheels shall be arranged in a staggered pattern such that no two wheels cross a transverse joint at the same time. The relative smoothness shall be measured by the vertical movement of an eight (8) inch or larger diameter sensing wheel at the midpoint of the 25-foot frame. The horizontal distance shall be measured by a twenty (20) inch or larger diameter pneumatic wheel. This profile shall be the mean elevation referenced to the twelve points of contact with the pavement established by the support wheels. Recorded graphical trace of the profile shall be on a scale of one inch equals one inch (full scale) vertical motion of the sensing wheel and one inch equals 25 feet horizontal motion of the profilograph.

907-804.03.19.7.5.1.3--Computer Requirements. The computer shall have the ability to produce output on sight for verification. The computerized output shall indicate the profile index for each specified section of bridge deck. Variable low and high pass third-order Butterworth filtering options shall be available. The printout shall be capable of showing station marks automatically on the output. Blanking band positioning for each specified section of the bridge deck shall be placed according to the least squares fit line of the collected data. Variable bump and dip tests shall be available to show “must correct” locations on the printout. The computer must have the ability to display on screen “must correct” conditions and alert the user with an audible warning when a “must correct” location has been located. The computer must have the ability to store profile data for later reanalysis. The measurement program must be menu driven and PC compatible. User selected options, identification, calibration factors, and time and date stamps shall be printed at the top of each printed report for verification. The control software must be upgradeable. A power source shall be included for each profilograph and be capable of supplying all power needs for a full days testing.

907-804.03.19.8--Finishing Horizontal Surfaces of Footings or Top Slabs of Box Bridges, Culverts, or Other Structures. The finishing of horizontal surfaces of footing or top slabs of box bridges, culverts, or other structures shall be achieved by placing an excess of material in the form and removing or striking off the excess with a template, forcing the coarse aggregate below the mortar surface. After the concrete has been struck off the surface shall be given a Class 6 finish.

907-804.03.19.9--Finishing Exposed Surfaces of Sidewalks. After the concrete has been deposited in place it shall be consolidated and the exposed surface shall be given a Class 6 finish. An edging tool of the required radius shall be used on all edges and at all expansion joints. The surface shall have a granular texture which will not be slick when wet.

Sidewalk surfaces shall be laid out in blocks with an approved grooving tool as shown on the plans or as directed.

907-804.03.20--Opening Bridges.

907-804.03.20.1--Public Traffic. Unless otherwise specified, concrete bridge decks shall be closed to public highway traffic for a period of at least 21 days after placing concrete.

907-804.03.20.2--Construction Traffic. Unless otherwise specified, concrete bridge decks shall be closed to construction traffic for the time required for curing in Subsection 907-804.03.17 and the minimum required compressive strength for the concrete placed is obtained.

907-804.03.21--Final Cleanup. Upon completion of the work all equipment, surplus materials, forms, and waste material shall be removed, the bridge cleaned, and the site of the work given a final cleanup.

907-804.03.22--Precast-Prestressed Concrete Bridge Members.

907-804.03.22.1--General. All installations and plants for the manufacture of precast-prestressed bridge members shall be PCI (Precast / Prestressed Concrete Institute) Certified. Bridge members manufactured in plants or installations not so approved will not be accepted for use in the work. The Contractor or other manufacturer shall employ a technician skilled in the adopted system of prestressing to supervise the manufacturing operations. This technician shall be certified according to the guidelines of this specification. The Contractor shall develop and implement a Quality Control Program as per Division I of PCI Quality Control Manual, 4th Edition. The Quality Control Program shall be submitted to the District Materials Engineer for approval.

907-804.03.22.2--Stressing Requirements. The jacks for stressing shall be equipped with accurate calibrated gauges for registering the jacking pressure. Means shall be provided for measuring elongation of strands to at least the nearest 1/16 inch.

Prior to beginning work, the Contractor or manufacturer shall have all jacks to be used, together with their gauges, calibrated by an approved laboratory. All jacks and gauges shall have an accuracy of reading within two percent. The testing agency shall furnish the Engineer a statement certifying that the jacks and gauges meet this requirement. During the progress of the work, if a gauge appears to be giving erratic results or if the gauge pressure and elongations indicate materially differing stresses, recalibration will be required.

Calibration of jacks and gauges shall be repeated at intervals deemed necessary by the Engineer. These intervals for calibration shall not exceed one year.

Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Bridge Engineer for approval prior to manufacture of members.

907-804.03.22.2.1--Methods. Plans for the particular bridge members will show prestressing by one of the following methods:

(A) Pretensioning. The prestressing strands are stressed initially. After the concrete is placed, cured, and has attained the compressive strength shown on the plans, the stress is transferred to the member. The method used for pretensions shall be in accordance to Division V of PCI Quality Control Manual, 4th Edition.

(B) Posttensioning. The posttensioning tendons are installed in voids or ducts and are stressed and anchored after development of the compressive strength specified on the plans. The voids or ducts are then pressure grouted.

(C) Combined Method. Part of the reinforcing is pretensioned and part posttensioned. Under this method all applicable requirements for the two methods specified shall apply to the respective stressing elements being used.

907-804.03.22.2.2--Alternate Details for Prestressed Members. In the event that the Contractor / Manufacturer desires to use materials or methods that differ in any respect from those shown on the plans or described in these specifications, the Contractor shall submit for approval full plan details on acceptable tracings suitable for reproduction and specifications which shall become the property of the Department. In order for alternate materials and/or methods to be considered, they will be required to comply fully with the following:

- A. Provisions equal to those stipulated in these specifications.
- B. Current AASHTO Specifications.
- C. Recommendations of materials manufacturer.
- D. Camber tolerance of beams and spans shown on plans.

Note: Alternate materials and methods will not be authorized on Federal-Aid Projects.

The Engineer shall be the sole judge as to the adequacy and propriety of any variation of materials or methods.

907-804.03.22.2.3--Stressing Procedure.

(A) General. Stressing shall be performed by suitable jacks working against unyielding anchorages and capable of maintaining the required stress for an indefinite period without movement or yielding. Strands may be stressed singularly or in a group.

The tension to be applied to each strand shall be as shown on the plans. The tension shall be measured by both jacking gauges and elongations in the strands and the result shall check within close limits.

It is anticipated that there will possibly be a difference in indicated tension between jack pressure and elongation of about five (5) percent. In this event, the discrepancy shall be placed on the side of slight overstress rather than understress.

In the event of an apparent discrepancy between gauge pressure and elongation of as much as five (5) percent, the entire operation shall be carefully checked, and the source of error determined before proceeding further.

Elongation is to be measured after the strands have been suitably anchored, and all possible slippage at the anchorages has been eliminated.

In all stressing operations, the stressing force shall be kept as nearly symmetrical about the vertical axis of the member as practicable.

(B) Pretensioning. All strands to be prestressed shall be brought to a uniform initial tension prior to being given their full pretensioning. This uniform initial tension of approximately 1000 to 2000 pounds shall be measured by suitable means such as a dynamometer so that its value can be used as a check against elongation computed and measured.

After the initial tensioning, the strand or group shall be stressed until the required elongation and jacking pressure is within the limits specified.

When the strands are stressed in accordance with the plan requirements and these specifications and all other reinforcing is in place, the concrete shall be placed in the prepared forms.

Strand stress shall be maintained until the concrete between anchorages has attained the required compressive strength as determined by cylinder tests, after which the strands shall be cut off flush with the ends of column members, and cut as shown on the plans for beams, girders, etc. Strands shall be cut or released in such a manner that eccentricity of prestress will be kept to a minimum and no damage to the member will result. The strand cutting pattern shall be as shown on the plans or as approved by the Bridge Engineer.

(C) Posttensioning. For all posttensioning tendons/bars the anchor plates shall set exactly normal in all directions to the axis of the tendon/bar. Parallel wire anchorage cones shall be recessed within the beams. Tensioning shall not take place until the concrete has reached the compressive strength shown on the plans.

Elongation and jacking pressures shall make appropriate allowance for all possible slippage or relaxation of the anchorage. Posttensioning tendons/bars shall be stressed in the order and manner shown on the plans.

The units shall be tensioned until the required elongations and jacking pressures are attained and reconciled within the limits specified in Subsection 907-804.03.22.2.3(A) with such overstresses as approved by the Engineer for anchorage relaxation.

Independent references shall be established adjacent to each anchorage to indicate any yielding or slippage that may occur between the time of initial stressing and final release of the strands.

Straight tendons/bars may be tensioned from one end. Unless otherwise specified, curved tendons shall be stressed by jacking from both ends of the tendons.

(D) Combined Method. In the event that girders are manufactured with part of the reinforcement pretensioned and part posttensioned, the applicable portions of the requirements listed herein shall apply to each type.

907-804.03.22.3--Manufacture.

907-804.03.22.3.1--Forms. The forms used for precast-prestressed bridge members shall meet the requirements of Division II of the PCI Quality Control Manual, 4th Edition.

907-804.03.22.3.2--Placing and Fastening Steel. Placing and fastening of all steel used for precast-prestressed bridge members shall meet the requirements of Division V of the PCI Quality Control Manual, 4th Edition.

907-804.03.22.3.3--Holes for Prestressing Tendons/Bars. Holes provided in girders for prestressing tendons/bars shall be formed by means of inflatable rubber tubing, flexible metal conduit, metal tubing, or other approved means.

907-804.03.22.4--Placing and Curing Concrete.

907-804.03.22.4.1--Placing. The placing of concrete shall meet the applicable requirements of Division III of PCI Quality Control Manual, 4th Edition.

907-804.03.22.4.2--Curing. Initial and accelerated curing of all members shall meet the applicable requirements of Division IV of PCI Quality Control Manual, 4th Edition except for the following listed requirements.

The source of heat for accelerated cure shall be steam. Calibrated thermocouples shall be implanted into the concrete members to monitor areas expected to have maximum and minimum heat. Curing methods and procedures listed in the prestress producer's PCI Quality System Manual shall be approved by the Department before their implementation.

907-804.03.22.4.3--Removal of Side Forms. Side forms may be removed after the concrete has attained sufficient strength to maintain a true section. In order to obtain "sufficient strength", it may be necessary to cure members for 12 hours or more as prescribed in Subsection 907-804.03.22.4.2, or to attain a minimum compressive strength of 1000 psi.

If high-early-strength concrete is obtained by use of low slump (0 to 1.5-inch) concrete, vacuum process, or other approved methods, side forms may be removed earlier; however, approval of the methods and revision from normal schedules will be made only after inspections by the District Materials Engineer and Materials Division have determined that satisfactory results will be attained by the methods and schedules proposed.

907-804.03.22.4.4--Grouting. The holes through posttensioned members in which the tendons are installed shall be equipped with approved grouting vents. All prestressing tendons to be bonded shall be free of dirt, loose rust, grease, or other deleterious substances. Before grouting, the ducts shall be free of water, dirt, and other foreign substances. The ducts shall be blown out with compressed air until no water comes through the ducts. For long members with draped tendons an open tap at low points may be necessary. After completion of stressing, the annular space between sides of tendon and sides of hole shall be grouted as set in the following paragraphs.

With the grouting vent open at one end of the core hole, grout shall be applied continuously under moderate pressure at the other end until all entrapped air is forced out through the open grout vent, as evidenced by a steady stream of grout at the vent. Whereupon, the open vent shall be closed under pressure. The grouting pressure shall be gradually increased to a refusal of at least 75 psi and held at this pressure for approximately 10 seconds, and the vent shall then be closed under this pressure.

Portland cement grout shall consist of a mixture of:

- 1 part Type 1 portland cement
- 1/4 part fly ash
- 3/4 part washed sand *
- 4 to 6 gallons of water per bag of cement.

* all passing No. 16 sieve and not more than 5% retained on No. 30

Water-reducing admixtures, subject to approval by the Engineer, shall be used in accordance with the manufacturer's recommendations.

The grout shall be mixed in a mechanical mixer, shall have the consistency of heavy paint, and shall be kept agitated until placed.

Members shall not be moved before the grout has set, ordinarily at least 24 hours at 80°F or higher.

907-804.03.22.5--Finishing and Marking. Units shall be given a Class 1 finish at the plant and shall be given a Class 2 finish after erection when required.

Recesses in girders at end of diaphragm bars, holes left by form ties, and other surface irregularities shall be carefully cleaned and patched with an approved non-shrink commercial grout or a non-shrinkage mortar of the following composition:

- 1 part Type 1 portland cement
- 1 1/2 to 2 parts fine sand
- 1/2 to 3/4 ounces aluminum powder per bag of cement
- Approved admixture per Subsection 713.02.
- Sufficient water to produce a workable but rather stiff mix.

The units shall be clearly marked in accordance with Department's *Materials Division Inspection, Certification and Testing Manual*.

907-804.03.22.6--Handling, Storage, and Installation. Posttensioned members may be handled immediately after completion of stressing and grout has set. Pretensioned members may be handled immediately after release of tensioning. In either case, the members shall have developed a minimum compressive strength of 4000 psi prior to handling. In the event stressing is not done in a continuous operation, members shall not be handled before they are sufficiently stressed, as determined by the Engineer, to sustain all forces and bending moments due to handling. In the

handling, storage, and transporting of beams or girders, they shall be maintained in an upright position (position as cast) at all times and shall be picked up from points within distance from beam ends equal to beam depth or at pick-up points designated on the plans. Disregard of this requirement and dropping of units may be cause for rejection, whether or not injury to the unit is apparent. Piles shall be picked up and loaded for shipment at points shown by the suspension diagram on the plans. Extreme care shall be used in handling and storing piles to prevent damage. The dropping of a pile may be cause for rejection of same, whether or not there is apparent injury to the member.

Care shall be exercised during the storage, hoisting, and handling of precast units to prevent damage. Damaged units shall be replaced by the Contractor at no additional costs to the State.

When members are stacked for storage, each layer shall be supported at or near the pick-up points. Supports shall be carefully placed in a vertical line in order that the weight of any member will not stress an underlying member. To prevent damage in moving members it is suggested that rigid supports be covered with a cushion of wood or other resilient material.

Members shall not be transported until at least one day after the concrete has reached a compressive strength of 5000 psi or greater strength when shown on the plans.

Piles used in salt water shall not be driven until concrete is seven days old, and air-entrained concrete shall be used in such piles.

After prestressed concrete voided slab units are set, doweled and bolted in their final position the keyways and dowel holes shall be filled with an approved non-shrink grout. Traffic shall not be permitted on the spans for 24 hours after grouting, and heavy construction equipment exceeding 15 tons will not be permitted on the spans for a period of 72 hours after grouting.

Adjacent slab units that mismatch more than one-fourth inch shall be adjusted prior to grouting of the shear keys. The maximum deviation from cross-section and grade (exclusive of camber) at any point shall not exceed one-fourth inch; and when the surface is checked with a ten-foot straightedge applied both parallel and perpendicular to the centerline, the variance shall not exceed one-fourth inch.

In addition to the requirements set out in this section, the applicable requirements of Section 803 shall apply.

907-804.03.22.7--Tolerances for Accepting Precast Prestressed Concrete. Member shall meet the dimension tolerances set by Division VII of PCI Quality Control Manual, 4th Edition.

907-804.03.22.8--Testing of Materials. Concrete and aggregate testing shall meet the requirements of Division VI of PCI Quality Control Manual, 4th Edition, except that the concrete mixture design shall meet the requirements of Subsection 907-804.02.10. Also, in addition to concrete compressive tests samples made for detensioning and 28-day strength, test samples shall be made and tested in order to prove compliance to the requirements of Subsection 907-804.03.22.6 for handling and shipping prestressed members. Compressive strength test cylinders

for detensioning, handling and shipping shall receive the same type curing as the prestressed members for which they represent. Compressive strength samples shall be made each day for each prestress casting bed.

907-804.03.22.9--Testing Personnel. Technicians testing portland cement concrete used in the production of precast-prestressed members shall be PCI Quality Control Technician/Inspector Certified. Each producer of precast-prestressed members shall have at least one PCI Level II certified technician on site during production for Department projects.

907-804.03.22.10--Documentation. The Precast-Prestressed Producer for each precast-prestressed concrete bridge member shall maintain documentation as set forth in the Department's *Materials Division Inspection, Certification and Testing Manual*. Testing and inspection record forms shall be approved by the Central Laboratory and as a minimum contain information listed in Division VI of PCI Quality Control Manual, 4th Edition.

907-804.03.22.11--Use in the Work. Before any precast-prestressed member is incorporated into the work, documentation as described in Subsection 907-804.03.22.10 is required along with visual inspection of the member at the bridge construction site. Project Office personnel as per the Department's *Materials Division Inspection, Certification and Testing Manual* will make visual inspection of the precast-prestressed member at the bridge construction site.

907-804.04--Method of Measurement. Concrete, complete and accepted, will be measured in cubic yards. The concrete volume will be computed from the neat dimensions shown on the plans, except for such variations as may be ordered in writing by the Engineer. The quantity of concrete involved in fillets, scorings, and chamfers one square inch or less in cross-sectional area will be neglected. Deductions shall be made for the following:

- (1) The volume of structural steel, including steel piling encased in concrete.
- (2) The volume of timber piles encased in concrete, assuming the volume to be 0.80 cubic foot per linear foot of pile.
- (3) The volume of concrete piles encased in concrete.

No deduction will be made for the volume of concrete displaced by steel reinforcement, floor drains, or expansion joint material that is one inch or less in width normal to the centerline of the joint. Where railing is bid as a separate item, that portion of the railing above the top of the curb, above the surface of the sidewalk, or above the bridge roadway, as the case may be, will not be included in the measurement of concrete, but will be measured as railing. Massive pylons or posts which are to be excepted from payment for railing and are intended to be measured for as concrete will be so noted on the plans.

When shown on the plans or directed by the Engineer, concrete placed as a seal for cofferdams will be measured by the cubic yard actually in place, except that no measurement will be made of seal concrete placed outside of an area bounded by vertical planes 18 inches outside the neat lines of the footing as shown on the plans or as directed and parallel thereto.

Reinforcing steel will be measured and paid for in pounds as set out in Section 805.

Unless otherwise specified, structural steel will be measured and paid for as set out in Section 810.

Excavation for bridges will be measured and paid for as in Section 801.

Piling will be measured and paid for as set out in Sections 802 and 803.

Railing will be measured and paid for as set out in Section 813.

Prestressed concrete beams and plank will be measured by the linear foot.

Prestressed concrete voided slab units, interior and exterior with railing, and precast concrete caps, intermediate and end cap with winged abutment wall, of the size and type specified will be measured by the unit complete in place and accepted. Railing, winged abutment walls, grout, tie rods, nuts, washers, bearing pads and other appurtenances will not be measured for separate payment.

907-804.05--Basis of Payment. Concrete will be paid for at the contract unit price per cubic yard for the class or classes specified, complete in place. Prestressed concrete beams and plank will be paid for at the contract unit per linear foot of specified size and type.

Prestressed concrete voided slab units and precast caps will be paid for at the contract unit price per each for the specified types and sizes, complete in place and accepted; which price shall be full compensation for furnishing, hauling and erecting the members; including all prestressing reinforcement and other reinforcement in the members. Payment at the contract unit prices bid shall be full compensation for furnishing all materials, equipment, tools, labor and incidentals necessary to complete the work.

Payment will be made under:

907-804-A: Bridge Concrete, Class ____	- per cubic yard
907-804-B: Box Bridge Concrete, Class ____	- per cubic yard
907-804-C: <u>Length</u> Prestressed Concrete Beam, Type ____	- per linear foot
907-804-D: <u>Length</u> Prestressed Concrete Plank	- per linear foot
907-804-E: <u>Length</u> Prestressed Concrete Voided Slab, <u>Size</u> Interior	- per each
907-804-F: <u>Length</u> Prestressed Concrete Voided Slab, <u>Size</u> Exterior	- per each
907-804-G: <u>Length</u> Precast Concrete Caps, End Unit with Wall	- per each
907-804-H: <u>Length</u> Precast Concrete Caps, Intermediate Unit	- per each

Contract Progress Schedule
Fourth Street Roadway Improvements - Phase II
HPP-7194-00(003)LPA/105845-801000
City of Hattiesburg, Forrest County

LINE NO	WORK ELEMENTS	2017												2018																	
		August			September			October			November			December			January			February			March								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Clearing & Grubbing																														
2	Demolition and Removal																														
3	Erosion Control																														
4	Waterline Adjustments																														
5	Drainage																														
6	Widening																														
7	Curb & Gutter																														
8	Sidewalk																														
9	Driveways																														
10	Milling																														
11	Base Asphalt																														
12	Surface Asphalt																														
13	Temporary Striping																														
14	Crosswalks / Island Pavement																														
15	Permanent Striping																														
16	Traffic Signal (Inc. Burn)																														
17	Grassing / Landscaping																														
Anticipated Working Days Per Month		21			20			16			11			5			6			7			11								

SECTION 905 PROPOSAL

Date _____

Forrest County _____, Mississippi

Sirs: The following proposal is made on behalf of _____
of _____
for constructing the following designated project(s) within the time(s) hereinafter specified.

The plans are composed of drawings and blue prints on file in the offices of:

The Specifications are the current Standard Specifications of the Mississippi Department of Transportation approved by the Federal Highway Administration, except where superseded or amended by the plans, Special Provisions and Notice(s) to Bidders attached hereto and made a part thereof.

I (We) certify that I (we) possess a copy of said Standard and Supplemental Specifications.

Evidence of my (our) authority to submit the Proposal is hereby furnished. The proposal is made without collusion on the part of any person, firm or corporation. I (We) certify that I (we) have carefully examined the Plans, the Specifications, including the Special Provisions and Notice(s) to Bidders, herein, and have personally examined the site of the work. On the basis of the Specifications, Special Provisions, Notice(s) to Bidders, and Plans, I (we) propose to furnish all necessary machinery, tools, apparatus and other means of construction and do all the work and furnish all the materials in the manner specified. I (We) understand that the quantities mentioned herein 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, in accordance with the above.

Attached hereto is a certified check, cashier's check or Proposal Guaranty Bond in the amount as required in the Advertisement (or, by law).

INSTRUCTION TO BIDDERS: Alternate and Optional Items on Bid Schedule.

1. Two or more items entered opposite a single unit quantity WITHOUT DEFINITE DESIGNATION AS "ALTERNATE ITEMS" are considered as "OPTIONAL ITEMS". Bidders may or may not indicate on bids the Optional Item proposed to be furnished or performed WITHOUT PREJUDICE IN REGARD TO IRREGULARITY OF BIDS.
2. Items classified on the bid schedule as "ALTERNATE ITEMS" and/or "ALTERNATE TYPES OF CONSTRUCTION" must be preselected and indicated on bids. However, "Alternate Types of Construction" may include Optional Items to be treated as set out in Paragraph 1, above.
3. Optional items not preselected and indicated on the bid schedule MUST be designated in accordance with Subsection 102.06 prior to or at the time of execution of the contract.
4. Optional and Alternate items designated must be used throughout the project.

I (We) further propose to perform all "force account or extra work" that may be required of me (us) on the basis provided in the Specifications and to give such work my (our) personal attention in order to see that it is economically performed.

SECTION 905 PROPOSAL (Continued)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of the total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bonds within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the Local Public Agency as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

TOTAL ADDENDA: _____
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President

Address

Secretary

Address

Treasurer

Address

The following is my (our) itemized proposal.

Revised 11/2008

SECTION 905 PROPOSAL (Bid Sheet No. 3-7)

PROJECT NUMBER: HPP-7194-00(003) LPA / 105845-801000

COUNTY: FORREST

PROJECT DESCRIPTION: FOURTH STREET ROADWAY IMPROVEMENTS PROJECT - PHASE II

I (We) agree to complete the entire project within the specified contract time.

*** SPECIAL NOTICE TO BIDDERS ***

BIDS WILL NOT BE CONSIDERED UNLESS BOTH UNIT PRICES AND ITEM TOTALS ARE ENTERED.
BIDS WILL NOT BE CONSIDERED UNLESS THE BID CERTIFICATE LOCATED AT THE END OF THE BID SHEETS IS SIGNED.

BID SCHEDULE					
PAY ITEM NO.	PLAN QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM TOTAL
201-A001	1	LS	CLEARING AND GRUBBING	XXXX	
202-A001	1	LS	REMOVAL OF OBSTRUCTIONS	XXXX	
202-B005	2,615	SY	REMOVAL OF ASPHALT PAVEMENT, ALL DEPTHS		
202-B030	585	SY	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS		
202-B035	290	SY	REMOVAL OF CONCRETE SIDEWALK		
202-B038	3165	LF	REMOVAL OF CURBS, ALL TYPES		
202-B057	6	EACH	REMOVAL OF INLETS, ALL SIZES		
202-B064	405	LF	REMOVAL OF PIPE, 8" AND ABOVE		
203-A003	200	CY	UNCLASSIFIED EXCAVATION, FM, AH		
203-EX038	600	CY	BORROW EXCAVATION, AH, FME, CLASS B7-6		
203-G003	750	CY	EXCESS EXCAVATION, FM, AH		
206-A001	960	CY	STRUCTURE EXCAVATION		
209-A004	3,430	SY	GEOTEXTILE STABILIZATION, TYPE V, NON-WOVEN		
211-B001	375	CY	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED		
211-D001	45	CY	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED		
907-213-A001	2	TON	AGRICULTURAL LIMESTONE		
907-216-B001	2,100	SY	SOLID SODDING, CENTIPEDE		
219-A001	350	KGAL	WATERING	\$20.00	\$7,000.00
220-A001	1	ACRE	INSECT PEST CONTROL		
907-230-A044	605	EACH	SHRUB PLANTING, PARSONS JUNIPER		
907-230-B040	10	EACH	TREE PLANTING, SAVANNAH HOLLY		
907-230-B087	24	EACH	TREE PLANTING, CRAPE MYRTLE 'SIOUX'		
907-230-D001	2,400	SF	BED PREPARATION		
232-A003	1	K	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 10 G		

BID SCHEDULE					
PAY ITEM NO.	PLAN QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM TOTAL
234-A001	500	LF	TEMPORARY SILT FENCE		
907-237-A002	200	LF	WATTLES, 12"		
907-246-A001	200	LF	SANDBAGS		
			ALTERNATE GROUP AA NUMBER 1		
907-304-G001	850	CY	SIZE 825B CRUSHED STONE BASE, AEA		
			ALTERNATE GROUP AA NUMBER 2		
907-304-G003	850	CY	3/4" AND DOWN CRUSHED STONE BASE, AEA		
			ALTERNATE GROUP AA NUMBER 3		
907-304-H004	850	CY	SIZE 610 CRUSHED STONE BASE, AEA		
907-403-A006	515	TON	HOT MIX ASPHALT, MT, 12.5-MM MIXTURE		
907-403-A007	610	TON	HOT MIX ASPHALT, MT, 19-MM MIXTURE		
907-403-A010	550	TON	HOT MIX ASPHALT, MT, 9.5-MM MIXTURE		
907-403-B004	1,100	TON	HOT MIX ASPHALT, MT, 12.5-MM MIXTURE, LEVELING		
907-406-C001	1,025	SY	COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS		
907-407-A001	500	GAL	ASPHALT FOR TACK COAT		
907-601-B003	57	CY	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES		
907-601-B004	1	CY	CLASS "C" STRUCTURAL CONCRETE, MINOR STRUCTURES		
602-A001	4,680	LBS	REINFORCING STEEL		
603-A039	10	LF	14" STEEL PIPE, WALL THICKNESS 0.375"		
603-B002	20	LF	4" CAST IRON PIPE, CLASS I		
603-CA088	8	LF	18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS		
603-CA089	14	LF	24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS		
603-CA129	12	LF	15" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS		
603-CE039	1,418	LF	22"x13" CONCRETE ARCH PIPE, CLASS A III, FLEXIBLE TYPE GASKETS		
603-CE041	193	LF	29"x18" CONCRETE ARCH PIPE, CLASS A III, FLEXIBLE TYPE GASKETS		
603-CF002	1	EACH	29"x18" CONCRETE ARCH PIPE END SECTION		
604-A001	1,343	LBS	CASTINGS		
604-B001	340	LBS	GRATINGS		
907-604-PP005	56	LF	TRENCH DRAIN, PER PLANS		
608-A001	840	SY	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT		
907-608-E002	1,625	SF	ASPHALT PAVEMENT TEXTURING		
609-B001	294	LF	CONCRETE CURB, HEADER		
609-D002	80	LF	COMBINATION CONCRETE CURB AND GUTTER, TYPE 2		

BID SCHEDULE					
PAY ITEM NO.	PLAN QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM TOTAL
609-D008	3,225	LF	COMBINATION CONCRETE CURB AND GUTTER, TYPE 3A		
613-D005	5	EACH	ADJUSTMENT OF MANHOLES		
614-B002	703	SY	CONCRETE DRIVEWAY, WITH REINFORCEMENT, 6-INCH THICKNESS		
907-616-C003	82	SY	COLORED AND IMPRINTED CONCRETE MEDIAN AND/OR ISLAND PAVEMENT, 10-INCH THICKNESS		
907-618-A001	1	LS	MAINTENANCE OF TRAFFIC	XXXX	
907-618-B001	1	SF	ADDITIONAL CONSTRUCTION SIGNS	\$10.00	\$10.00
620-A001	1	LS	MOBILIZATION	XXXX	
630-A001	144	SF	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS		
630-A002	25	SF	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS		
630-C004	335	LF	STEEL U-SECTION POSTS, 3.0 TO 3.5 LB/FT		
653-B001	32	SF	STREET NAME SIGN, ENCAPSULATED LENS		
907-699-A002	1	LS	ROADWAY CONSTRUCTION STAKES	XXXX	
815-B001	40	SY	GROUTED RIPRAP		
815-E001	40	SY	GEOTEXTILE UNDER GROUTED RIPRAP, TYPE V, NON-WOVEN		
907-626-D004	1,390	LF	6" THERMOPLASTIC TRAFFIC STRIPE, SKIP YELLOW		
907-626-E003	2,741	LF	6" THERMOPLASTIC TRAFFIC STRIPE, CONTINUOUS YELLOW		
907-626-G004	278	LF	THERMOPLASTIC DETAIL STRIPE, WHITE		
907-626-G005	375	LF	THERMOPLASTIC DETAIL STRIPE, YELLOW		
907-626-H004	598	LF	THERMOPLASTIC LEGEND, WHITE		
907-626-H005	372	SF	THERMOPLASTIC LEGEND, WHITE		
627-K001	8	EACH	RED-CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS		
627-L001	27	EACH	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS		
907-265-A008	220	LF	6" C900 PVC WATER MAIN		
907-265-B006	220	LF	6" DUCTILE IRON WATER MAIN		
907-265-A007	60	LF	8" C900 PVC WATERLINE		
907-265-B007	60	LF	8" DUCTILE IRON WATERLINE		
907-265-C002	1,850	LBS	DUCTILE IRON FITTINGS		
907-265-F001	3	EACH	FIRE HYDRANT ASSEMBLY		
907-265-D017	1	EACH	8" INSERTION VALVE		
907-265-D027	3	EACH	6" INSERTION VALVE		
907-265-K007	2	EACH	6" LINE STOP		
907-265-M005	10	EACH	SHORT SERVICE CONNECTION		
907-265-M006	15	EACH	LONG SERVICE CONNECTION		

BID SCHEDULE					
PAY ITEM NO.	PLAN QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM TOTAL
907-639-A025	1	EACH	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 30' & 55' ARMS		
907-639-A028	1	EACH	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 30' ARM		
907-639-A034	2	EACH	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' SHAFT		
907-639-C002	9	CY	POLE FOUNDATIONS, 36" DIAMETER		
907-639-C003	2	CY	POLE FOUNDATIONS, 24" DIAMETER		
640-A016	4	EACH	TRAFFIC SIGNAL HEADS, TYPE 1 LED		
640-A019	1	EACH	TRAFFIC SIGNAL HEADS, TYPE 5 LED		
640-A034	4	EACH	TRAFFIC SIGNAL HEADS, TYPE 6 LED COUNTDOWN		
640-A022	1	EACH	TRAFFIC SIGNAL HEADS, TYPE 7 LED		
907-642-A003	1	EACH	SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 8A		
644-A001	3	EACH	OPTICAL DETECTOR		
644-B001	360	LF	OPTICAL DETECTOR CABLE		
644-C002	1	EACH	PHASE SELECTOR, 4 CHANNEL		
646-A001	1	LS	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT	XXXX	
647-A001	1	EACH	PULLBOX, TYPE 1		
647-A002	1	EACH	PULLBOX, TYPE 3		
647-A005	2	EACH	PULLBOX, TYPE 2		
907-649-A004	3	EACH	VIDEO DETECTION SYSTEM, 1 SENSOR, TYPE 2		
653-A001	15	SF	TRAFFIC SIGN, ENCAPSULATED LENS		
666-B015	520	LF	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 5 CONDUCTOR		
666-B054	240	LF	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 8 CONDUCTOR		
666-B040	30	LF	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, THHN, AWG #8, 3 CONDUCTOR		
666-B049	215	LF	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, THHN, AWG #10, 2 CONDUCTOR		
666-C017	115	LF	ELECTRIC CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG 14, 8 CONDUCTOR		
668-A018	100	LF	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"		
668-A020	130	LF	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"		
668-B024	150	LF	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLLED PIPE, 2"		
TOTAL BID					

SECTION 905 PROPOSAL (Bid Sheet No. 7-7)

PROJECT NUMBER: HPP-7194-00(003) LPA / 105845-801000

COUNTY: FORREST

PROJECT DESCRIPTION: FOURTH STREET ROADWAY IMPROVEMENTS PROJECT – PHASE II

COMPLETE ITEM NOS. 1, 2 AND/OR 3 AS APPROPRIATE, SEE NOTICE TO BIDDERS NO. 5266 AND SUPPLEMENT.

1. I/We agree that no less than _____ percent shall be expended with small business concerns owned and controlled by socially and economically disadvantaged individuals (DBE and WBE).
2. Classification of Bidder: Small Business (DBE) ☐ Small Business (WBE) ☐
3. A joint venture with a Small Business (DBE/WBE): YES ☐

*** SIGNATURE STATEMENT***

BIDDER ACKNOWLEDGES THAT HE/SHE HAS CHECKED ALL ITEMS IN THIS PROPOSAL FOR ACCURACY AND CERTIFY THAT THE FIGURES SHOWN THERIN CONSTITUTE THEIR OFFICIAL BID.

BIDDER'S SIGNATURE

**Certification with regard to the Performance of Previous
Contracts or Subcontracts subject to the Equal Opportunity
Clause and the filing of Required Reports**

The Bidder _____, proposed Subcontractor _____, hereby certifies that he has _____, has not _____, participated in a previous contract or subcontract subject to the Equal Opportunity Clause, as required by Executive Orders 10925, 11114, or 11246, and that he has _____, has not _____, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

(COMPANY)

BY _____

(TITLE)

DATE: _____

NOTE: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7 (b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the Equal Opportunity Clause. Contracts and Subcontracts which are exempt from the Equal Opportunity Clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime Contractors and Subcontractors who have participated in a previous contract or subcontract subject to the Executive orders and have not filed the required reports should note that 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such Contractors submit a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U. S. Department of Labor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION**NON-COLLUSION AFFIDAVIT**
(Execute in duplicate)

State of Mississippi

County of _____

I, _____,
(Name of person signing certification)individually, and in my capacity as _____ of
(Title)_____ do hereby certify under
(Name of Firm, Partnership, or Corporation)

penalty of perjury under the laws of the United States and the State of Mississippi that _____

_____, Bidder
(Name of Firm, Partnership, or Corporation)

on Project No. _____

in _____ County(ies), Mississippi, has not either

directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.

Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds:

- a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in (b) above; and
- d) Have not within a three-year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here "_____" if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

The bidder further certifies that the certification requirements contained in Section XI of Form FHWA 1273, will be or have been included in all subcontracts, material supply agreements, purchase orders, etc. except those procurement contracts for goods or services that are expected to be less than the Federal procurement small purchase threshold fixed at 10 U.S.C. 2304(g) and 41 U.S.C. 253(g) (currently \$25,000) which are excluded from the certification requirements.

The bidder further certifies, to the best of his or her knowledge and belief, that:

- 1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- 2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this contract, Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions will be completed and submitted.

The certification contained in (1) and (2) above is a material representation of fact upon which reliance is placed and a prerequisite imposed by Section 1352, Title 31, U.S. Code prior to entering into this contract. Failure to comply shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000. The bidder shall include the language of the certification in all subcontracts exceeding \$100,000 and all subcontractors shall certify and disclose accordingly.

All of the foregoing and attachments (when indicated) is true and correct.

Executed on _____

Signature

(11/23/92F)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION**NON-COLLUSION AFFIDAVIT**
(Execute in duplicate)

State of Mississippi

County of _____

I, _____,
(Name of person signing certification)individually, and in my capacity as _____ of
(Title)_____ do hereby certify under
(Name of Firm, Partnership, or Corporation)

penalty of perjury under the laws of the United States and the State of Mississippi that _____

_____, Bidder
(Name of Firm, Partnership, or Corporation)

on Project No. _____

in _____ County(ies), Mississippi, has not either

directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.

Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds:

- a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in (b) above; and
- d) Have not within a three-year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here "_____" if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

The bidder further certifies that the certification requirements contained in Section XI of Form FHWA 1273, will be or have been included in all subcontracts, material supply agreements, purchase orders, etc. except those procurement contracts for goods or services that are expected to be less than the Federal procurement small purchase threshold fixed at 10 U.S.C. 2304(g) and 41 U.S.C. 253(g) (currently \$25,000) which are excluded from the certification requirements.

The bidder further certifies, to the best of his or her knowledge and belief, that:

- 1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- 2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this contract, Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions will be completed and submitted.

The certification contained in (1) and (2) above is a material representation of fact upon which reliance is placed and a prerequisite imposed by Section 1352, Title 31, U.S. Code prior to entering into this contract. Failure to comply shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000. The bidder shall include the language of the certification in all subcontracts exceeding \$100,000 and all subcontractors shall certify and disclose accordingly.

All of the foregoing and attachments (when indicated) is true and correct.

Executed on _____

Signature

(11/23/92F)

LOCAL PUBLIC AGENCY (LPA)

SECTION 902

CONTRACT FOR _____
LOCATED IN THE COUNTY OF _____
STATE OF MISSISSIPPI,

This contract entered into by and between the Local Public Agency _____
_____ (hereinafter "LPA") on one hand, and the undersigned contractor, on the other
witnesseth;

That, in consideration of the payment by the LPA of the prices set out in the proposal hereto attached, to the undersigned contractor, such payment to be made in the manner and at the time of times specified in the specifications and the special provisions, if any, the undersigned contractor hereby agrees to accept the prices stated in the proposal in full compensation for the furnishing of all materials and equipment and the executing of all the work contemplated in this contract.

It is understood and agreed that the advertising according to law, the Advertisement, the instructions to bidders, the proposal for the contract, the specifications, the revisions of the specifications, the special provisions, and also the plans for the work herein contemplated, said plans showing more particularly the details of the work to be done, shall be held to be, and are hereby made a part of this contract by specific reference thereto and with like effect as if each and all of said instruments had been set out fully herein in words and figures.

It is further agreed that for the same consideration the undersigned contractor shall be responsible for all loss or damage arising out of the nature of the work aforesaid; or from the action of the elements and unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work, exceptions being those specifically set out in the contract; and for faithfully completing the whole work in good and workmanlike manner according to the approved Plans, Specifications, Special Provisions, Notice(s) to Bidders and requirements of the LPA.

It is further agreed that the work shall be done under the direct supervision and to the complete satisfaction of the LPA or their authorized representatives, and when Federal Funds are involved subject to inspection at all times and approval by the Mississippi Department of Transportation or Federal Highway Administration, or its agents as the case may be, or the agents of any other Agency whose funds are involved in accordance with those Acts of the Legislature of the State of Mississippi approved by the Governor and such rules and regulations issued pursuant thereto by the Mississippi Transportation Commission and the authorized Federal Agencies.

The Contractor agrees that all labor as outlined in the Special Provisions may be secured from list furnished by

Manager, WIN Job Center nearest the project

It is agreed and understood that each and every provision of law and clause required by law to be inserted in this contract shall be deemed to be inserted herein and this contract shall be read and enforced as though it were included herein, and, if through mere mistake or otherwise any such provision is not inserted, then upon the application of either party hereto, the contract shall forthwith be physically amended to make such insertion.

The Contractor agrees that he has read each and every clause of this Contract, and fully understands the meaning of same and that he will comply with all the terms, covenants and agreements therein set forth.

Witness our signatures this the ____ day of _____, 20____.

Contractor(s)

By _____

Title _____

Signed and sealed in the presence of:
(Names and address of witnesses)

By _____

LPA Official

LPA Clerk

Award authorized by the LPA in session on the ____ day of _____, 20____, as recorded _____

LOCAL PUBLIC AGENCY (LPA)

S E C T I O N 9 0 3
PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR _____

LOCATED IN THE COUNTY OF _____

STATE OF MISSISSIPPI,

Know all men by these presents: that we, _____
(Contractor)

(hereinafter "Principal"), a _____

residing at _____ in the State of _____

and _____
(Surety)

residing at _____ in the State of _____

authorized to do business in the State of Mississippi, under the laws thereof, as surety, are held and firmly bound

unto the Local Public Agency _____, (hereinafter

"LPA"), in the sum of _____

(\$ _____) Dollars, lawful money of the United States of America, to be

paid to it for which payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or

assigns jointly and severally by these presents.

The conditions of this bond are such, that whereas the said Principal, has (have) entered into a contract with the

LPA, bearing the date of _____ day of _____ A.D. _____ hereto annexed, for the

construction of certain project(s) in the State of Mississippi as mentioned in said contract in accordance with the

Contract Documents therefor, on file in the offices of the LPA.

Now therefore, if the above bounden Principal in all things shall stand to and abide by and well and truly observe, do keep and perform all and singular the terms, covenants, conditions, guarantees and agreements in said contract, contained on his (their) part to be observed, done, kept and performed and each of them, at the time and in the manner and form and furnish all of the material and equipment specified in said contract in strict accordance with the terms of said contract which said plans, specifications and special provisions are included in and form a part of said contract and shall maintain the said work contemplated until its final completion and acceptance as specified in Subsection 109.11 of the approved specifications, and save harmless said LPA from any loss or damage arising out of or occasioned by the negligence, wrongful or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of said principal (s), his (their) agents, servants, or employees in the performance of said work or in any manner connected therewith, and shall be liable and responsible in a civil action instituted by the LPA at the instance of any officer of the LPA authorized in such cases, for double any amount in money or property, the LPA may lose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any, of the

LOCAL PUBLIC AGENCY (LPA)

Contractor(s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and all persons furnishing labor, material, equipment or supplies therefor, including premiums incurred, for Surety Bonds, Liability Insurance, and Workmen's Compensation Insurance; with the additional obligation that such Contractor shall promptly make payment of all taxes, licenses, assessments, contributions, damages, any liquidated damages which may arise prior to any termination of said principal's contract, any liquidated damages which may arise after termination of the said principal's contract due to default on the part of said principal, penalties and interest thereon, when and as the same may be due this state, or any county, municipality, board, department, commission or political subdivision: in the course of the performance of said work and in accordance with Sections 31-5-51 et seq. Mississippi Code of 1972, and other State statutes applicable thereto, and shall carry out to the letter and to the satisfaction of the LPA Official, all, each and every one of the stipulations, obligations, conditions, covenants and agreements and terms of said contract in accordance with the terms thereof and all of the expense and cost and attorney's fee that may be incurred in the enforcement of the performance of said contract, or in the enforcement of the conditions and obligations of this bond, then this obligation shall be null and void, otherwise to be and remain in full force and virtue.

_____	_____
(Contractors) Principal	Surety
By _____	By _____
	(Signature) Attorney in Fact
	Address: _____

Title _____	_____
(Contractor's Seal)	(Printed) Mississippi Agent

	(Signature) Mississippi Agent
	Address: _____

	(Surety Seal)

	Mississippi Insurance ID Number

**MDOT Certification Form for Sub-Awards
Executive Compensation Reporting for Transparency Act**

On behalf of the entity named below, I certify that I have personally read and reviewed the executive compensation reporting requirements of the Federal Funding Accountability and Transparency Act of 2006, as amended by Section 6202 of the Government Funding Transparency Act of 2008 [FFATA], and certify under penalty of perjury pursuant to Section 97-9-61, Mississippi Code of 1972, as amended, the following:

Local Entity Name: City of Hattiesburg, Mississippi

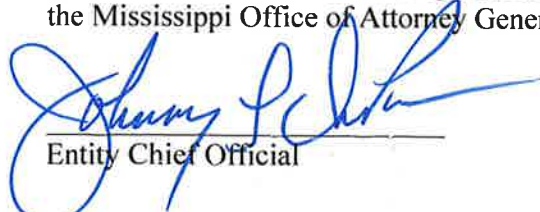
Data Universal Numbering System (DUNS) Number : 079448130 (required)

☒ The local entity listed below receiving federal funds from MDOT **is not** required to report executive compensation under the Federal Funding Accountability and Transparency Act of 2006, as amended by Section 6202 of the Government Funding Transparency Act of 2008 [FFATA].

☐ The local entity listed below receiving federal funds from MDOT **is required** to report executive compensation under the Federal Funding Accountability and Transparency Act of 2006, as amended by Section 6202 of the Government Funding Transparency Act of 2008 [FFATA], listed below are the names and total annual compensation of the five most highly compensated officers of the entity:

	NAME	TOTAL ANNUAL COMPENSATION
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

The entity acknowledges that a false statement in this certification may be subject to criminal prosecution, including under 18 U.S.C. §§ 1001 (false statements) and 1621 (perjury), and 28 U.S.C. §1746 (declarations under penalty of perjury). The entity also acknowledges that said projects, including certifications provided in connection with such projects and grants are subject to review by the Mississippi Department of Transportation, the Mississippi State Auditor, and the Mississippi Office of Attorney General.



Entity Chief Official

11-8-16
Date

**Guidance for Federal Spending Transparency:
Subaward and Executive Compensation Data
Reporting Requirements for FFATA Implementation**

Summary

1. Prime awardees and sub awardees of Federal financial assistance must report executive compensation data if they meet the statutory reporting thresholds. For the Federal-aid Highway Program, this means that the State, and any subawardees of Federal-aid funds through the State, is subject to the executive compensation reporting requirement.

- names and total compensation of the five most highly compensated officers of the entity if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1).

Background

Beginning October 1, 2010, guidance directs compliance with the Transparency Act to report prime and first-tier subaward data. Federal agencies and prime awardees will report to ensure disclosure of Federal contract and grant subaward and executive compensation data.

The Transparency Act requires information disclosure concerning entities receiving Federal financial assistance through Federal awards such as Federal contracts, sub-contracts, grants, and sub-grants.

Specifically, the Transparency Act's section 2(b)(1) requires the Office of Management and Budget ("OMB") to ensure the establishment of a publicly available website that contains the following information about each Federal award:

- name of the entity receiving the award;
- amount of the award;
- information on the award including transaction type, funding agency, the North American Industry Classification System code or Catalog of Federal Domestic Assistance number, program source, award title descriptive of the purpose of each funding action;

- location of the entity receiving the award and primary location of performance under the award, including city, State, congressional district, and country;
- unique identifier of the entity receiving the award and the parent entity of the recipient, should the entity be owned by another entity; and
- names and total compensation of the five most highly compensated officers of the entity if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1).

LPA PROJECT

DISADVANTAGED BUSINESS ENTERPRISE LIST

PROJECT NUMBER :

NAME OF DBE FIRM:

☐ RACE CONSCIOUS ☐ RACE NEUTRAL

COUNTY:

CITY :

A	B	C
REFERENCE NUMBER OF ITEMS	PERCENT WORK SUBCONTRACTED , (SEE NOTE 4 & 5 BELOW)	VALUE OF ITEM (SUBCONTRACTED , MANUFACTURED OR SUPPLIED)
TOTAL		
PER CENT OF TOTAL BID		

*** I ACKNOWLEDGE AND COMMIT TO THE ITEMS AND PRICES STATED ABOVE. ***

SIGNATURE OF DBE

SIGNATURE OF PRIME

DATE APPROVED: _____

Prime Contractor Firm Name

APPROVED BY: _____

LPA Project Director Name (Printed)

Submitted By Name

LPA Project Director (Signature)

TITLE

I AGREE TO SUBCONTRACT OR PURCHASE MATERIAL FROM THE DBE FIRM LISTED ABOVE AND I MAKE THIS COMMITMENT WITH THE UNDERSTANDING THAT IF I FAIL FOR GOOD REASON TO FULFILL THIS COMMITMENT I HAVE LISTED I WILL FULFILL THE TERMS OF MY CONTRACT AS LONG AS I REACH OR EXCEED THE CONTRACT GOAL OF _____ %.

INSTRUCTIONS :

1. SUBMIT THIS FORM TO THE **LPA Project Director** **FOR THEIR SIGNATURE** NO LATER THAN THE THIRD (3) CALENDER DAY AFTER THE OPENING OF THE BIDS.
2. 60 % CREDIT IS ALLOWED TOWARD THE DBE GOAL FOR SUPPLIERS.
3. THE ACTUAL SUBCONTRACT AGREEMENT MUST EQUAL OR EXCEED THE DOLLAR AMOUNT SHOWN IN COLUMN " C " .
4. IF THE DBE FIRM PERFORMS " ALL OF THE WORK " PERTAINING TO A SUBCONTRACTED ITEM ENTER 100 % IN COLUMN " B " .
5. IF THE DBE FIRM PERFORMS " A PORTION OF THE WORK " PERTAINING TO A SUBCONTRACTED ITEM THE PERCENTAGE IS CALCULATED BASED ON THE TOTAL VALUE OF THE ITEM AND ENTERED IN COLUMN " B " . A BREAKDOWN OF THE COST MUST ACCOMPANY THIS SITUATION.

LPA PROJECT

DISADVANTAGED BUSINESS ENTERPRISE LIST

PROJECT NUMBER :

NAME OF DBE FIRM:

☐ RACE CONSCIOUS ☐ RACE NEUTRAL

COUNTY:

CITY :

A	B	C
REFERENCE NUMBER OF ITEMS	PERCENT WORK SUBCONTRACTED , (SEE NOTE 4 & 5 BELOW)	VALUE OF ITEM (SUBCONTRACTED , MANUFACTURED OR SUPPLIED)
TOTAL		
PER CENT OF TOTAL BID		

*** I ACKNOWLEDGE AND COMMIT TO THE ITEMS AND PRICES STATED ABOVE. ***

SIGNATURE OF DBE

SIGNATURE OF PRIME

DATE APPROVED: _____

Prime Contractor Firm Name

APPROVED BY: _____

LPA Project Director Name (Printed)

Submitted By Name

LPA Project Director (Signature)

TITLE

I AGREE TO SUBCONTRACT OR PURCHASE MATERIAL FROM THE DBE FIRM LISTED ABOVE AND I MAKE THIS COMMITMENT WITH THE UNDERSTANDING THAT IF I FAIL FOR GOOD REASON TO FULFILL THIS COMMITMENT I HAVE LISTED I WILL FULFILL THE TERMS OF MY CONTRACT AS LONG AS I REACH OR EXCEED THE CONTRACT GOAL OF _____ %.

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LPA PROJECT

DISADVANTAGED BUSINESS ENTERPRISE LIST

PROJECT NUMBER :

NAME OF DBE FIRM:

☐ RACE CONSCIOUS ☐ RACE NEUTRAL

COUNTY:

CITY :

A	B	C
REFERENCE NUMBER OF ITEMS	PERCENT WORK SUBCONTRACTED , (SEE NOTE 4 & 5 BELOW)	VALUE OF ITEM (SUBCONTRACTED , MANUFACTURED OR SUPPLIED)
TOTAL		
PER CENT OF TOTAL BID		

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SIGNATURE OF DBE

SIGNATURE OF PRIME

DATE APPROVED: _____

Prime Contractor Firm Name

APPROVED BY: _____

LPA Project Director Name (Printed)

Submitted By Name

LPA Project Director (Signature)

TITLE

I AGREE TO SUBCONTRACT OR PURCHASE MATERIAL FROM THE DBE FIRM LISTED ABOVE AND I MAKE THIS COMMITMENT WITH THE UNDERSTANDING THAT IF I FAIL FOR GOOD REASON TO FULFILL THIS COMMITMENT I HAVE LISTED I WILL FULFILL THE TERMS OF MY CONTRACT AS LONG AS I REACH OR EXCEED THE CONTRACT GOAL OF _____ %.

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LPA PROJECT

LIST OF FIRMS SUBMITTING QUOTES

I/we received quotes from the following firms on Project No: _____
County: _____

Disadvantaged Business Enterprise (DBE) Regulations as stated in 49 CFR 26.11 require the Mississippi Department of Transportation (MDOT) to create and maintain a comprehensive list of all firms quoting/bidding subcontracts on prime contracts and quoting/bidding subcontracts on federally-funded transportation projects. For every firm, we require the following information:

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

SUBMITTED BY (Signature)

FIRM NAME

Submit this form to the **LPA as a part of your bid package**. If this form is not **signed** and included as part of the bid packet, your bid will be deemed irregular. For further information about this form, call Mississippi DOT's Office of Civil Rights at (601) 359-7466; FAX (601) 576-4504.

Please make copies of this form when needed and also add those copies to the bid package.

LPA PROJECT

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Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

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Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

Firm Name: _____
Contact Name/Title: _____
Firm Mailing Address _____
Phone Number: _____
_____ DBE Firm _____ Non-DBE Firm

SUBMITTED BY (Signature)

FIRM NAME

Submit this form to the **LPA as a part of your bid package**. If this form is not **signed** and included as part of the bid packet, your bid will be deemed irregular. For further information about this form, call Mississippi DOT's Office of Civil Rights at (601) 359-7466; FAX (601) 576-4504.

Please make copies of this form when needed and also add those copies to the bid package.

FOURTH STREET ROADWAY IMPROVEMENTS PROJECT-PHASE II

Federal Aid Project Number HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
HATTIESBURG, MISSISSIPPI
FORREST COUNTY

MAYOR

JOHNNY L. DUPREE, PH.D

ENGINEERING DIRECTOR

LAMAR RUTLAND, P.E.

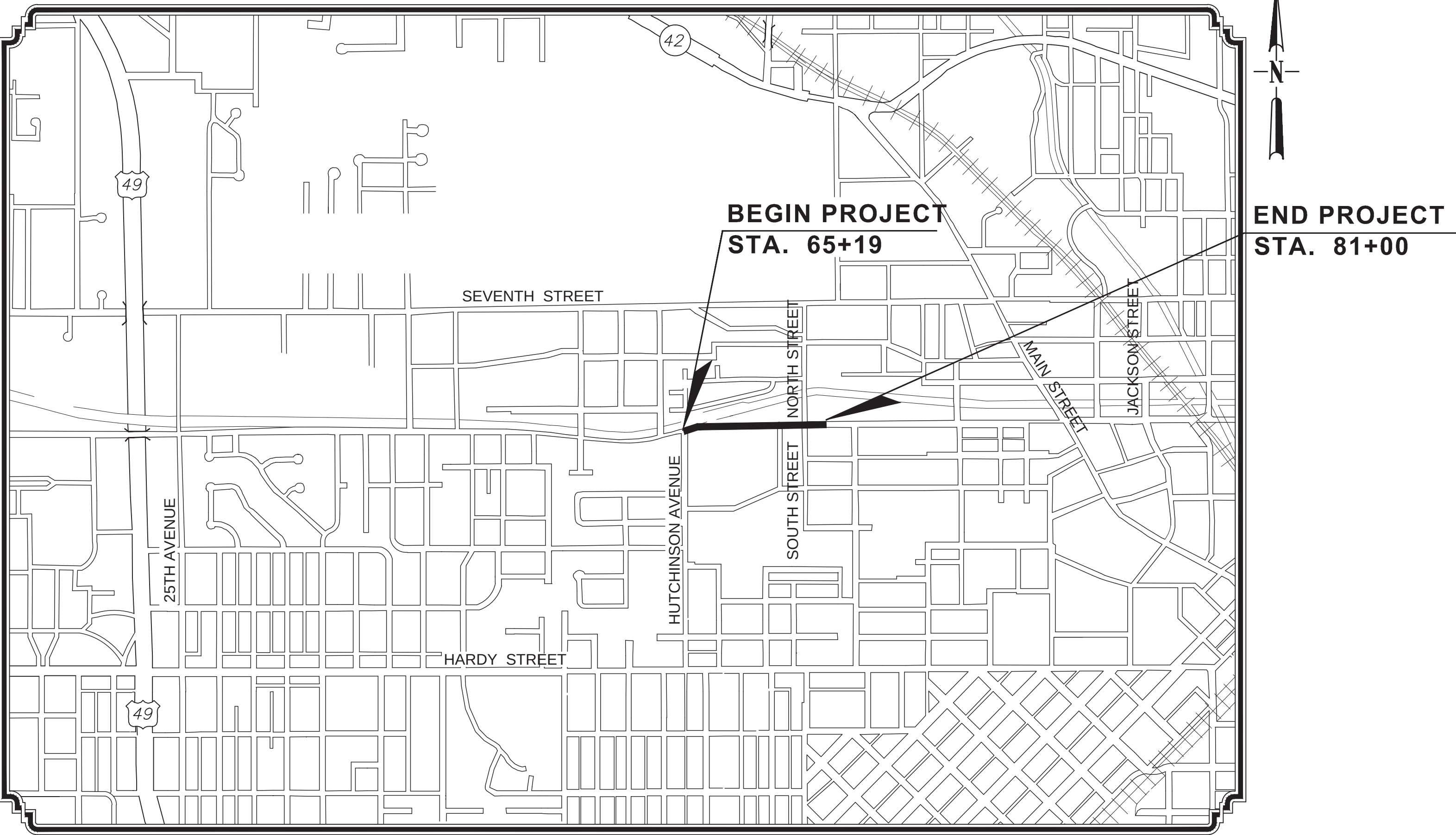
COUNCIL MEMBERS

KIM BRADLEY	WARD 1
DEBORAH D. DELGADO	WARD 2
CARTER CARROLL	WARD 3
MARY DRYDEN	WARD 4
HENRY E. NAYLOR	WARD 5

UTILITIES

CITY OF HATTIESBURG
MISSISSIPPI POWER
AT&T
WILLMUT GAS
COMCAST CABLE

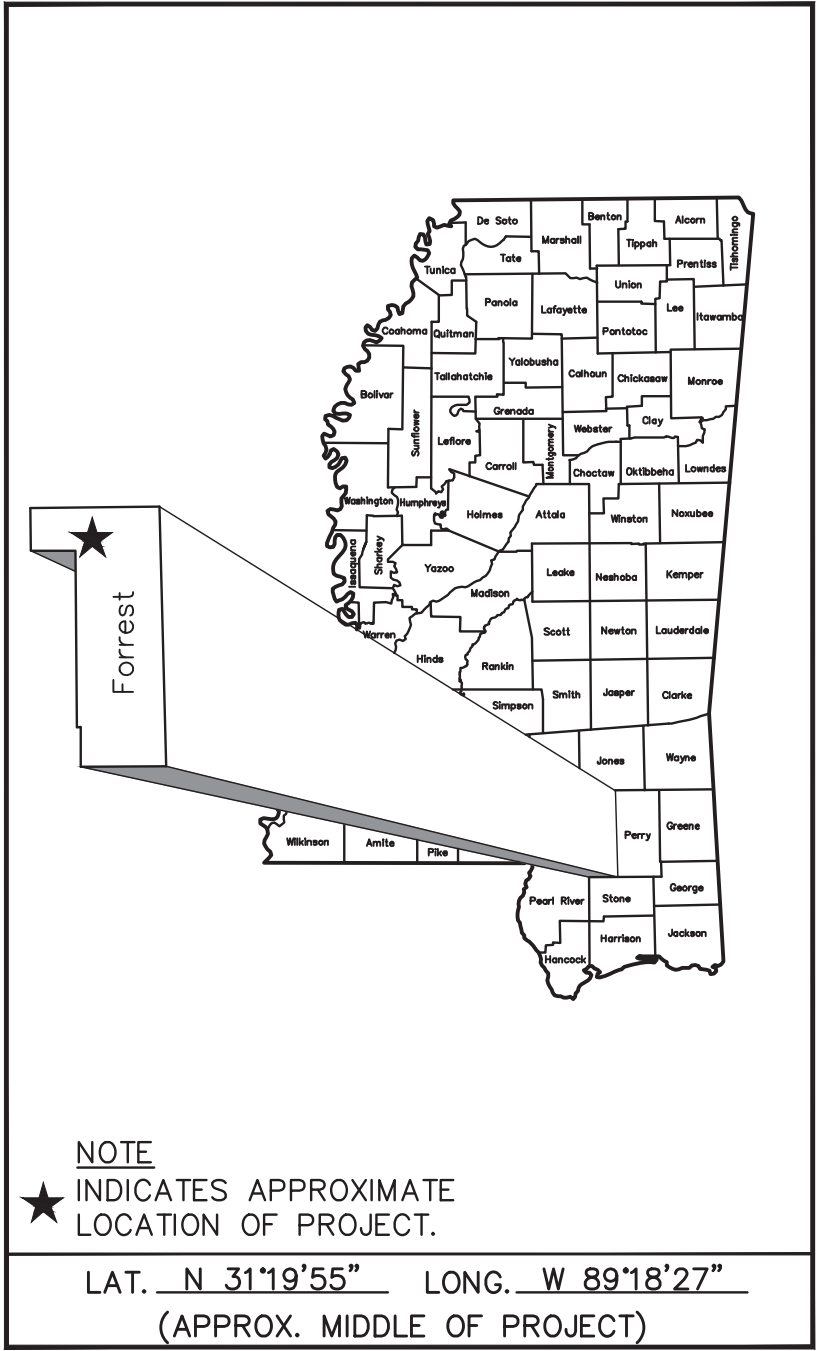
PLAN		1 IN. = 20 FT.
PROFILE	HOR.	1 IN. = 20 FT.
	VERT.	1 IN. = 5 FT.
LAYOUT		1 IN. = 300 FT.



VICINITY MAP
PROJECT LOCATION

LENGTH DATA

LENGTH OF ROADWAY	1581 FT.	0.299 MI.
LENGTH OF BRIDGES	0.00 FT.	0.000 MI.
LENGTH OF PROJECT (NET)	1581 FT.	0.299 MI.
LENGTH OF EXCEPTIONS	0.00 FT.	0.000 MI.
LENGTH OF PROJECT (GROSS)	1581 FT.	0.299 MI.



DESIGN CONTROL	
45 MPH	= V (SPEED DESIGN)
ADT (2010) = 5400	: ADT (2020) = 7020
DHV = 1620	: D = 60 % T = 5 %

PERMITS ACQUIRED BY MDOT		
WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):		
	WATERS	WETLANDS
NATIONWIDE #14	☒	☒
NATIONWIDE (OTHER)*	☒	☒
GENERAL*	☒	☒
INDIVIDUAL (404)*	☒	☒
* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR		
STORMWATER PERMIT		☒
Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES +)(NTB 3581)	
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES +)(NTB 3067)	
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)	
APPROVED BY:		DATE:

PREPARED BY :
NEEL-SCHAFER
Solutions you can build upon



GEOFFREY CROSBY, P.E.
MISSISSIPPI LICENSE NO. 19984

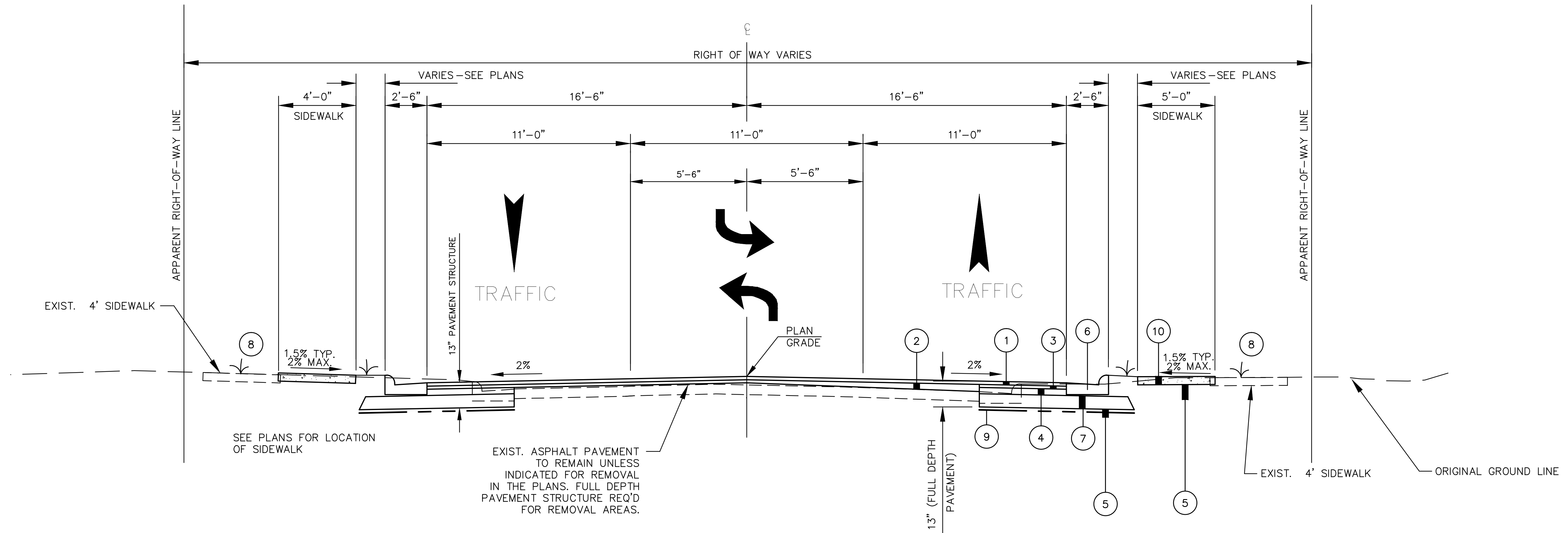
DESCRIPTION OF SHEET	WKG. NO.	SHT. NO.	DESCRIPTION OF SHEET	WKG. NO.	SHT. NO.
TITLE SHEET (1)		1			
DETAILED INDEX & GENERAL NOTES (2)			PAVEMENT MARKING AND SIGNING DETAILS (2)		
DETAILED INDEX	DI-1	2	PAVEMENT MARKING AND SIGNING - STA. 65+19 TO STA. 76+00	PM-1	42
GENERAL NOTES	GN-1	3	PAVEMENT MARKING AND SIGNING - STA. 76+00 TO STA. 82+00	PM-2	43
TYPICAL SECTION SHEETS (3)					
ROADWAY TYPICAL SECTIONS	TS-1	4	LANDSCAPING PLAN AND DETAILS (2)		
ROADWAY TYPICAL SECTIONS	TS-2	5	LANDSCAPING PLAN SHEET 1	LS-1	44
TYPICAL SECTIONS	TS-3	6	LANDSCAPE PLAN SHEET 2 VEGETATION SCHEDULE AND DETAILS	LS-2	45
QUANTITY SHEETS (9)			TRAFFIC SIGNAL DESIGN SHEETS AND DETAILS (7)		
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901 THRU 904

GENERAL NOTES

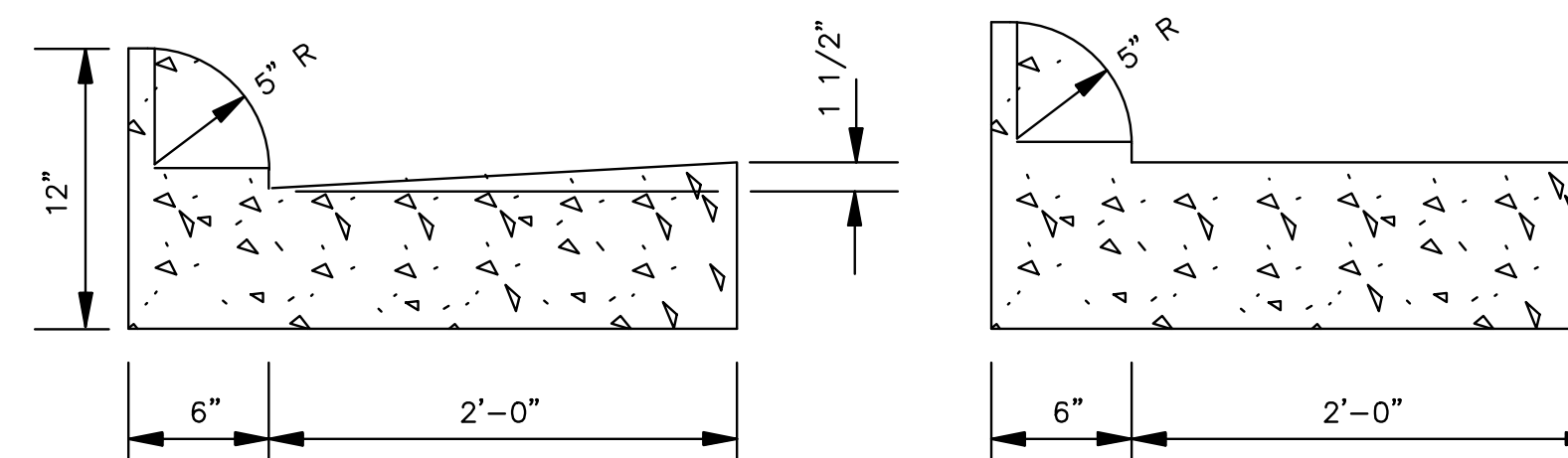
1. THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED, SHALL BE THE STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE INDICATED OR AMENDED IN THE SPECIAL PROVISIONS, PROPOSAL AND CONTRACT DOCUMENTS.
2. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE 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.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING GRADES AND MAKING ADJUSTMENTS AS NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
5. WORK ON STRUCTURES 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. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE 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 PRICE BID FOR CONTRACT ITEMS.
6. REMOVAL OF RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS IS NOT CONSIDERED A SEPARATE PAY ITEM.
7. REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM.
8. 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(COST ABSORBED).
9. PRIOR TO EXCAVATION AND EMBANKMENT CONSTRUCTION, ALL TOPSOIL SHALL BE STRIPPED AND STOCKPILED. AFTER COMPLETION OF EXCAVATION AND EMBANKMENT CONSTRUCTION, ALL SLOPES SHALL BE UNIFORMLY PLATED WITH THE STOCKPILED TOPSOIL. THE COST OF STRIPPING, STOCKPILING, PLACING AND SPREADING OF TOPSOIL IS TO BE INCLUDED IN OTHER ITEMS OF WORK.
10. ALL SIZES OF FLARED END SECTIONS MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE JOINTS.
11. TOE WALLS ARE REQUIRED AT ALL UPSTREAM AND DOWNSTREAM FLARED END SECTIONS.
12. ALL STORM DRAINAGE STRUCTURES SHALL BE CAST-IN-PLACE.
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 IS TO REMOVE AND RESET ANY SIGNS AND MAILBOXES WHICH CONFLICT WITH CONSTRUCTION (NOT A SEPARATE PAY ITEM).
15. THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLAN, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
16. ALL POST LENGTHS FOR SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.
17. PRIOR TO POURING PAVED ISLANDS, THE PROJECT ENGINEER SHOULD BE NOTIFIED SO THAT SIGNS REQUIRED IN ISLANDS CAN BE LOCATED.
18. SOME WORK MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS BEYOND THE B.O.P. AND E.O.P. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS SHOWN ON THE PLANS.
19. ALL SIGNS, SIGNALS, PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
20. ALL RAISED OBJECTS SHALL BE PLACED A MINIMUM OF 2 FEET BEHIND THE FACE OF CURB.
21. CONTRACTOR SHALL MAKE THE APPLICATION FOR POWER SERVICE, COORDINATING WITH CITY OFFICIALS, IN ADVANCE OF REQUIRING THE ELECTRICAL SERVICE.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
23. THE CONTRACTOR SHALL PROVIDE ACCESS (INGRESS AND EGRESS) TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY BUSINESSES AND HOMEOWNERS 48 HOURS IN ADVANCE OF ACCESS RESTRICTIONS.
24. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTOR'S TO FACILITATE TIE-INS TO OTHER CONTRACTOR'S WORK, WHERE FEASIBLE AND PRACTICABLE.
25. CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR RELOCATION OF EXISTING POWER, GAS, TELEPHONE, AND CABLE TV UTILITIES. CONTRACTOR SHALL PROVIDE ACCESS TO THE UTILITY COMPANIES FOR RELOCATION ACTIVITIES AS REQUIRED.
26. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE VERIFICATION, PROTECTION, AND RELOCATION OF BENCHMARKS DURING CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR RELOCATION OF BENCHMARKS.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTling ANY SIGNS THAT ARE IN DIRECT CONFLICT WITH CONSTRUCTION IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
28. REMOVAL OF EXISTING AND TEMPORARY TRAFFIC STRIPING, TRAFFIC CONTROL SIGNS AND BARRICADES SHALL BE ABSORBED UNDER PAY ITEM 618-A, MAINTENANCE OF TRAFFIC.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES IF ANY UTILITY POLES NEED TO BE SUPPORTED DURING CONSTRUCTION (COST ABSORBED).
30. THE CONTRACTOR SHALL REPAIR FENCES, RETAINING WALLS, GATES, SODDING, LANDSCAPING, ETC. DAMAGED DURING OVERALL CONSTRUCTION (COST ABSORBED).
31. CONTRACTOR SHALL COORDINATE WITH THE CITY OF HATTIESBURG ON RELOCATION OF EXISTING WATER METERS. CITY OF HATTIESBURG TO PROVIDE WATER METERS THAT NEED REPLACING OR DAMAGED DUE TO THE CONTRACTORS OPERATIONS. CONTRACTOR TO PAY COSTS ASSOCIATED WITH DAMAGE TO WATER METERS DUE TO HIS OPERATIONS.
32. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM RESPONSIBILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION.
33. ALL PIPE JOINTS ARE TO BE WRAPPED IN TYPE V GEOTEXTILE FABRIC, 24" WIDTH. ALL PICKUP HOLES ARE TO BE PLUGGED AND COVERED WITH TYPE V GEOTEXTILE FABRIC TO THE SATISFACTION OF THE ENGINEER (NOT A SEPARATE PAY ITEM).
34. CONTRACTOR SHALL PROVIDE ADA ACCESS DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
35. DAILY CLEANUP IS REQUIRED.

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: GENERAL NOTES.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC DATE: 06/2016					
					DRWN: GPC DATE: 06/2016					
					CHKD: DATE:					
					QA/QC: DATE:					
					FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		 NEEL-SCHAFFER <i>Solutions you can build upon</i>		GENERAL NOTES	
									WORKING NUMBER: GN-1	



TYPICAL SECTION - FOURTH STREET
HUTCHINSON AVENUE TO NORTH STREET
NOT TO SCALE

- ① 1.5" DEPTH - ASPHALT PAVEMENT, MT (9.5mm MIXTURE)
- ② 2.5" AND VARIABLE DEPTH LEVELING ASPHALT PAVEMENT, MT (12.5mm MIXTURE)(2.5" MAX. LIFT)
- ③ 2.5" DEPTH - ASPHALT PAVEMENT, MT (12.5mm MIXTURE)
- ④ 3" ASPHALT PAVEMENT, MT (19.0 mm MIXTURE)
- ⑤ BORROW MATERIAL (CLASS B7-6)
- ⑥ COMBINATION CURB AND GUTTER TYPE "3A"
- ⑦ 6" SIZE 825 CRUSHED STONE
- ⑧ INDICATES AREA TO BE TREATED AS PER VEGETATION SCHEDULE
- ⑨ GEOTEXTILE FABRIC, TYPE V, NON-WOVEN
- ⑩ 5" CONCRETE SIDEWALK-SEE TS-2 FOR JOINT DETAILS
- ⑪ GENERAL/SELECT BACKFILL

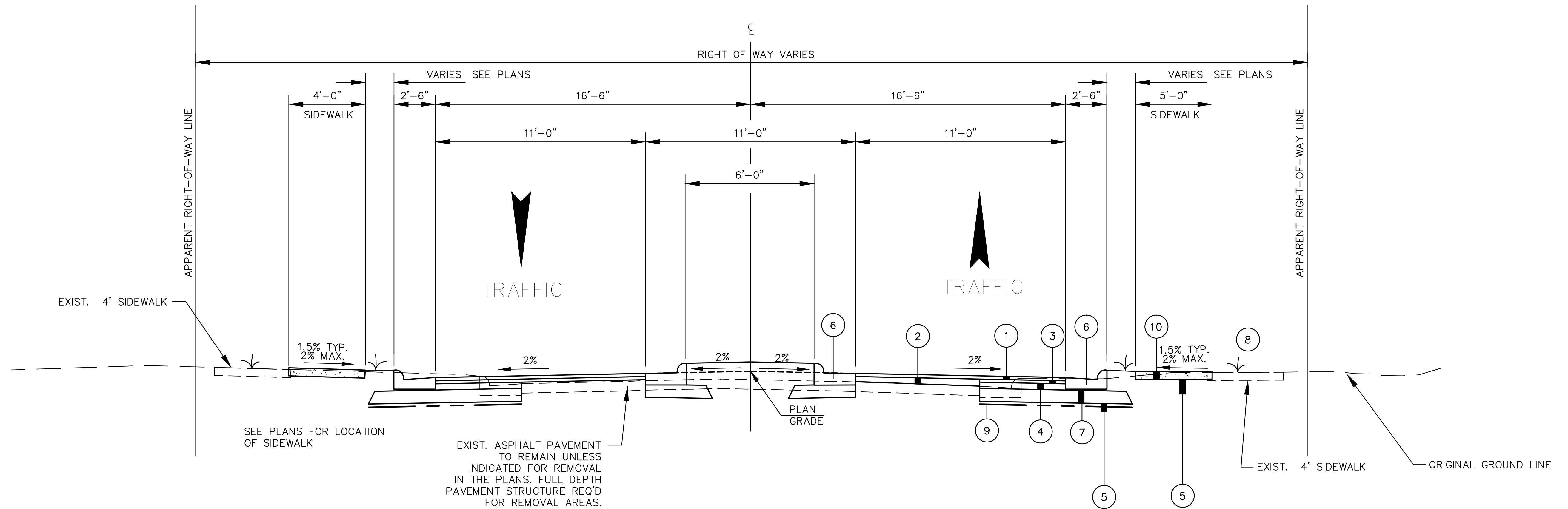


TYPE "3A" COMBINATION CURB AND GUTTER
NOT TO SCALE

12.5 mm LEVELING HMA SHALL BE USED IN AREAS WHERE EXISTING ASPHALT IS TO REMAIN AS INDICATED IN THE PLANS. AREAS WHERE EXISTING ASPHALT IS TO BE REMOVED SHALL RECEIVE 1.5" OF 12.5 MM HMA (3).

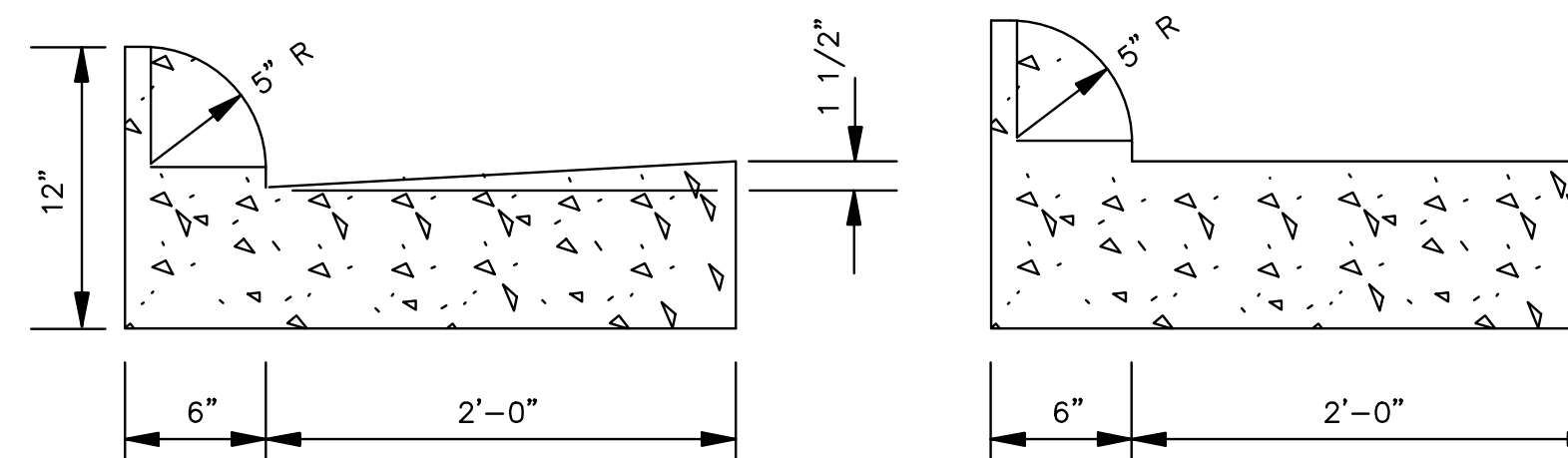
*GUTTER SLOPE TO MATCH ADJACENT PAVEMENT CROSS SLOPE WHEN USED ON HIGH SIDE OF ROADWAY.

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				WORKING NUMBER: TS-1	DRAWING NUMBER: 4
					FILENAME: TYPICAL SECTION.DWG					
					SCALE: NOT TO SCALE					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
				QA/QC:	DATE:					



TYPICAL SECTION - MEDIAN
NOT TO SCALE

- ① 1.5" DEPTH - ASPHALT PAVEMENT, MT (9.5mm MIXTURE)
- ② 2.5" AND VARIABLE DEPTH LEVELING ASPHALT PAVEMENT, MT (12.5mm MIXTURE)(2.5" MAX. LIFT)
- ③ 2.5" DEPTH - ASPHALT PAVEMENT, MT (12.5mm MIXTURE)
- ④ 3" ASPHALT PAVEMENT, MT (19.0 mm MIXTURE)
- ⑤ BORROW MATERIAL (CLASS B7-6)
- ⑥ COMBINATION CURB AND GUTTER TYPE "3A"
- ⑦ 6" SIZE 825 CRUSHED STONE
- ⑧ INDICATES AREA TO BE TREATED AS PER VEGETATION SCHEDULE
- ⑨ GEOTEXTILE FABRIC, TYPE V, NON-WOVEN
- ⑩ 5" CONCRETE SIDEWALK-SEE TS-2 FOR JOINT DETAILS
- ⑪ GENERAL/SELECT BACKFILL

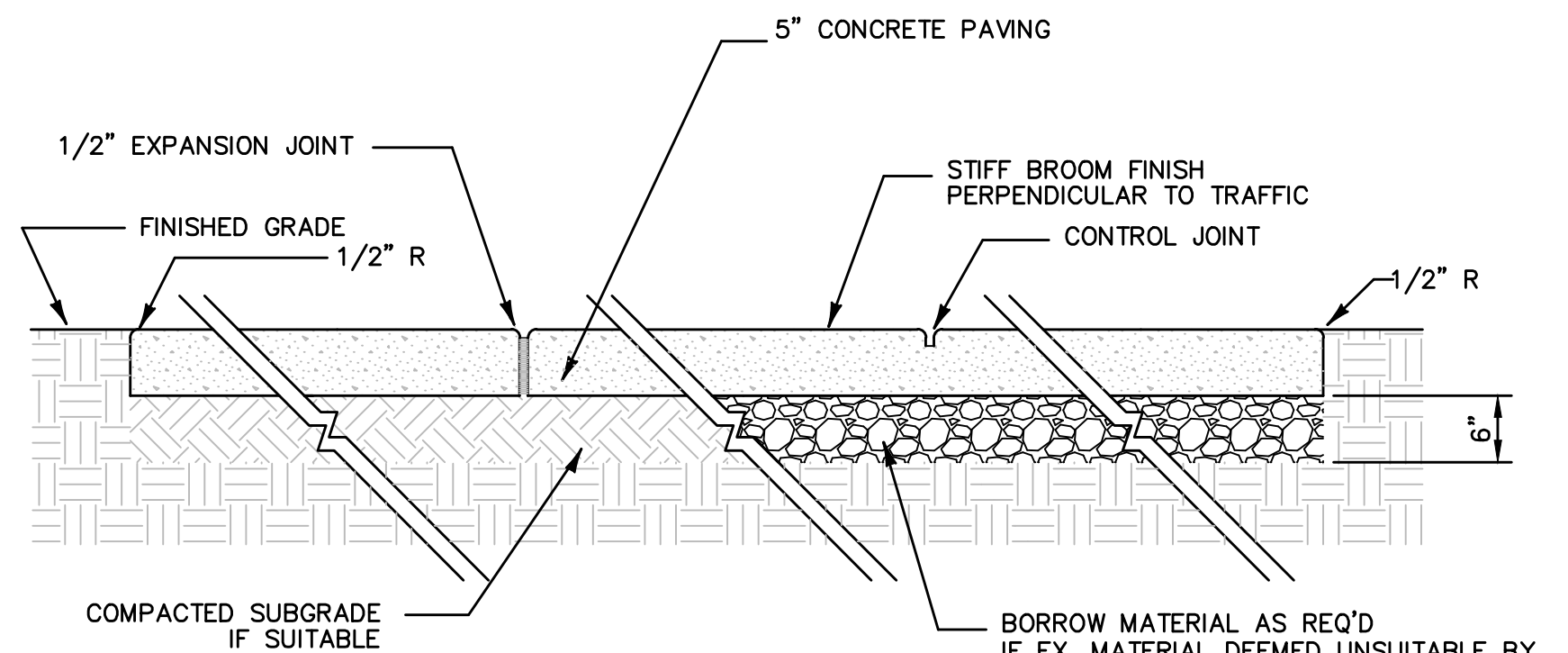


TYPE "3A" COMBINATION CURB AND GUTTER
NOT TO SCALE

12.5 mm LEVELING HMA SHALL BE USED IN AREAS WHERE EXISTING ASPHALT IS TO REMAIN AS INDICATED IN THE PLANS. AREAS WHERE EXISTING ASPHALT IS TO BE REMOVED SHALL RECEIVE 1.5" OF 12.5 MM HMA (3).

*GUTTER SLOPE TO MATCH ADJACENT PAVEMENT CROSS SLOPE WHEN USED ON HIGH SIDE OF ROADWAY.

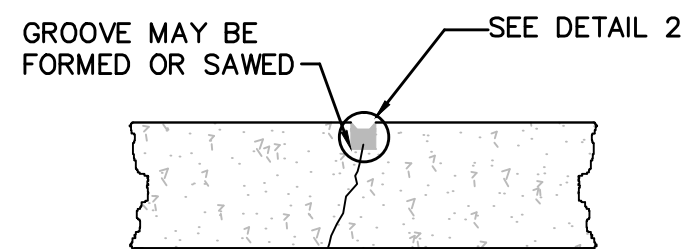
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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				WORKING NUMBER:	DRAWING NUMBER:
					FILENAME: TYPICAL SECTION.DWG				TS-2	5
					SCALE: NOT TO SCALE					
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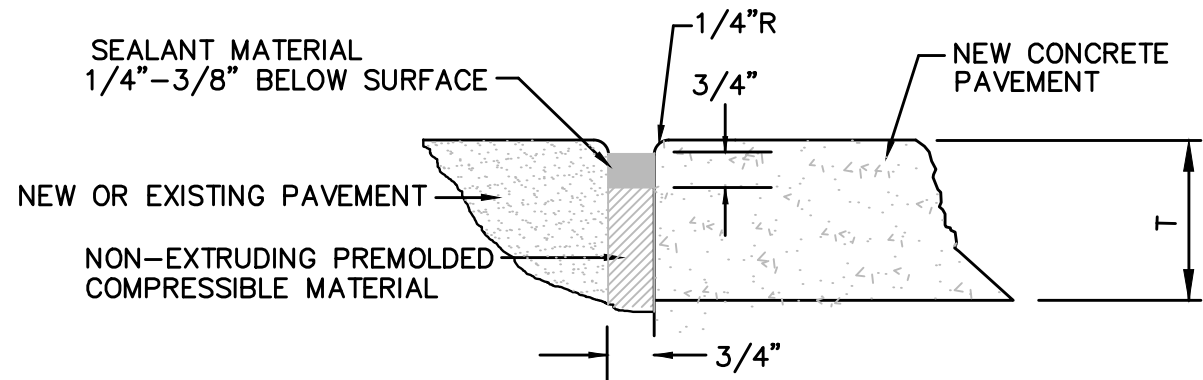
- NOTES:
- 1/2" EXPANSION JOINT CONFORMING TO ASTM D1751. TOP OF JOINT SHALL BE SEALED w/ 1/2" TAR MODIFIED URETHANE SEALANT. PLACE EXPANSION JOINT AS SHOWN ON THE TABLE ABOVE.
 - HAND TOOLED CONTROL JOINTS W/ 1/2" RADIUS AS SHOWN ON THE TABLE ABOVE.
 - ALL SUBGRADE SOILS FOR SIDEWALK SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

TYPICAL SIDEWALK DETAIL
NOT TO SCALE

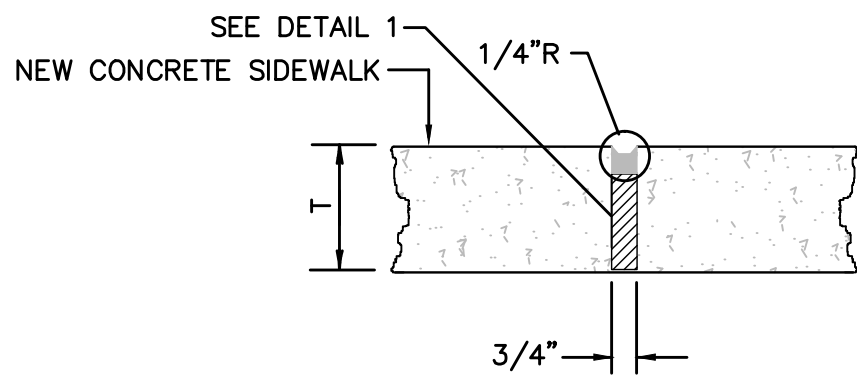
SIDEWALK WIDTH	JOINT SPACING	
	CONTROL JOINT	EXPANSION JOINT
4	4	20
5	5	20



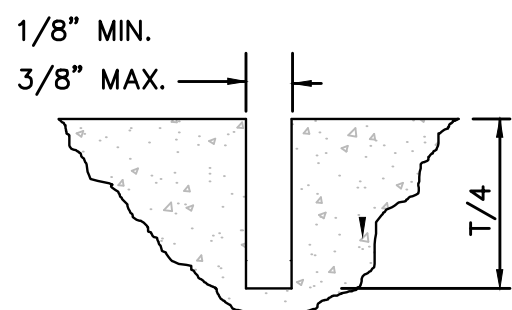
TYPE "A" - CONTROL JOINT
NOT TO SCALE



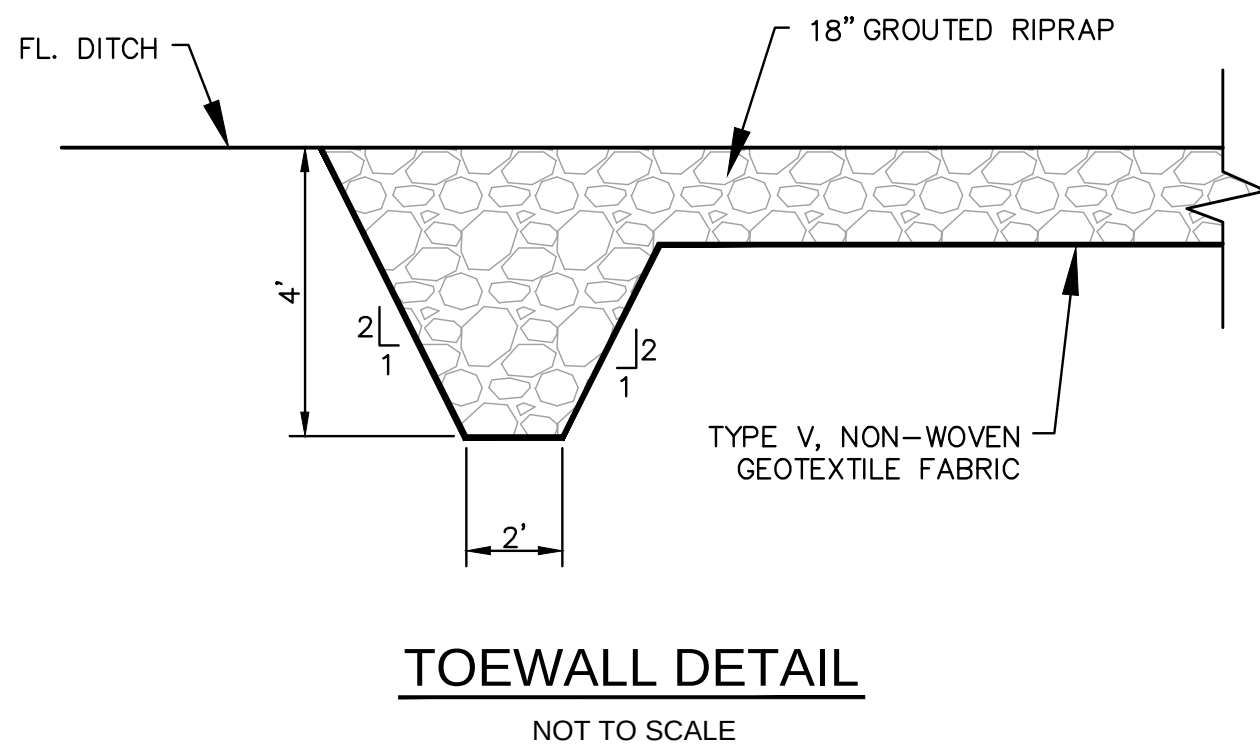
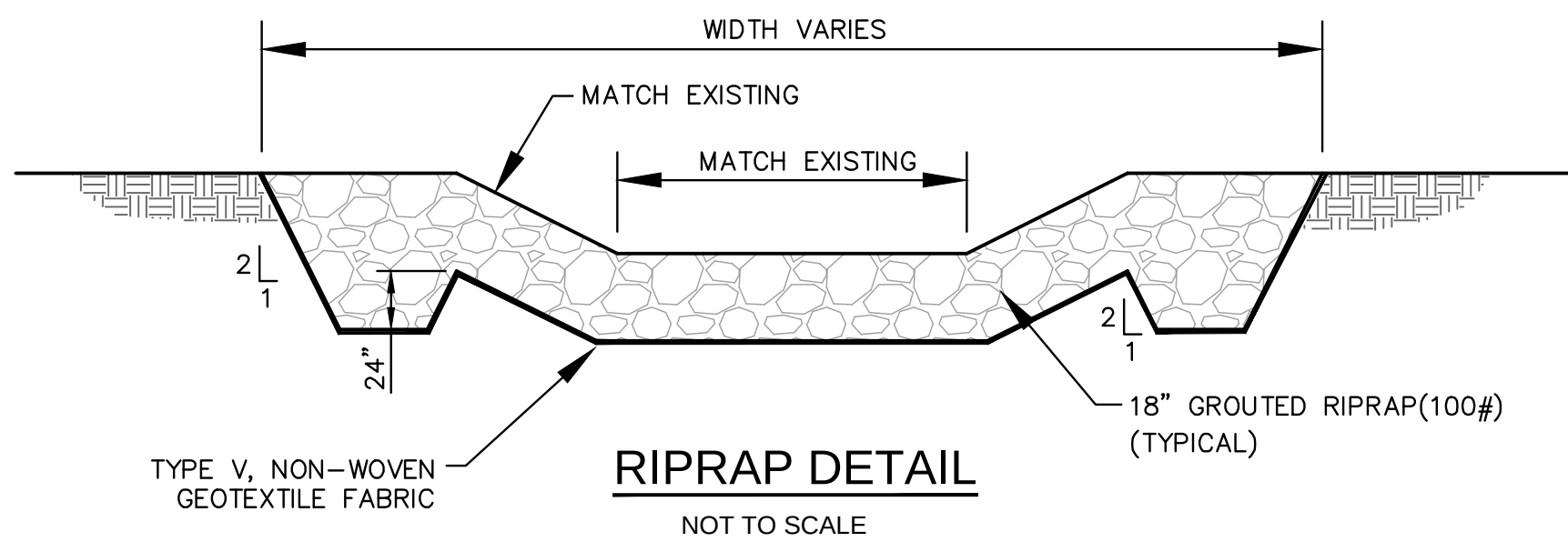
DETAIL 1 - EXPANSION JOINTS
NOT TO SCALE



TYPE "B" - EXPANSION JOINT
NOT TO SCALE



DETAIL 2 - CONTROL JOINT
NOT TO SCALE



NOTICE TO DRAWING HOLDER

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REVISIONS				DRAWING INFORMATION	
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				DSGN: GPC	DATE: 06/2016
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				QA/QC:	DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS



TYPICAL SECTIONS

WORKING NUMBER:	DRAWING NUMBER:
TS-3	6

SUMMARY OF QUANTITIES									
PAY ITEM NO.		PAY ITEM DESCRIPTION			UNIT	PRELIMINARY	FINAL		
		***** EARTHWORK ITEMS *****							
⑤	201-A001	CLEARING AND GRUBBING			LUMP SUM	1			
④	202-A001	REMOVAL OF OBSTRUCTIONS			LUMP SUM	1			
⑦	202-B005	REMOVAL OF ASPHALT PAVEMENT, ALL DEPTHS			SQ. YD.	2615			
①	202-B030	REMOVAL OF CONCRETE PAVEMENT, ALL DEPTHS			SQ. YD.	585			
①	202-B035	REMOVAL OF CONCRETE SIDEWALK			SQ. YD.	290			
⑦	202-B038	REMOVAL OF CURBS, ALL TYPES			LIN. FT.	3165			
	202-B057	REMOVAL OF INLETS, ALL SIZES			EACH	6			
⑧	202-B064	REMOVAL OF PIPE, 8" AND ABOVE			LIN. FT.	405			
②	203-A003	UNCLASSIFIED EXCAVATION, FM, AH			CU. YD.	200			
②	203-EX038	BORROW EXCAVATION, AH, FME, CLASS B7-6			CU. YD.	600			
②	203-G003	EXCESS EXCAVATION, FM, AH			CU. YD.	750			
	206-A001	STRUCTURE EXCAVATION			CU. YD.	960			
②	209-A004	GEOTEXTILE STABILIZATION, TYPE V, NON-WOVEN			SQ. YD.	3430			
		***** ROADSIDE DEVELOPMENT ITEMS *****							
	211-B001	TOPSOIL FOR SLOPE TREATMENT, CONTRACTOR FURNISHED			CU. YD.	375			
	211-D001	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED			CU. YD.	45			
	907-213-A001	AGRICULTURAL LIMESTONE			TON	2			
⑨	907-216-B001	SOLID SODDING, CENTIPEDE			SQ. YD.	2100			
	219-A001	WATERING			KGAL	350			
	220-A001	INSECT PEST CONTROL			ACRE	1			
	907-230-A044	SHRUB PLANTING, PARSONS JUNIPER			EACH	245			
	907-230-B076	TREE PLANTING, SAVANNAH HOLLY			EACH	5			
	907-230-B087	TREE PLANTING, CRAPE MYRTLE 'SIOUX'			EACH	12			
	907-230-D001	BED PREPARATION			SQ. FT.	975			
	232-A003	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 10 G			K	1			
②③	234-A001	TEMPORARY SILT FENCE			LIN. FT.	500			
②	907-237-A002	WATTLES, 12"			LIN. FT.	200			
②	907-246-A001	SANDBAGS			LIN. FT.	200			
		***** ALTERNATE SUBBASE AND BASE ITEMS *****							
	907-304-G001	SIZE 825B CRUSHED STONE BASE, AEA			CU. YD.	850			
		OR							
	907-304-G003	3/4" AND DOWN CRUSHED STONE BASE, AEA			CU. YD.	850			
		OR							
	907-304-G002	SIZE 610 CRUSHED STONE BASE, AEA			CU. YD.	850			
		***** ASPHALT ITEMS *****							
	907-403-A023	12.5-MM, MT, ASPHALT PAVEMENT			TON	515			
	907-403-A024	19-MM, MT, ASPHALT PAVEMENT			TON	610			
	907-403-A022	9.5-MM, MT, ASPHALT PAVEMENT			TON	550			
	907-403-B017	12.5-MM, MT, ASPHALT PAVEMENT, LEVELING			TON	1100			
	907-407-A001	ASPHALT FOR TACK COAT			GAL	500			
		***** BITUMINOUS PAVING ITEMS *****							
	406-A001	COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS			SQ. YD.	1025			
		***** DRAINAGE ITEMS *****							
	907-601-B003	CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES			CU. YD.	57			
⑦	907-601-B004	CLASS "C" STRUCTURAL CONCRETE, MINOR STRUCTURES			CU. YD.	1			
	602-A001	REINFORCING STEEL			LBS	4680			
⑩	603-A039	14" STEEL PIPE, WALL THICKNESS 0.375"			LIN. FT.	10			
②	603-B002	4" CAST IRON PIPE, CLASS I			LIN. FT.	20			
⑥	603-CA088	18" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS			LIN. FT.	8			
⑥	603-CA089	24" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS			LIN. FT.	14			
⑥	603-CA129	15" REINFORCED CONCRETE PIPE, CLASS III, RUBBER TYPE GASKETS			LIN. FT.	12			
⑥	603-CE039	22"x13" CONCRETE ARCH PIPE, CLASS A III, FLEXIBLE PLASTIC GASKETS			LIN. FT.	1415			
⑥	603-CE041	29"x18" CONCRETE ARCH PIPE, CLASS A III, FLEXIBLE PLASTIC GASKETS			LIN. FT.	193			
⑥	603-CF002	29"x18" CONCRETE ARCH PIPE END SECTION			EACH	1			
	604-A001	CASTINGS			LBS	1343			
	604-B001	GRATINGS			LBS	340			

SUMMARY OF QUANTITIES									
PAY ITEM NO.		PAY ITEM DESCRIPTION			UNIT	PRELIMINARY	FINAL		
		***** INCIDENTAL CONSTRUCTION ITEMS *****							
④	③	907-604-PP005	TRENCH DRAIN, PER PLANS			LIN. FT.	56		
		608-A001	CONCRETE SIDEWALK, WITHOUT REINFORCEMENT			SQ. YD.	790		
		609-B001	CONCRETE CURB, HEADER			LIN. FT.	94		
		609-D008	COMBINATION CONCRETE CURB AND GUTTER, TYPE 3A			LIN. FT.	3225		
		613-D005	ADJUSTMENT OF MANHOLES			EACH	5		
		614-B002	CONCRETE DRIVEWAY, WITH REINFORCEMENT, 6-INCH THICKNESS			SQ. YD.	703		
		907-616-C003	COLORED AND IMPRINTED CONCRETE MEDIAN AND/OR ISLAND PAVEMENT, 10-INCH THICKNESS			SQ. FT.	738		
		907-618-A001	MAINTENANCE OF TRAFFIC			LUMP SUM	1		
		907-618-B001	ADDITIONAL CONSTRUCTION SIGNS			SQ. FT.	1		
		620-A001	MOBILIZATION			LUMP SUM	1		
②	⑥	630-A001	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS			SQ. FT.	68.75		
		630-A002	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS			SQ. FT.	9		
		630-C004	STEEL U-SECTION POSTS, 3.0 TO 3.5 LB/FT			LIN. FT.	168		
		653-B001	STREET NAME SIGN, ENCAPSULATED LENS			SQ. FT.	32		
		907-699-A002	ROADWAY CONSTRUCTION STAKES			LUMP SUM	1		
		815-B001	GROUTED RIPRAP			SQ. YD.	40		
		815-E001	GEOTEXTILE UNDER RIPRAP GROUTED RIPRAP, TYPE V, NON-WOVEN			SQ. YD.	40		
		***** PAVEMENT MARKING ITEMS *****							
		907-608-E002	ASPHALT PAVEMENT TEXTURING			SQ. FT.	1520		
		907-626-D004	6" THERMOPLASTIC TRAFFIC STRIPE, SKIP YELLOW			LIN. FT.	1150		
		907-626-E003	6" THERMOPLASTIC TRAFFIC STRIPE, CONTINUOUS YELLOW			LIN. FT.	2575		
		907-626-G004	THERMOPLASTIC DETAIL STRIPE, WHITE			LIN. FT.	325		
		907-626-G005	THERMOPLASTIC DETAIL STRIPE, YELLOW			LIN. FT.	117		
		907-626-H004	THERMOPLASTIC LEGEND, WHITE			LIN. FT.	989		
		907-626-H005	THERMOPLASTIC LEGEND, WHITE			SQ. FT.	291		
		627-K001	RED-CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS			EACH	16		
		627-L001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS			EACH	161		
***** WATER ITEMS *****									
⑦	⑬	907-265-A008	6" C-900 PVC WATER LINE			LIN. FT.	220		
		907-265-B006	6" DUCTILE IRON WATER MAIN			LIN. FT.	220		
		907-265-A007	8" C-900 PVC WATER LINE			LIN. FT.	60		
		907-265-B007	8" DUCTILE IRON WATER MAIN			LIN. FT.	60		
		907-265-C002	DUCTILE IRON FITTINGS			LBS.	1850		
		907-265-F001	FIRE HYDRANT ASSEMBLY			EACH	3		
		907-265-D017	8" INSERTION VALVE			EACH	1		
		907-265-D027	6" INSERTION VALVE			EACH	2		
		907-265-K007	6" LINE STOP			EACH	2		
		907-265-M005	SHORT SERVICE CONNECTION			EACH	10		
907-265-M006	LONG SERVICE CONNECTION			EACH	15				
***** TRAFFIC SIGNAL ITEMS *****									
⑧	⑭	907-639-A025	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 30' & 55' ARMS			EACH	1		
		907-639-A028	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 30' ARM			EACH	1		
		907-639-A034	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI, 8' SHAFT			EACH	2		
		907-639-C002	POLE FOUNDATIONS, 36" DIAMETER			CU. YD.	9		
		907-639-C003	POLE FOUNDATIONS, 24" DIAMETER			CU. YD.	2		
		640-A016	TRAFFIC SIGNAL HEADS, TYPE 1 LED			EACH	4		
		640-A018	TRAFFIC SIGNAL HEADS, TYPE 3 LED			EACH	1		
		640-A056	TRAFFIC SIGNAL HEADS, TYPE 2 FYA LED			EACH	1		
		640-A034	TRAFFIC SIGNAL HEADS, TYPE 6 LED COUNTDOWN			EACH	4		
		907-642-A003	SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 8A			EACH	1		
⑨	⑮	644-A001	OPTICAL DETECTOR			EACH	3		
		644-B001	OPTICAL DETECTOR CABLE			LIN. FT.	360		
		644-C002	PHASE SELECTOR, 4 CHANNEL			EACH	1		
		646-A001	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT			LUMP SUM	1		
		647-A001	PULLBOX, TYPE 1			EACH	1		
		647-A002	PULLBOX, TYPE 3			EACH	1		
		647-A005	PULLBOX, TYPE 2			EACH	2		
		907-649-A004	VIDEO DETECTION SYSTEM, 1 SENSOR, TYPE 2			EACH	3		
		653-A001	TRAFFIC SIGN, ENCAPSULATED LENS			SQ. FT.	15		
		666-B015	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 5 CONDUCTOR			LIN. FT.	520		
⑩	⑯	666-B054	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 8 CONDUCTOR			LIN. FT.	240		
		666-B040	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, THNN, AWG #8, 3 CONDUCTOR			LIN. FT.	30		
		666-B049	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, THNN, AWG #10, 2 CONDUCTOR			LIN. FT.	215		
		666-C017	ELECTRIC CABLE, AERIAL SUPPORTED, IMSA 20-1, AWG 14, 8 CONDUCTOR			LIN. FT.	115		
		668-A018	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"			LIN. FT.	100		
		668-A020	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3"			LIN. FT.	130		
		668-B024	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLLED PIPE, 2"			LIN. FT.	150		

① ESTIMATED QUANTITY.

② INCLUDES MOUNTING HARDWARE FOR SIGNS, AND REMOVAL/RESETTING OF EXISTING STREET NAME SIGNS, INCLUDING MOUNTING HARDWARE.

③ INCLUDES ORANGE WARNING FENCE FOR PEDESTRIAN SAFETY IN AREAS DETERMINED BY THE ENGINEER

④ SEE PLANS FOR PATTERN. COLOR TO BE SELECTED BY OWNER

⑤ SIZE 100#

⑥ INCLUDES MOUNTING HARDWARE

⑦ INCLUDES HOT TAP

⑧ COLOR – POWDER COATED BLACK

⑨ TRAFFIC SIGNAL HEADS SHALL BE YELLOW IN COLOR WITH BLACK BACK PLATES.

⑩ TRAFFIC SIGNAL CONTROLLER CABINET SHALL HAVE REAR ACCESS PANEL AND LAPTOP TRAY. MMU AND CONTROLLER SHALL BE ETHERNET READY. CONTROLLER SHALL BE COMPATIBLE WITH MDOT'S EXISTING TRAFFIC SIGNAL MANAGEMENT SOFTWARE. CARD RACK POWER SUPPLY SHALL BE A MINIMUM OF 175 WATTS.

⑪ SHALL BE SECURITY ENABLED

⑫ INCLUDES ALL EQUIPMENT FOR A COMPLETE AND OPERABLE UNIT. VIDEO DETECTION CABLE SHOWN ON PLANS (NOT A SEPARATE PAY ITEM) TO SUPPLY BOTH POWER AND VIDEO FEED TO FIXED CAMERAS.

⑬ SHALL BE TYPE V, NON-WOVEN

⑭ AUDIBLE TYPE REQUIRED

NOTICE TO DRAWING HOLDER	REVISIONS			DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000	CITY OF HATTIESBURG FORREST COUNTY, MS		SUMMARY OF QUANTITIES	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: SQ.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC DATE: 06/2016					
					DRWN: GPC DATE: 06/2016					
					CHKD: DATE:					
					QA/QC: DATE:					
								WORKING NUMBER:	DRAWING NUMBER:	
								SQ-2	8	

[illegible]

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE OWNER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	ESTIMATED QUANTITIES -REMOVAL ITEMS-	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: EQ.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
				QA/QC:	DATE:			WORKING NUMBER: EQ-1	DRAWING NUMBER: 9	

PIPE CULVERT DRAINAGE STRUCTURES

WK. SH. NO.	STATION	ID NUMBER	TYPE	PIPE CULVERTS																END SECTIONS								SIZE			STRUCTURE EXCAVATION		DWG'S REQ'D.	CLASS "B" CONC.	REINF. STEEL	GRATING	CASTING				COMMENTS
				12" RCP	15" RCP	18" RCP	18" RCP	24" RCP	30" RCP	42" RCP	22" x 13"	29" x 18"									29" x 18"							L	W	H	CU YDS EXCAV	EST. DEPTH									
PP-1	65+58.35	CI-1	SS-2								40														5	3.5	5.10	30	5.0		322	2.87	240		79				RIGHT		
PP-1	65+60.75	JB-1	JB-2								32														3.5	3.5	2.25	20	4.0		304	1.10	84					RIGHT			
PP-1	66+68.95	CI-2	SS-2								104														15	5.0	3.70	57	3.8		322	4.64	448		79				RIGHT		
PP-1	66+68.95	CI-3	SS-2								38														15	2.5	3.50	21	3.6		322	3.77	417		79				LEFT		
PP-1	67+54.59	CI-4	SS-2					14																	5	4.0	4.15	10	4.1		322	2.71	228		79				RIGHT		
		PC-1																												301	0.41							RIGHT			
PP-1	67+48.13	CI-5	SS-2				8				39														5	2.5	3.95	24	2.3/3.7		322	2.14	202		79				LEFT		
PP-1	69+48.93	CI-6	SS-2									189													5	5.5	4.00	126	4.1		322	3.15	240		79				RIGHT		
PP-1	69+48.93	CI-7	SS-2								38														5	2.5	3.80	21	3.6		322	2.09	200		79				LEFT		
PP-1		--	TRENCH		12																																				
PP-2	71+48.94	CI-8	SS-2								195														5	3.0	3.80	111	4.0		322	2.25	205		79				RIGHT		
PP-2	71+48.94	CI-9	SS-2								38														5	2.5	3.65	19	3.3		322	2.04	199		79				LEFT		
PP-2	73+28.92	CI-10	SS-2								175														5	3.0	3.65	92	3.7		322	2.20	203		79				RIGHT		
PP-2	73+28.92	CI-11	SS-2								38														5	2.5	3.50	63	3.2		322	1.99	197		79				LEFT		
PP-3	77+54.09	CI-12	SS-2								38														5	2.5	4.80	17	3.0		322	2.40	217		79				RIGHT		
PP-3	77+54.09	CI-13	SS-2								91														5	3.5	4.95	54	4.0		322	2.82	231		79				LEFT		
PP-3	78+52.34	CI-14	SS-2								40														5	2.5	4.90	19	3.0		322	2.33	215		79				RIGHT		
PP-3	78+52.34	CI-15	SS-2								22														5	3.5	5.10	17	5.2		322	2.75	229		79				LEFT		
PP-3	80+44.88	CI-16	SS-2								19														5	2.5	3.45	12	4.0		322	1.98	197		79				RIGHT		
PP-3	80+44.88	CB-1									15														5	5.0	2.65	8	3.0		DET-1	2.00	122						CONFLICT BOX		
PP-3	80+44.88	CI-17	SS-2								164														5	3.5	3.55	70	4.1		322	2.33	210		79				LEFT		
PP-4	79+19.75	JB-2	JB-2								185							1								4	4.0	3.30	100	3.8		304	1.20	84					NORTH STREET		
PP-4		CI-18	DROP								104																2.60	61	3.1		DET-1	2.75	220	340					NORTH STREET		
PP-4		JB-3	JB-1									4													4	4.0	3.60	3	4.1		302	1.30	92						NORTH STREET		

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001	
					FILENAME: EQ.DWG	
					SCALE: N.T.S.	
					SURVEYED BY: SHOWS, DEARMAN & WAITS	
					DSGN: GPC	DATE: 06/2016
					DRWN: GPC	DATE: 06/2016
					CHKD:	DATE:
					QA/QC:	DATE:
FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS						
NEEL-SCHAFFER <i>Solutions you can build upon</i>						
ESTIMATED QUANTITIES -DRAINAGE STRUCTURES-						
WORKING NUMBER: EQ-2 DRAWING NUMBER: 10						

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: EQ.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC DATE: 06/2016					
					DRWN: GPC DATE: 06/2016					
					CHKD: DATE:					
					QA/QC: DATE:					
FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS					 NEEL-SCHAFFER Solutions you can build upon		ESTIMATED QUANTITIES -ROADWAY-			
							WORKING NUMBER:		DRAWING NUMBER:	
							EQ-3		11	

[illegible]

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	ESTIMATED QUANTITIES -ROADWAY-	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				WORKING NUMBER: EQ-4 DRAWING NUMBER: 12	
					FILENAME: EQ.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
				QA/QC:	DATE:					

SUMMARY OF PAVEMENT MARKINGS			
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[illegible]

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION				
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001			
					FILENAME: EQ.DWG			
					SCALE: N.T.S.			
					SURVEYED BY: SHOWS, DEARMAN & WAITS			
					DSGN: GPC DATE: 06/2016			
					DRWN: GPC DATE: 06/2016			
					CHKD: DATE:			
					QA/QC: DATE:			
FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS					NEEL-SCHAFFER <i>Solutions you can build upon</i>		ESTIMATED QUANTITIES -PAVEMENT MARKINGS-	
							WORKING NUMBER: EQ-PM	
							DRAWING NUMBER: 13	

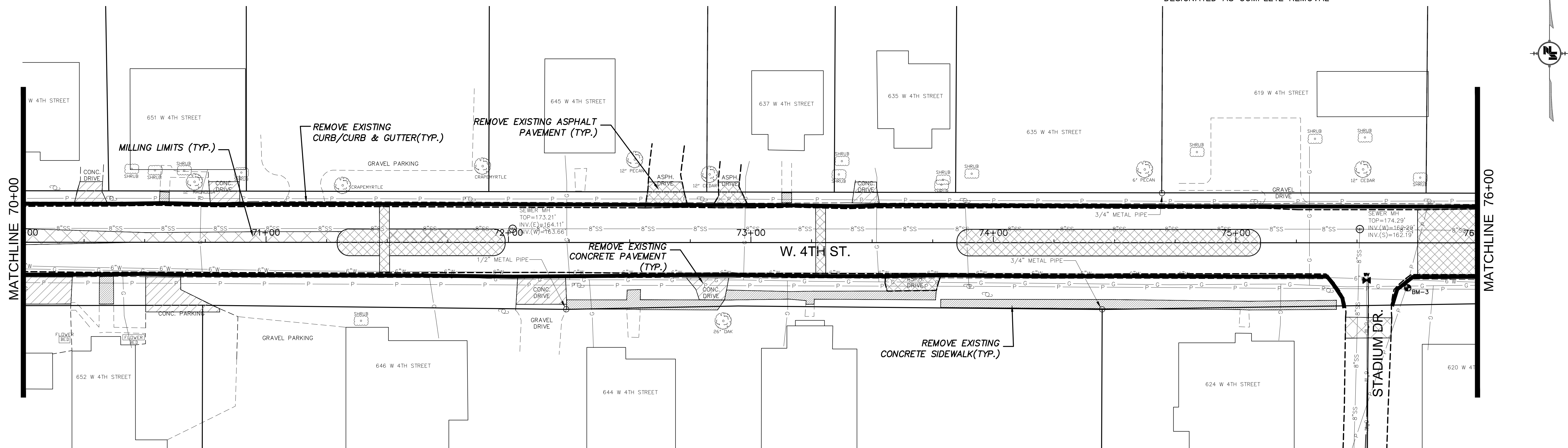
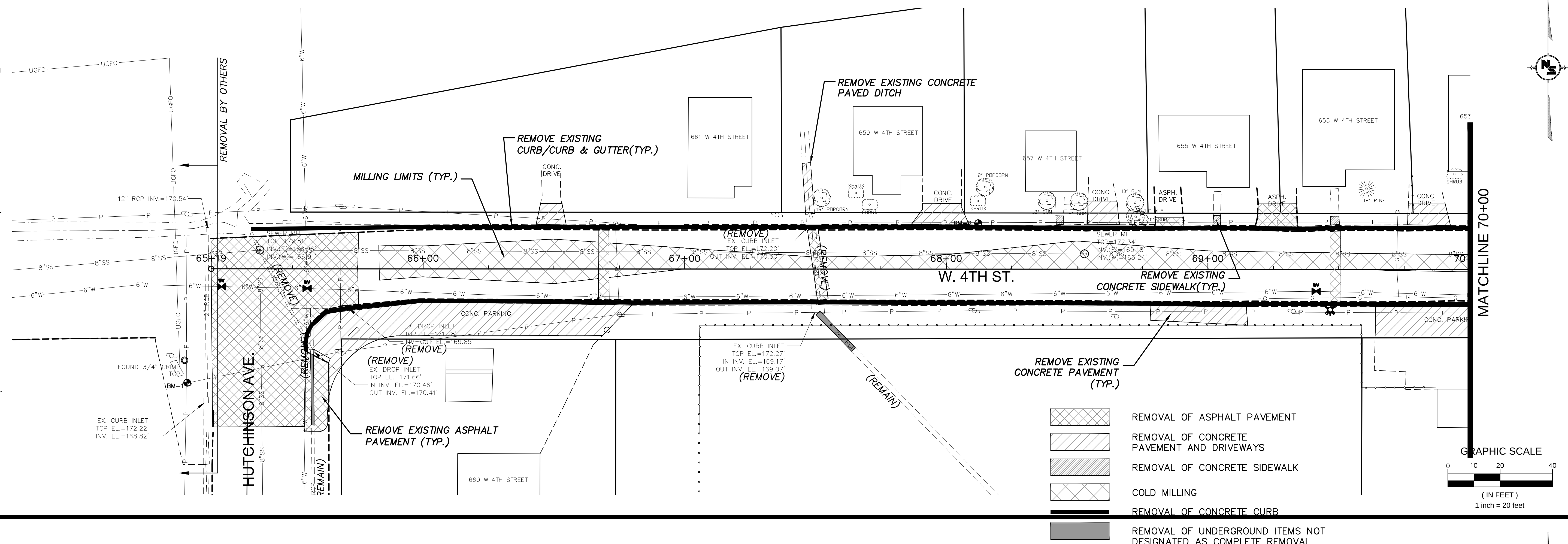
[illegible]

FINISH SURFACE TO RECEIVE TYPE 1 TAPE PRIOR TO FINAL STRIPING.

QUANTITIES SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL IN NO WAY RELIEVE THE CONTRACTOR FROM CARRYING OUT THE INTENT OF THE TRAFFIC CONTROL PLAN. CONTRACTOR SHALL ADJUST THE TRAFFIC CONTROL PLAN AS DIRECTED TO PROVIDE A SAFE ROUTE FOR THE TRAVELING PUBLIC.

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: EQ.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
				QA/QC:	DATE:			WORKING NUMBER: EQ-TC	DRAWING NUMBER: 15	

- NOTES:
1. LIMITS OF CLEARING SHALL BE ALL AREAS WITHIN THE PROPERTY LINE AND RIGHT-OF-WAY EASEMENTS EXCEPT AS OTHERWISE SHOWN. DAMAGE OUTSIDE THESE LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 2. EXCEPT AS NOTED BELOW, CONTRACTOR SHALL REMOVE FROM THE SITE AND SATISFACTORILY DISPOSE OF ALL TREES, SHRUBS, STUMPS, ROOTS, BRUSH, MASONRY, RUBBISH, SCRAP, DEBRIS, AND MISCELLANEOUS OTHER STRUCTURES NOT COVERED UNDER OTHER SECTIONS AS SHOWN, SPECIFIED OR OTHERWISE REQUIRED TO PERMIT CONSTRUCTION OF THE NEW WORK.
 3. TREES, STUMPS AND OTHER CLEARED AND GRUBBED MATERIAL MAY NOT BE DISPOSED ON SITE.
 4. BURNING WILL NOT BE ALLOWED ON SITE.
 5. ALL BURNING OFF THE SITE SHALL BE IN COMPLETE ACCORDANCE WITH RULES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION.
 6. TREES AND SHRUBS SHALL BE TRIMMED TO AVOID REMOVAL OR DAMAGE. TRIMMED OR DAMAGED TREES SHALL BE TREATED AND REPAIRED BY PERSONS WITH EXPERIENCE IN THIS SPECIALTY WHO ARE APPROVED BY ENGINEER. TREES AND SHRUBS INTENDED TO REMAIN WHICH ARE DAMAGED BEYOND REPAIR OR REMOVED, SHALL BE REPLACED BY THE CONTRACTOR.
 7. CONTROL AIR POLLUTION CAUSED BY DUST AND DIRT, AND COMPLY WITH GOVERNING REGULATIONS.
 8. LIMITS OF CLEARING AND MILLING ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
 9. CONTRACTOR SHALL REMOVE EXISTING STRIPING IN AREAS WHERE NEW STRIPING IS TO BE PLACED (COST ABSORBED).



NOTICE TO DRAWING HOLDER

NEEL-SCHAFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

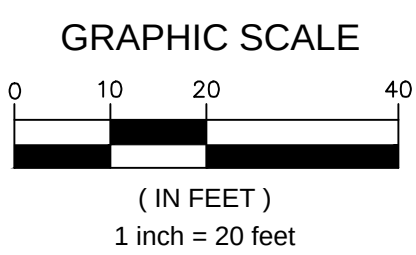
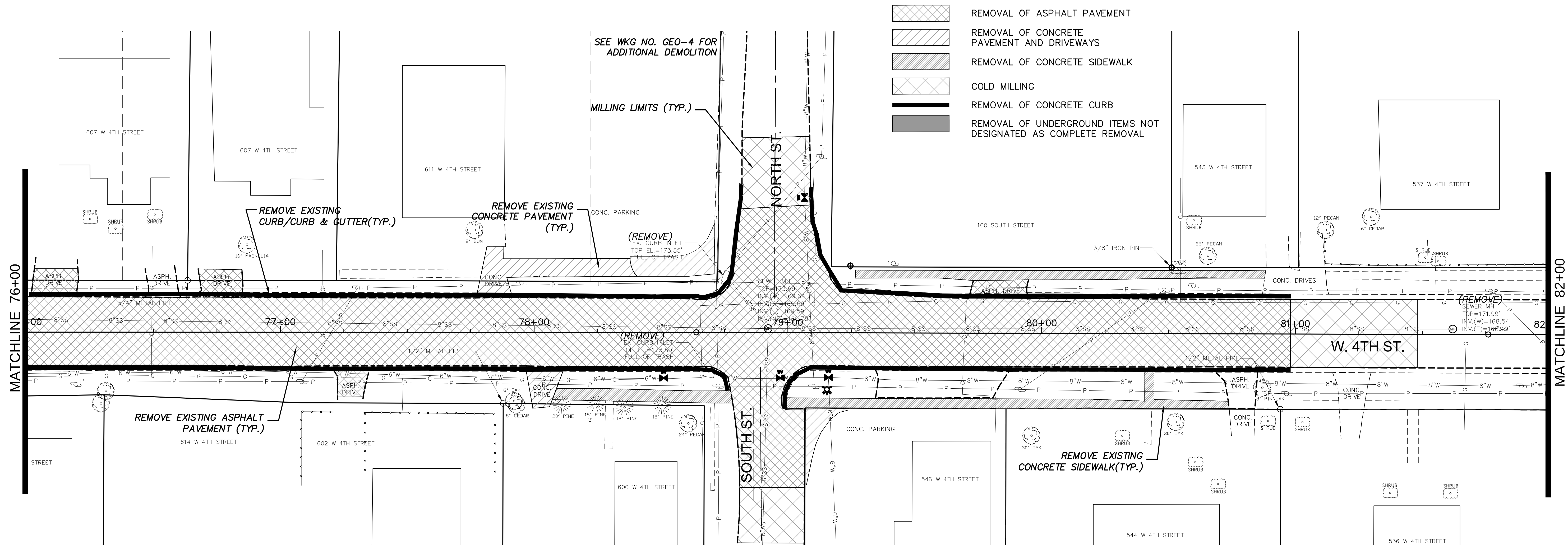
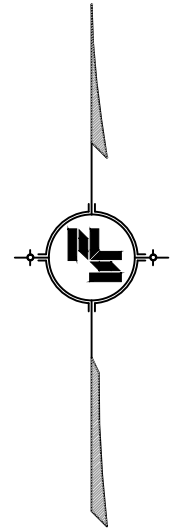
REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	
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			SURVEYED BY: SHOWS, DEARMAN & WAITS	
			DSGN: GPC	DATE: 06/2016
			DRWN: GPC	DATE: 06/2016
			CHKD:	DATE:
			QA/QC:	DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS



DEMOLITION PLAN STA. 65+19 TO STA. 76+00	
WORKING NUMBER:	DRAWING NUMBER:
DEMO-1	16

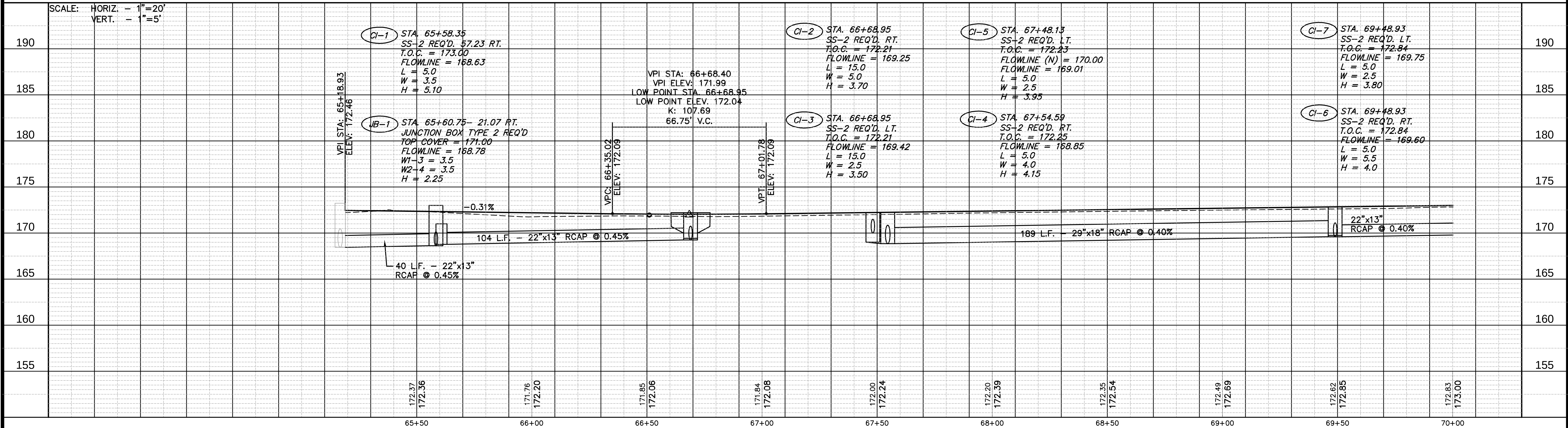
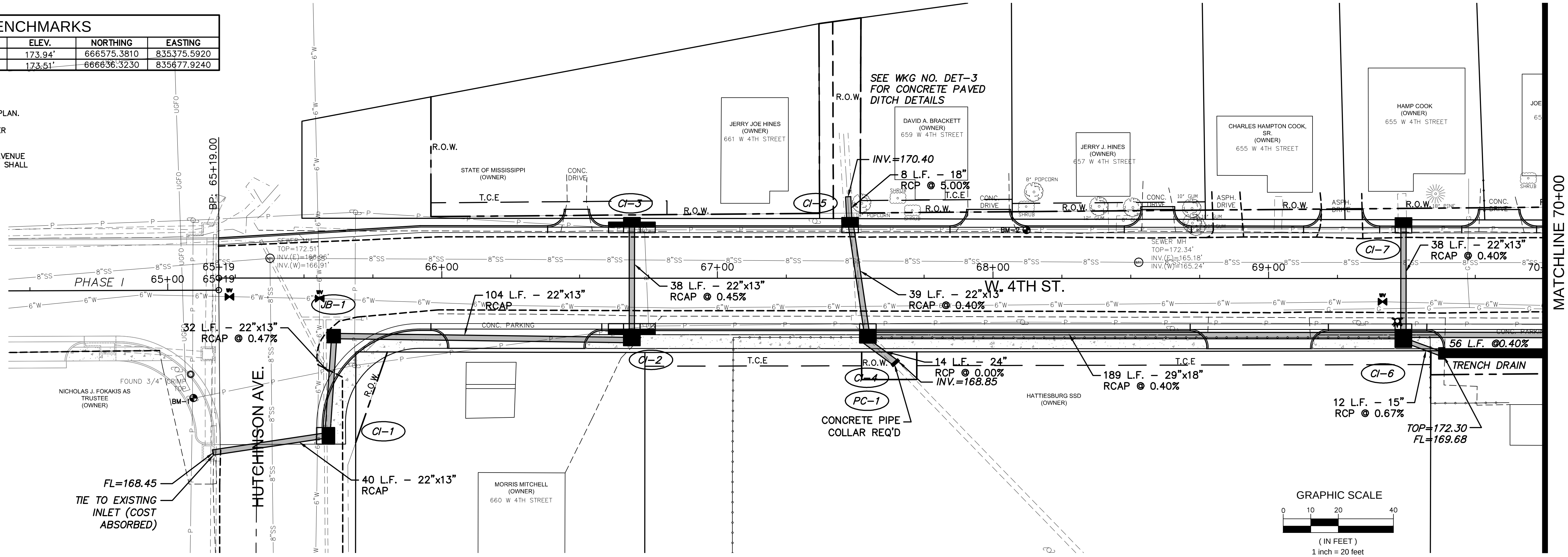


NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		DEMOLITION PLAN STA. 76+00 TO STA. 82+00			
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001							
					FILENAME: DEMO.DWG							
					SCALE: 1" = 20'							
					SURVEYED BY: SHOWS, DEARMAN & WAITS						WORKING NUMBER:	DRAWING NUMBER:
					DSGN: GPC DATE: 06/2016							
					DRWN: GPC DATE: 06/2016							
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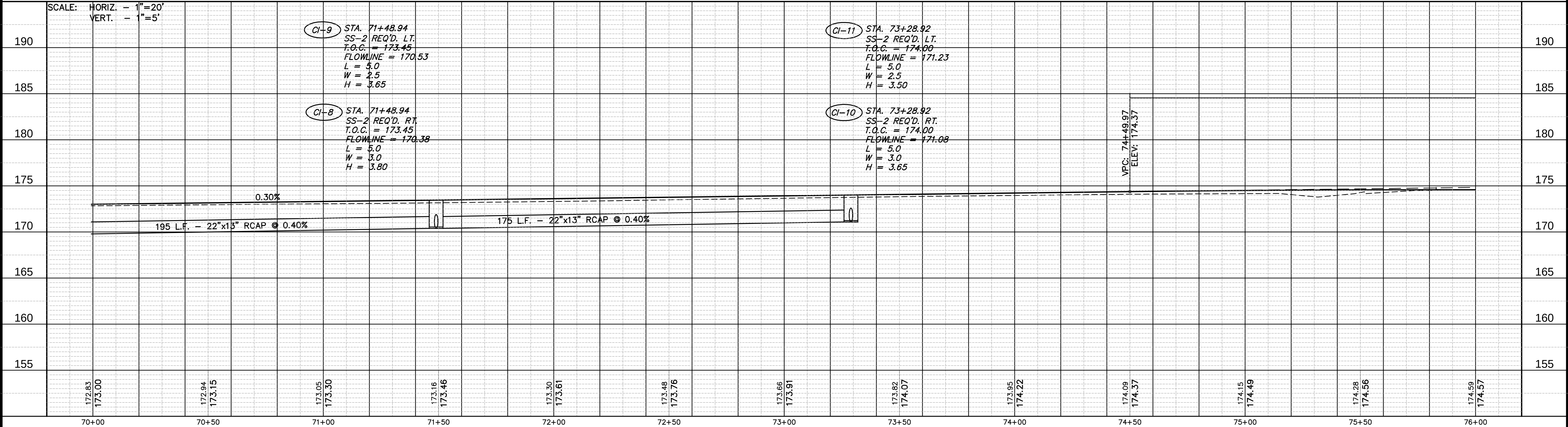
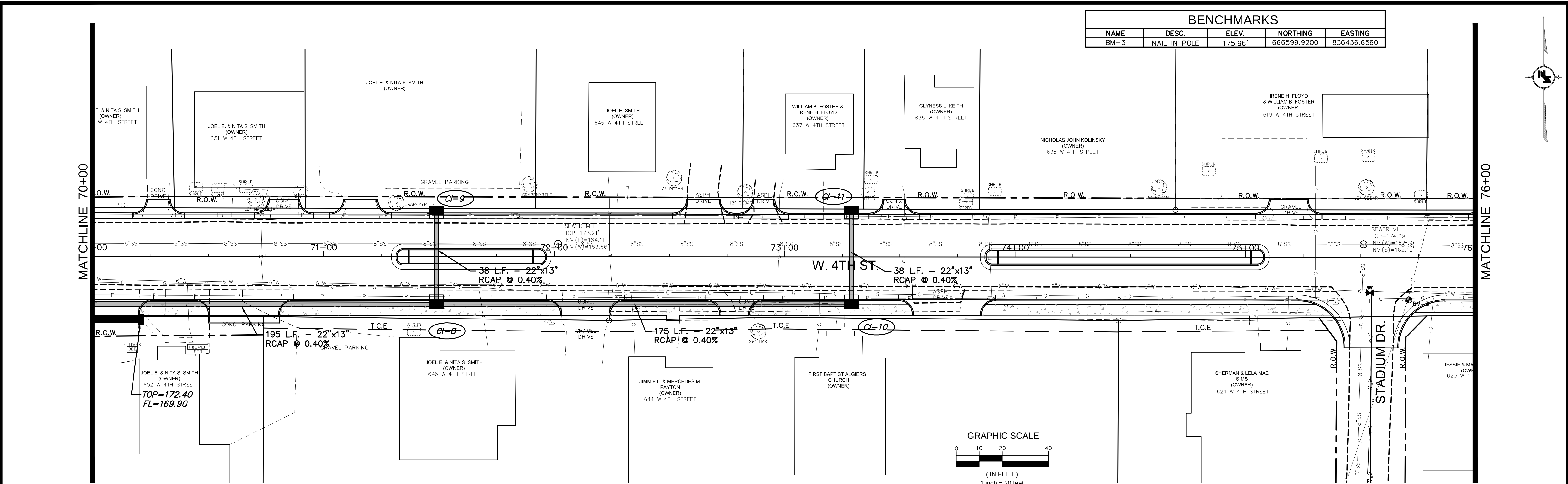
BENCHMARKS				
NAME	DESC.	ELEV.	NORTHING	EASTING
BM-1	NAIL IN POLE	173.94'	666575.3810	835375.5920
BM-2	NAIL IN POLE	173.51'	666636.3230	835677.9240

NOTES:

1. SEE WKG NO. TS-1 FOR TRAFFIC SIGNAL PLAN.
2. SEE WKG NO. WP-1 AND WP-2 FOR WATER PLAN.
3. WORK HAS BEEN DONE ON HUTCHINSON AVENUE AFTER SURVEY WAS COMPLETE. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON TIE INS FOR SIDEWALK AND CURB & GUTTER.



NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS NO. DATE BY DESCRIPTION	DRAWING INFORMATION N-S PROJECT NO.: 7856.001 FILENAME: PP.DWG SCALE: 1" = 20' SURVEYED BY: SHOWS, DEARMAN & WAITS DSGN: GPC DATE: 06/2016 DRWN: GPC DATE: 06/2016 CHKD: DATE: QA/QC: DATE:	FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER Solutions you can build upon	FOURTH STREET PLAN AND PROFILE STA. 65+19 TO STA. 70+00 WORKING NUMBER: PP-1 DRAWING NUMBER: 18
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NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	NEEL-SCHAFFER Solutions you can build upon	FOURTH STREET				PLAN AND PROFILE	
	STA. 70+00 TO STA. 76+00				WORKING NUMBER:				DRAWING NUMBER:					
	PP-2				19									

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE 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 DEMOLITION AND/OR CONSTRUCTION.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ANY AND ALL MARKINGS AS NEEDED TO PROTECT EXISTING UTILITIES. ANY DAMAGE OR INTERRUPTION OF SERVICE CAUSED BY THE CONTRACTOR'S NEGLIGENCE SHALL BE REPORTED IMMEDIATELY TO THE APPROPRIATE UTILITY COMPANY AND SHALL BE REPAIRED AND SERVICE RESTORED IN FULL COOPERATION WITH THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

3. WATER METERS AND SERVICES NOT SHOWN FOR CLARITY. ALL WATER METERS ARE TO BE RELOCATED THAT CONFLICT WITH PROPOSED IMPROVEMENTS.

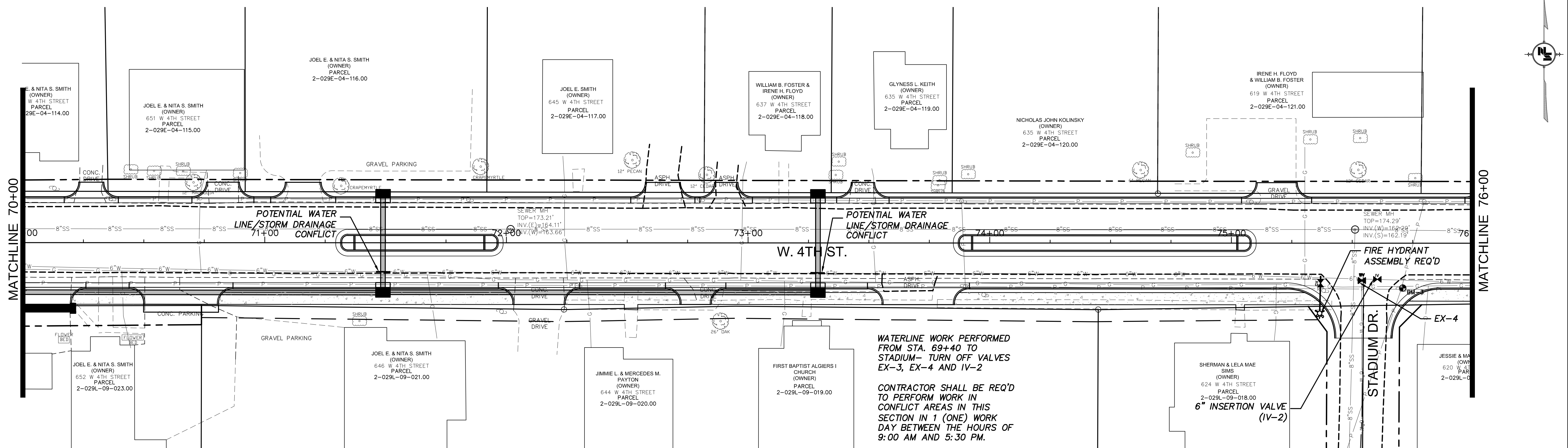
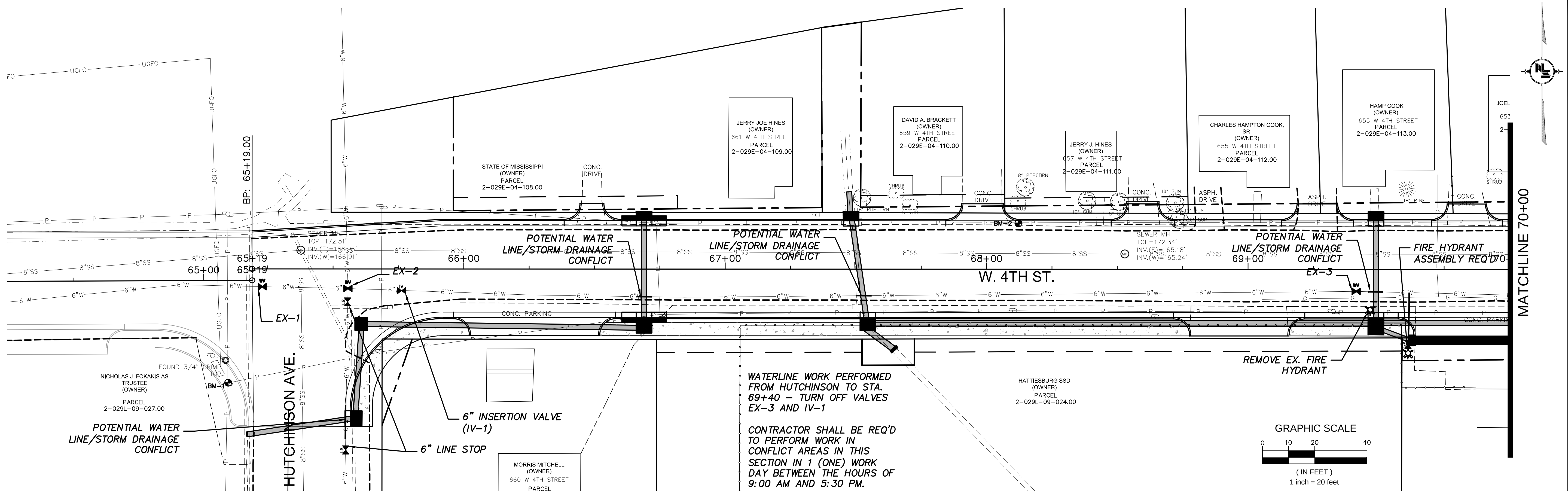
4. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WATER LINE WORK. CITY TO PROVIDE BOIL WATER NOTICES TO RESIDENTS AND BUSINESS OWNERS.

5. CONTRACTOR SHALL COORDINATE WITH CITY ON OPERATION OF EXISTING WATER VALVES.

6. SEE WKG NO.'S WD-1 AND WD-2 FOR WATER DETAILS.

7. REMOVAL OF FIRE HYDRANTS SHALL BE PAID FOR UNDER REMOVAL OF OBSTRUCTIONS.

8. CONTRACTOR SHALL INSTALL NEW FIRE HYDRANTS PRIOR TO REMOVAL OF EXISTING FIRE HYDRANTS. CONTRACTOR SHALL COORDINATE WITH THE CITY ON TURNING OFF GATE VALVES TO EXISTING HYDRANTS THAT ARE TO BE REMOVED. CONTRACTOR SHALL INSTALL A BLIND FLANGE ONCE THE EXISTING FIRE HYDRANT HAS BEEN REMOVED.



NOTICE TO DRAWING HOLDER

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REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	

N-S PROJECT NO.: 7856.001	
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SURVEYED BY: SHOWS, DEARMAN & WAITS	
DSGN: GPC	DATE: 06/2016
DRWN: GPC	DATE: 06/2016
CHKD:	DATE:
QA/QC:	DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS



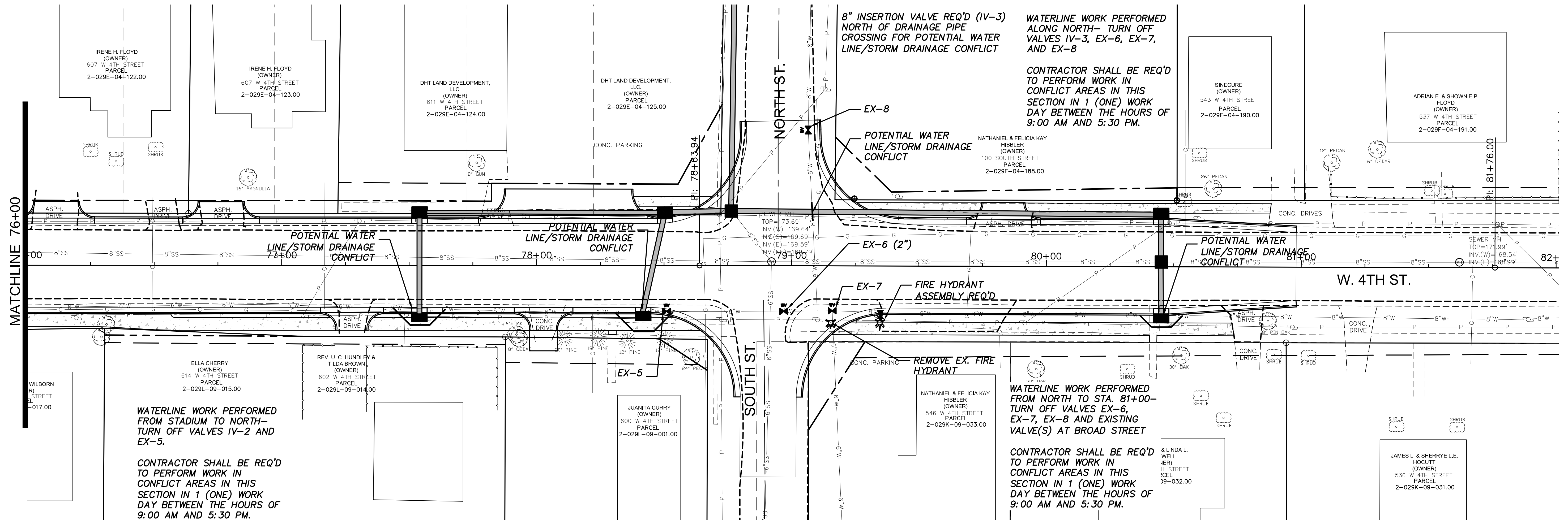
WATER PLAN
STA. 65+19 TO STA. 76+00

WORKING NUMBER:

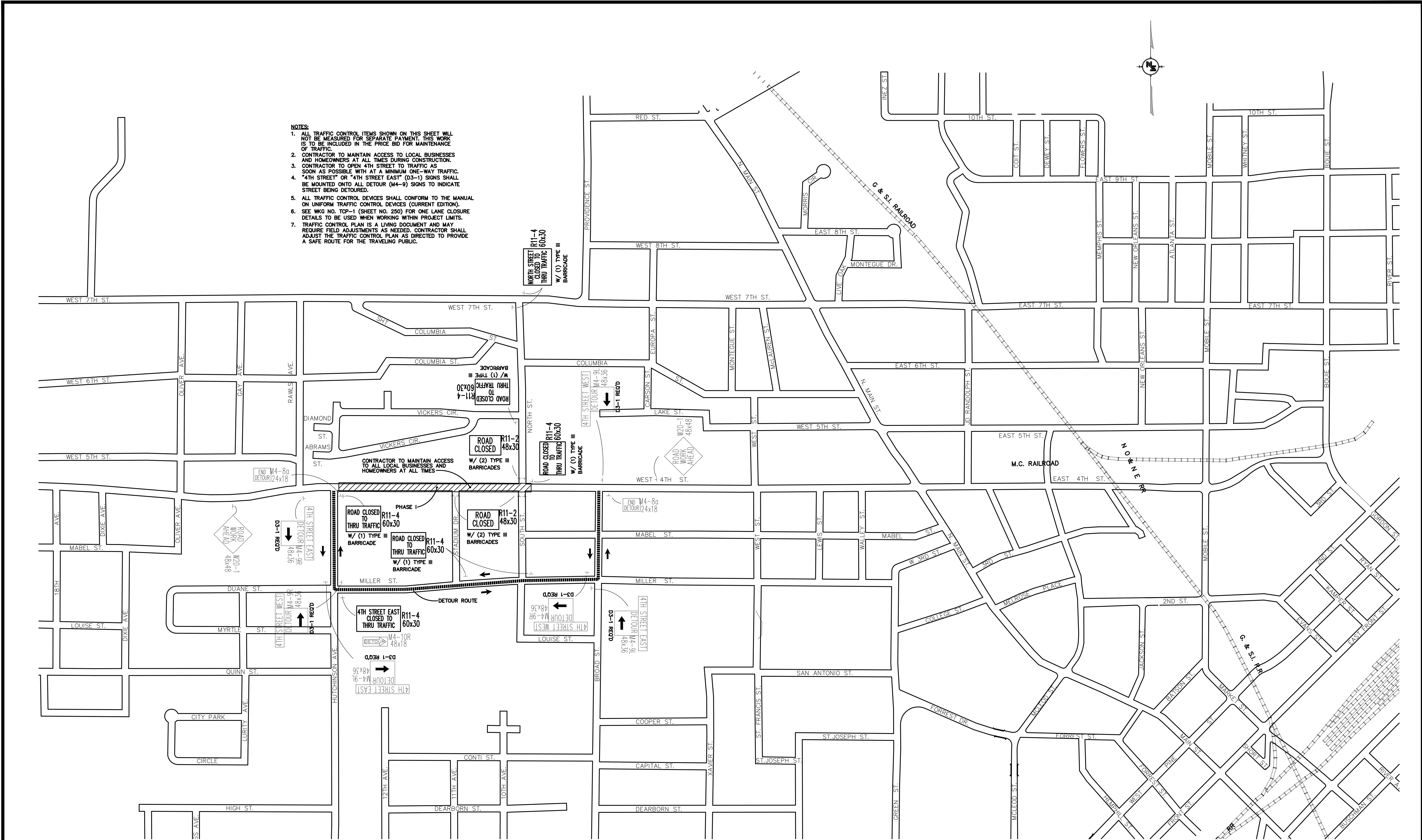
WP-1

DRAWING NUMBER:

21



NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER <i>Solutions you can build upon</i> WATER PLAN STA. 76+00 TO STA. 82+00	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001			
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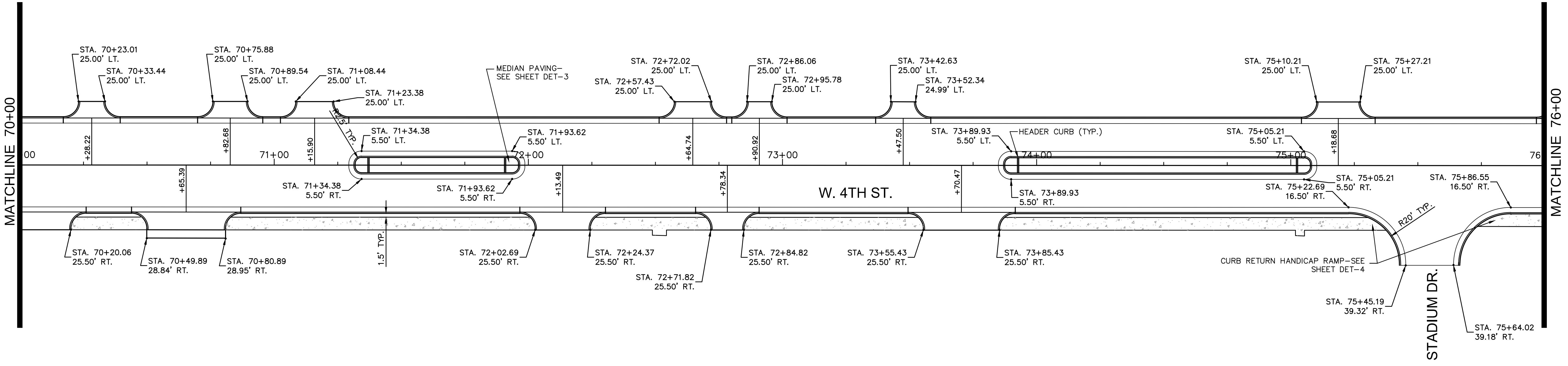
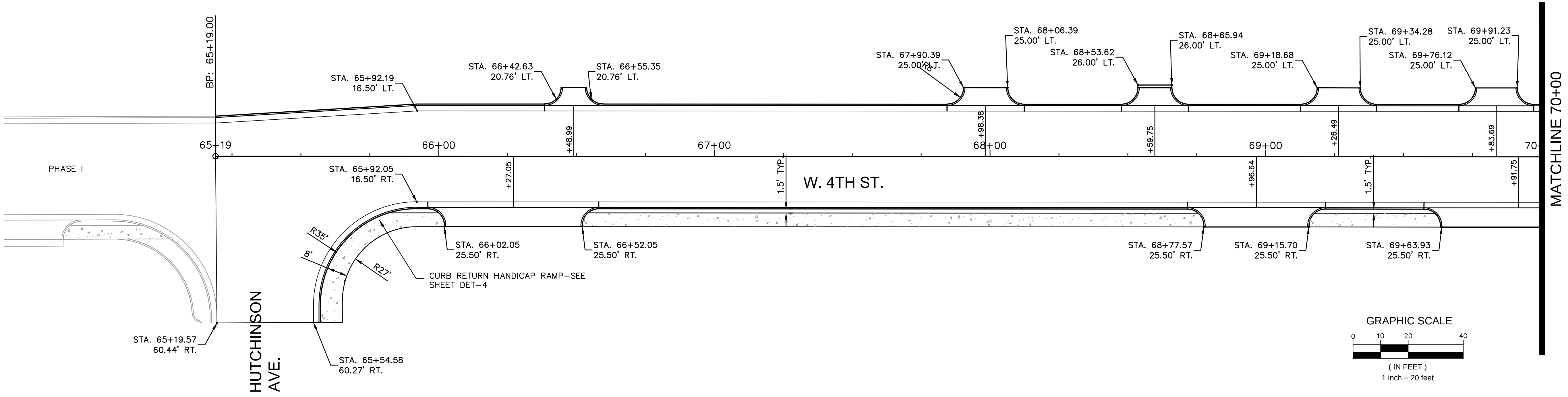


- NOTES:**
1. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
 2. CONTRACTOR TO MAINTAIN ACCESS TO LOCAL BUSINESSES AND HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION.
 3. CONTRACTOR TO OPEN 4TH STREET TO TRAFFIC AS SOON AS POSSIBLE WITH AT A MINIMUM ONE-WAY TRAFFIC.
 4. "4TH STREET" OR "4TH STREET EAST" (D3-1) SIGNS SHALL BE MOUNTED ONTO ALL DETOUR (M4-9) SIGNS TO INDICATE STREET BEING DETOURED.
 5. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
 6. SEE WKG NO. TCP-1 (SHEET NO. 250) FOR ONE LANE CLOSURE DETAILS TO BE USED WHEN WORKING WITHIN PROJECT LIMITS.
 7. TRAFFIC CONTROL PLAN IS A LIVING DOCUMENT AND MAY REQUIRE FIELD ADJUSTMENTS AS NEEDED. CONTRACTOR SHALL ADJUST THE TRAFFIC CONTROL PLAN AS DIRECTED TO PROVIDE A SAFE ROUTE FOR THE TRAVELING PUBLIC.

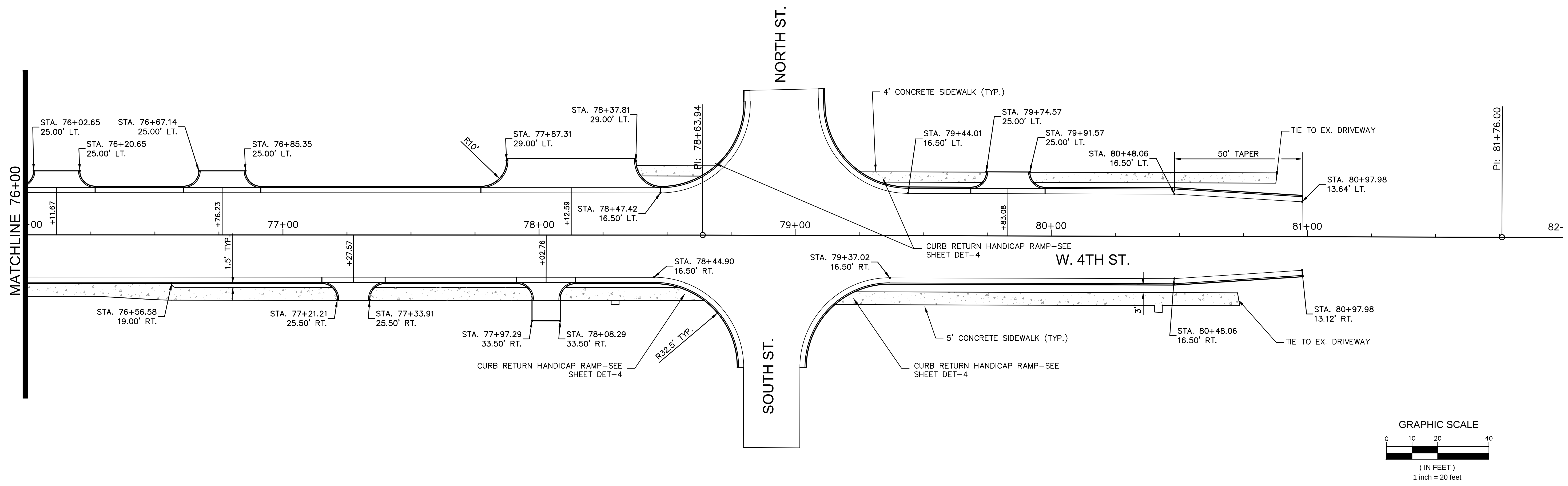
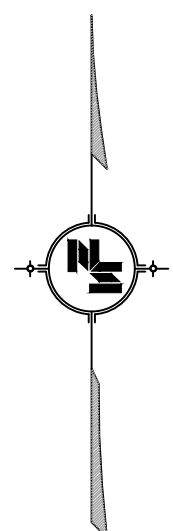
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	PHASE 1										
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				SURVEYED BY: SHOWS, DEARMAN & WAITS							
				DSGN: GPC	DATE: 06/2016						
				DRWN: GPC	DATE: 06/2016						
				CHKD:	DATE:						
				QA/QC:	DATE:						

NOTES:

1. STATION/OFFSET FOR ROADWAY ARE TAKEN TO THE EDGE OF ASPHALT. RADII FOR ROADWAY ARE TAKEN TO THE BACK OF CURB.
2. RADII, STATION/OFFSETS FOR DRIVEWAYS ARE TAKEN TO BACK OF CURB AND EDGE OF DRIVEWAY.
3. SEE SHEET SDCCR-1 FOR CURB CUT RAMP DETAILS.
4. ALL DRIVEWAY RADII ARE 6' UNLESS OTHERWISE NOTED.
5. LINEAR DIMENSIONS FOR SIDEWALK ARE TAKEN FROM THE BACK OF THE CURB TO THE EDGE OF THE SIDEWALK.
6. STATION/OFFSETS FOR MEDIAN ISLANDS ARE TAKEN TO EDGE OF PAVEMENT.
7. RADII FOR MEDIAN ISLANDS ARE TAKEN TO THE BACK OF CURB.



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	STA. 65+19 TO STA. 76+00											
	WORKING NUMBER:		DRAWING NUMBER:									
	GEO-1		24									
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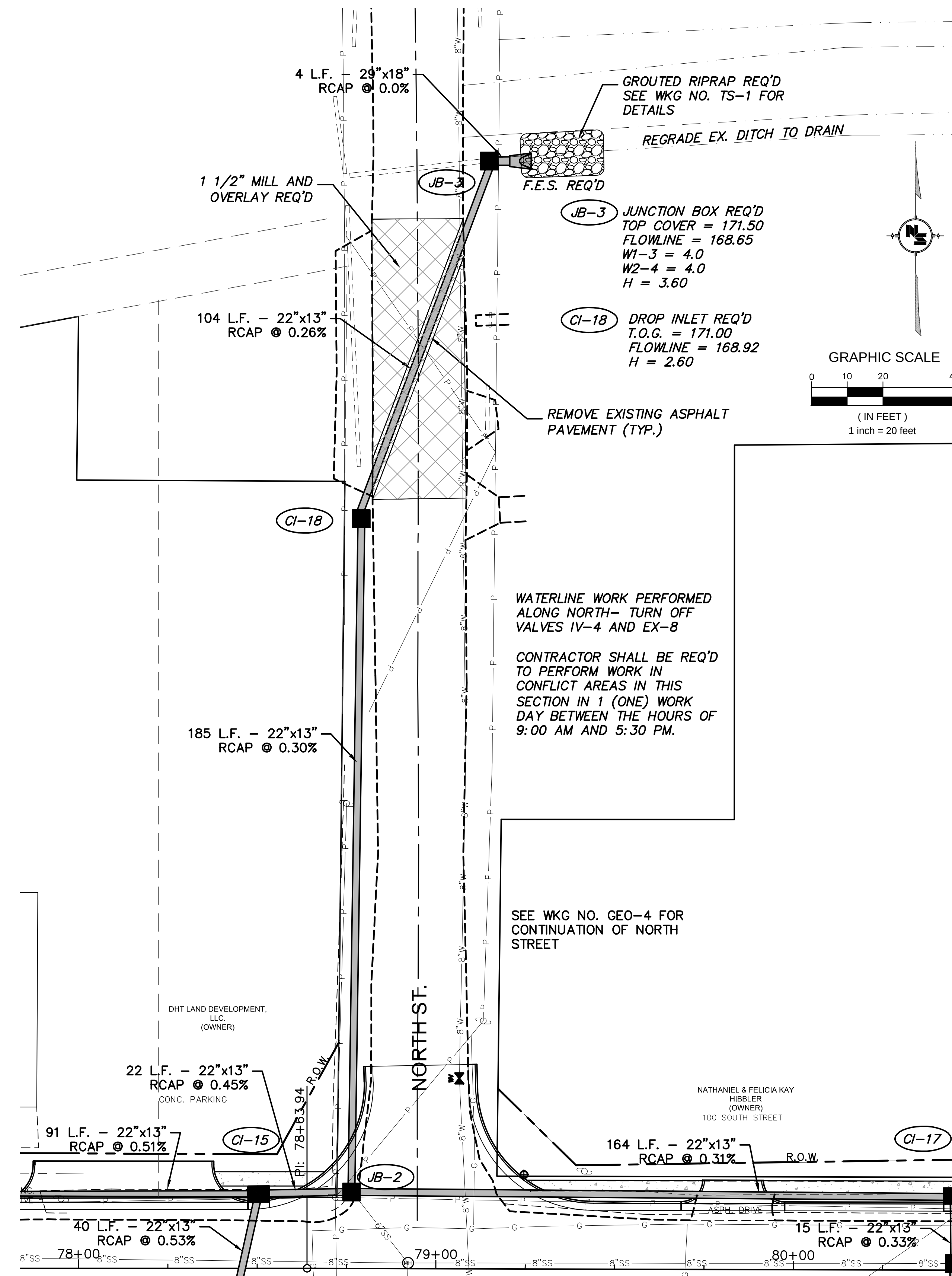
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				DSGN: GPC	DATE: 06/2016
				DRWN: GPC	DATE: 06/2016
				CHKD:	DATE:
				QA/QC:	DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS



GEOMETRIC LAYOUT STA. 76+00 TO STA. 88+00	
WORKING NUMBER: GEO-2	DRAWING NUMBER: 25



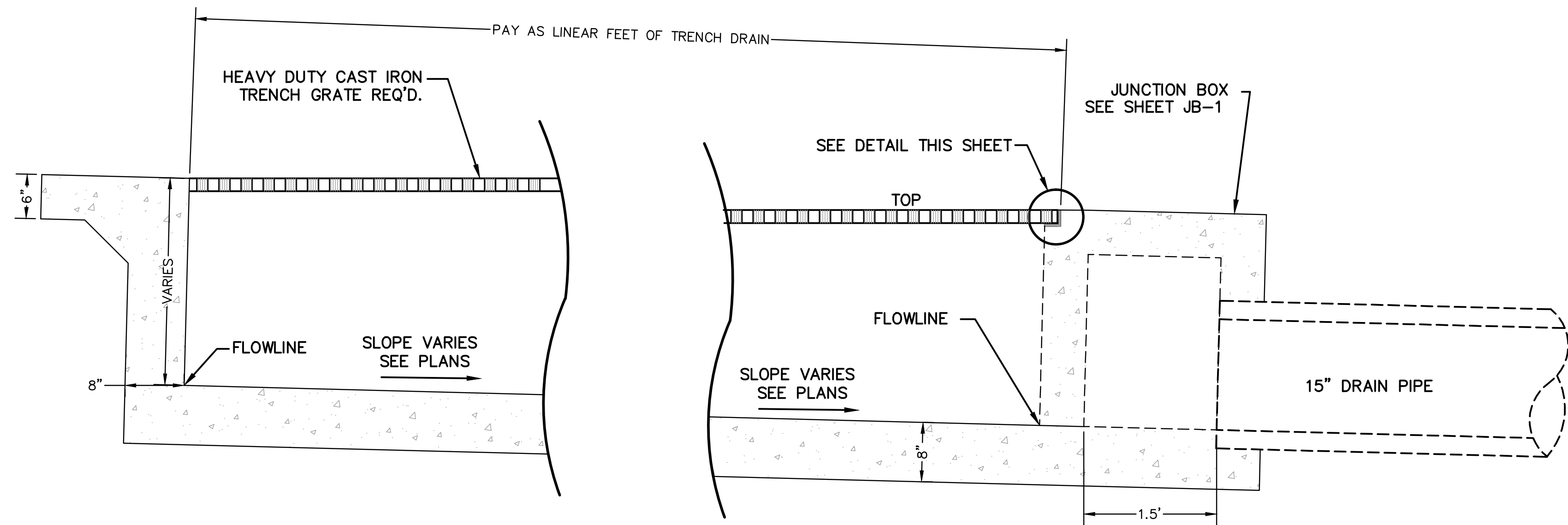
NORTH STREET CONTINUATION

NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	NORTH STREET DRAINAGE	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				WORKING NUMBER: GEO-3	DRAWING NUMBER: 26
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					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				

VEGETATION SCHEDULE						
EROSION CONTROL ITEMS		SEASONAL APPLICATIONS—DATES & RATES				REQUIREMENTS
		SPRING & SUMMER		FALL & WINTER		
PAY ITEM NO.	ITEMS	RATES	DATES	RATES	DATES	
212—B001	STANDARD GROUND PREPARATION (SOD AREA)	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ.YD.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR PLANTINGS, AS APPLICABLE.
907—213—A001	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.
213—B003	COMBINATION FERTILIZER (8—24—24)	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.
216—B001	SOLID SODDING, CENTIPEDE	SQ.YD.	MARCH 1 TO DECEMBER 1	SQ.YD.	SEPTEMBER 1 TO MARCH 1	APPLY TO ALL DISTURBED AREAS
219—A001	WATERING	20 GALS/S.Y. (EST.)	MARCH 1 TO SEPTEMBER 1	20 GALS/S.Y. (EST.)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED
220—A001	INSECT PEST CONTROL	PER ACRE	_____	PER ACRE	_____	SEE SECTION 220.

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 TESTS OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS. NO EXTRA PAYMENT WILL BE MADE FOR ALL FERTILIZERS ACCEPTABLY APPLIED AS AN ADDITIONAL APPLICATION(S).

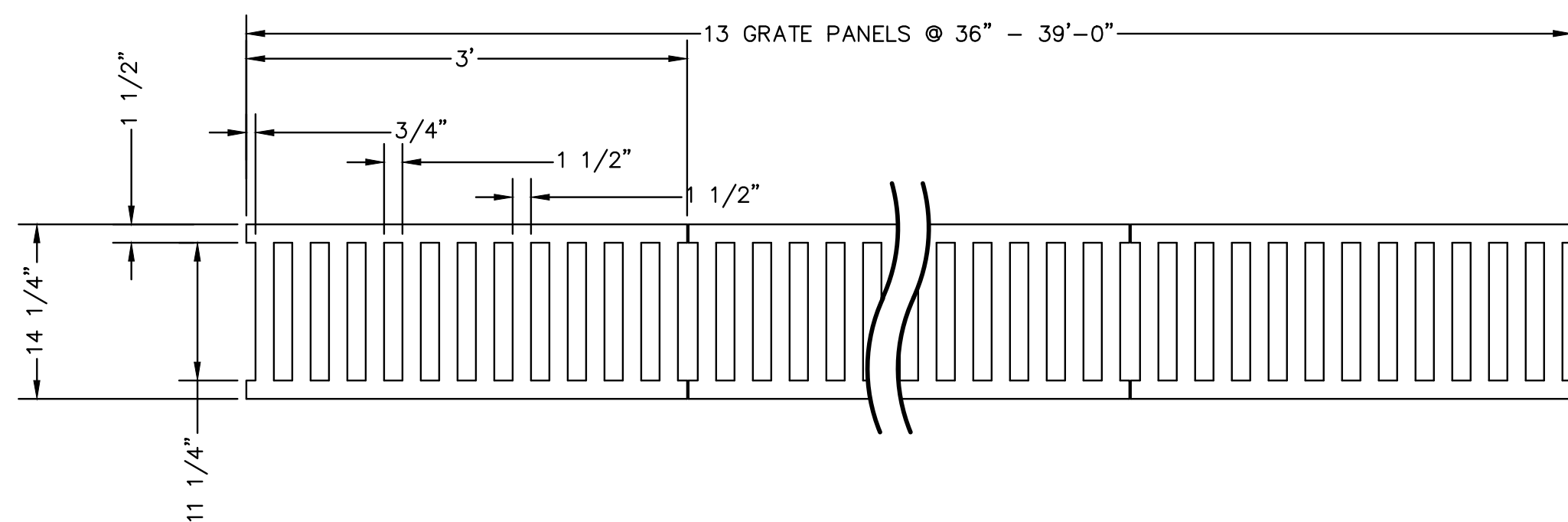
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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001						
					FILENAME: VEG SCHED.DWG						
					SCALE: N.T.S.						
					SURVEYED BY: SHOWS, DEARMAN & WAITS						
					DSGN: GPC	DATE: 06/2016					
					DRWN: GPC	DATE: 06/2016					
					CHKD:	DATE:					
					QA/QC:	DATE:					
								WORKING NUMBER: VS-1		DRAWING NUMBER: 27	



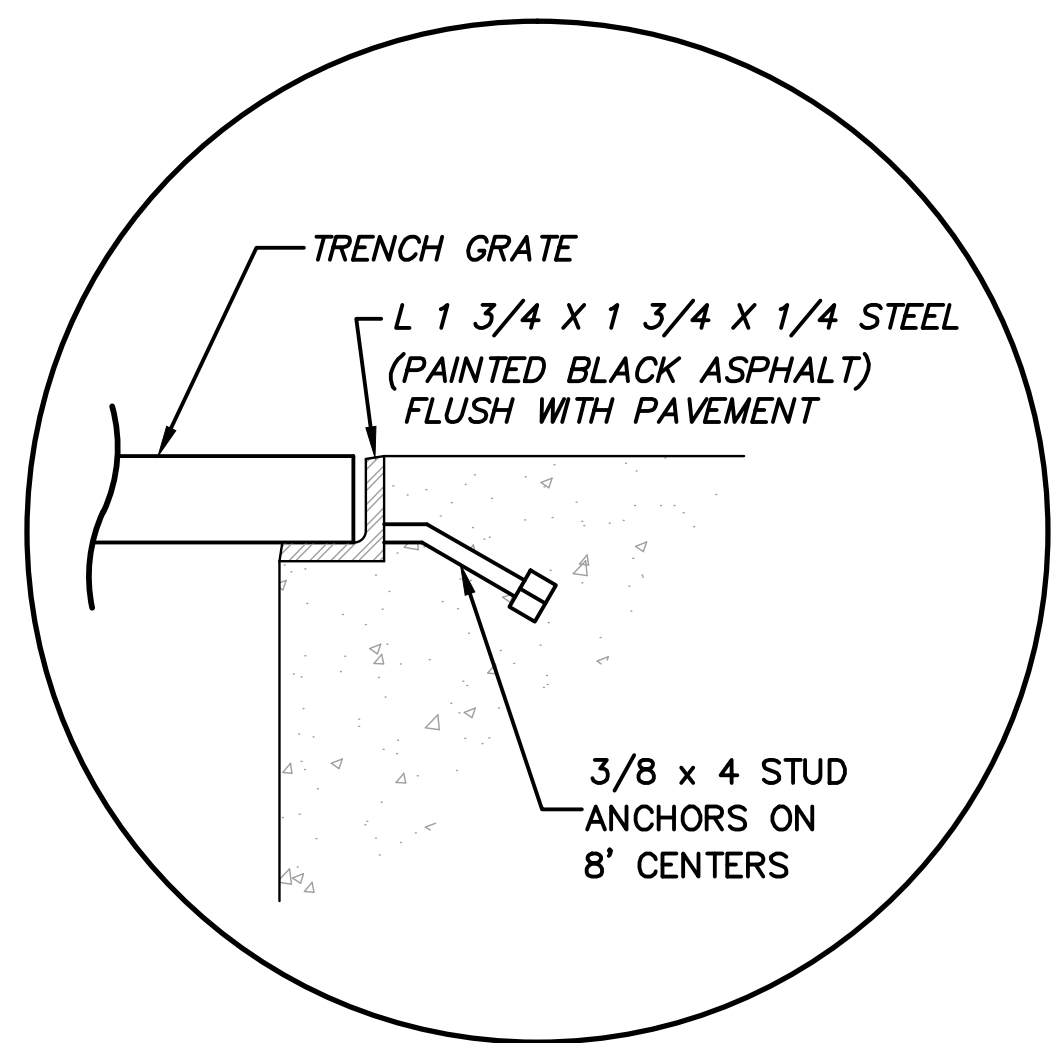
TRENCH DRAIN PROFILE
NOT TO SCALE

NOTES:

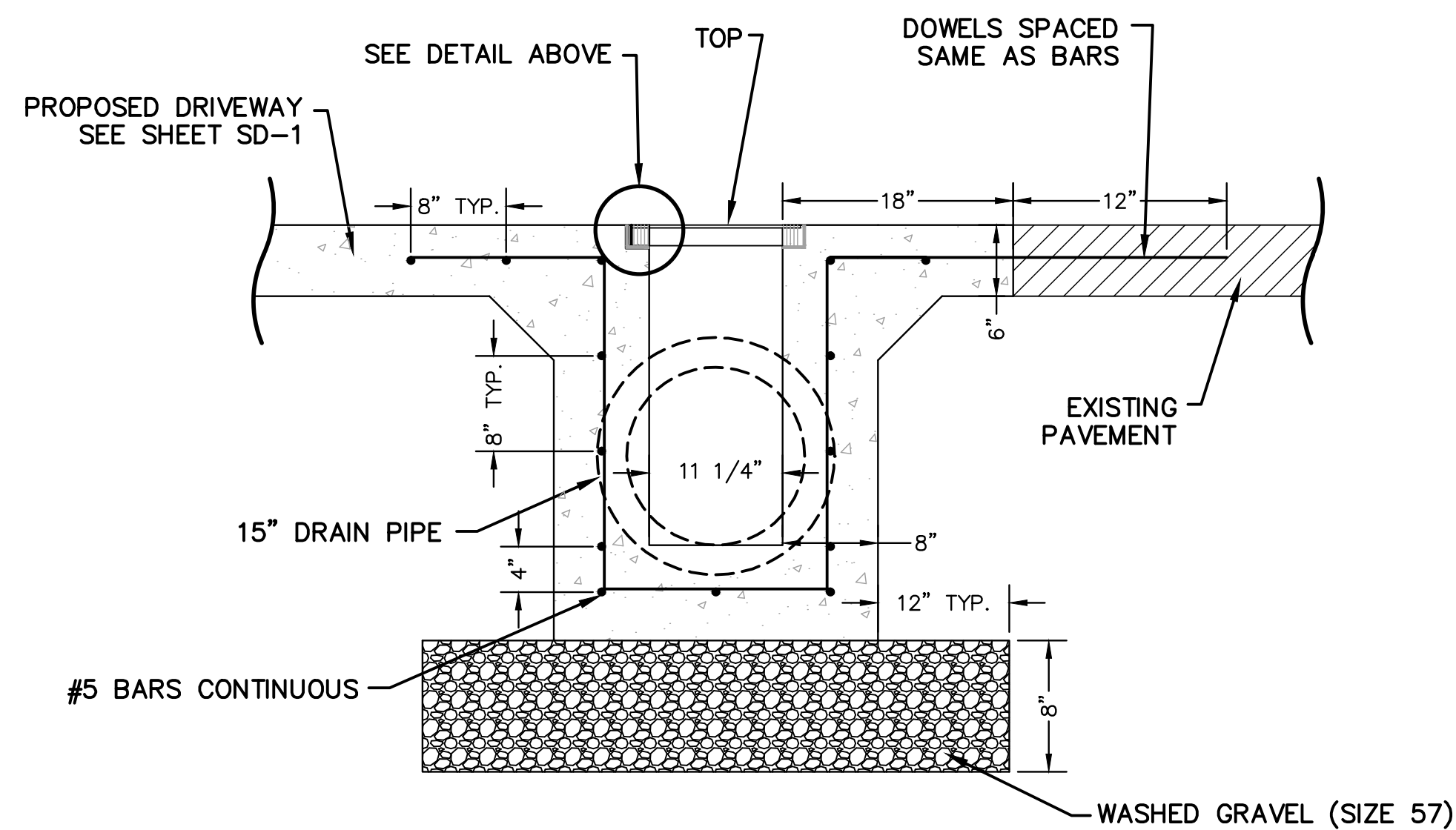
1. CONCRETE FOR TRENCH DRAIN SHALL BE CLASS "B" CONCRETE AND SHALL MEET THE REQUIREMENTS OF SECTION 804. REINFORCING STEEL SHALL BE SIZE #5 BARS AND MEET THE REQUIREMENTS OF SECTION 602.
2. SEE SHEET JB-1 FOR REINFORCING STEEL LAYOUT FOR JUNCTION BOX. JUNCTION BOX SHALL BE PAID FOR UNDER TRENCH DRAINS.
3. ALL CONCRETE SHALL BE PLACED IN A MONOLITHIC POUR BETWEEN STRUCTURES AND WITH ADJOINING DRIVEWAY PAVEMENT.
4. BEDDING SHALL BE SIZE 57 WASHED GRAVEL AND MEET THE REQUIREMENTS OF SECTION 703.03.
5. TRENCH DRAINS SHALL BE MEASURED PER LINEAR FOOT AND SHALL INCLUDE FABRICATING, FURNISHING, AND INSTALLING THE TRENCH DRAIN COMPONENTS, FURNISHING AND INSTALLING CONNECTIONS TO OTHER STRUCTURES, ALL CONCRETE, REINFORCEMENT, EXCAVATION, BACKFILL, BEDDING, SATISFACTORY DISPOSAL OF SURPLUS MATERIALS, AND ALL EQUIPMENT, TOOLS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.



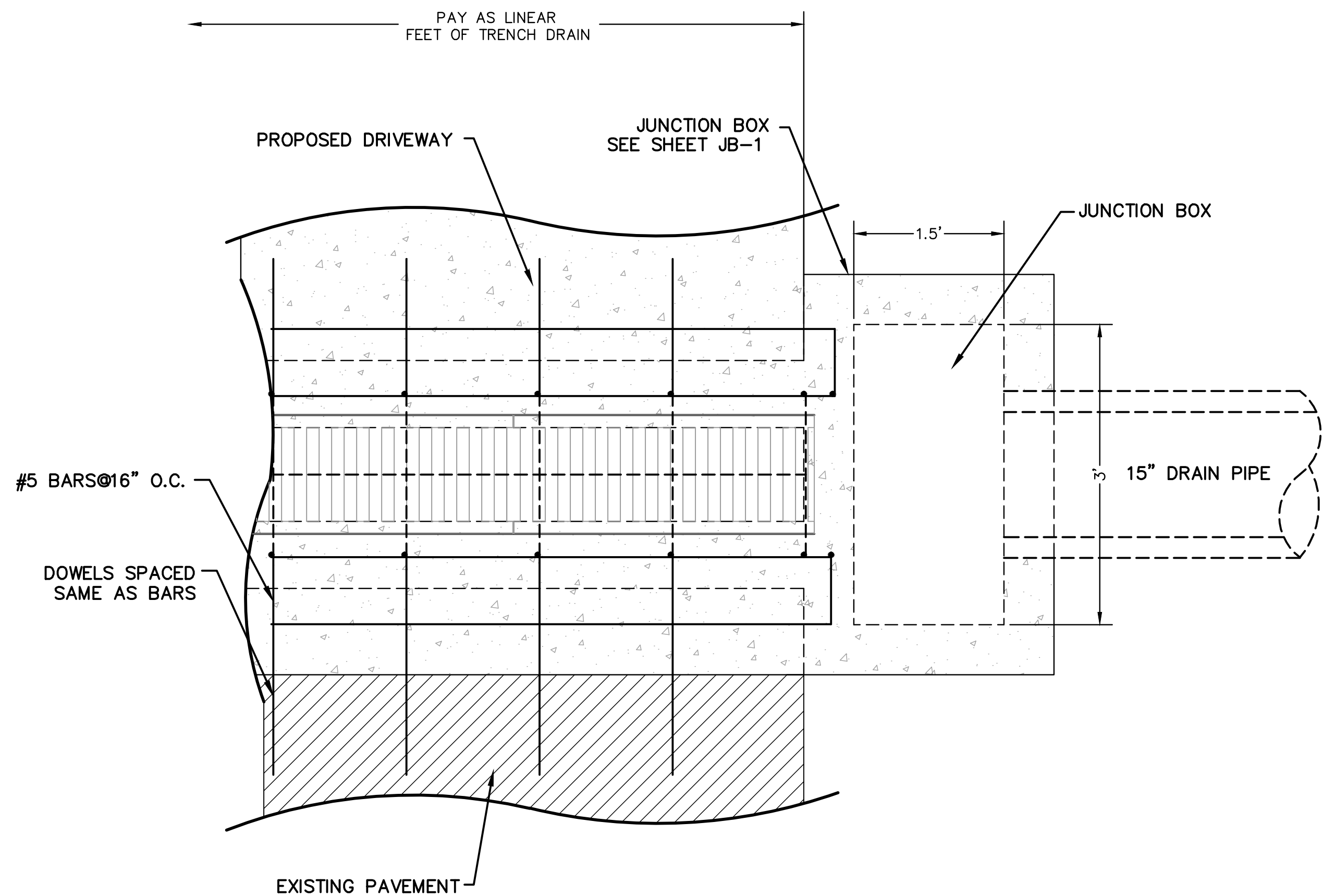
TRENCH DRAIN GRATE PLAN VIEW
NOT TO SCALE



TRENCH GRATE FRAME DETAIL
NOT TO SCALE

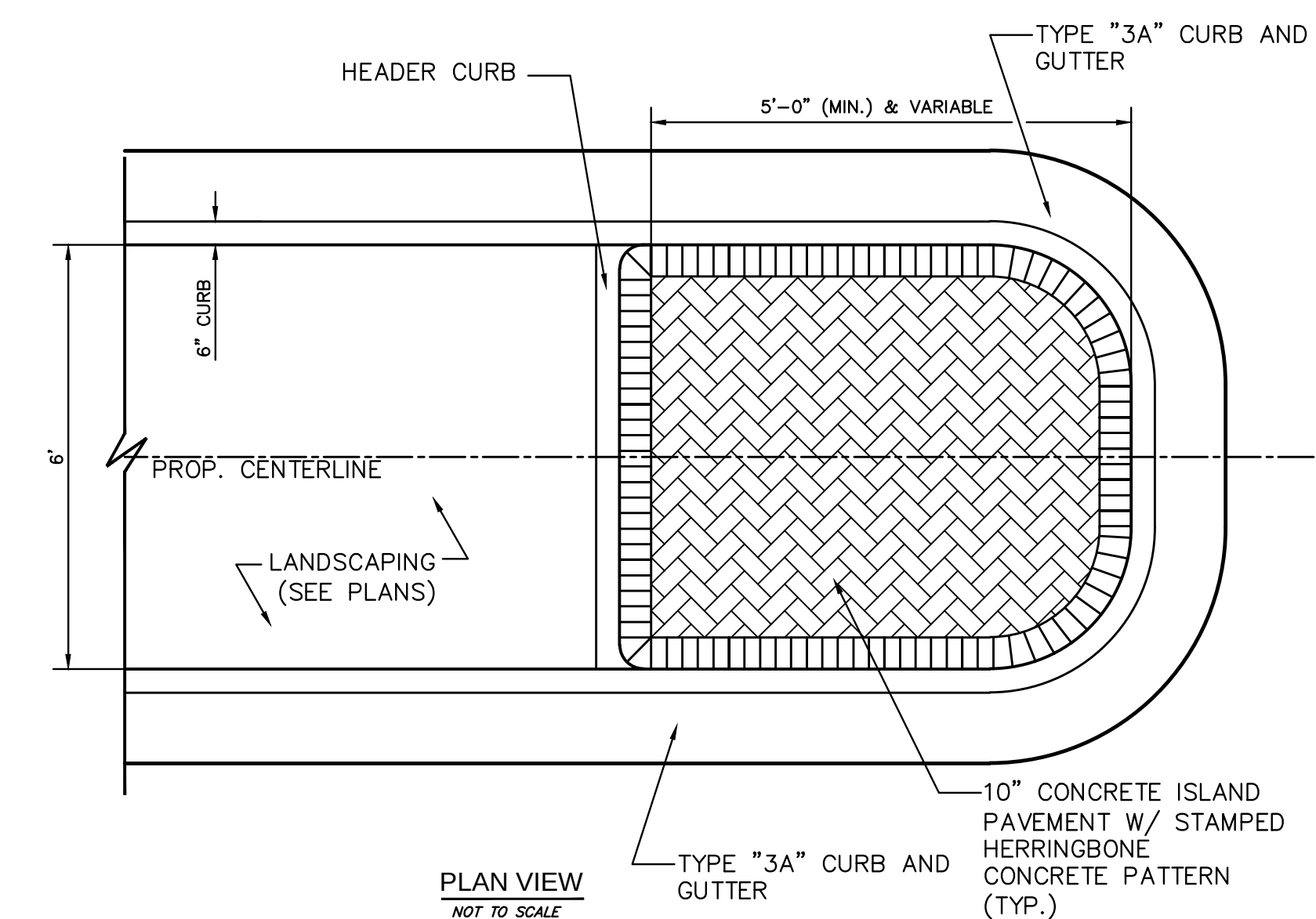
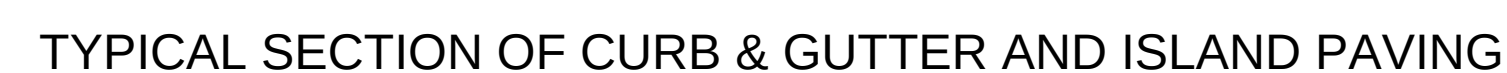


TRENCH DRAIN SECTION VIEW
NOT TO SCALE



TRENCH DRAIN PLAN VIEW
NOT TO SCALE

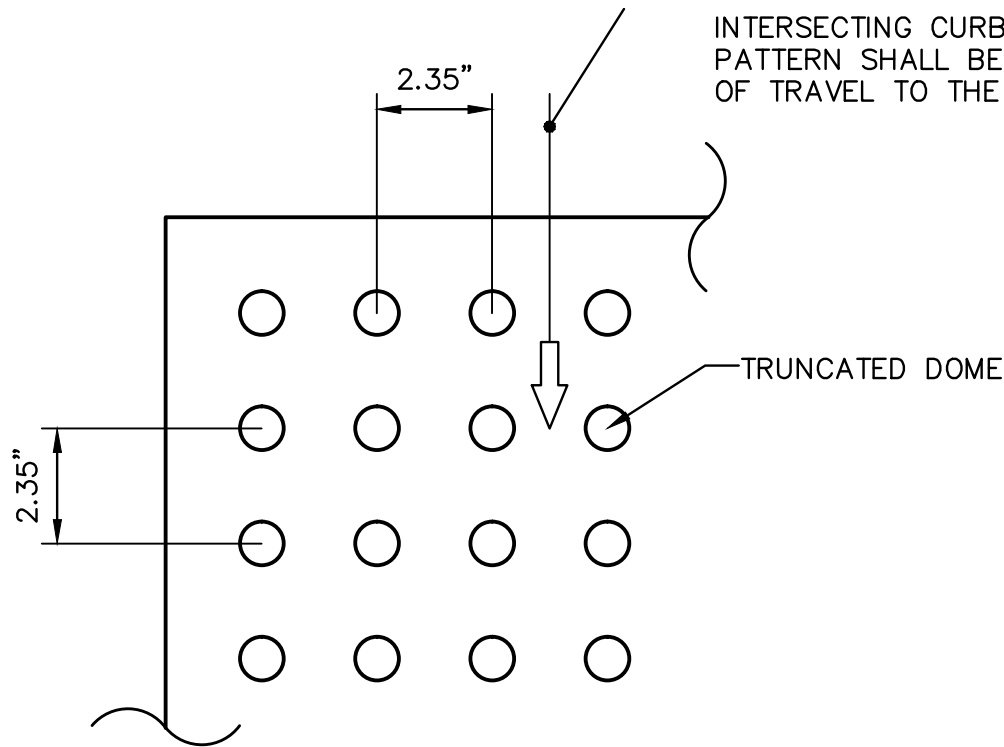
NOTICE TO DRAWING HOLDER NEEL-SCHAFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS			DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS			DRAINAGE DETAILS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: Drain_Det.DWG					
					SCALE: N.T.S.					
					SURVEYED BY: SHOWS, DEARMAN & WAITS				WORKING NUMBER:	DRAWING NUMBER:
					DGN: GPC DATE: 06/2016				DET-2	29
					DRWN: GPC DATE: 06/2016					
					CHKD: DATE:					
					QA/QC: DATE:					



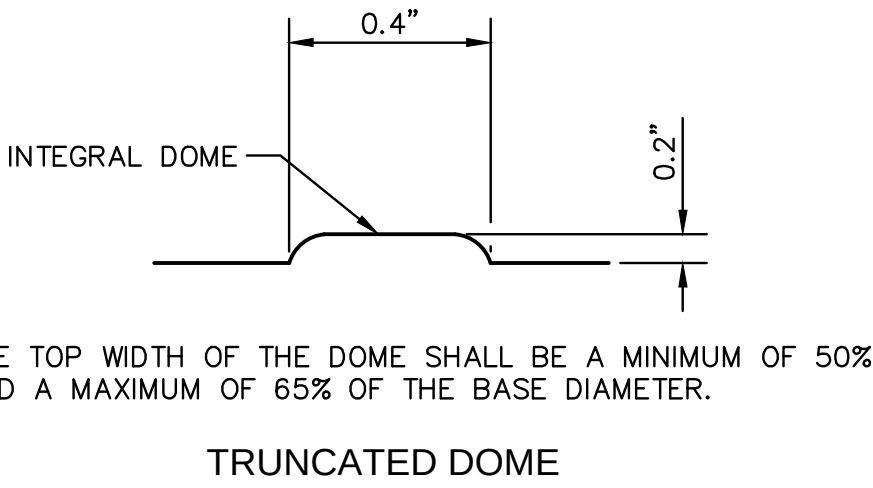
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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				
					FILENAME: Drain_Det.DWG				
					SCALE: N.T.S.				
					SURVEYED BY: SHOWS, DEARMAN & WAITS				
					DSGN: GPC	DATE: 06/2016			
					DRWN: GPC	DATE: 06/2016			
					CHKD:	DATE:			
					QA/QC:	DATE:			
								WORKING NUMBER:	DRAWING NUMBER:
								DET-3	30

NOTES:

1. LOCATION AND TYPE OF CURB RAMP SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED.
2. THE CURB RAMP SHALL BE PAID AS SIDEWALK.
3. ALL RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1
4. DETECTABLE WARNINGS ARE REQ'D AT ALL STREET CROSSINGS.
5. TRUNCATED DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL ON THE RAMP TO ALLOW WHEELS TO ROLL BETWEEN DOMES.
6. DETECTABLE WARNINGS SHALL BE INCLUDED AT EVERY COMMERCIAL DRIVEWAY CROSSING. DETECTABLE WARNINGS ARE NOT REQUIRED FOR RESIDENTIAL DRIVEWAYS.

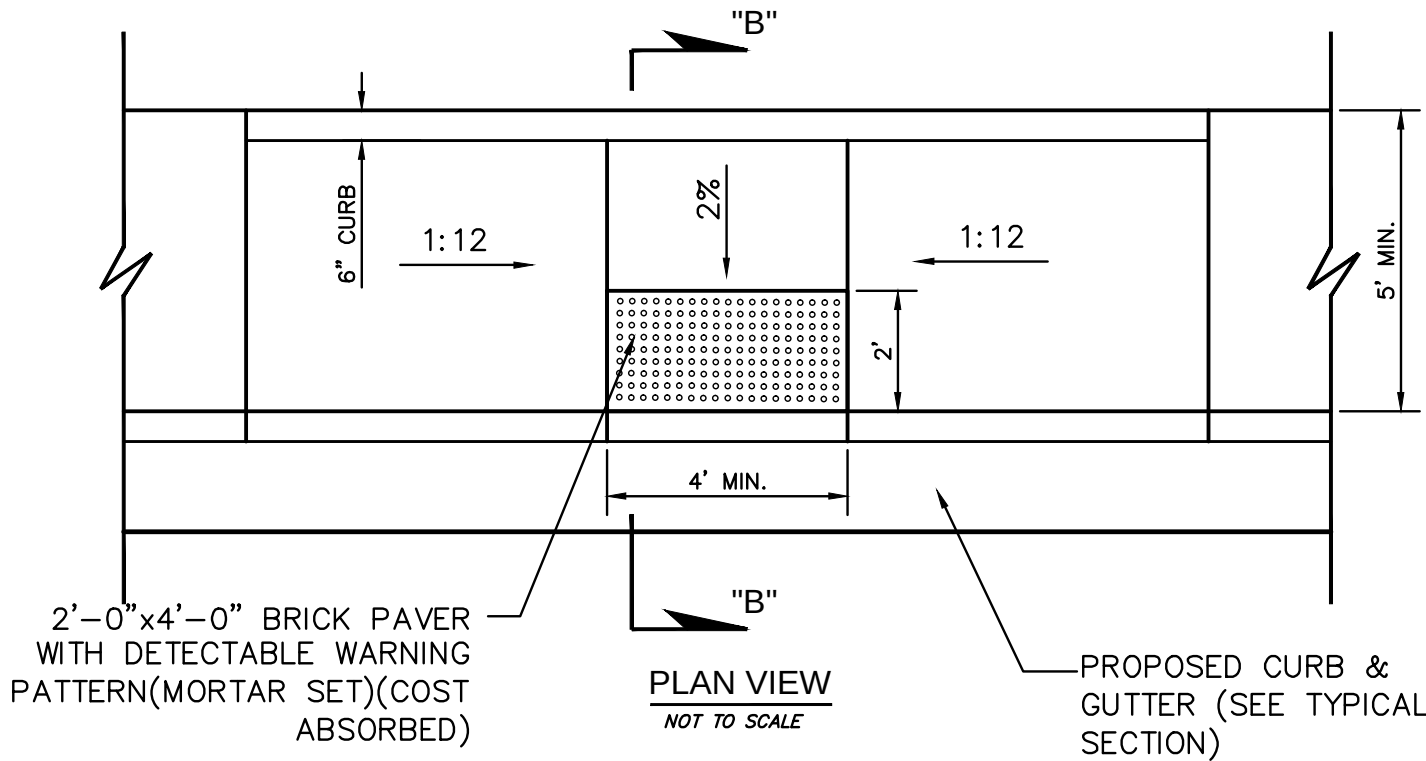


PLAN VIEW

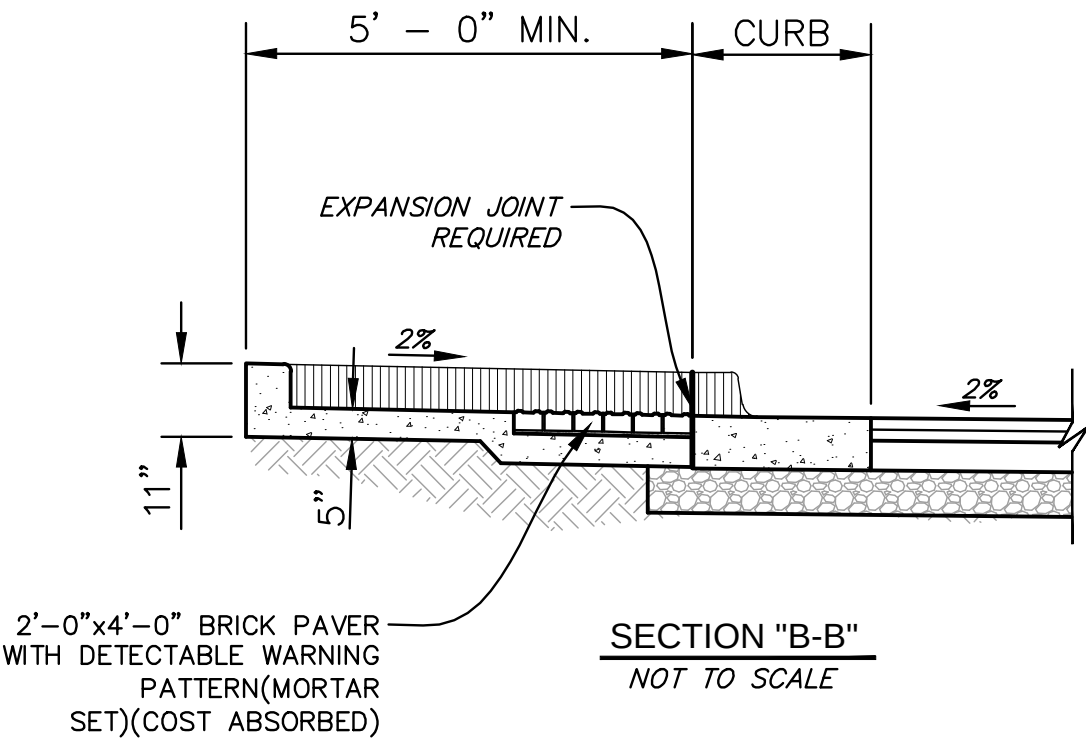


ALL SIDEWALK CURB RAMPs SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 2 FEET (24 INCHES).

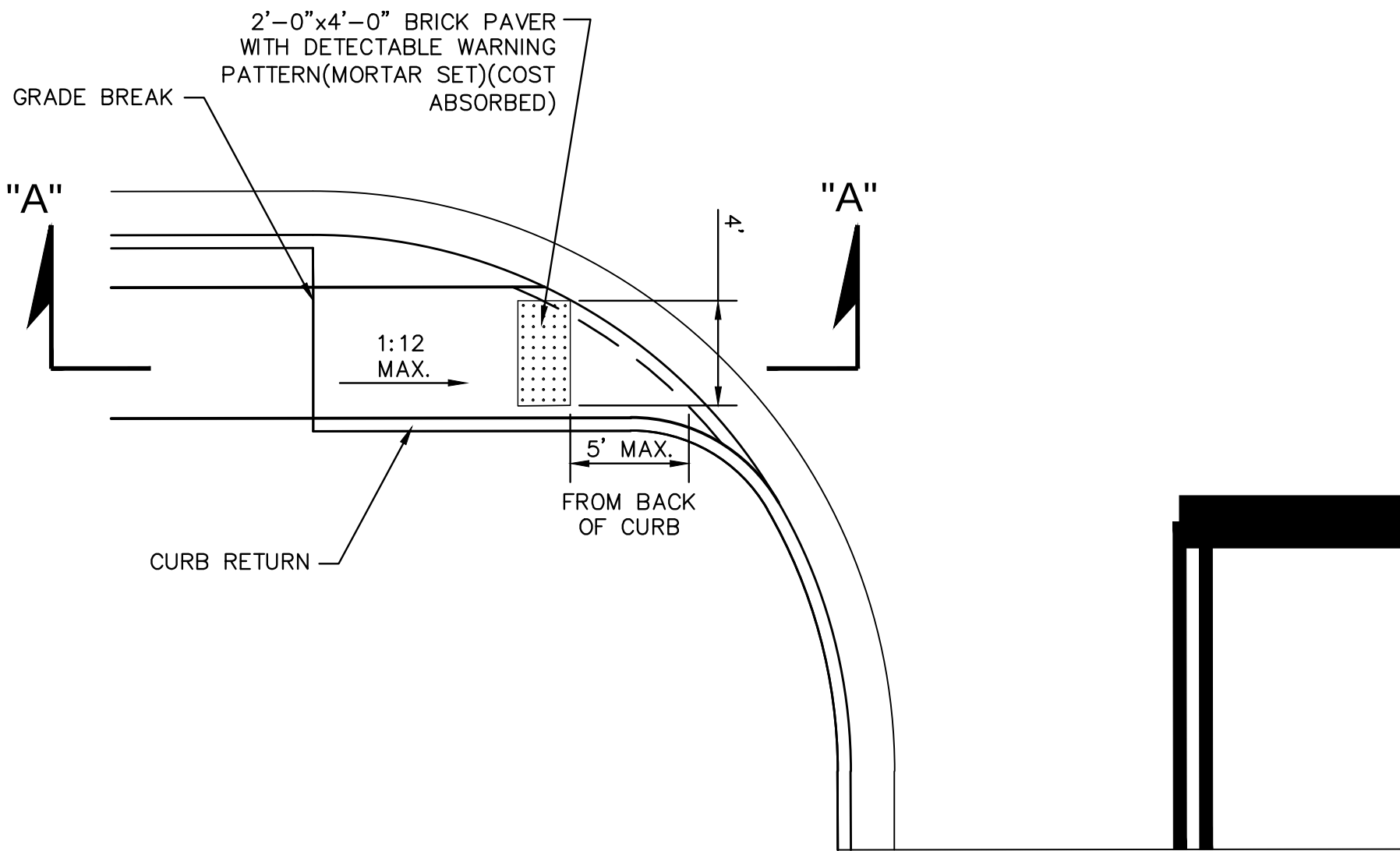
CURB RAMP DETECTABLE WARNING DETAIL
N.T.S.



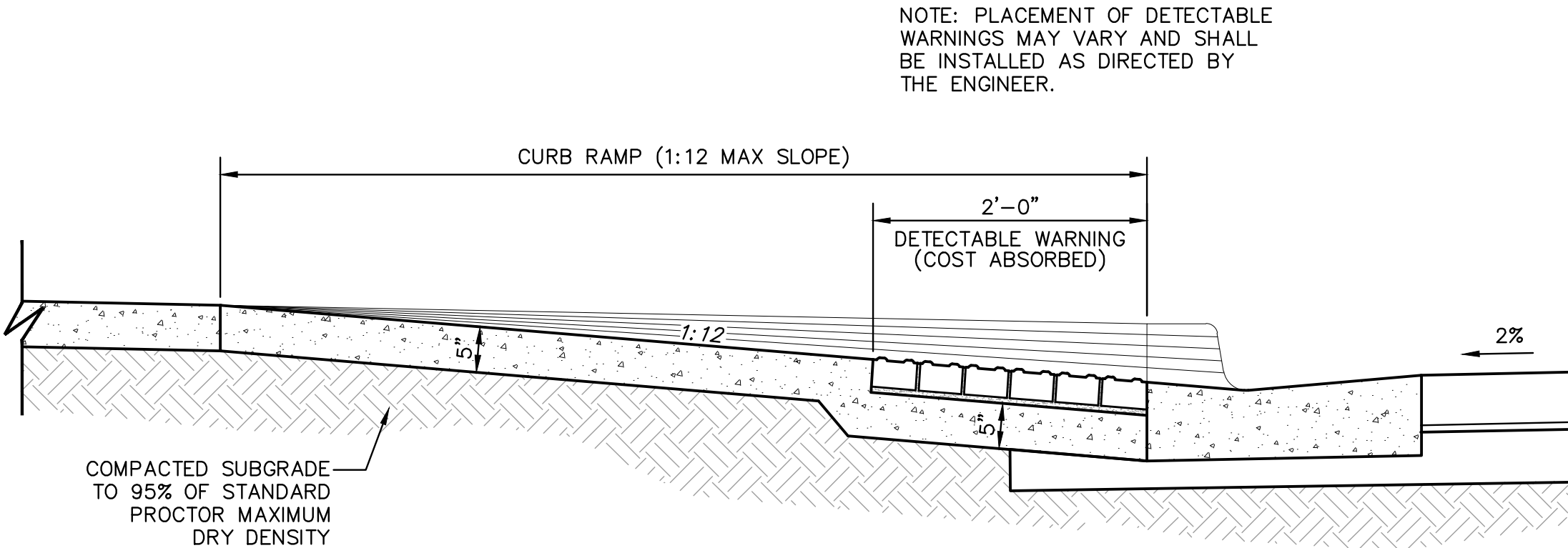
TYPICAL PARALLEL TYPE CURB CUT RAMP DETAILS
NOT TO SCALE



SECTION "B-B"
NOT TO SCALE



TYPICAL CURB-RETURN HANDICAP RAMP DETAIL
NOT TO SCALE



SECTION "A-A"
N.T.S.

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FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

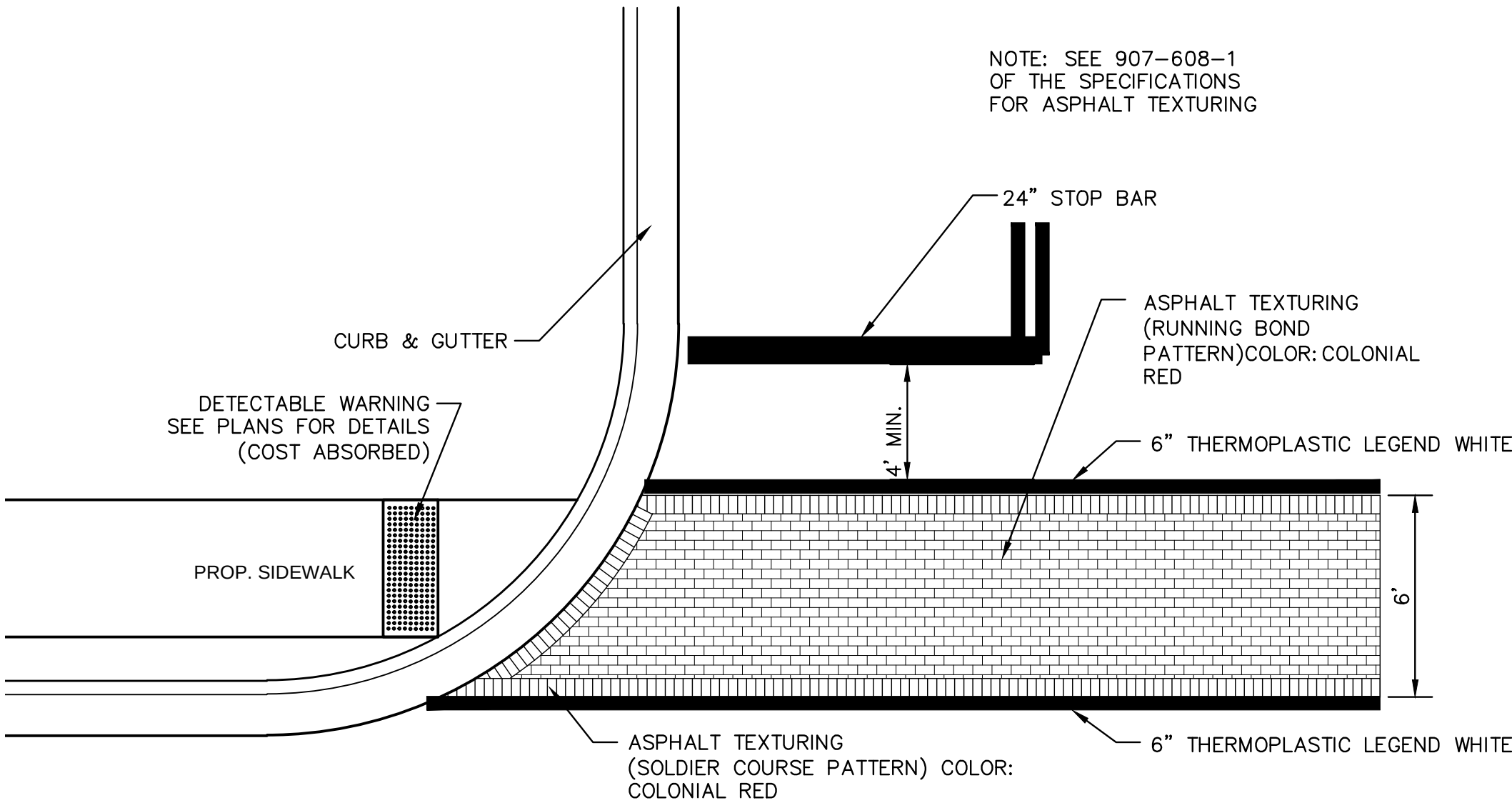
CITY OF HATTIESBURG
FORREST COUNTY, MS



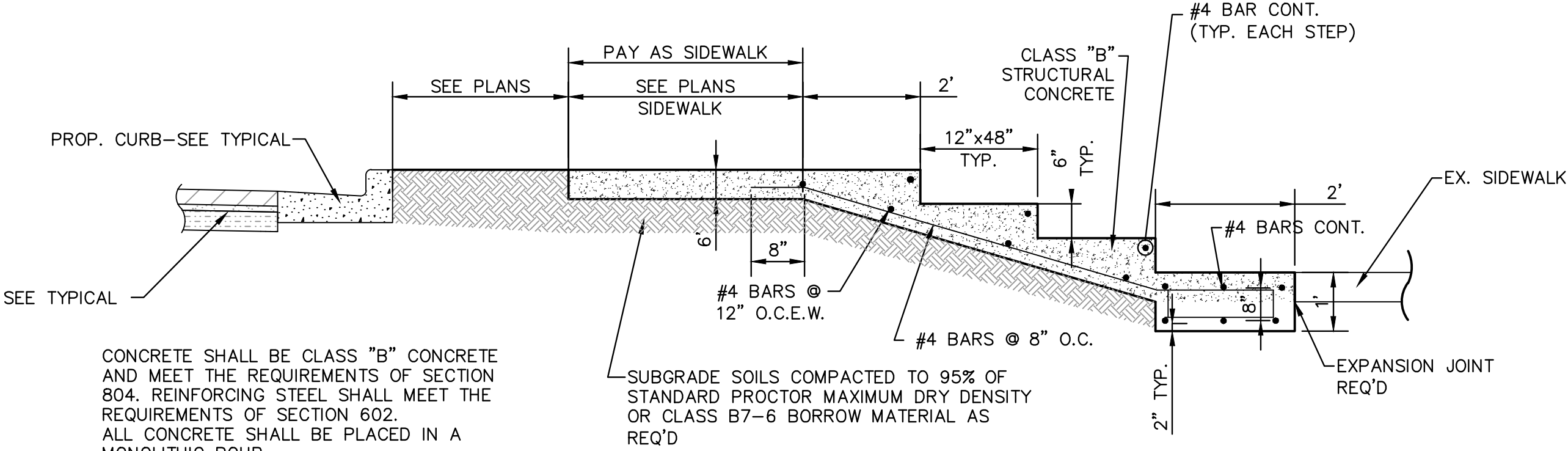
MISCELLANEOUS DETAILS

WORKING NUMBER:
DET-4

DRAWING NUMBER:
31



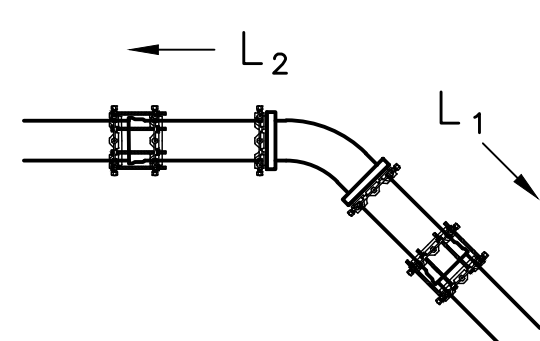
TYPICAL CROSSWALK STRIPING
N.T.S.



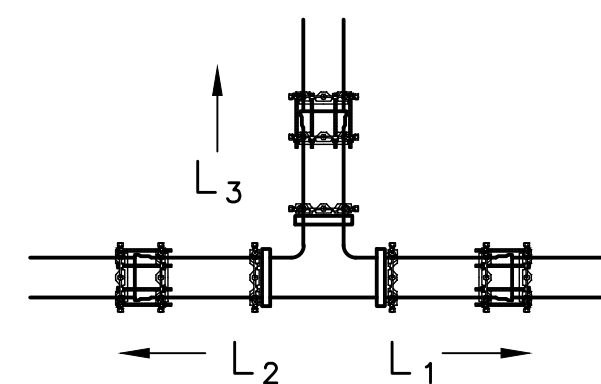
STAIR DETAILS
NOT TO SCALE

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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001				WORKING NUMBER: DET-5	DRAWING NUMBER: 32
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					SCALE: N.T.S.					
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					DRWN: GPC DATE: 06/2016					
					CHKD: DATE:					
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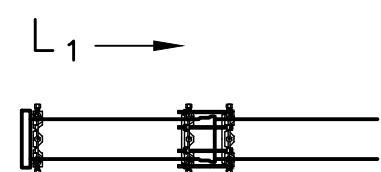
NOTE:
JOINT RESTRAINTS REQUIRED ON ALL JOINTS.



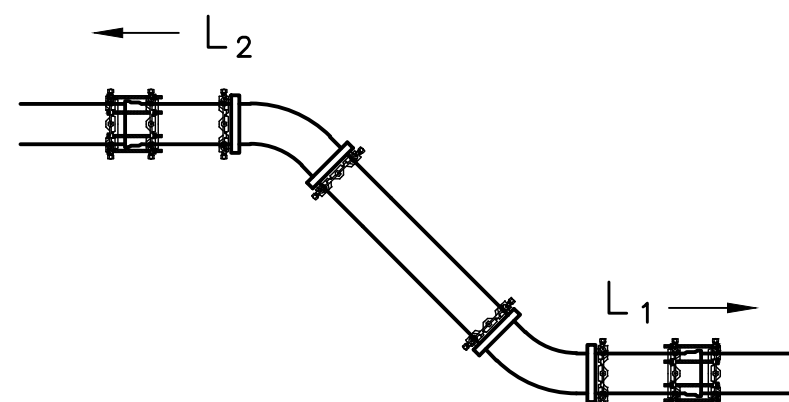
HORIZONTAL BEND



TEE CONNECTION



DEAD END



VERTICAL BEND

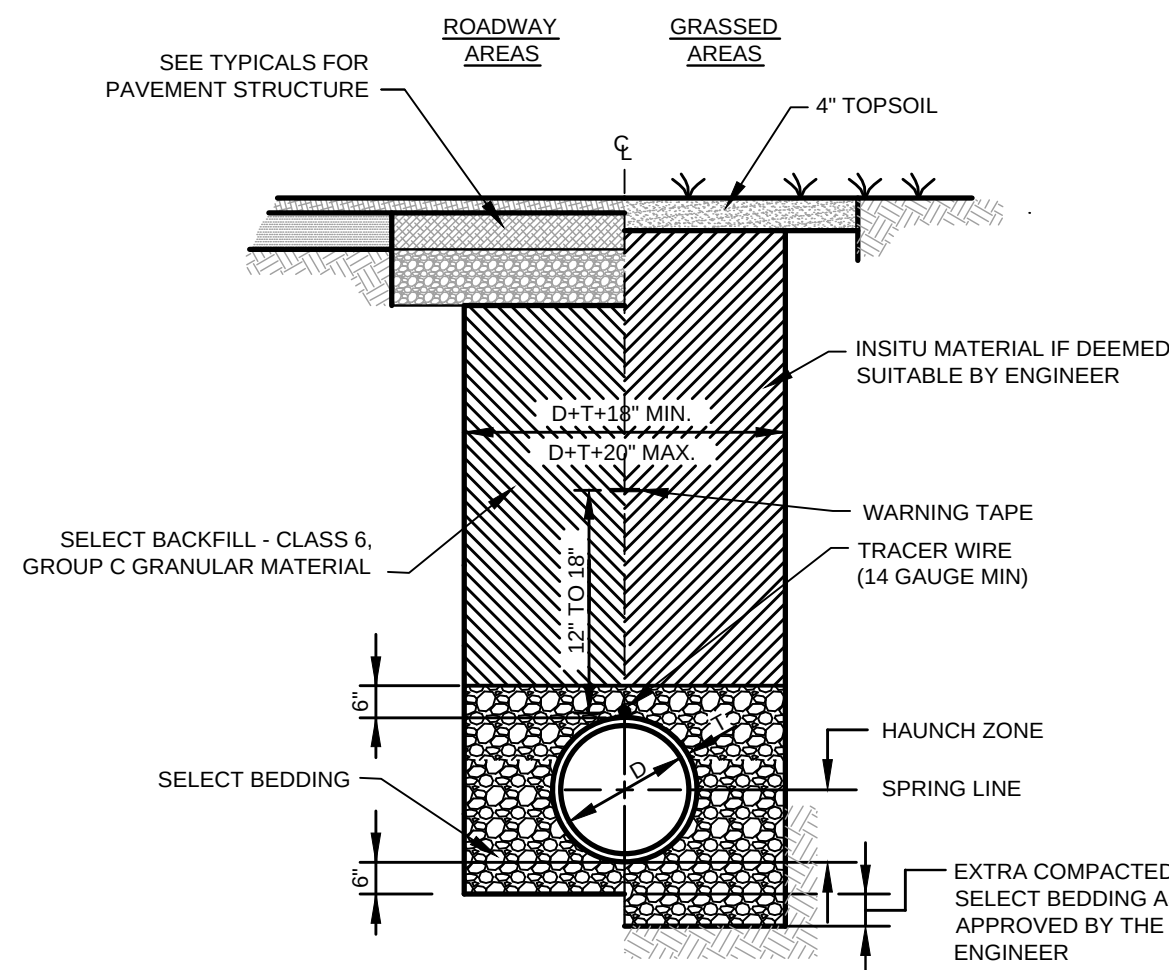
RESTRAINING LENGTHS FOR JOINT RESTRAINTS									
	12" PIPE			8" PIPE			6" PIPE		
	L ₁	L ₂	L ₃	L ₁	L ₂	L ₃	L ₁	L ₂	L ₃
HORIZONTAL RESTRAINTS									
90° ELBOW	45'	45'		33'	33'		25'	25'	
45° ELBOW	19'	19'		14'	14'		11'	11'	
22 1/2° ELBOW	9'	9'		7'	7'		5'	5'	
11 1/4° ELBOW	5'	5'		4'	4'		3'	3'	
DEAD END	102'			72'			55'		
TEE 6" BRANCH	3'	3'	27'	3'	3'	38'	3'	3'	43'
8" BRANCH	3'	3'	49'	3'	3'	59'	3'	3'	64'
12" BRANCH	3'	3'	87'	3'	3'	96'	3'	3'	100'
VERTICAL RESTRAINTS									
45° ELBOW	10'	43'		7'	30'		6'	23'	
22 1/2° ELBOW	5'	21'		4'	15'		3'	11'	
11 1/4° ELBOW	3'	11'		2'	8'		2'	6'	

NOTE: MINIMUM RESTRAINED LENGTHS AS SHOWN ARE BASED ON THE FOLLOWING CONDITIONS,
PIPE: CLASS DR 18 C-900 PVC, SOIL TYPE: SILTY SAND, TEST PRESSURE: 150 PSI, SAFETY
FACTOR: 1.5 TO 1, DEPTH OF BURY: 3 FT. TRENCH TYPE: AS SPECIFIED IN THE CONTRACT
DRAWINGS FOR PVC WATER MAIN. TEE FITTING PIPE JOINT MINIMUM LENGTH: 3 FEET. IF
THESE ARE NOT THE CONDITIONS ENCOUNTERED IN THE FIELD, CONTRACTOR SHOULD
CONTACT PRODUCT REPRESENTATIVE FOR THE REQUIRED RESTRAINT LENGTHS.

WATER MAIN JOINT RESTRAINTS

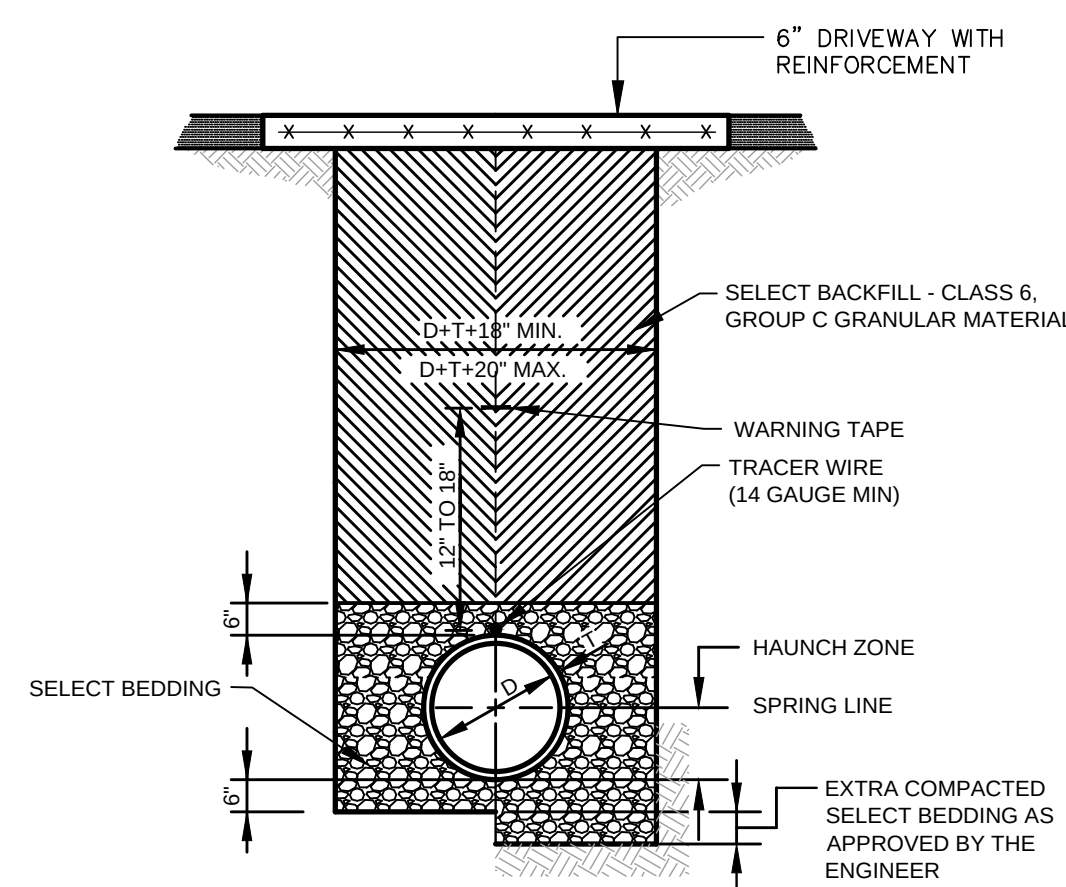
NOT TO SCALE

NOTE:
SELECT BIDDING SHALL BE SIZE
67 WASHED GRAVEL



TYPICAL TRENCH DETAIL FOR UTILITY LINE

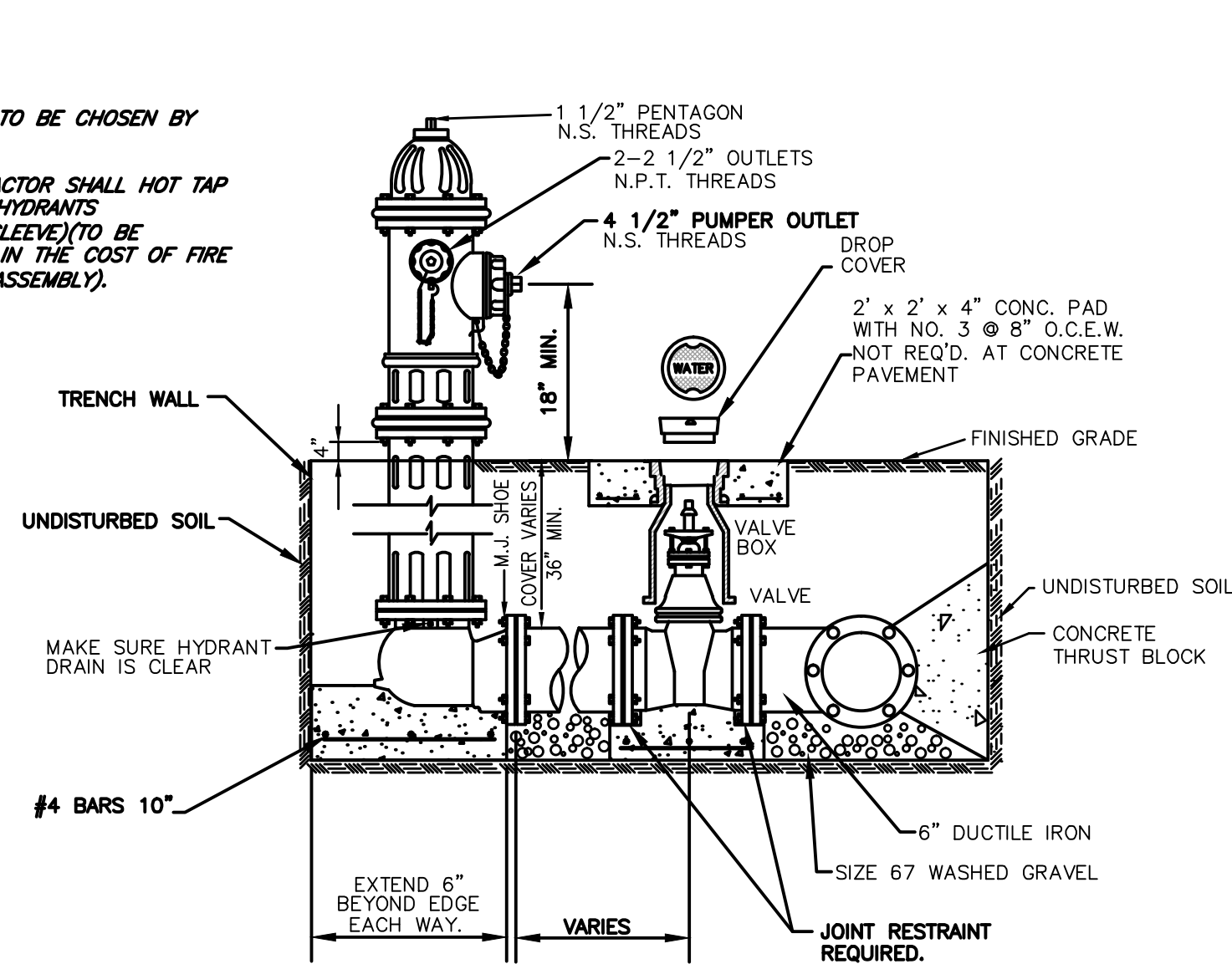
NOT TO SCALE



TYPICAL TRENCH REPAIR IN CONCRETE DRIVEWAY

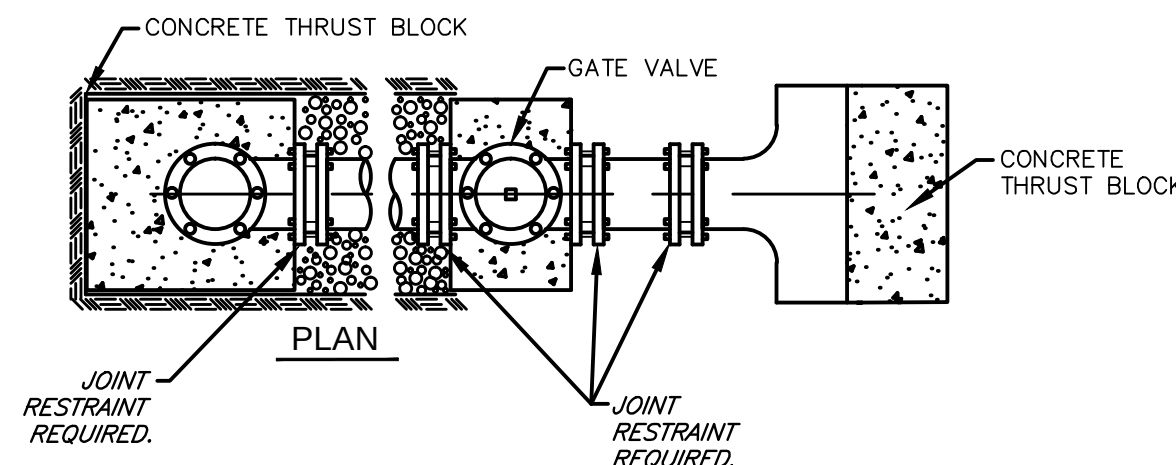
NOT TO SCALE

- NOTES:
1. COLOR TO BE CHOSEN BY OWNER.
 2. CONTRACTOR SHALL HOT TAP ALL FIRE HYDRANTS (SADDLE/SLEEVE)(TO BE INCLUDED IN THE COST OF FIRE HYDRANT ASSEMBLY).



ELEVATION

NOT TO SCALE

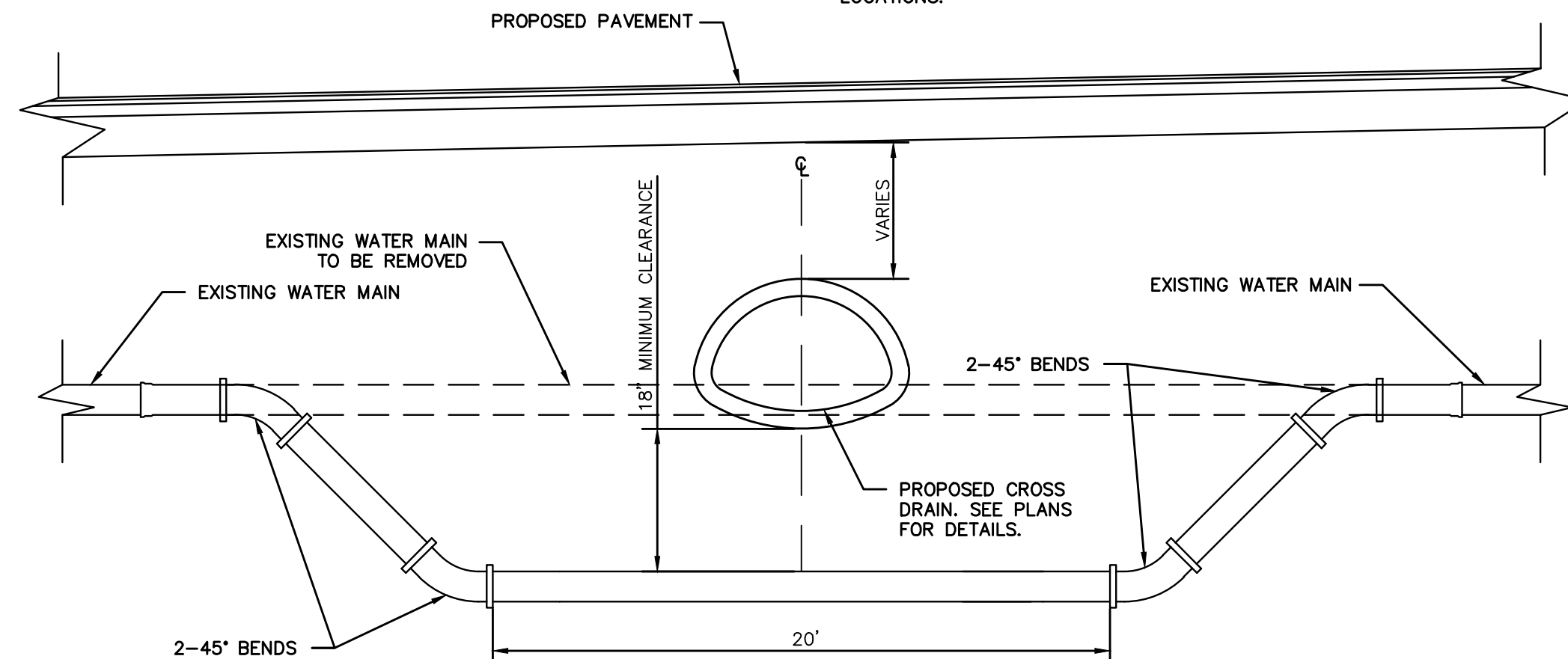


PLAN

TYPICAL FIRE HYDRANT ASSEMBLY INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.
NOT TO SCALE

- NOTES
1. SEE DETAIL THIS SHEET FOR JOINT RESTRAINT DETAILS.
 2. SEE PLANS FOR POTENTIAL LOCATIONS.



WATER MAIN AT STORM DRAIN CROSSING-TYPICAL SECTION

NOT TO SCALE

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				SCALE: NONE	
				SURVEYED BY: SHOWS, DEARMAN & WAITS	
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				DRWN: GPC	DATE: 06/2016
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FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS

NEEL-SCHAFER
Solutions you can build upon

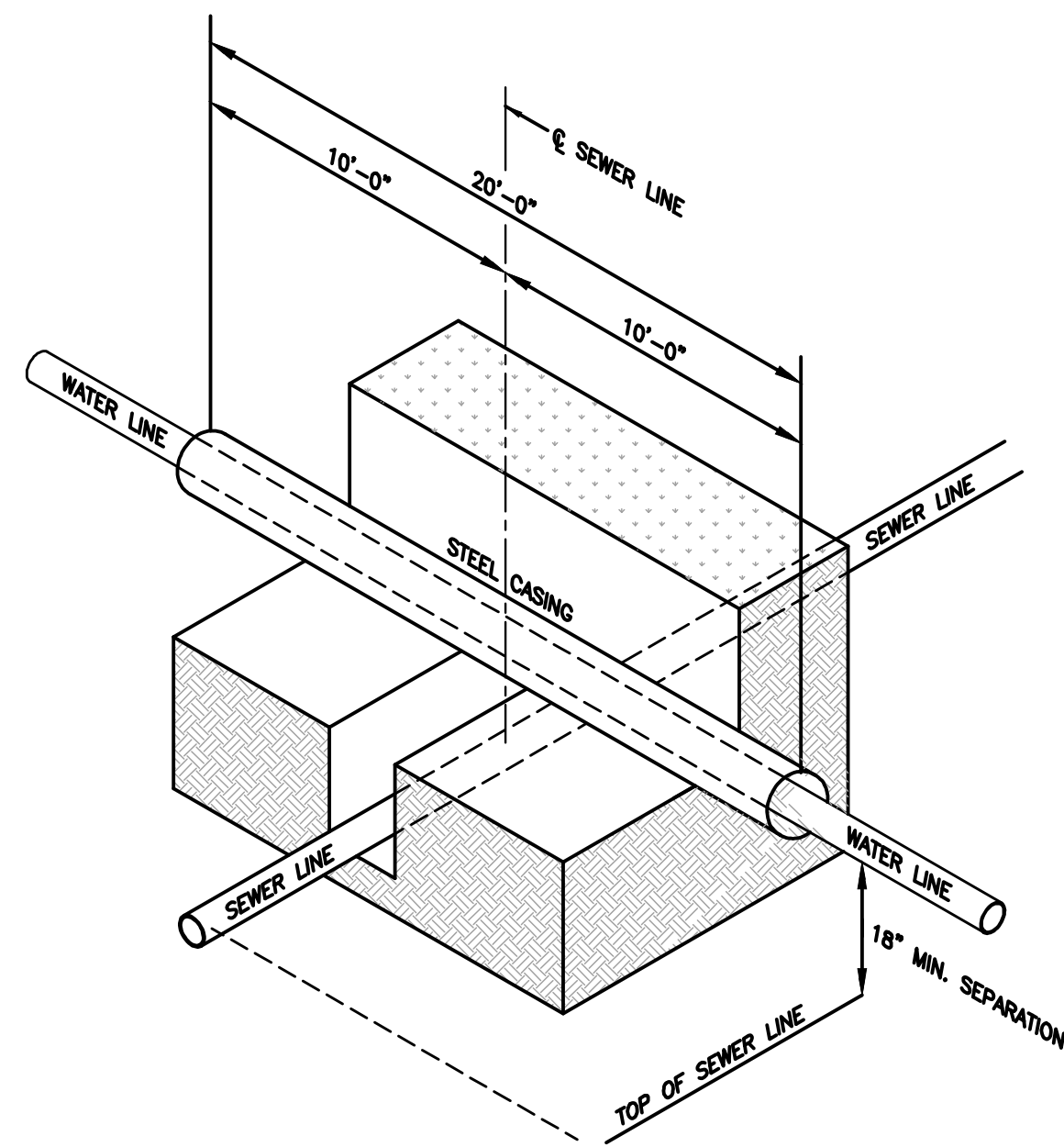
WATER DETAILS

WORKING NUMBER:

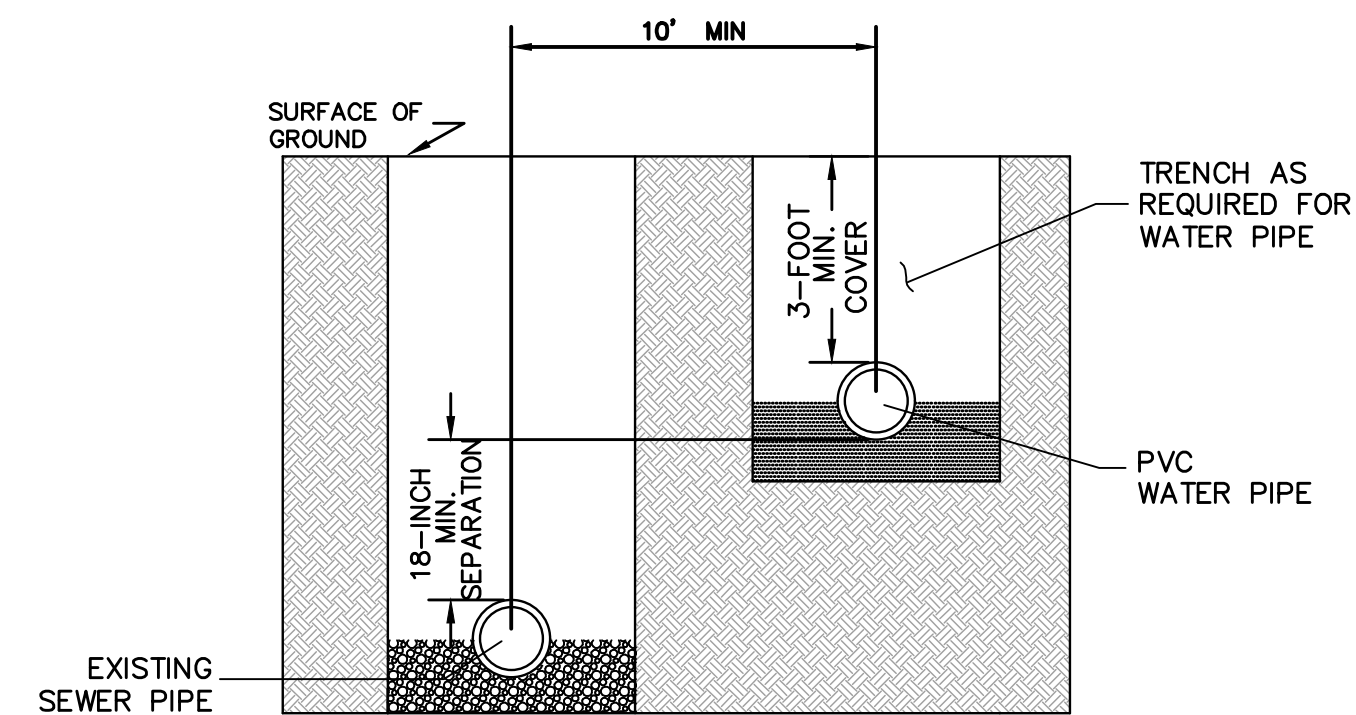
WD-1

DRAWING NUMBER:

33



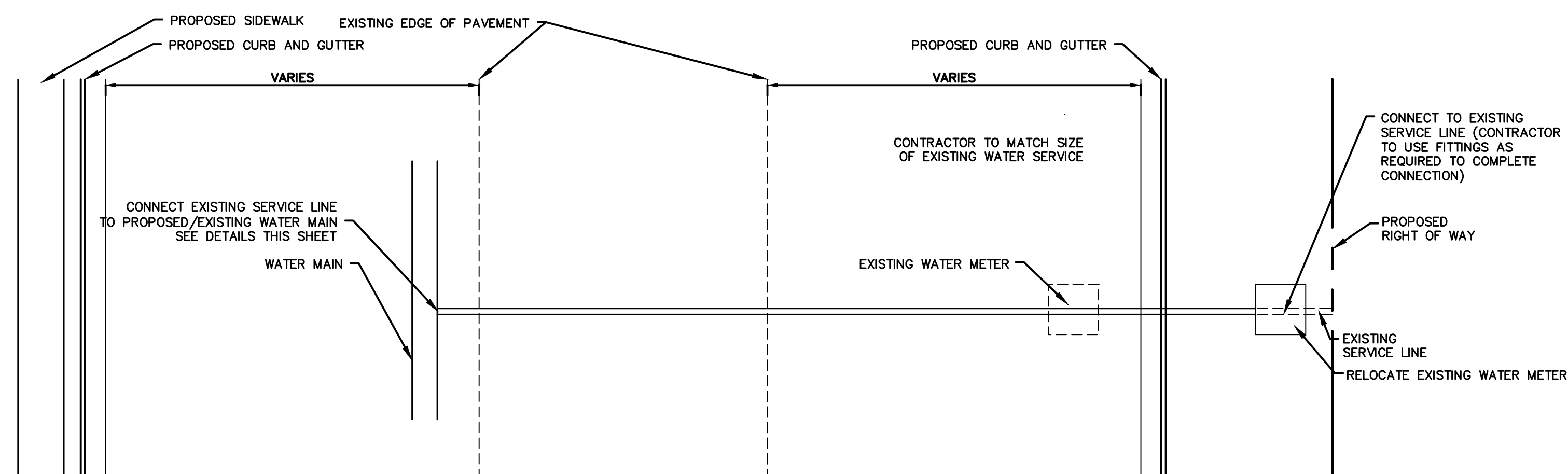
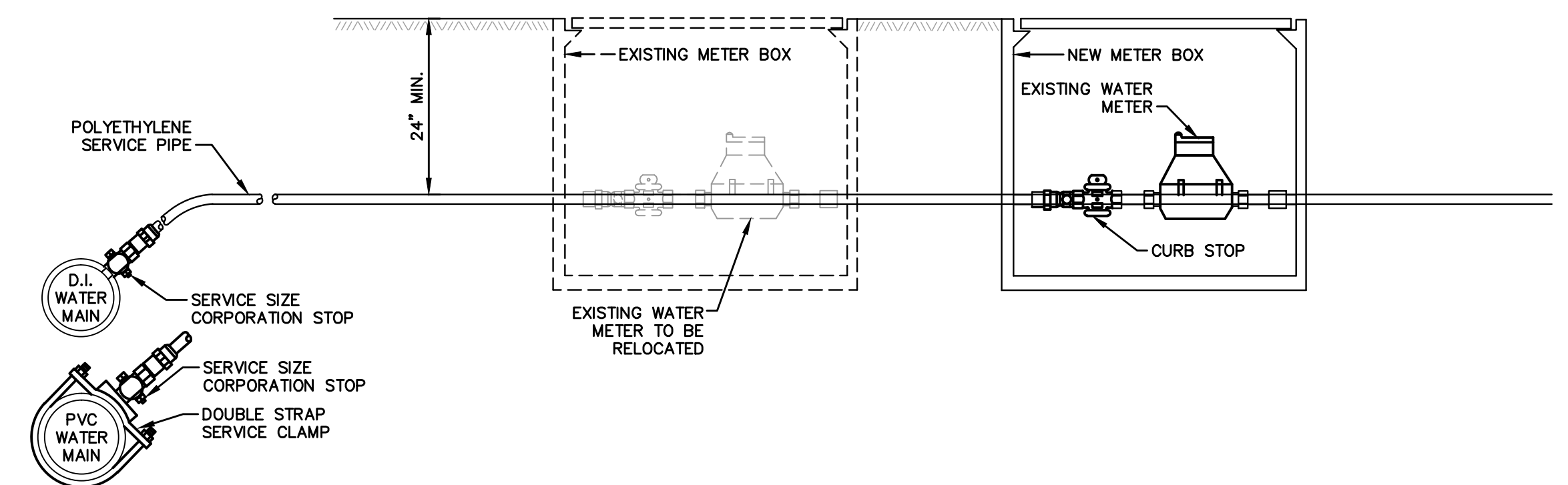
TYPICAL DETAIL FOR WATER LINE AND SEWER LINE CROSSING REQUIREMENTS
NOT TO SCALE



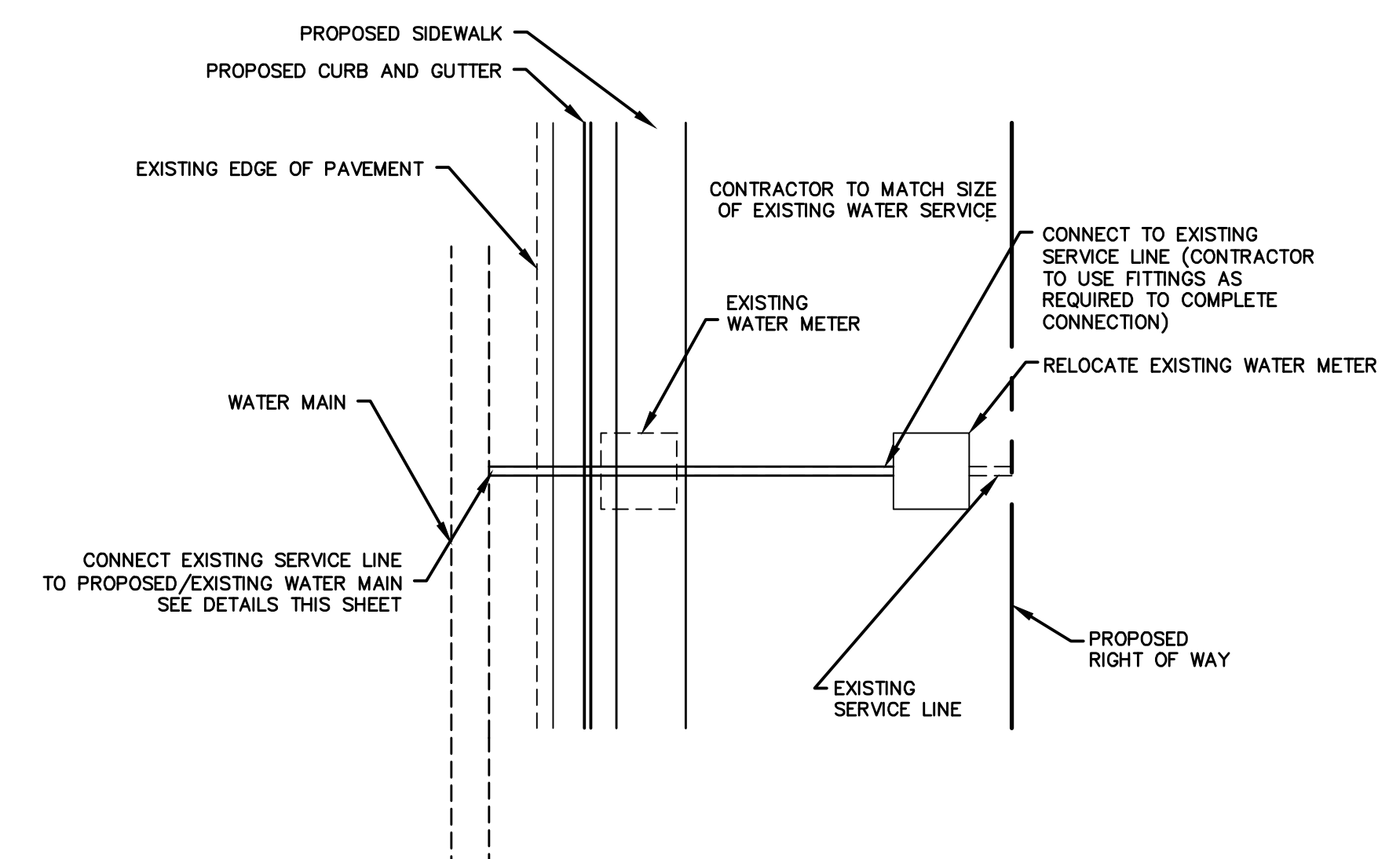
SEPARATION REQUIREMENTS FOR WATER AND SEWER LINES
NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL RELOCATE EXISTING WATER METER AS DIRECTED BY THE ENGINEER AND CITY. CONTRACTOR SHALL DISPOSE OF EXISTING METER BOX (COST ABSORBED).
2. CITY OF HATTIESBURG TO PROVIDE WATER METERS THAT NEED REPLACING. COST OF RELOCATING EXISTING WATER METER OR USING NEW WATER METER SHALL BE INCLUDED IN THE COST OF RELOCATING EXISTING WATER METER.
3. LONG/SHORT SERVICE CONNECTION SHALL BE MEASURED PER EACH AND SHALL INCLUDE FABRICATING, FURNISHING, AND INSTALLING THE WATER METER COMPONENTS, FURNISHING AND INSTALLING CONNECTIONS, RECONNECTION TO WATER MAIN, CURB STOP, CORPORATION STOP, WATER SERVICE LINE, NEW METER BOX, RELOCATION OF EXISTING WATER METER, BORING (LONG SERVICE), EXCAVATION, BACKFILL, BEDDING, SATISFACTORY DISPOSAL OF SURPLUS MATERIALS, AND ALL EQUIPMENT, TOOLS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.



LONG SERVICE CONNECTION
NOT TO SCALE



SHORT SERVICE CONNECTION
NOT TO SCALE

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FOURTH STREET
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PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS

NEEL-SCHAFER
Solutions you can build upon

WATER DETAILS

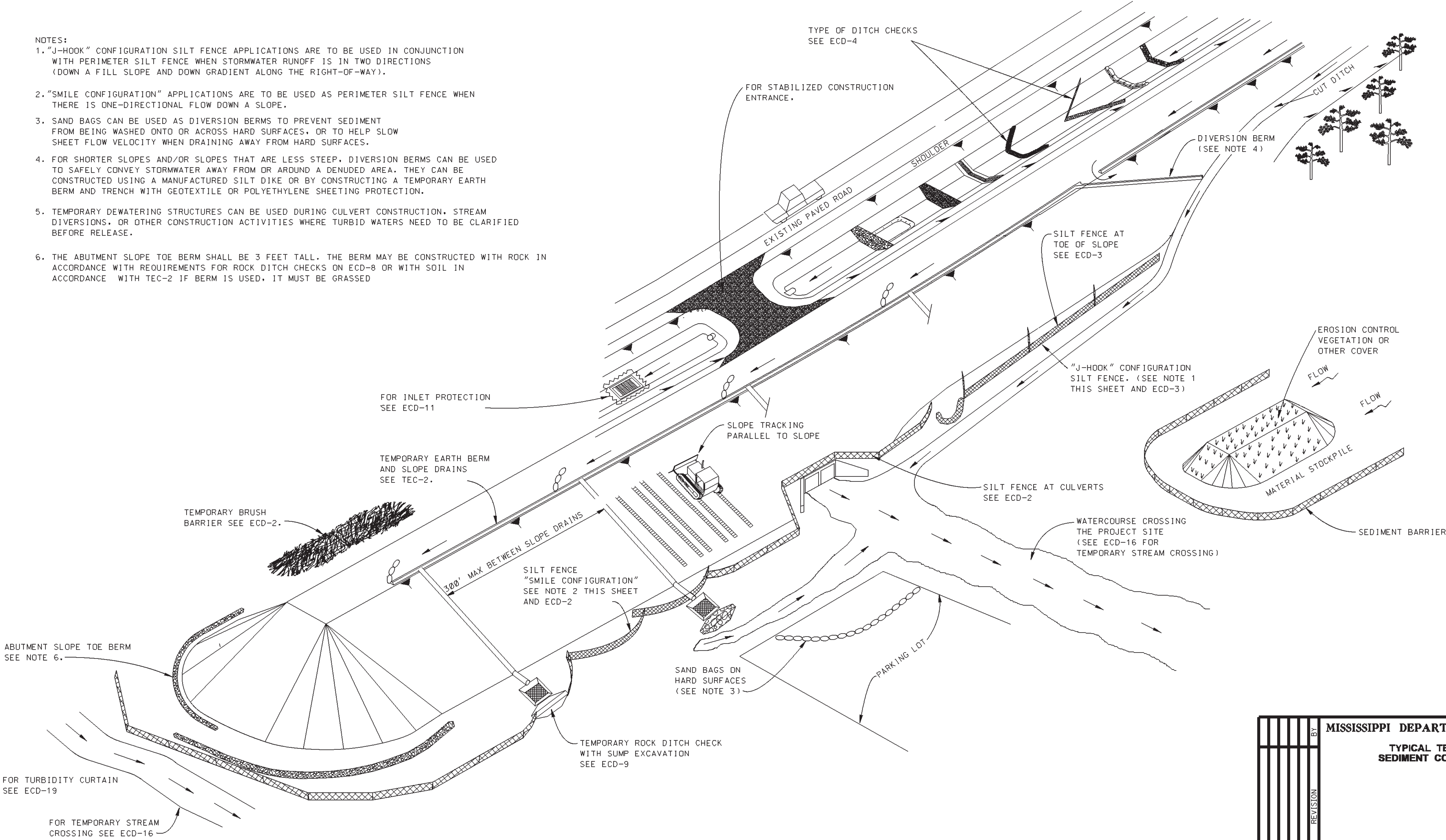
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WD-2

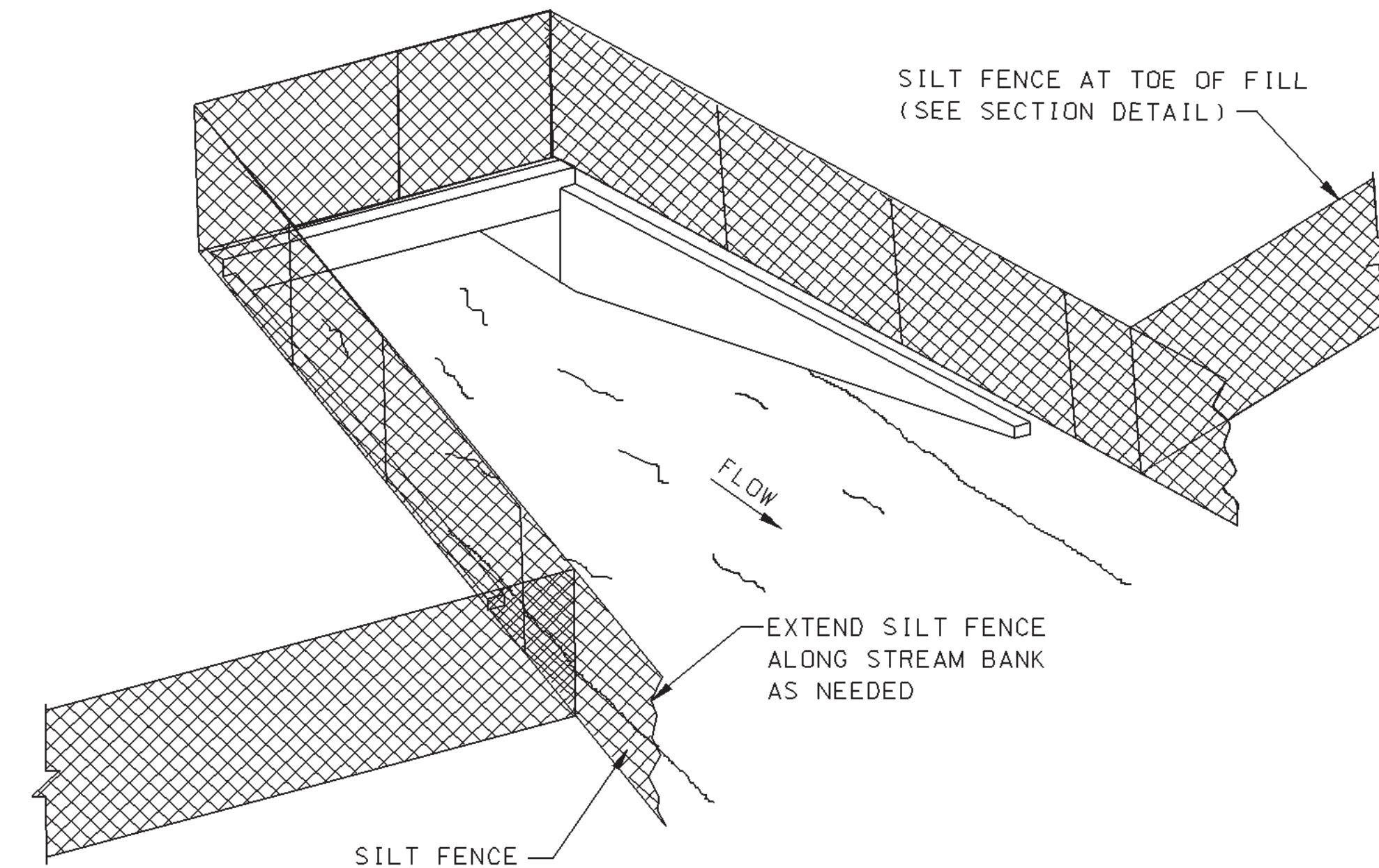
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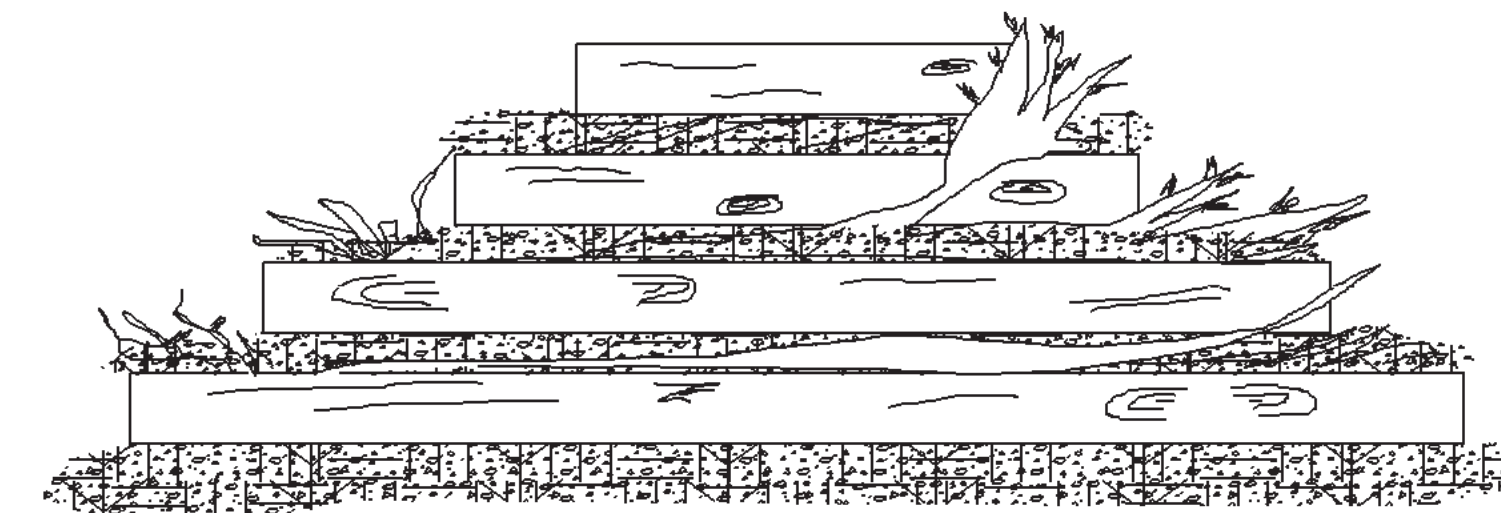
- NOTES:
1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
 2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN 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



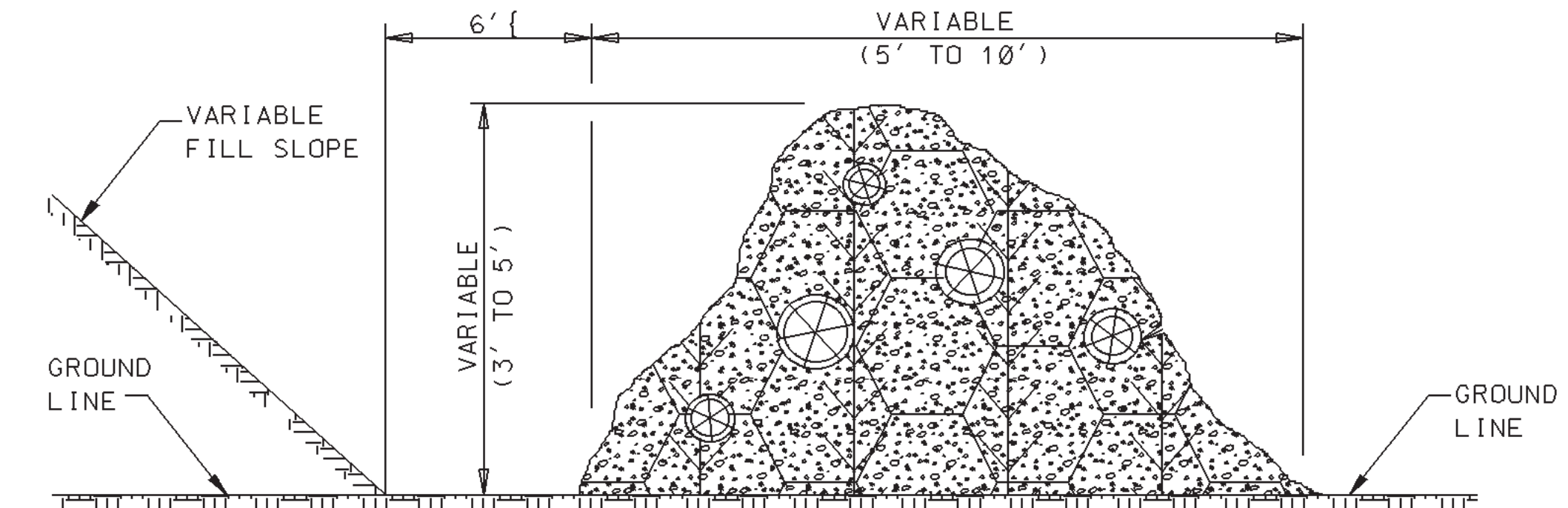
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SEDIMENT BARRIER AT CROSS DRAIN



FRONT ELEVATION

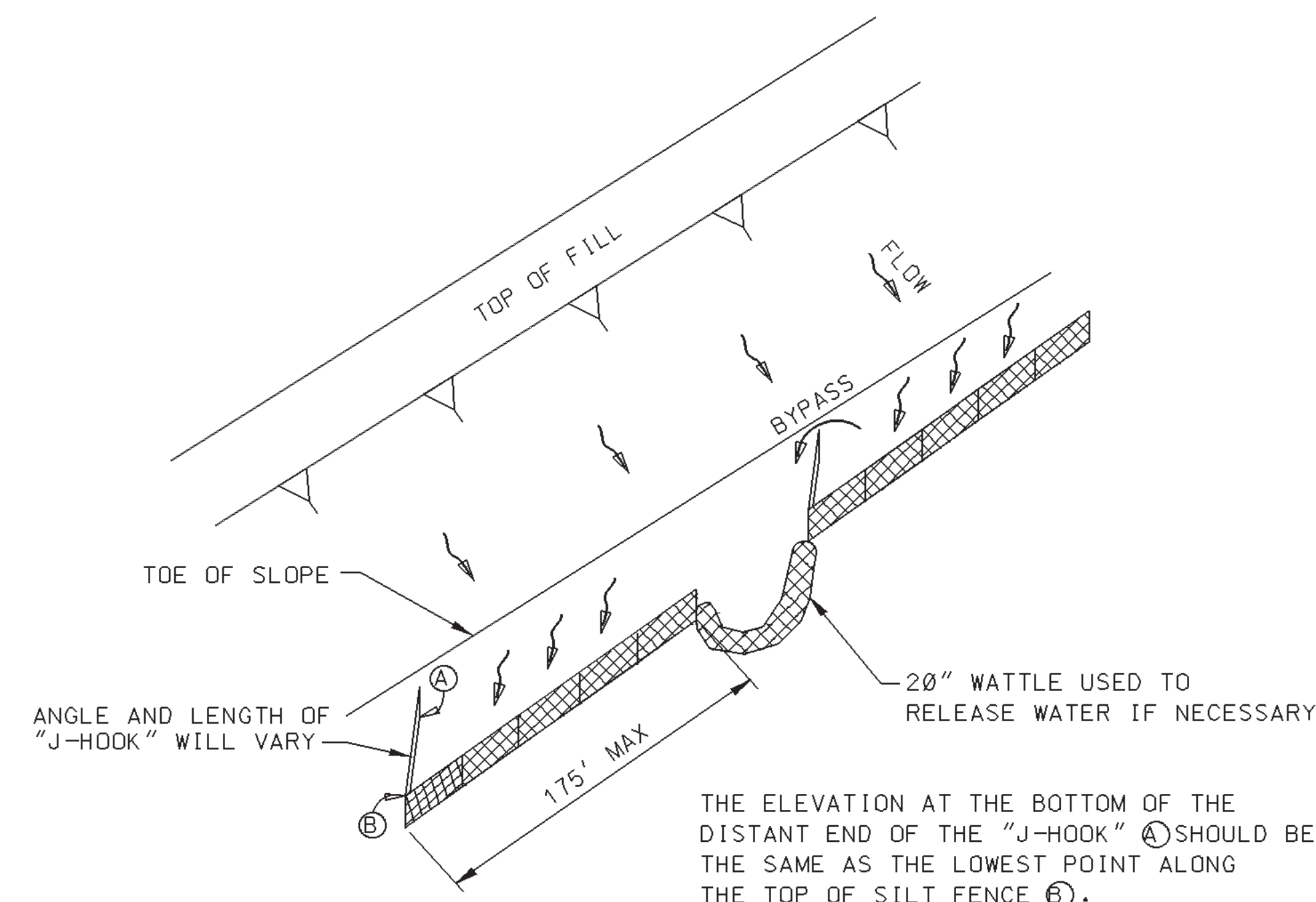


SIDE ELEVATION

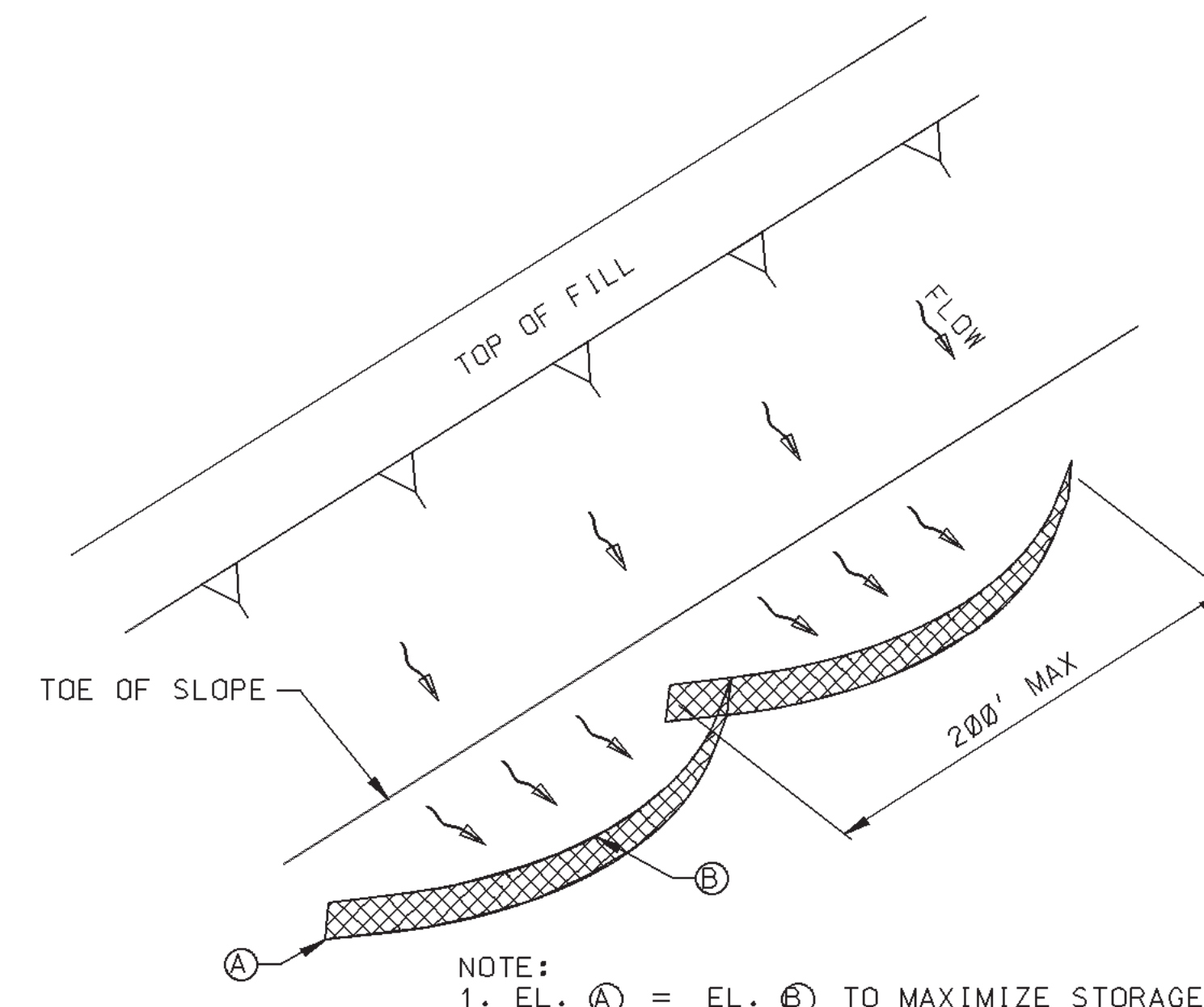
TEMPORARY BRUSH BARRIER

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



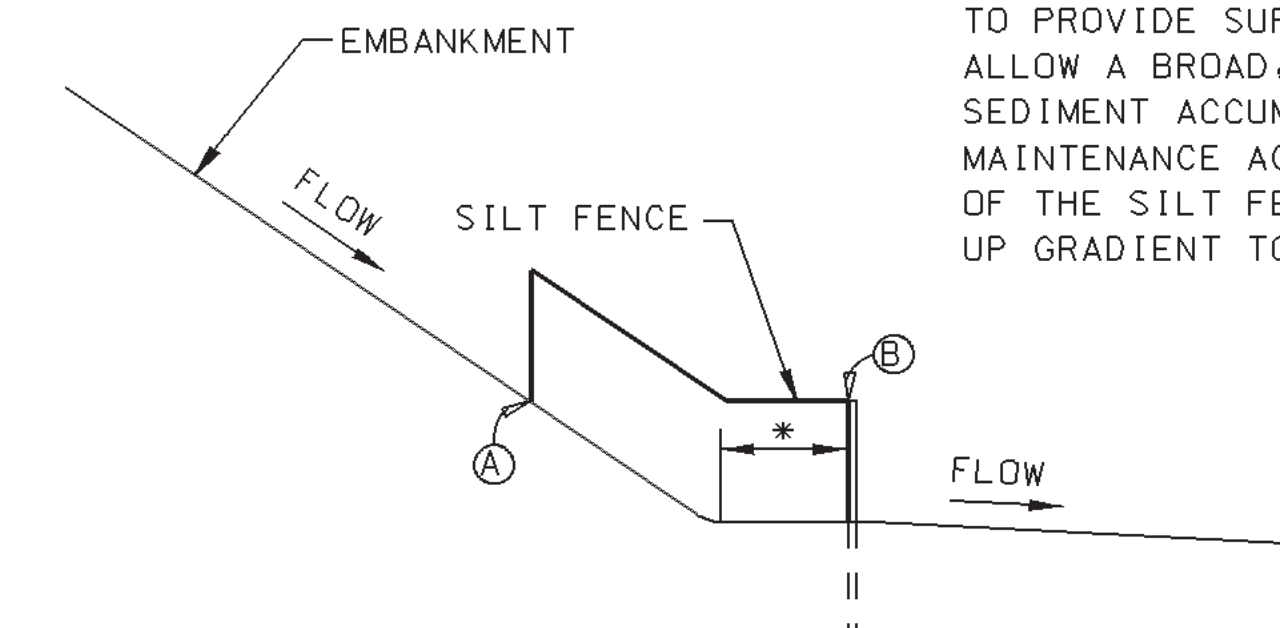
"J-HOOK" SILT FENCE APPLICATION



"SMILE-CONFIGURATION" SILT FENCE APPLICATION

NOTE:

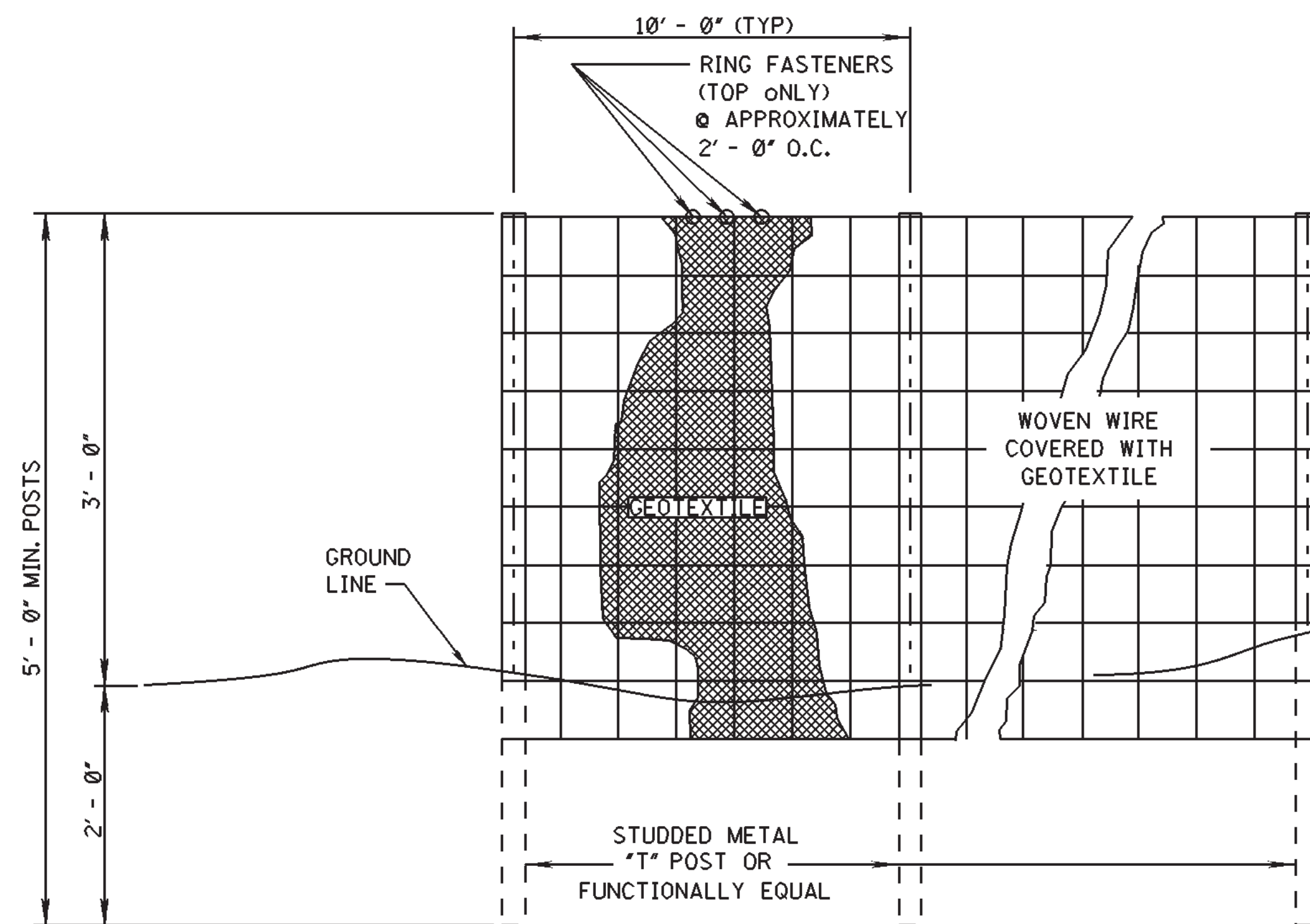
1. ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON ECD-3



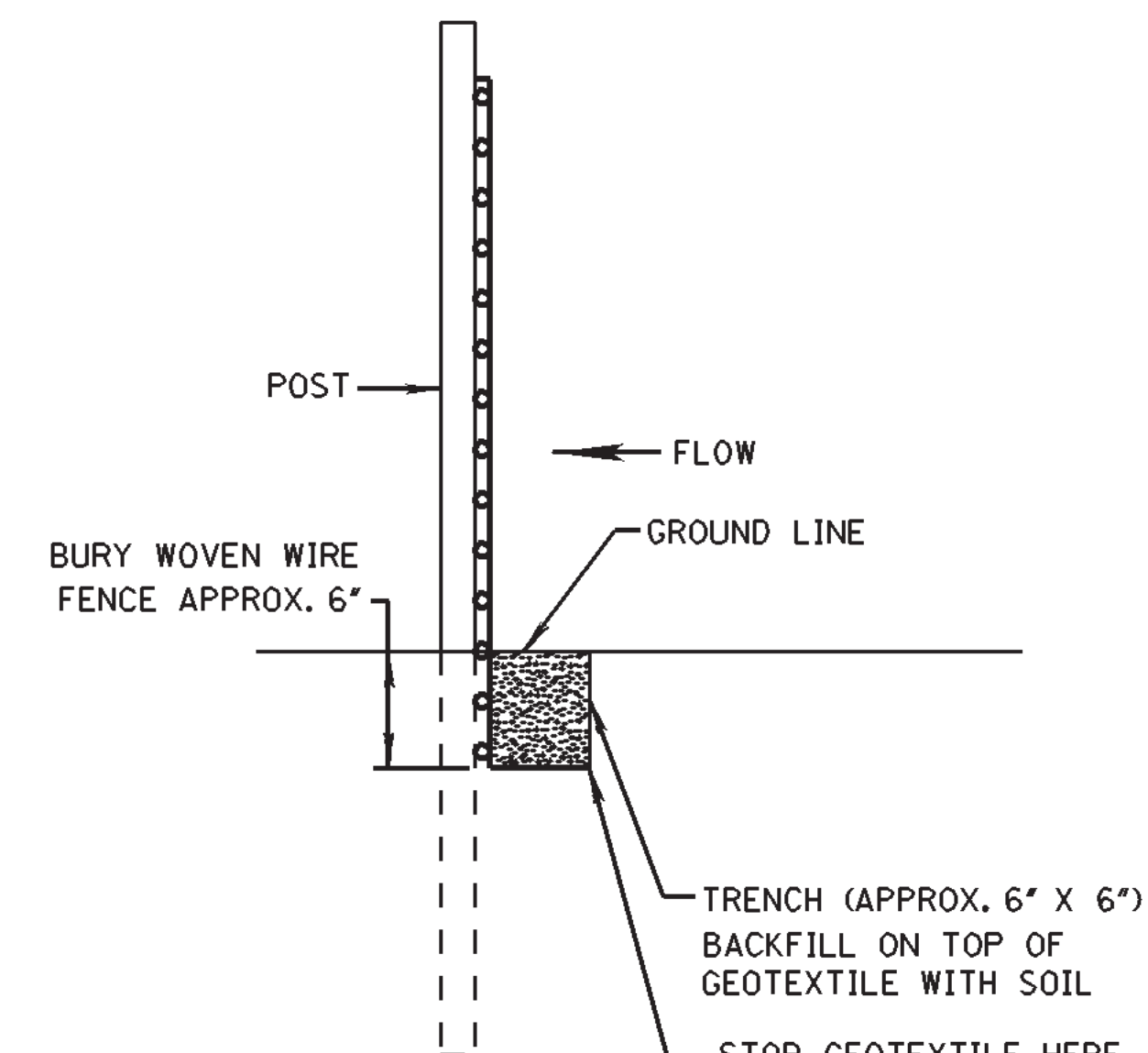
SILT FENCE SECTION AT TOE OF FILL

- * 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.

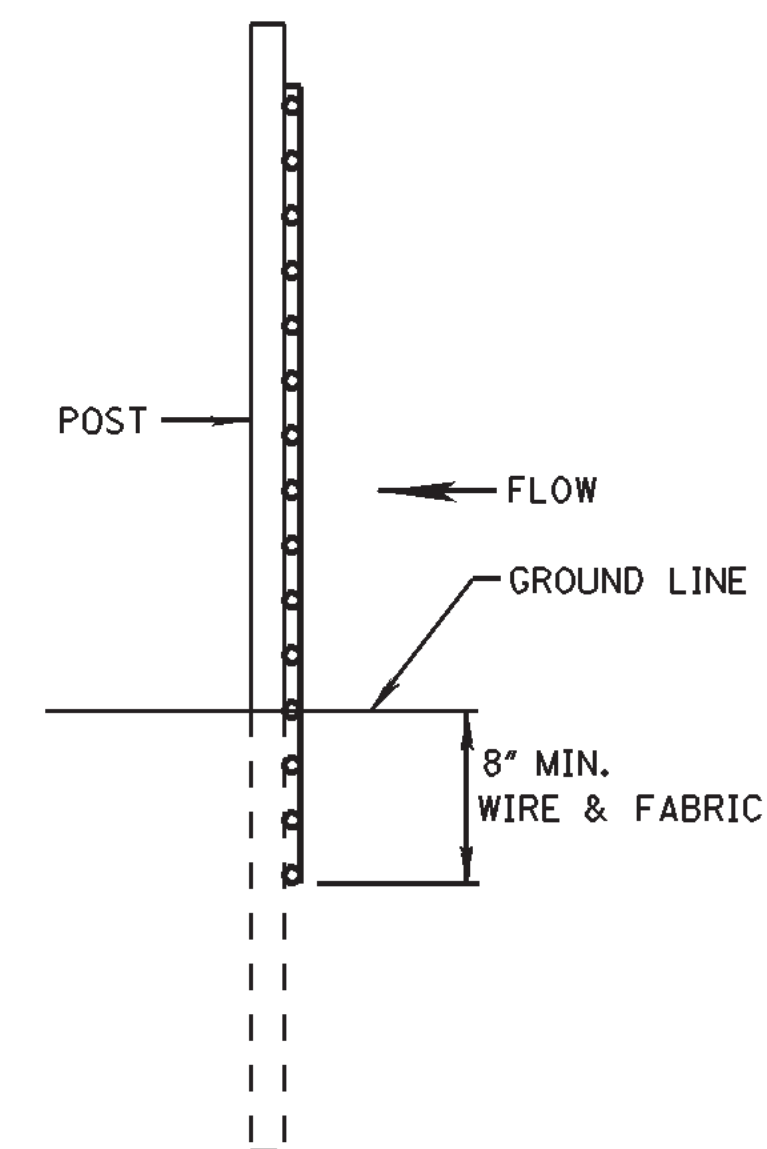
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		DETAILS OF SEDIMENT BARRIER APPLICATIONS	
DATE	DESIGN TEAM	FILENAME: EROSION CONTROL\ECD-2.DGN	WORKING NUMBER ECD-2
CHECKED	DATE		SHEET NUMBER 36



ELEVATION VIEW



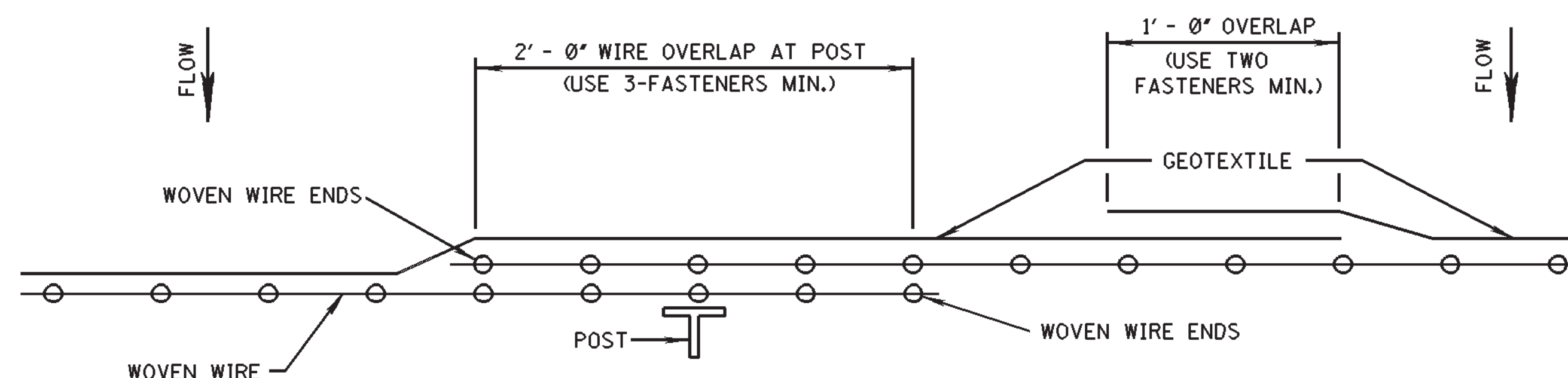
METHOD I



METHOD II
MECHANICAL INSTALLATION

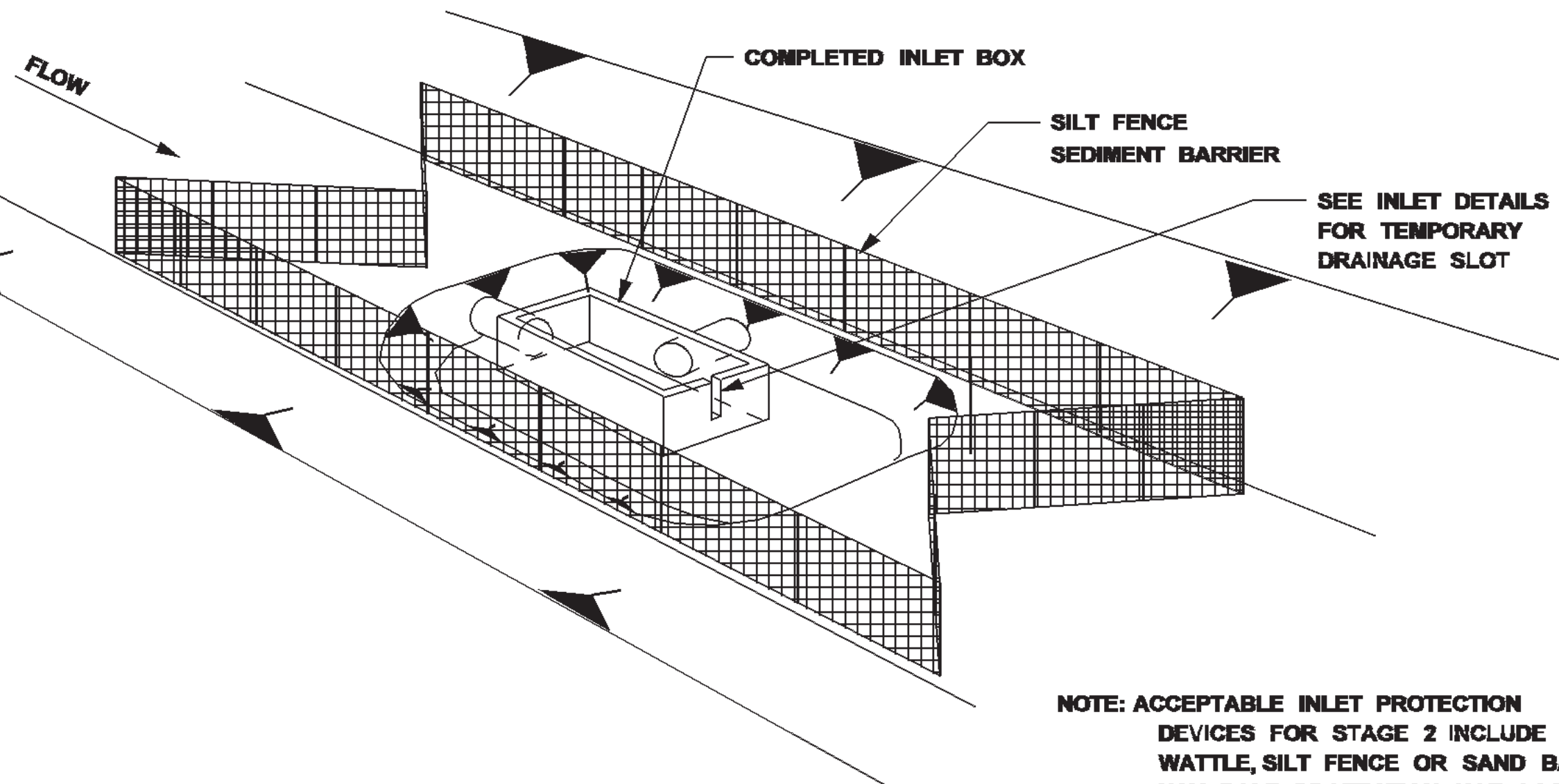
SIDE VIEW

- 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,



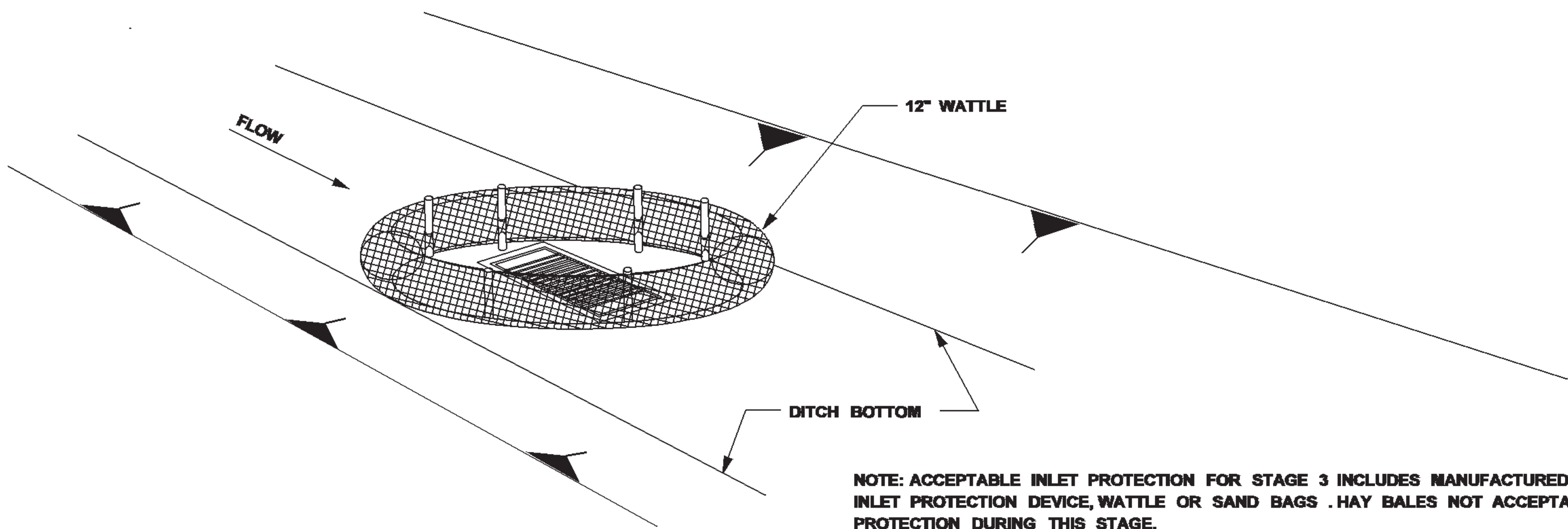
PLAN VIEW
REQUIRED LAPPING

MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
DETAILS OF SILT FENCE INSTALLATION			
DATE	DESIGN TEAM	CHECKED	DATE
FILENAME: EROSION CONTROL\ECD-3.DGN			
WORKING NUMBER	ECD-3		
SHEET NUMBER	37		



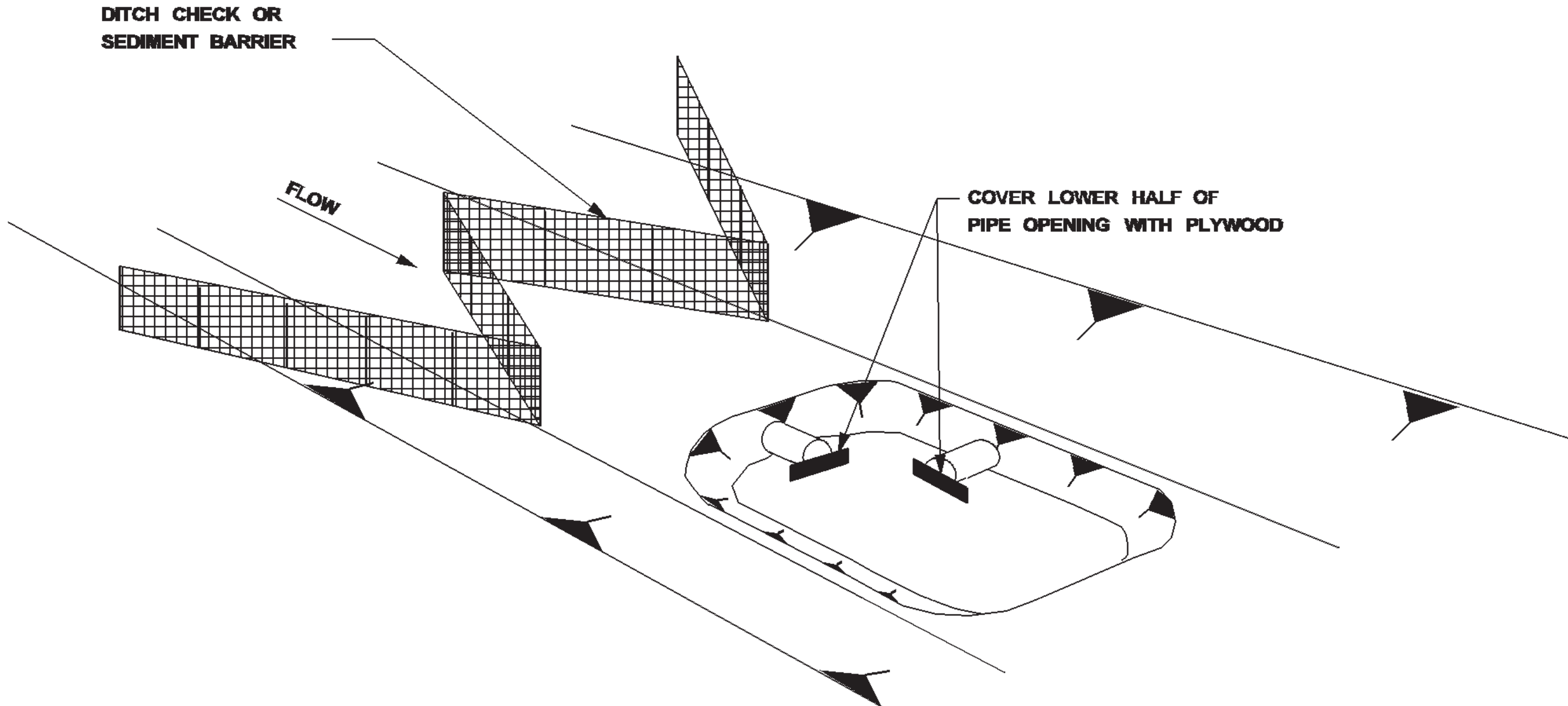
STAGE 2
INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED

NOTE: ACCEPTABLE INLET PROTECTION
DEVICES FOR STAGE 2 INCLUDE
WATTLE, SILT FENCE OR SAND BAGS.
HAY BALE PROTECTION NOT ACCEPTABLE
DURING THIS PHASE.



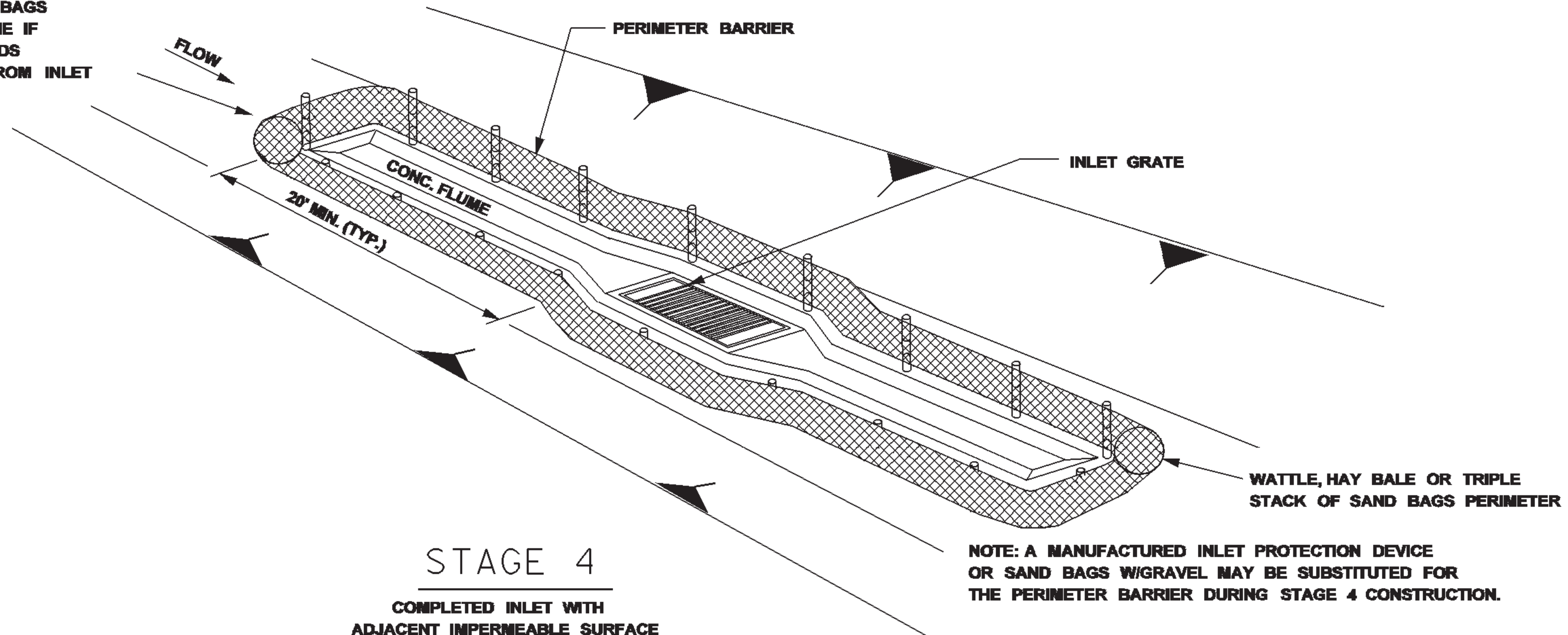
STAGE 3
INLET CONSTRUCTED AND BACKFILLED

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 1
INLET/JUNCTION BOX LOCATION EXCAVATED

PLACE SAND BAGS
ACROSS FLUME IF
FLUME EXTENDS
BEYOND 20' FROM INLET



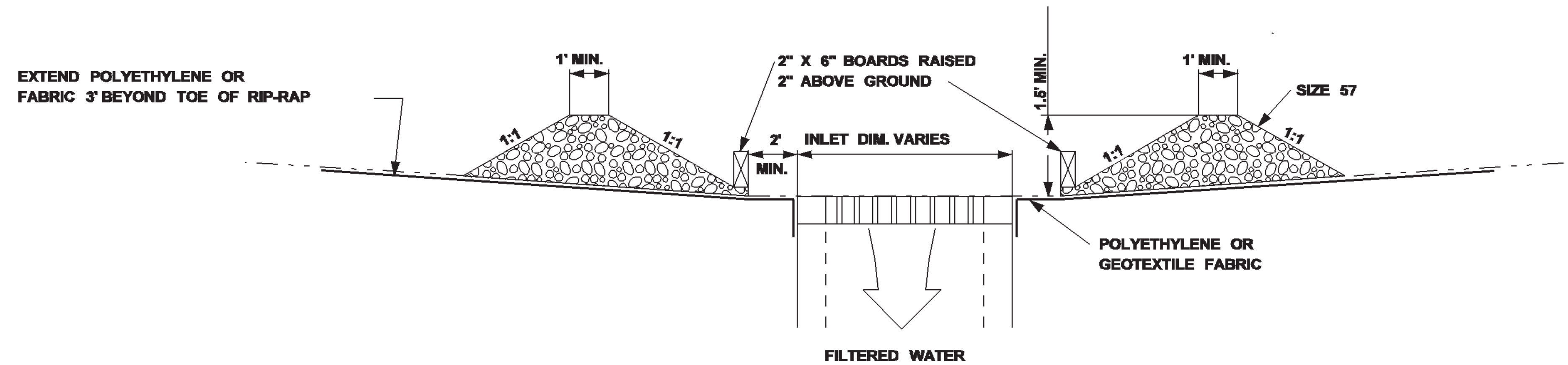
STAGE 4
COMPLETED INLET WITH
ADJACENT IMPERMEABLE SURFACE

NOTE: A MANUFACTURED INLET PROTECTION DEVICE
OR SAND BAGS W/ GRAVEL MAY BE SUBSTITUTED FOR
THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION.

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.

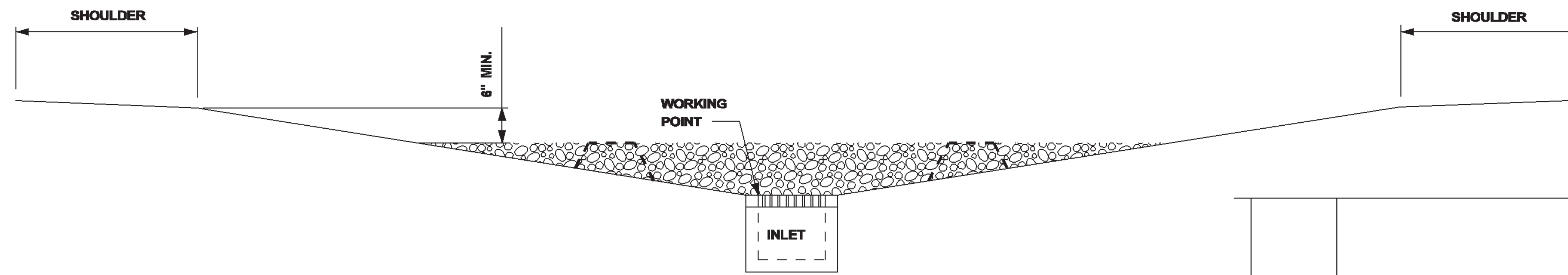
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
INLET PROTECTION	
TYPICAL APPLICATIONS AND DETAILS	
WORKING NUMBER	FILENAME: EROSION CONTROL/ECD-10.DGN
ECD-10	DESIGN TEAM
SHEET NUMBER	CHECKED
38	DATE



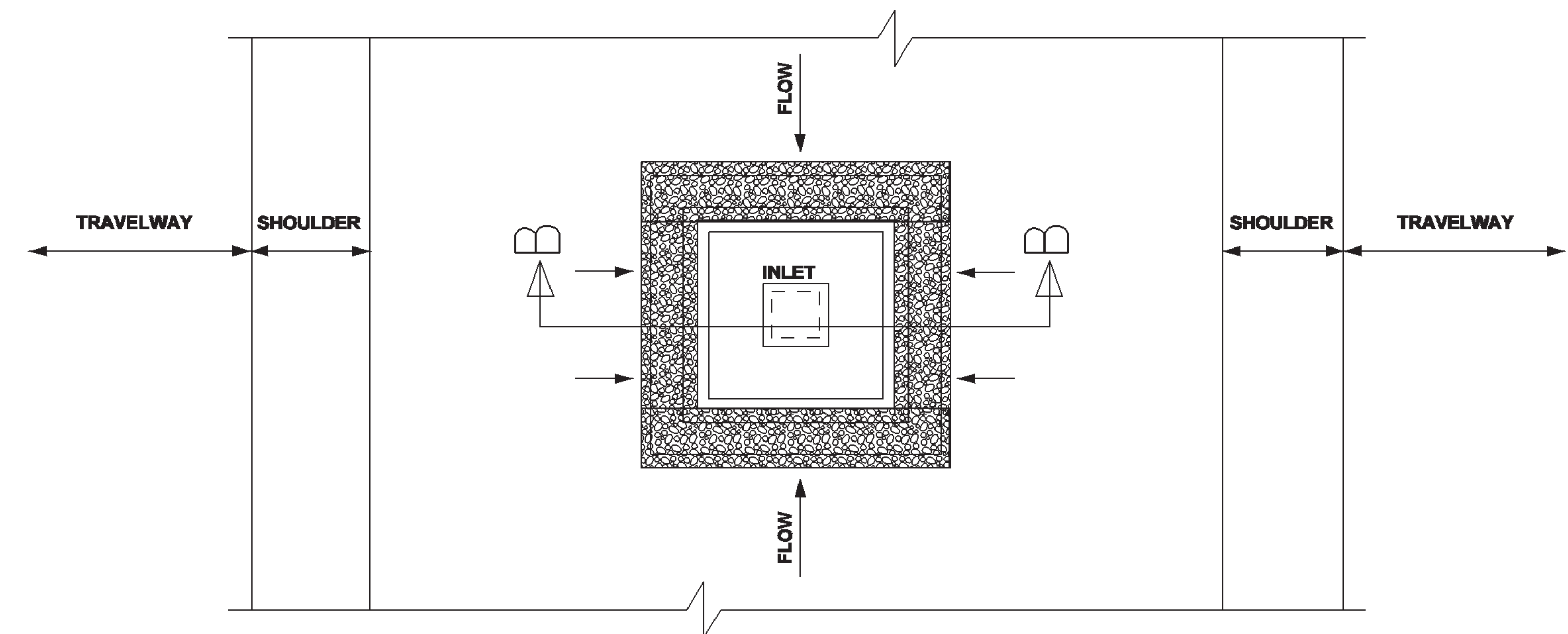
SECTION B-B

NOTES:

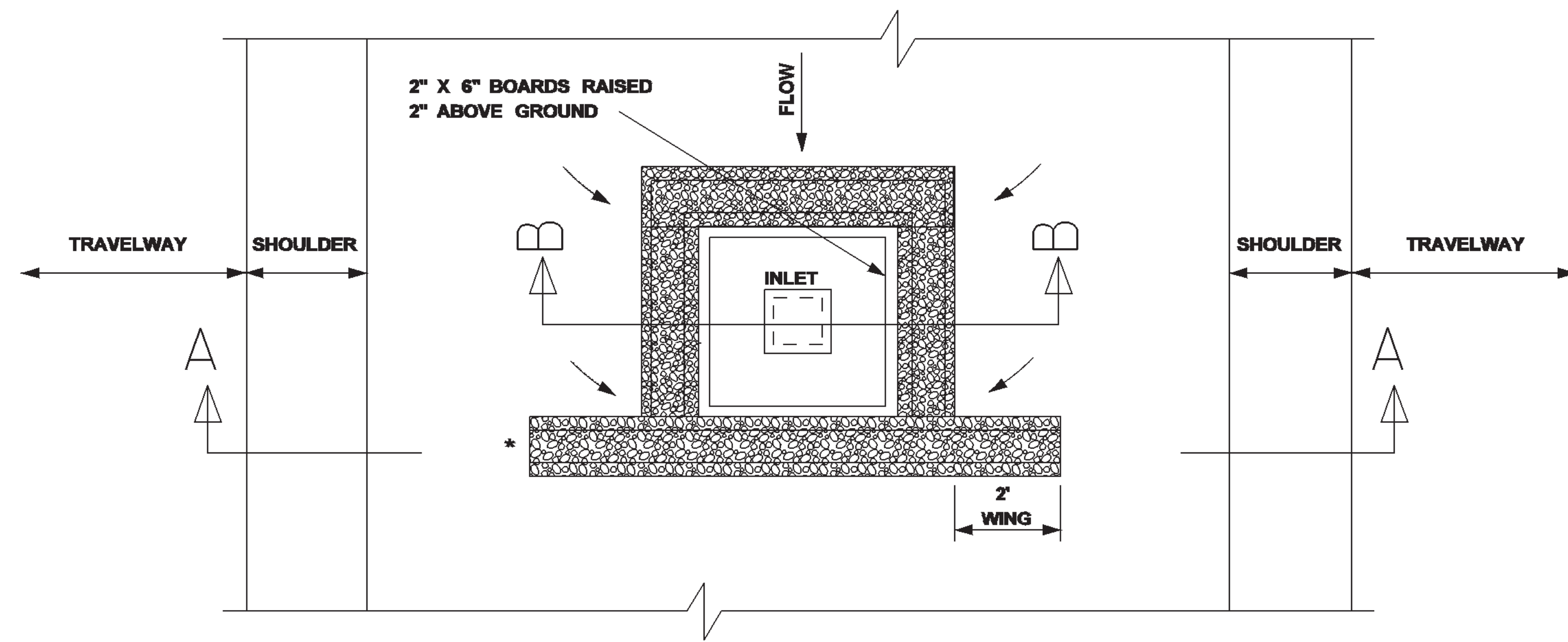
1. THE ELEVATION OF THE TOP OF THE REQUIRED STONE BERM SHALL BE A MINIMUM OF 1.5' ABOVE THE ELEVATION OF THE INLET WORKING POINT AND A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.
2. THIS COARSE AGGREGATE INLET PROTECTION SHALL NOT BE UTILIZED DURING STAGE 1 AND STAGE 2 INLET CONSTRUCTION. SEE INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS)
3. 2" X 6" BOARDS MAY BE REPLACED WITH WIRE MESH WOPENINGS LESS THAN 1" X 1". COST IS ABSORBED.



SECTION A-A



PLAN - IN SAG



PLAN - ON GRADE

* CONSTRUCT WINGS TO PREVENT BYPASS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS	
WORKING NUMBER ECD-11	SHEET NUMBER 39
FILENAME: EROSION CONTRLECD-11.DGN	DATE
DESIGN TEAM	CHECKED DATE

12" WATTLE

TEMPORARY DRAIN
(SEE INLET DETAILS)

FLOW

Diagram illustrating a wattle structure with a wood stake and anchor. The wattle is 12" high. A wood stake is driven through the wattle, secured by an anchor through the netting without damage (typ.). The anchor is 1.5' MIN. deep. The flow direction is indicated by an arrow labeled "FLOW".

15' INSIDE DIA.

DROP INLET

WATTLE
12"

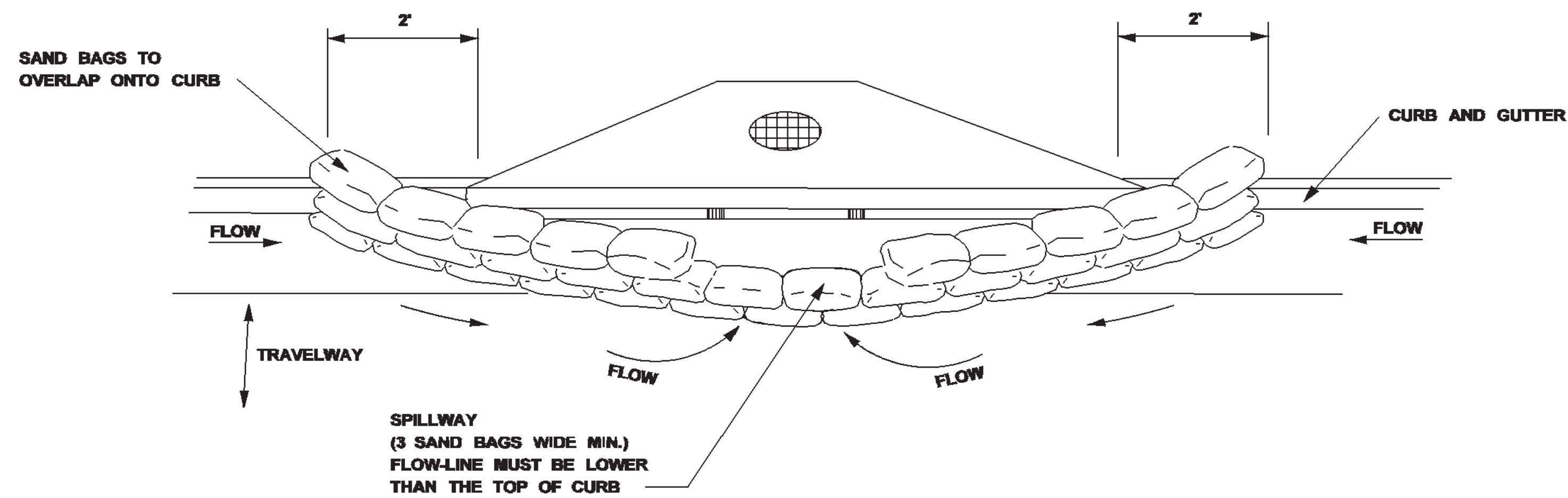
SURFACE FLOW DIRECTION (TYPICAL)

Diagram illustrating the installation of a wattle structure. The structure consists of vertical wooden stakes driven into the ground, with a wattle (a mesh of woven material) attached to them. The wattle is shown in cross-section, revealing its internal structure. The diagram indicates the flow direction (FLOW) and the minimum depth of the stakes (1.5' MIN.). Labels include: WATTLE 12", WOOD STAKE, and ANCHOR THROUGH NETTING WITHOUT DAMAGE (TYP.).

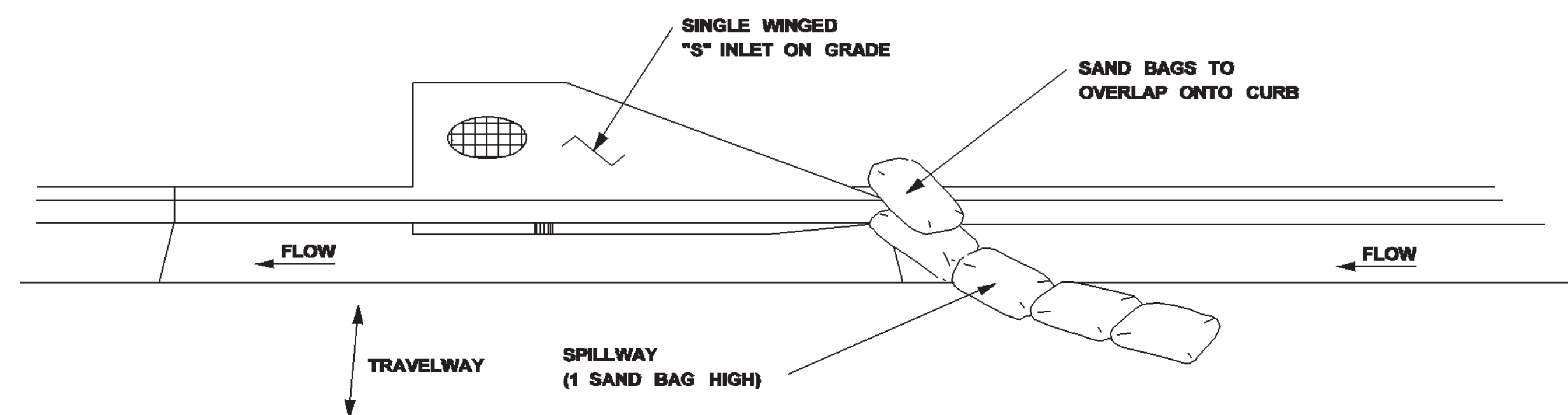
NOTES:

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., 3"MAX.).
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.

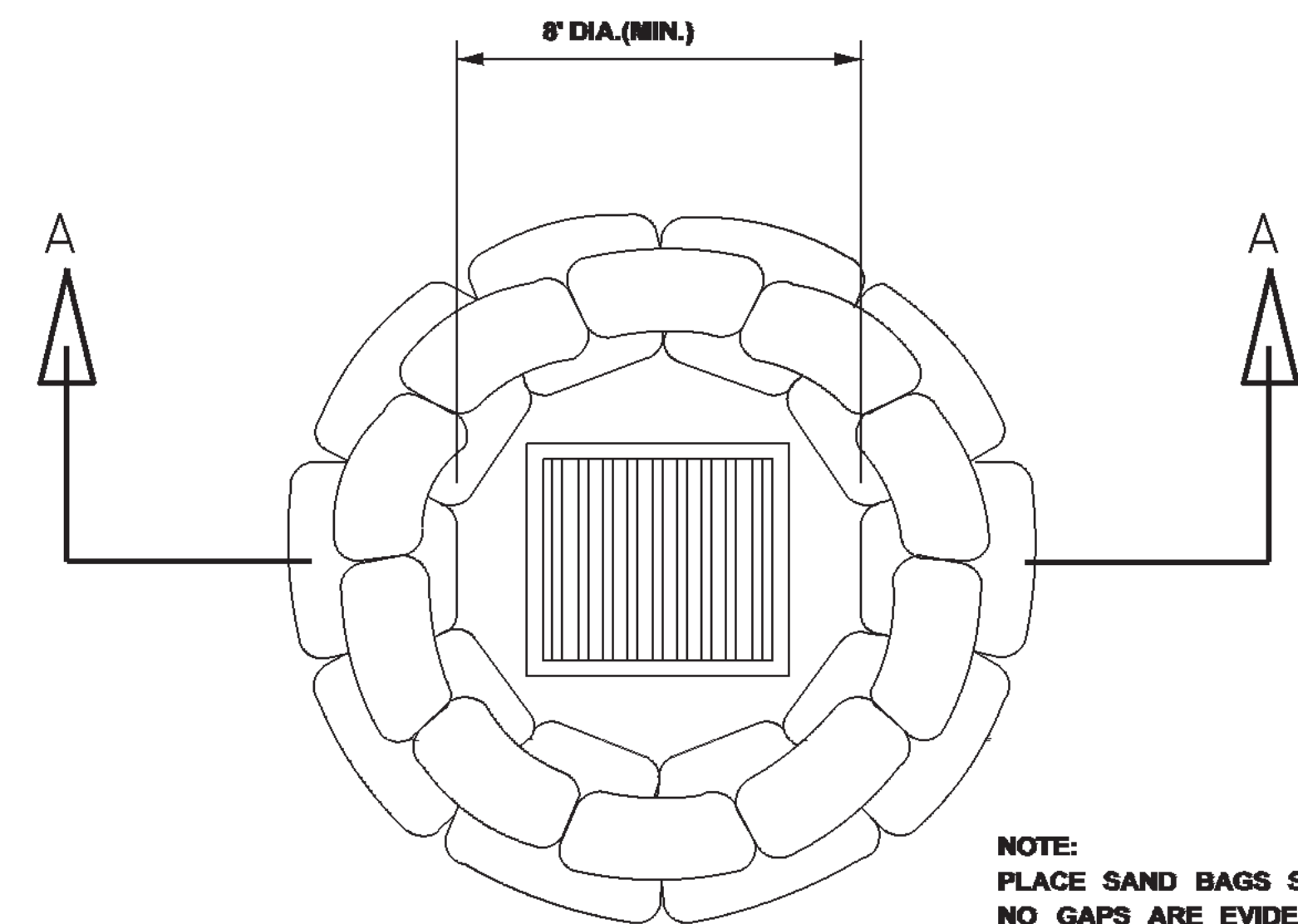
11/19/2010 12:26PM ECD-12.DGN



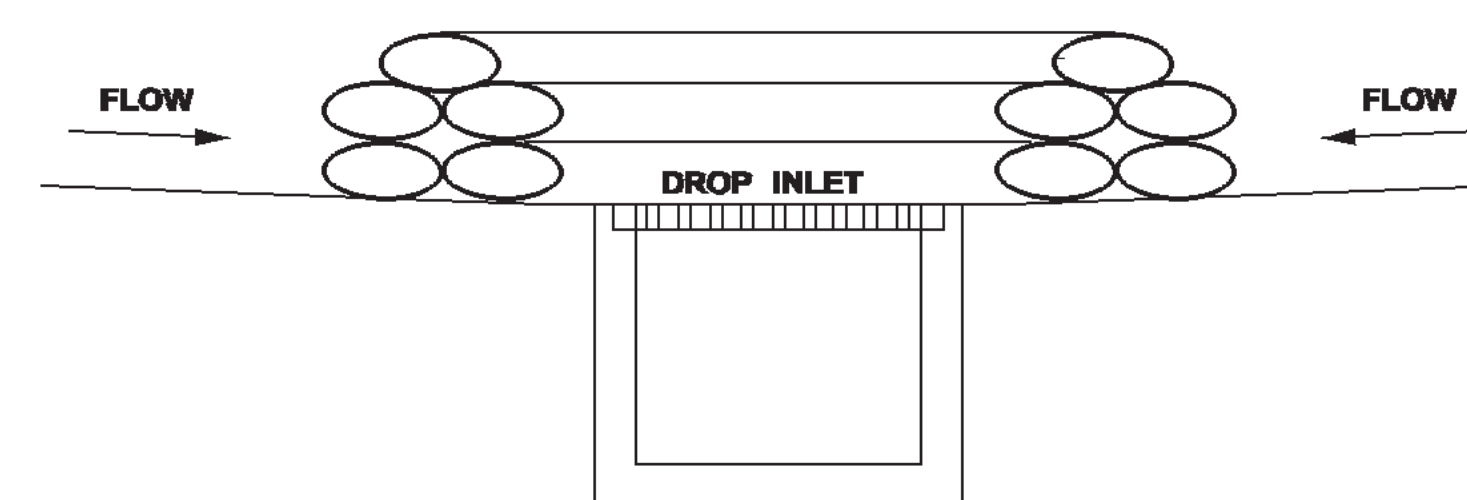
TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG



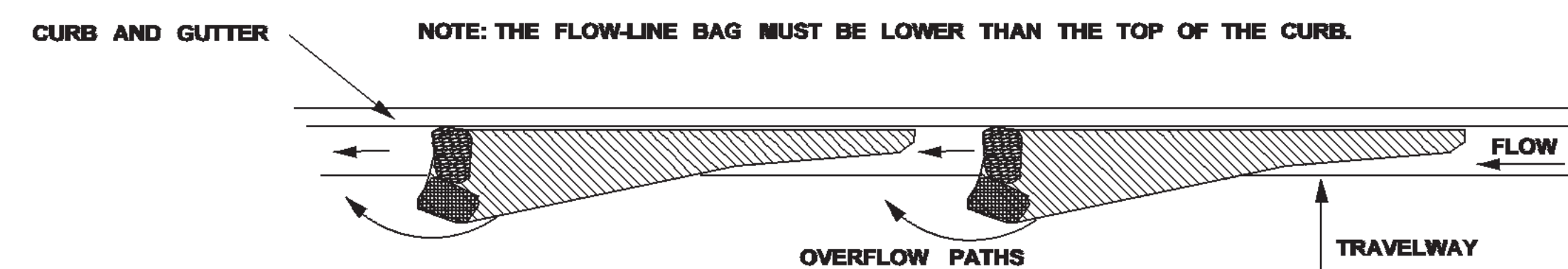
TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE



DROP INLET
PLAN VIEW



SECTION A-A
SAND BAG BARRIER



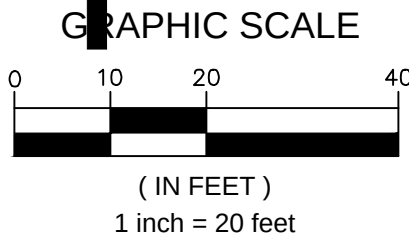
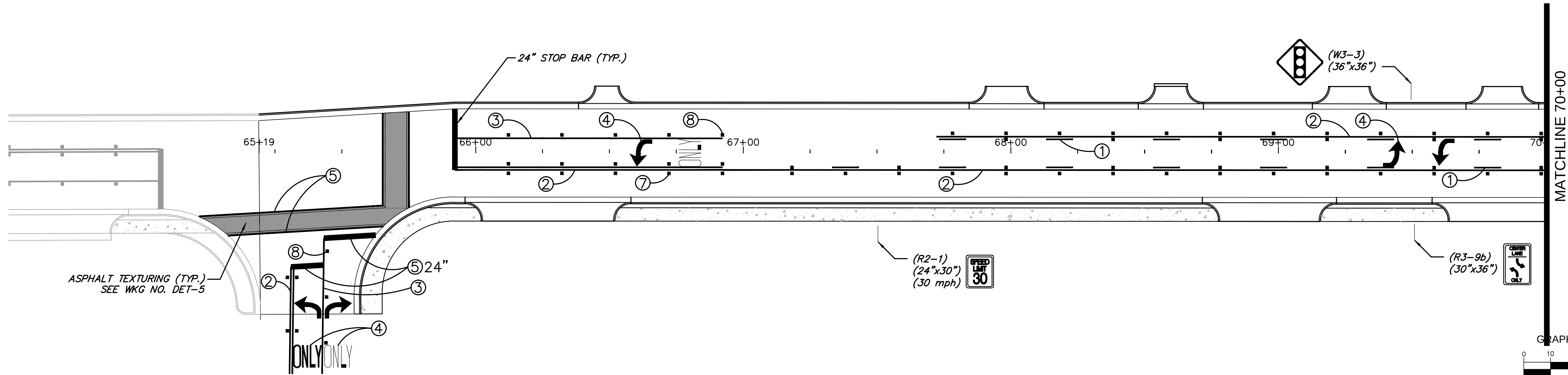
CURB AND GUTTER SEDIMENT
CONTAINMENT SYSTEM

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 IT'S PERIMETER TO CONTROL SEDIMENT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
INLET PROTECTION DETAILS OF SAND BAG	
BY	DATE
REVISION	DATE
FILENAME: EROSION CONTROL/ECD-14.DGN	
DESIGN TEAM	CHECKED
DATE	
WORKING NUMBER ECD-14	
SHEET NUMBER 41	

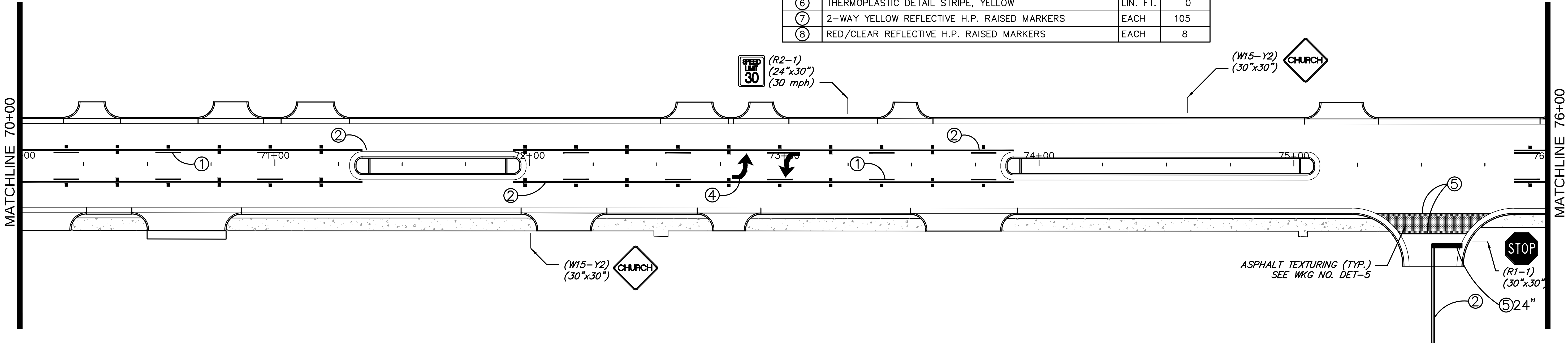
NOTE:
PAVEMENT MARKING SHEETS TO BE USED FOR TEMPORARY STRIPING LAYOUT.
TEMPORARY STRIPING TO BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.
SEE WKG NO. EQ-TC FOR BREAKDOWN.



PAVEMENT MARKING LEGEND

SYMBOL	DESCRIPTION	UNIT	QUANTITY
①	6" THERMOPLASTIC TRAFFIC STRIPE, SKIP YELLOW	LIN. FT.	1070
②	6" THERMOPLASTIC TRAFFIC STRIPE, CONT. YELLOW	LIN. FT.	1581
③	THERMOPLASTIC DETAIL STRIPE, WHITE	LIN. FT.	150
④	THERMOPLASTIC LEGEND, WHITE	SQ. FT.	180.80
⑤	THERMOPLASTIC LEGEND, WHITE	LIN. FT.	446
⑥	THERMOPLASTIC DETAIL STRIPE, YELLOW	LIN. FT.	0
⑦	2-WAY YELLOW REFLECTIVE H.P. RAISED MARKERS	EACH	105
⑧	RED/CLEAR REFLECTIVE H.P. RAISED MARKERS	EACH	8

NOTES:
1. SEE WKG NO. DET-5 FOR CROSSWALK STRIPING DETAILS.



NOTICE TO DRAWING HOLDER

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REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

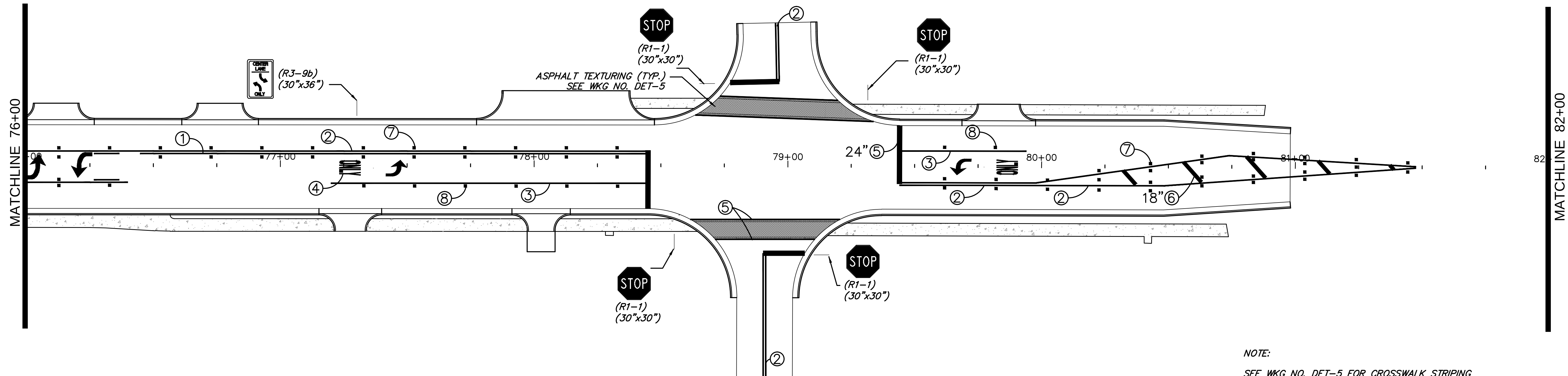
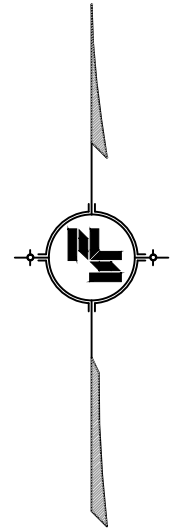
CITY OF HATTIESBURG
FORREST COUNTY, MS



PAVEMENT MARKING AND SIGNING
STA. 65+19 TO STA. 76+00

WORKING NUMBER:
PM-1

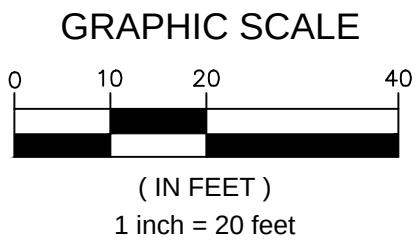
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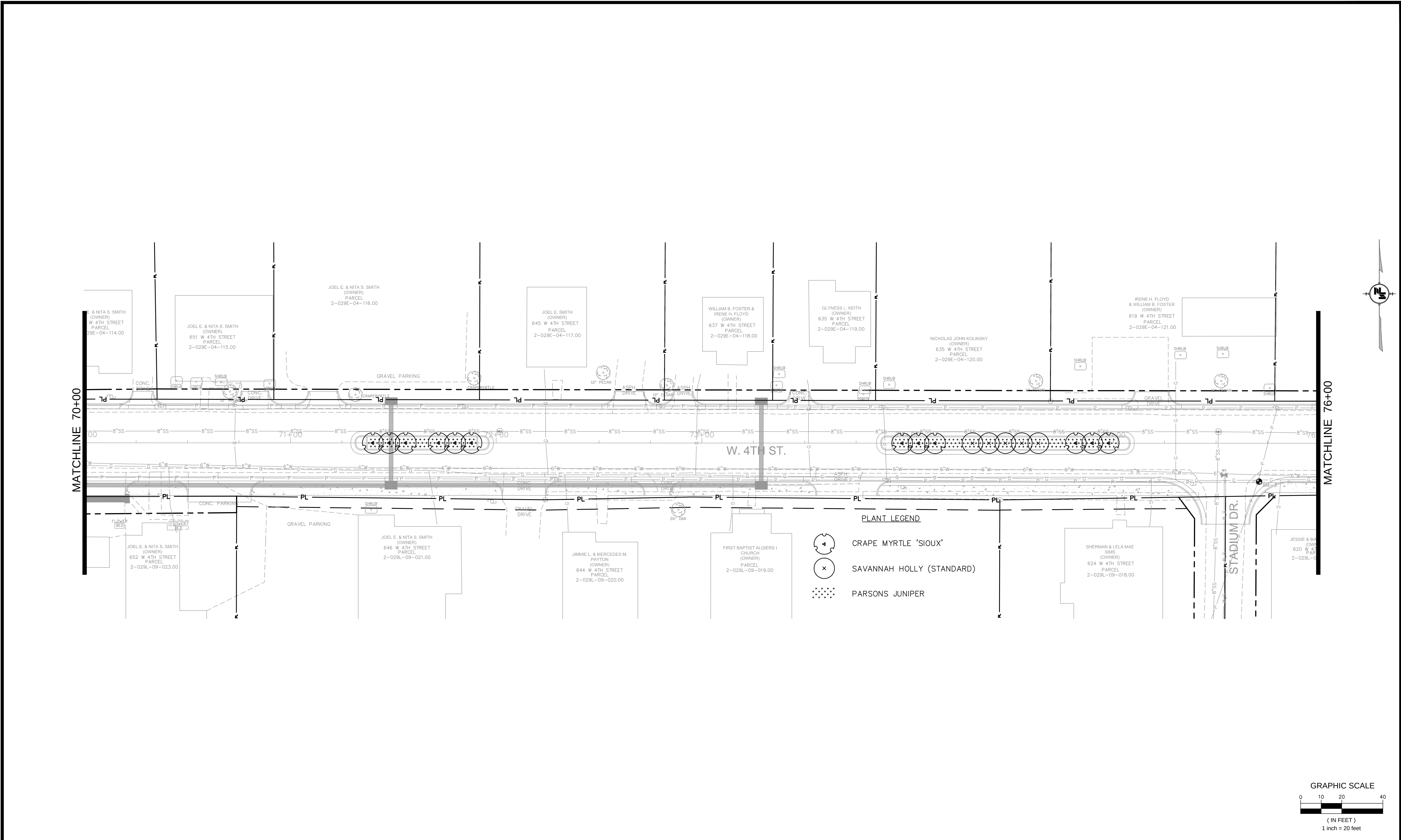
NOTE:
SEE WKG NO. DET-5 FOR CROSSWALK STRIPING
DETAILS.

PAVEMENT MARKING LEGEND

SYMBOL	DESCRIPTION	UNIT	QUANTITY
①	6" THERMOPLASTIC TRAFFIC STRIPE, SKIP YELLOW	LIN. FT.	80
②	6" THERMOPLASTIC TRAFFIC STRIPE, CONT. YELLOW	LIN. FT.	994
③	THERMOPLASTIC DETAIL STRIPE, WHITE	LIN. FT.	175
④	THERMOPLASTIC LEGEND, WHITE	SQ. FT.	109.6
⑤	THERMOPLASTIC LEGEND, WHITE	LIN. FT.	543
⑥	THERMOPLASTIC DETAIL STRIPE, YELLOW	LIN. FT.	117
⑦	2-WAY YELLOW REFLECTIVE H.P. RAISED MARKERS	EACH	56
⑧	RED/CLEAR REFLECTIVE H.P. RAISED MARKERS	EACH	8



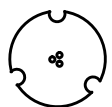
NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		PAVEMENT MARKING AND SIGNING STA. 76+00 TO STA. 82+00	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: PM.DWG					
					SCALE: 1" = 20'					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				
										WORKING NUMBER:
							PM-2	43		



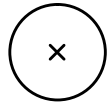
NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFFER <i>Solutions you can build upon</i>	LANDSCAPE PLAN SHEET 1	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: LANDSCAPE.DWG					
					SCALE: 1" = 20'					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				
								LS-1	44	

LANDSCAPE QUANTITIES & VEGETATION SCHEDULE								
LANDSCAPE ITEMS		QTY	SIZE/UNIT	SEASONAL APPLICATIONS-DATES & RATES				REQUIREMENTS
				SPRING & SUMMER		FALL & WINTER		
PAY ITEM NO.	ITEMS			RATES	DATES	RATES	DATES	
ABSORBED	SOIL TEST	1						REQUIRED TO BE SUBMITTED IN ADVANCE OF ALL LANDSCAPE CONSTRUCTION ITEMS (ABSORBED IN BED PREP) TO BE PLACED IN PAVEMENT REMOVAL, DISTURBED AREAS AND BED PREP AS DETERMINED BY THE ENGINEER
211-D001	TOPSOIL FOR PLANT PITS, CONTRACTOR FURNISHED	40	CU. YD.	PER CU.YD.	NOT APPLICABLE	PER CU.YD.	NOT APPLICABLE	
219-A001	WATERING	10	KGAL	AS REQUIRED	NOT APPLICABLE	AS REQUIRED	NOT APPLICABLE	CONTRACTOR IS RESPONSIBLE FOR ALL WATERING AND MAINTENANCE DURING THE CONSTRUCTION PERIOD. (SEE SPECIFICATIONS).
907-230-B087	TREE PLANTING, CREPE MYRTLE 'SIOUX'	12	30 GALLON	EACH	UPON REQUEST BY ENGINEER	EACH	UPON REQUEST BY ENGINEER	FULL & HEALTHY PLANT; MULTI-TRUNK (3 OR 5 CANES)/TREE FORM; FULL CANOPY, 6' CLEAR TRUNK
907-230-B076	TREE PLANTING, SAVANNAH HOLLY	5	30 GALLON	EACH	UPON REQUEST BY ENGINEER	EACH	UPON REQUEST BY ENGINEER	FULL & HEALTHY PLANT; SINGLE STRAIGHT TRUNK/TREE FORM (STANDARD); FULL CANOPY, 6' CLEAR TRUNK
907-230-A044	SHRUB PLANTING, PARSONS JUNIPER	245	1 GALLON	EACH	UPON REQUEST BY ENGINEER	EACH	UPON REQUEST BY ENGINEER	FULL & HEALTHY PLANT
907-230-D001	BED PREPARATION	975	SQ. FT.	PER SQ. FT.	NOT APPLICABLE	PER SQ. FT.	NOT APPLICABLE	APPLIED TO AREAS AS NOTED IN THE PLANS
232-A003	FERTILIZER FOR WOODY PLANT MATERIAL, TABLET, 10 GRAM	1	K	PER K	NOT APPLICABLE	PER K	NOT APPLICABLE	3 PER TREE PLANTING (102 TOTAL TABLETS)
ABSORBED PER SPEC	TREE BARK MULCH, TYPE 3							1" INCORPORATED INTO BED PREP AREA
ABSORBED PER SPEC	TREE BARK MULCH, TYPE 5							3" SURFACE APPLICATION IN BED PREP AREA

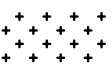
PLANT LEGEND



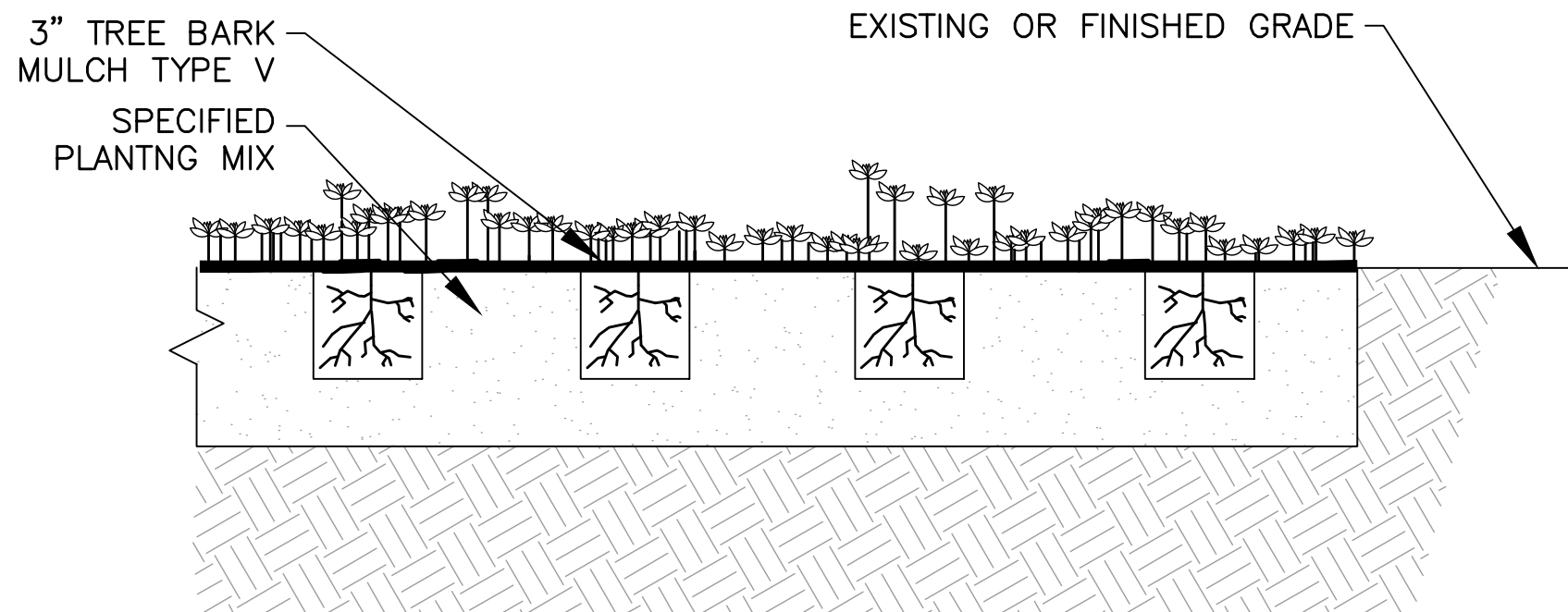
CAPE MYRTLE 'SIOUX'



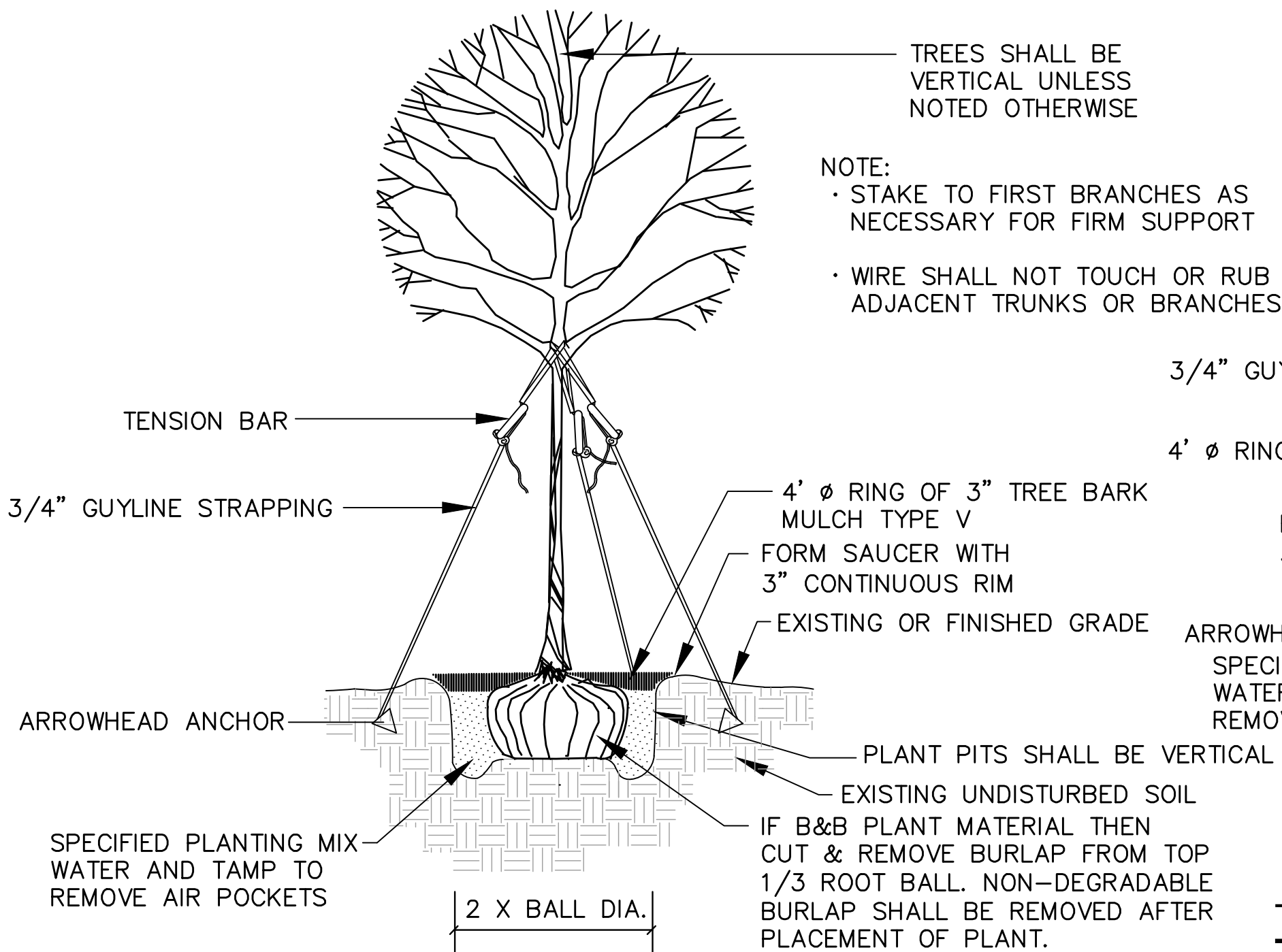
SAVANNAH HOLLY (STANDARD)



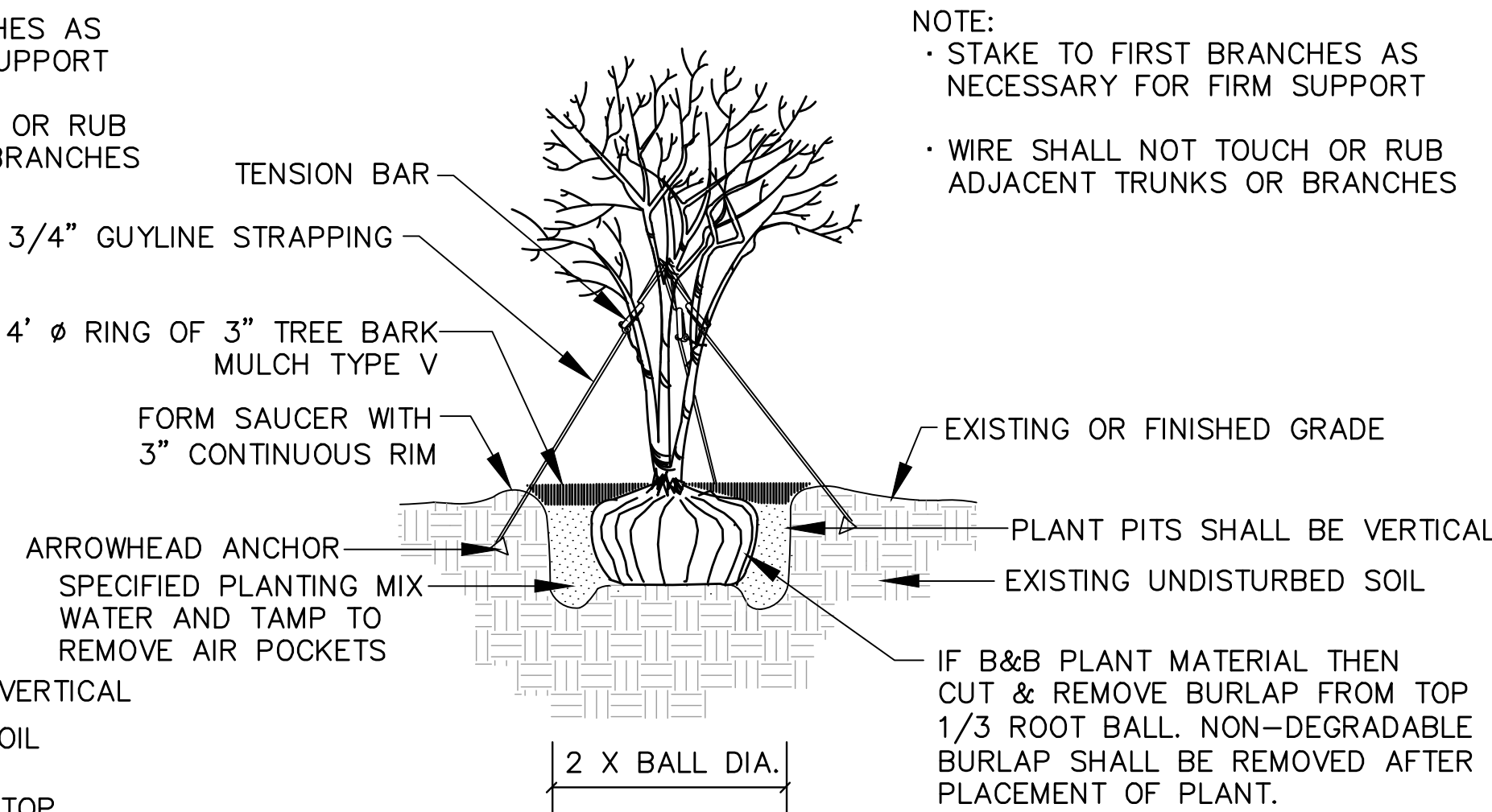
PARSONS JUNIPER



TYPICAL GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



TYPICAL SINGLE-TRUNK TREE PLANTING DETAIL
NOT TO SCALE



TYPICAL MULTI-TRUNK TREE PLANTING DETAIL
NOT TO SCALE

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REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001	
				FILENAME: LANDSCAPE.DWG	
				SCALE: NOT TO SCALE	
				SURVEYED BY: SHOWS, DEARMAN & WAITS	
				DSON: GPC	DATE: 06/2016
				DRWN: GPC	DATE: 06/2016
				CHKD:	DATE:
				QA/QC:	DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

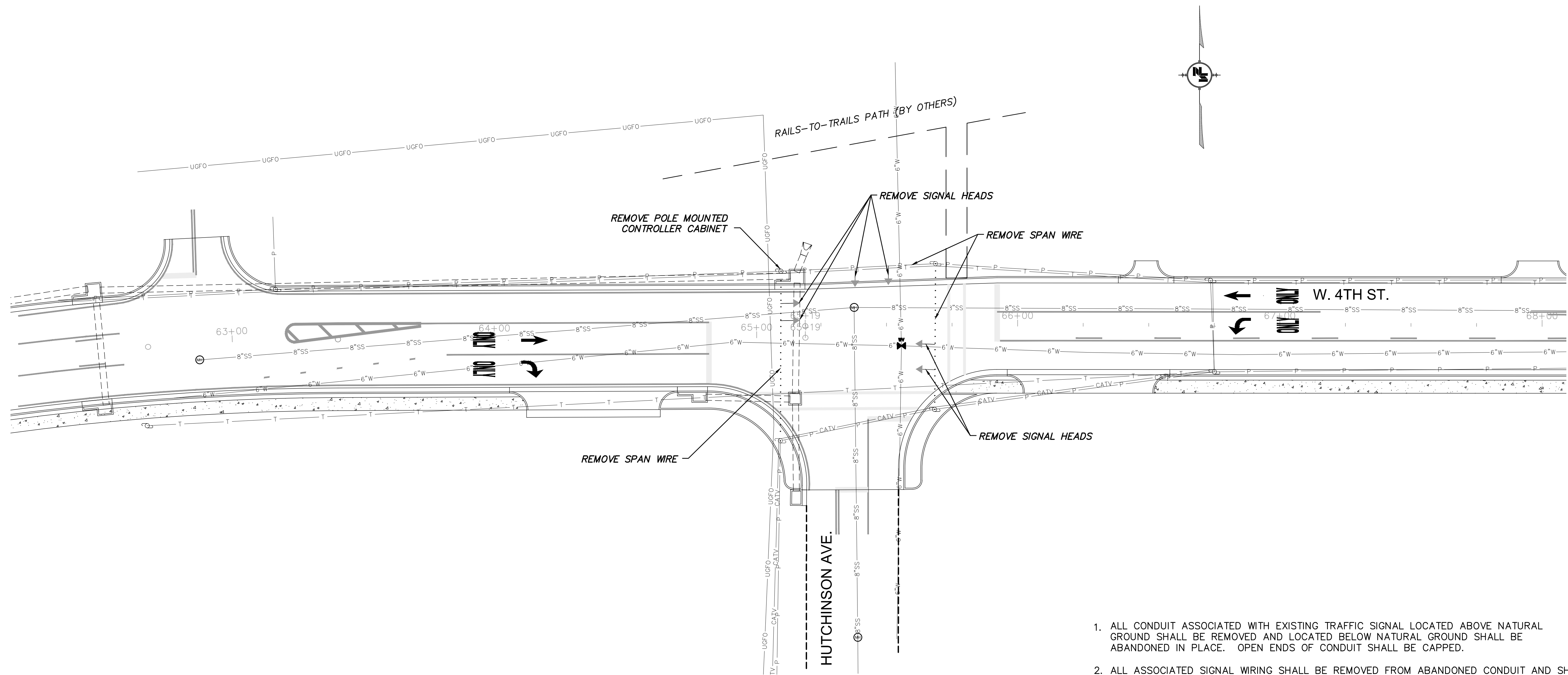
CITY OF HATTIESBURG
FORREST COUNTY, MS



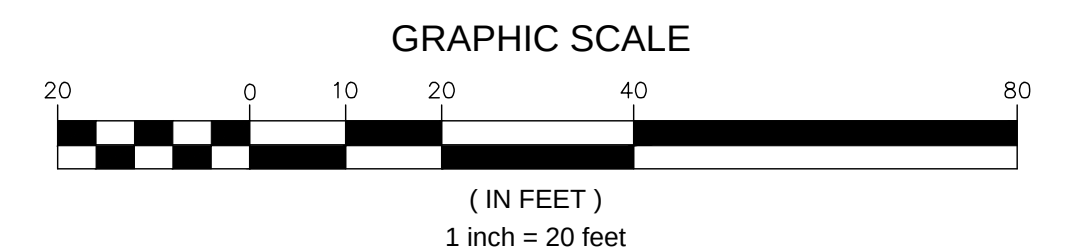
LANDSCAPE PLAN SHEET 2
VEGETATION SCHEDULE & DETAILS

WORKING NUMBER:
LS-2

DRAWING NUMBER:
45

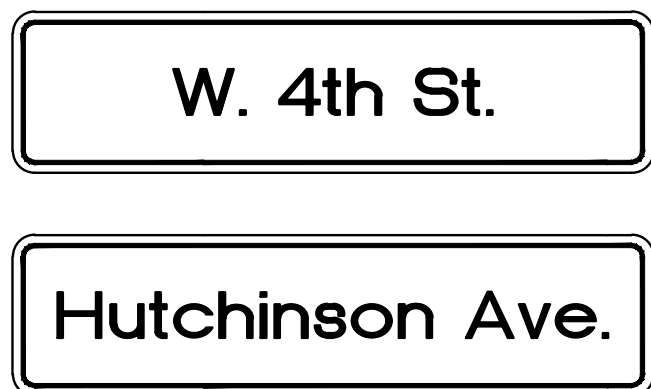


1. ALL CONDUIT ASSOCIATED WITH EXISTING TRAFFIC SIGNAL LOCATED ABOVE NATURAL GROUND SHALL BE REMOVED AND LOCATED BELOW NATURAL GROUND SHALL BE ABANDONED IN PLACE. OPEN ENDS OF CONDUIT SHALL BE CAPPED.
2. ALL ASSOCIATED SIGNAL WIRING SHALL BE REMOVED FROM ABANDONED CONDUIT AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
3. ALL REMOVED SIGNAL EQUIPMENT SHALL BE STORED AS DIRECTED BY THE CITY OF HATTIESBURG.
4. ALL CONCRETE FOUNDATIONS ASSOCIATED WITH SIGNAL DEMOLITION SHALL BE REMOVED TO A DEPTH OF 6" BELOW NATURAL GROUND AND BACKFILLED AS DIRECTED.
5. EXISTING POLES USED TO SUPPORT SPAN WIRE ARE THE PROPERTY OF MISSISSIPPI POWER CO. AND SHALL NOT BE REMOVED. UTILITY RELOCATION SHALL BE PERFORMED BY OTHERS.



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	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001			WORKING NUMBER:	DRAWING NUMBER:
					FILENAME: DEMO.DWG			TSDEMO-1	46
					SCALE: 1" = 20'				
					SURVEYED BY: SHOWS, DEARMAN & WAITS				
					DSON: GPC	DATE: 06/2016			
					DRWN: GPC	DATE: 06/2016			
					CHKD:	DATE:			
					QA/QC:	DATE:			

SIGNALS



DETECTOR ASSIGNMENT SUMMARY

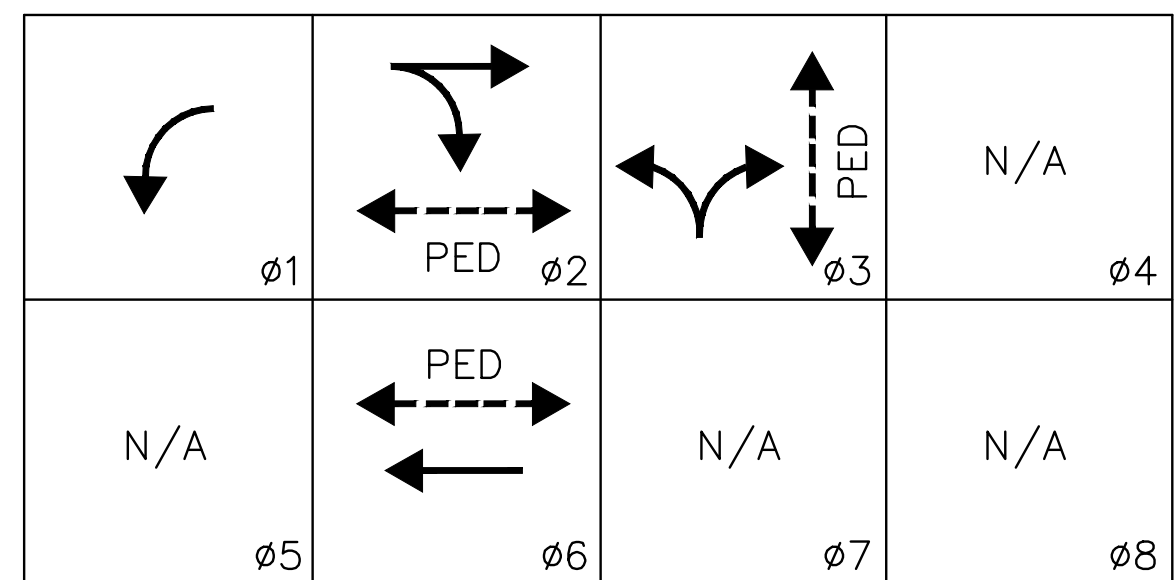
DETECTOR NUMBER	VIDEO ZONE SIZE	CAMERA	REMARKS
1	6' x 50'	VD1	VIDEO
2A	6' x 50'	VD2	VIDEO
2B	6' x 50'	VD2	VIDEO
3A	6' x 50'	VD3	VIDEO
3B	6' x 50'	VD3	VIDEO
6	6' x 50'	VD1	VIDEO
DETECTOR NUMBER CORRESPONDS WITH PHASE NUMBER			

MAST ARM POLE CHART

LOCATION *		SHAFT LENGTH	MAST ARM LENGTH	HEAD/SIGN SPACING	STREET NAME SIGN		POLE TYPE
					SIGN	EST. SIZE	
SE CORNER	NORTH	30'	30'	9, 15, 18, 27	HUTCHINSON AVE	78"x18"	IV
NW CORNER	SOUTH	30'	30'	8, 13, 22, 25	W. 4TH ST.	48"x18"	IV
	EAST		55'	22, 32, 35, 44, 47	HUTCHINSON AVE	78"x18"	
NE CORNER	N/A	8'	N/A	N/A	N/A	N/A	VI
SW CORNER	N/A	8'	N/A	N/A	N/A	N/A	VI

* LOCATION OF ARMS ARE DETERMINED FROM THE CENTER OF THE SUPPORT POLE TO THE END OF THE MAST ARM.
* MAST ARMS AND POLES SHALL BE POWDER COATED DARK BRONZE.

SIGNAL PHASING



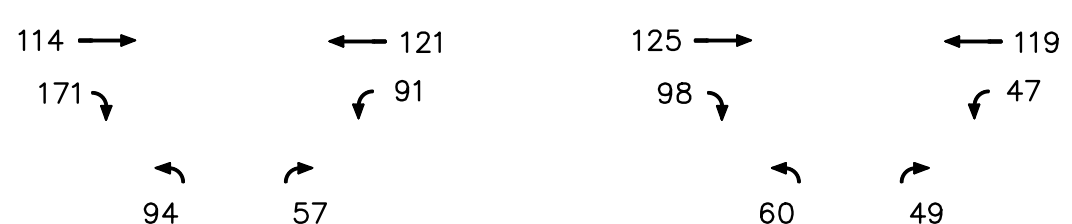
MINIMUM RECALL: ø2 + ø6
FLASHING OPERATION - YELLOW: ø2 + ø6
RED: ø3
NO FLASH: ø1

EMERGENCY PRE-EMPT:
CHANNEL 1 - ø1 + ø6
CHANNEL 2 - ø2
CHANNEL 3 - ø3

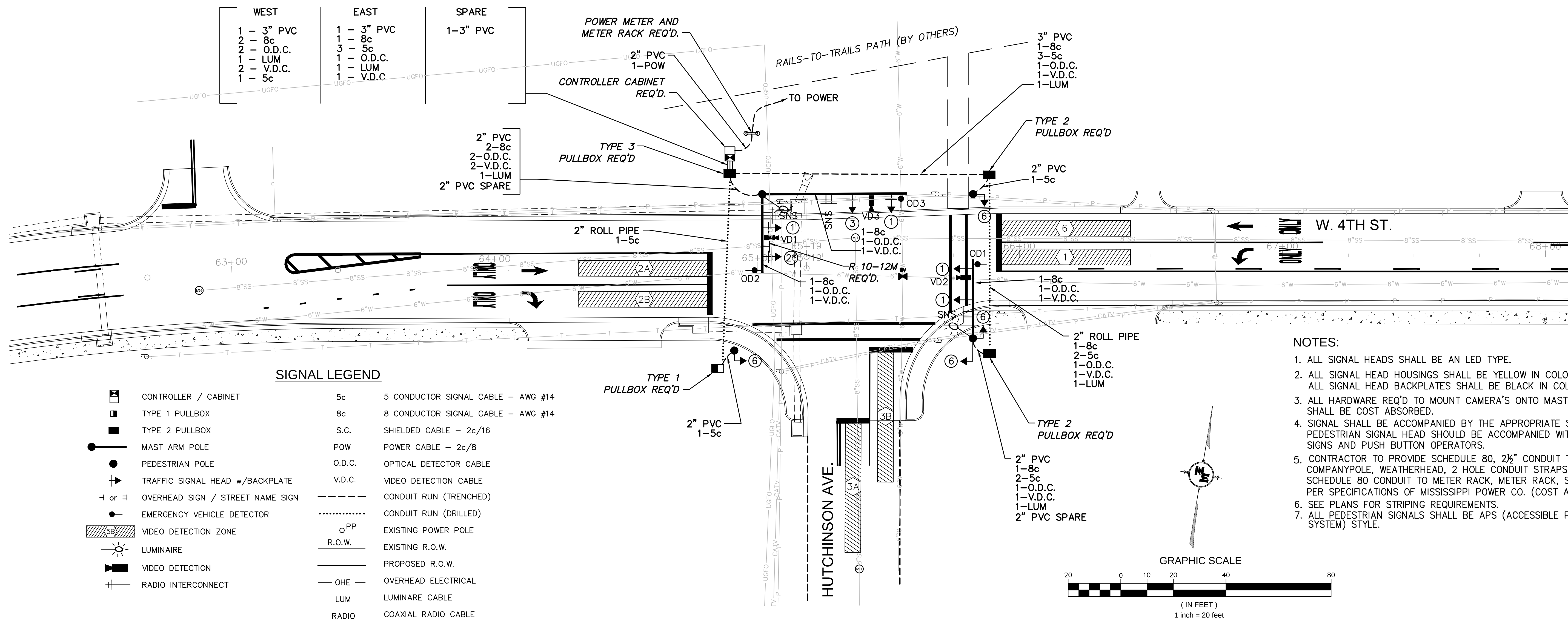
2011 COUNTS

A.M. PEAK HOUR

P.M. PEAK HOUR



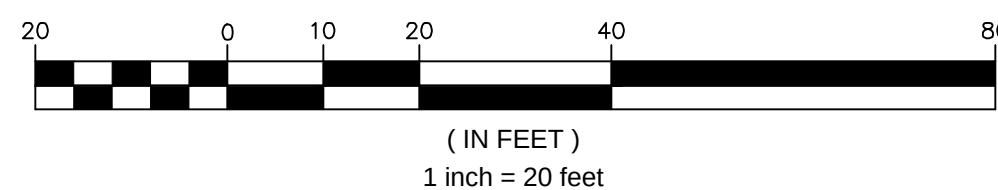
DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



NOTES:

- ALL SIGNAL HEADS SHALL BE AN LED TYPE.
- ALL SIGNAL HEAD HOUSINGS SHALL BE YELLOW IN COLOR. ALL SIGNAL HEAD BACKPLATES SHALL BE BLACK IN COLOR.
- ALL HARDWARE REQ'D TO MOUNT CAMERA'S ONTO MAST ARMS SHALL BE COST ABSORBED.
- SIGNAL SHALL BE ACCOMPANIED BY THE APPROPRIATE SUPPLEMENTARY SIGNS. PEDESTRIAN SIGNAL HEAD SHOULD BE ACCOMPANIED WITH SUPPLEMENTARY SIGNS AND PUSH BUTTON OPERATORS.
- CONTRACTOR TO PROVIDE SCHEDULE 80, 2½" CONDUIT TO AND UP POWER COMPANYPOLE, WEATHERHEAD, 2 HOLE CONDUIT STRAPS, AND UNDERGROUND SCHEDULE 80 CONDUIT TO METER RACK, METER RACK, SWITCH, AND METER AS PER SPECIFICATIONS OF MISSISSIPPI POWER CO. (COST ABSORBED)
- SEE PLANS FOR STRIPING REQUIREMENTS.
- ALL PEDESTRIAN SIGNALS SHALL BE APS (ACCESSIBLE PEDESTRIAN SYSTEM) STYLE.

GRAPHIC SCALE



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REVISIONS

NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION

N-S PROJECT NO.: 2-0-7856-01
FILENAME: 7856_SIGNAL.dwg
SCALE: 1" = 20'
SURVEYED BY:
DSGN: GPC DATE: 06/2016
DRWN: JPF DATE: 06/2016
CHKD: DATE:
QA/QC: DATE:

FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS

NEEL-SCHAFFER
Solutions you can build upon

TRAFFIC SIGNAL
INSTALLATION PLAN

WORKING NUMBER:

TSI-1

DRAWING NUMBER:

47

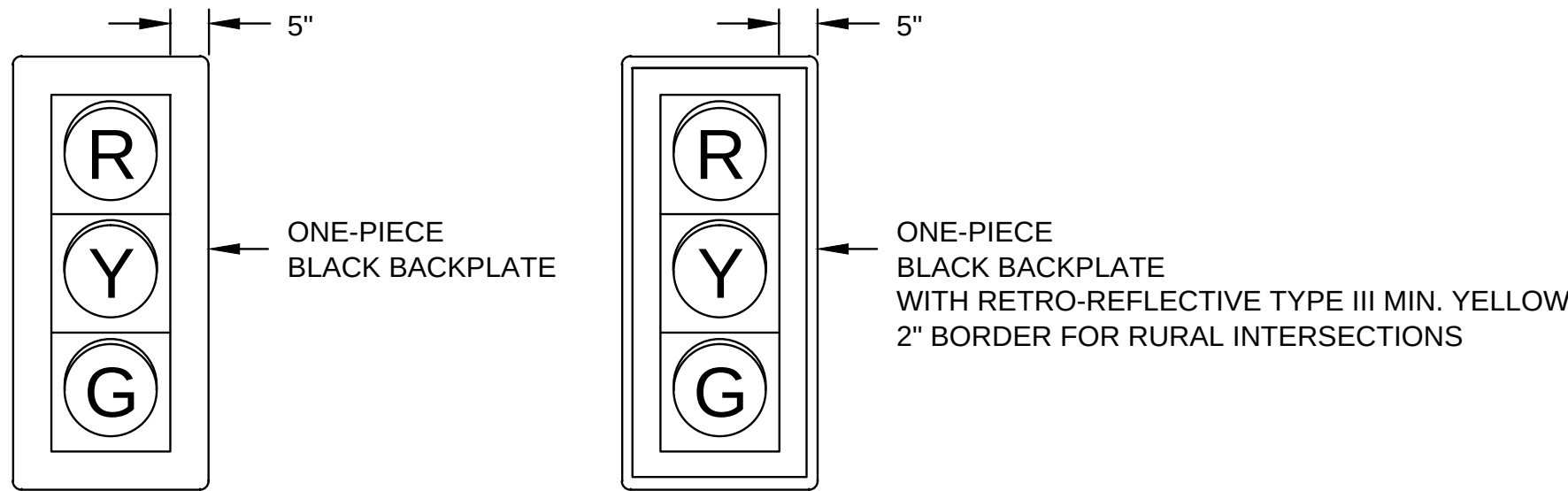
DETAIL OF TYPICAL TRAFFIC SIGNAL HEADS

TYPE 1	TYPE 2	TYPE 2 FYA	TYPE 3	TYPE 4	TYPE 5	TYPE 6	TYPE 7	TYPE 8

NOTES:

- ALL SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL SIGNAL HEADS SHALL BE L.E.D. LENSES UNLESS OTHERWISE NOTED ON THE PLANS. TYPE "A" SIGNAL HEAD IS TO BE OPTICALLY PROGRAMMED VIA LOUVERS.
- LETTER "R" ON HEAD TYPES MEANS RIGHT TURN ARROW(S).
- TYPE 6 SIGNAL HEAD SHALL BE FURNISHED WITH R10-36 SIGN & PEDESTRIAN PUSHBUTTON. TYPE 6 SIGNAL HEAD SYMBOLS/NUMBERS SHALL BE FULLY ILLUMINATED (NO OUTLINE SYMBOLS ALLOWED).
- TYPE 7 SIGNAL HEAD SHALL BE FURNISHED WITH R10-12 SIGN WHEN INDICATED ON PLANS. TYPE 4 & 5 SIGNAL HEADS SHALL BE FURNISHED WITH R10-10L SIGNS. TYPE 2 FYA SIGNAL HEAD SHALL BE FURNISHED WITH A FYA SIGN. COST OF SIGNAL SIGNS SHALL BE COST ABSORBED.
- FOR SPAN WIRE INSTALLATION, THE HOUSING FOR THE RED INDICATION OF A TYPE 7 HEAD, SHALL BE ALUMINUM.

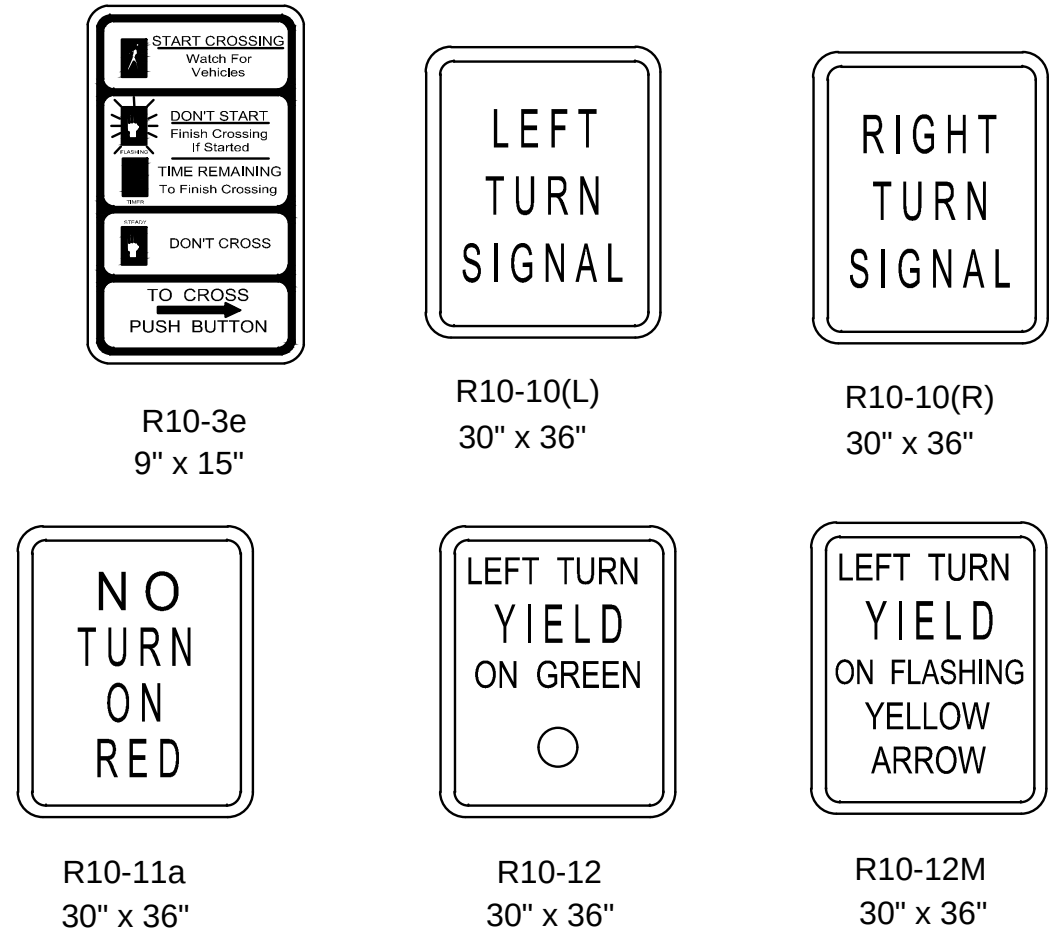
DETAIL OF TRAFFIC SIGNAL WITH BACKPLATE



NOTE:

ALL SIGNAL HEADS SHALL INCLUDE BACKPLATES UNLESS OTHERWISE NOTED ON TRAFFIC SIGNAL INSTALLATION SHEETS.

DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



NOTES:

- ALUMINUM SIGN BLANKS ARE TO BE ALLOY 5052-H38 AND 0.08" (NOMINAL) THICK.
- THE SIGNS SHALL BE SUPPLIED WITH MOUNTING BRACKETS AS REQUIRED.
- NUMBER 12 PLATED JACK CHAINS SHALL BE ATTACHED TO THE BOTTOM OF ALL SPAN WIRE MOUNTED SIGNS.
- CHAINS SHALL BE ATTACHED TO SIGN AND TETHER USING "S" HOOKS.
- THE SIZE OF THE SIGN BLANK, LEGEND, BORDER AND THE COLOR OF THE BACKGROUND AND LEGEND IS TO CONFORM TO THE M.U.T.C.D.
- THE BACKGROUND SHALL BE REFLECTORIZED USING TYPE IX SHEETING.

SIGNAL PLAN LEGEND

	SIGNAL HEAD REQUIRED / TYPE
	EXISTING SIGNAL HEAD
	SIGN
	VEHICLE LOOP DETECTOR
	QUADRAPOLE VEHICLE LOOP DETECTOR
	VEHICLE LOOP DETECTOR NUMBER
	WIRELESS MAGNETOMETER SENSOR
	BASE MOUNTED CABINET FOR SIGNAL CONTROLLER
	POLE MOUNTED CABINET FOR SIGNAL CONTROLLER
	EXISTING POLE
	POLE REQUIRED
	NEW PEDESTAL POLE
	EXISTING PULLBOX
	PULLBOX REQUIRED (TYPE 1)
	PULLBOX REQUIRED (TYPE SPECIFIED ON PLAN SHEETS)
	MAST ARM POLE REQUIRED
	RADAR DETECTOR
	CAMERA DETECTOR
	OPTICAL DETECTOR UNIT
	CONDUIT
	ROLL PIPE
	LUMINAIRE
	RADIO INTERCONNECT ANTENNA
	TWO-WAY WIRELESS ANTENNA
	WIRELESS REPEATER
	P.B. PUSH BUTTON
	S.C. SHIELDED CABLE
	POW POWER CABLE
	LUM LUMINAIRE POWER CABLE
	ODC OPTICAL DETECTOR CABLE
	4c NUMBER OF CONDUCTORS
	I.C. INTERCONNECT CABLE
	RAD RADIO COMMUNICATIONS CABLE
	FDC FIBER DROP CABLE
	VDC VIDEO DETECTION CABLE

GENERAL NOTES

- INTERCONNECT CABLE SHALL BE EITHER IMSA 40-2 OR IMSA 40-4 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- SIGNAL SUPPLY CABLE SHALL BE IMSA 20-1-1991 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- POWER SUPPLY CABLE SHALL BE IMSA 20-1-2 CONDUCTOR CABLE, STRANDED. AWG NUMBER AS SHOWN ON PLANS.
- DETECTOR SHIELDED CABLE SHALL BE IMSA 50-2 SIGNAL CABLE, AWG #14 STRANDED COPPER CONDUCTORS, UNLESS OTHERWISE NOTED ON THE PLANS.
- POLES, SIGNAL HEADS, EQUIPMENT BOXES, PULLBOXES AND CONDUIT MAY BE VARIED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, SIGNAL HEAD OR POLE LOCATIONS SHALL BE WITHIN REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND HIGHWAY DESIGN AND OPERATIONAL PRACTICES RELATED TO HIGHWAY SAFETY.
- POLES AND FOUNDATIONS OF EXISTING SIGNAL INSTALLATIONS SHALL BE CUT OFF 6" BELOW GROUND OR REMOVED AND AREA RESTORED TO MATCH ADJACENT SURFACE AS DIRECTED BY THE ENGINEER.
- LOOP AMPLIFIERS SHALL BE REQUIRED AS SHOWN ON PLANS WHERE TWO OR MORE LOOPS ARE CONNECTED TO THE SAME CHANNEL, THEY SHALL BE WIRED IN SERIES.
- THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARMS POLES SHALL BE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. USE FATIGUE CATEGORY II. DO NOT CONSIDER GALLOPING OR TRUCK FORCES. USE 50 YEAR DESIGN LIFE. WIND AND ICE LOADS VARIABLE BASED UPON MAPS IN THE 2001 AASHTO SPECIFICATION. USE UPSWEPT MAST ARMS.
- DETERMINATION OF REQUIRED SIZES, LENGTHS AND GAUGES OF TYPE I, II, III AND IV STEEL POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SECTION 722.02 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN PLANS OR SPECIFICATIONS.
- THE TOP OF THE STRAIN POLE FOUNDATION SHALL BE 6" ABOVE THE GROUND. THE CONTRACTOR SHALL PROVIDE POLES OF SUFFICIENT LENGTH PLUS 2 FEET TO PROVIDE REQUIRED VERTICAL CLEARANCE OF THE TRAFFIC SIGNAL HEADS WITHOUT EXTENDING THE FOUNDATION ABOVE THE GROUND LINE OF THE POINT WHERE THE POLE IS LOCATED, EVEN THOUGH THIS MAY BE BELOW THE FINISHED GRADE OF THE ROADWAY.
- ALL STRAIN POLES AT AN INTERSECTION SHALL BE THE SAME DIAMETER AND UTILIZE THE SAME BOLT CIRCLE SPACING.
- POLE FOUNDATIONS AND BASE MOUNTED CABINET FOUNDATIONS, GRADE SHALL BE ESTABLISHED TO $\pm 3"$ OF EDGE OF PAVEMENT ELEVATION AS DIRECTED BY THE ENGINEER
- TRAFFIC SIGNAL CABINETS AND CONTROLLERS SHALL BE WIRED TO PROVIDE FOR ALL PHASES INCLUDING FUTURE PHASES IN ACCORDANCE WITH THE PHASE SEQUENCE DIAGRAM.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR WITH THE COST TO BE ABSORBED, UNLESS OTHERWISE NOTED IN THE PLANS. THE EXISTING POLES, CABINETS, CONTROLLERS, TRAFFIC SIGNAL HEADS, AND OTHER ITEMS AS NOTED ON PLANS ARE TO BE STOCKPILED AS DIRECTED BY THE ENGINEER FOR PICKUP BY STATE FORCES OR AS NOTED ON PLANS. ALL OTHER SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ELECTRICAL SERVICE FROM THE POWER COMPANY SERVICE POINT TO THE TRAFFIC SIGNAL CONTROLLER. FOR SPAN WIRE INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT AERIAL TO THE SIGNAL POLE NEAREST THE CONTROLLER, THE SERVICE SHALL THEN RUN TO THE CONTROLLER AS SHOWN ON THE PLANS. FOR MAST ARM INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT UNDERGROUND DIRECTLY TO THE POWER SERVICE PANEL, THEN TO THE CONTROLLER, AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE APPLICATION WITH THE POWER COMPANY IN ADVANCE OF NEEDING THE SERVICE. INSTALLATION OF NEW SERVICE POLE (IF NEEDED) IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS COST ABSORBED. POWER SERVICE METER SHALL NOT BE MOUNTED ON THE CONTROLLER CABINET OR MAST ARM POLE SHAFT.
- IF IT IS NECESSARY TO RUN ELECTRIC SERVICE CABLE FROM ONE POLE TO ANOTHER, THE SERVICE CABLE SHALL BE LASHED TO A SEPARATE MESSENGER CABLE LOCATED 1 FOOT MIN. ABOVE THE SIGNAL CABLE.
- VEHICLE LOOP ASSEMBLIES SHALL BE INSTALLED IN THE TOP LAYER OF BINDER OR EXISTING SURFACE BEFORE THE FINAL SURFACE COURSE IS APPLIED.
- PEDESTRIAN PUSHBUTTONS AND SIGNS TO BE INCLUDED IN PAY ITEM FOR TYPE 6 HEADS AT NO ADDITIONAL COST. SIDE OF POLE LOCATIONS OF PUSHBUTTONS MAY BE FIELD ADJUSTED.
- FIELD DRILL AND TAP EXISTING POLES WHERE PEDESTRIAN SIGNALS AND PUSHBUTTONS ARE REQUIRED ON PLANS. (ABSORBED ITEM).
- REFER TO WORKING NUMBER TSD-5 "CONDUIT ENTRANCE DETAIL" WHEN NEW CONDUIT(S) ARE REQUIRED AT EXISTING SIGNAL POLES OR CONTROLLERS.
- MESSENGER CABLE AND OTHER SUPPORTING DEVICES WHERE REQUIRED SHALL BE ABSORBED IN THE PAY ITEMS FOR ELECTRIC CABLE.
- FOR PROTECTED/PERMITTED LEFT TURN PHASING: TYPE 7 OR 7A TRAFFIC SIGNAL HEADS (FIVE SECTION HEADS) SHALL OPERATE SUCH THAT THE CIRCULAR INDICATIONS DISPLAYED WILL BE IDENTICAL AND SIMULTANEOUS TO THE CIRCULAR INDICATIONS FOR THE ADJACENT THROUGH MOVEMENT SIGNAL HEADS; A CIRCULAR RED AND EITHER A GREEN ARROW OR YELLOW ARROW MAY BE DISPLAYED SIMULTANEOUSLY IN THE SAME FIVE SECTION HEAD. FOR TYPE 2 FYA TRAFFIC SIGNAL HEADS, OPERATION SHALL BE AS FOLLOWS: THE PROTECTED PHASE OF THIS OPERATION SHALL DISPLAY A SOLID GREEN ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THE PERMITTED PORTION OF THIS OPERATION SHALL START WITH A FLASHING YELLOW ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THERE SHALL BE A DELAY (AS DIRECTED BY THE ENGINEER) BETWEEN THE END OF THE PROTECTED PORTION OF THIS OPERATION AND THE BEGINNING OF THE PERMITTED PORTION OF THIS OPERATION. DURING THIS DELAY, THE OPPOSING PHASE THRU HEADS ARE CAPABLE OF DISPLAYING A GREEN BALL. SIGNAL CONTROLLER WITH FIRMWARE NECESSARY TO ACCOMPLISH THIS DELAY SHALL BE PROVIDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SIGNALS IF NECESSARY TO ACCOMMODATE ROADWAY CONSTRUCTION AND SHALL BE PAID FOR UNDER PAY ITEM 619-H1, TRAFFIC SIGNALS.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING FINAL INSPECTION MEETING WITH DISTRICT OFFICE, PROJECT OFFICE AND TRAFFIC ENGINEERING FOR SIGNAL PORTION OF THE PROJECT.
- THERE SHALL BE A 30 DAY BURN IN PERIOD FROM THE TIME THE SIGNAL IS OPERATIONAL AS OUTLINED IN SECTION 634.03.3 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION.
- EMERGENCY VEHICLE PREMPTION (WHERE REQUIRED ON THE PLANS) SHALL HAVE A SECURITY ENABLED PHASE SELECTOR.
- DESIGN WIND SPEEDS FOR TRAFFIC SIGNAL POLES SHALL BE 120 MPH, ACCORDING TO 2001 AASHTO SPECIFICATIONS. USE FATIGUE CATEGORY II, 50 YEAR DESIGN LIFE, AND DO NOT CONSIDER GALLOPING OR TRUCK-INDUCED GUSTS.
- TRAFFIC SIGNAL CABINETS SHALL HAVE A 16 LOAD BAY FACILITY, DUAL POSITION INTERNAL LED LIGHTING, A REAR ACCESS DOOR, A LAPTOP PULLOUT TRAY, AN AUTOHAND SWITCH IN THE POLICE PANEL, A PRE-WIRED 10 POSITION CARD RACK WITH 2-175 WATT MINIMUM POWER SUPPLIES AND 8 AVAILABLE CARD SLOTS.
- TRAFFIC SIGNAL MMU'S SHALL BE ETHERNET READY, 16 CHANNEL, AND CAPABLE OF RUNNING 12 DIFFERENT MODES OF FLASHING YELLOW ARROW OPERATION.

NOTICE TO DRAWING HOLDER

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

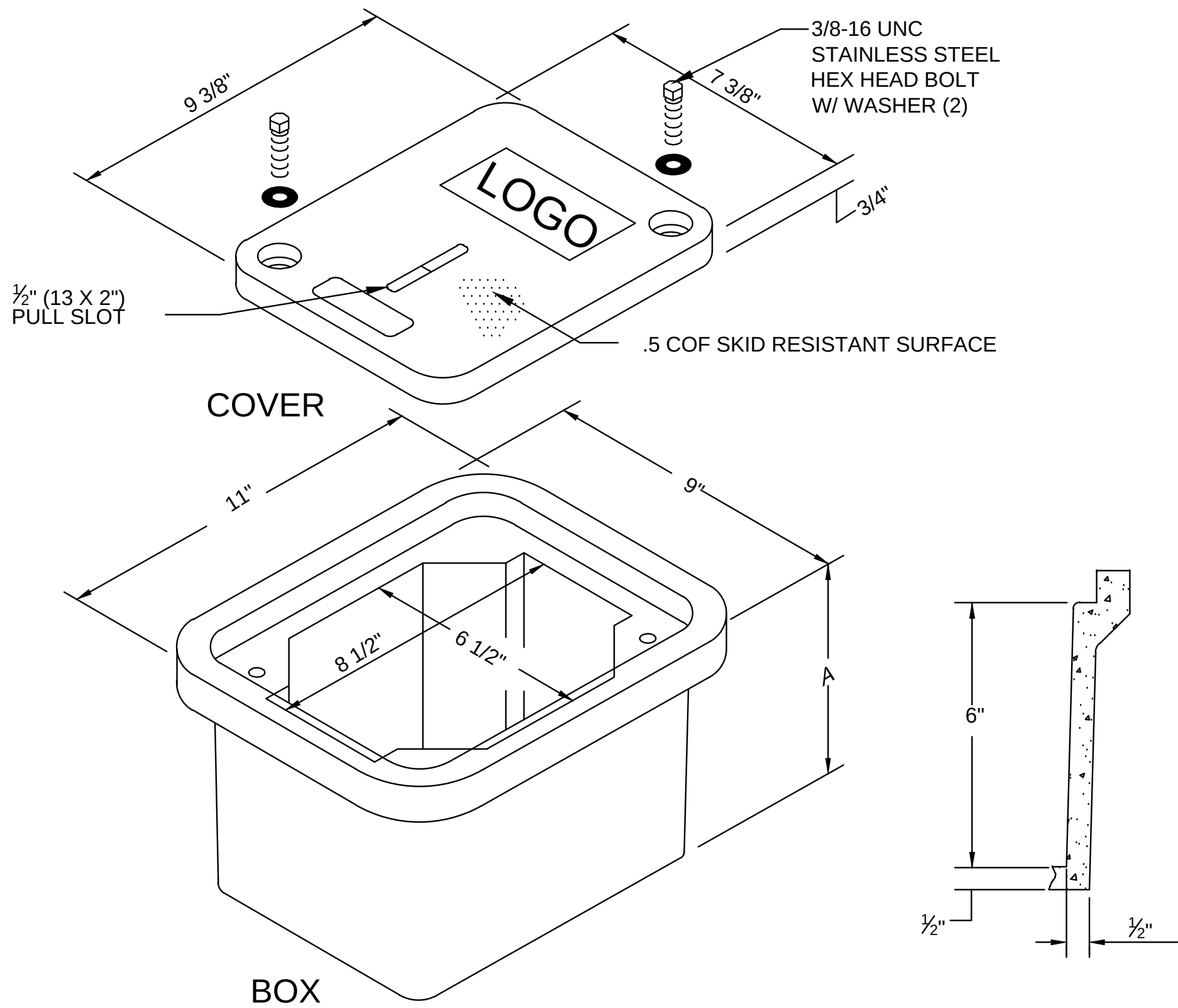
FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS



DETAIL OF TRAFFIC SIGNAL HEADS,
TRAFFIC SIGNAL SIGNS, AND
GENERAL NOTES

WORKING NUMBER:	DRAWING NUMBER:
TSD-1	48



TYPE 1 PULLBOX
NOT TO SCALE

Covers (blank unless logo is specified)

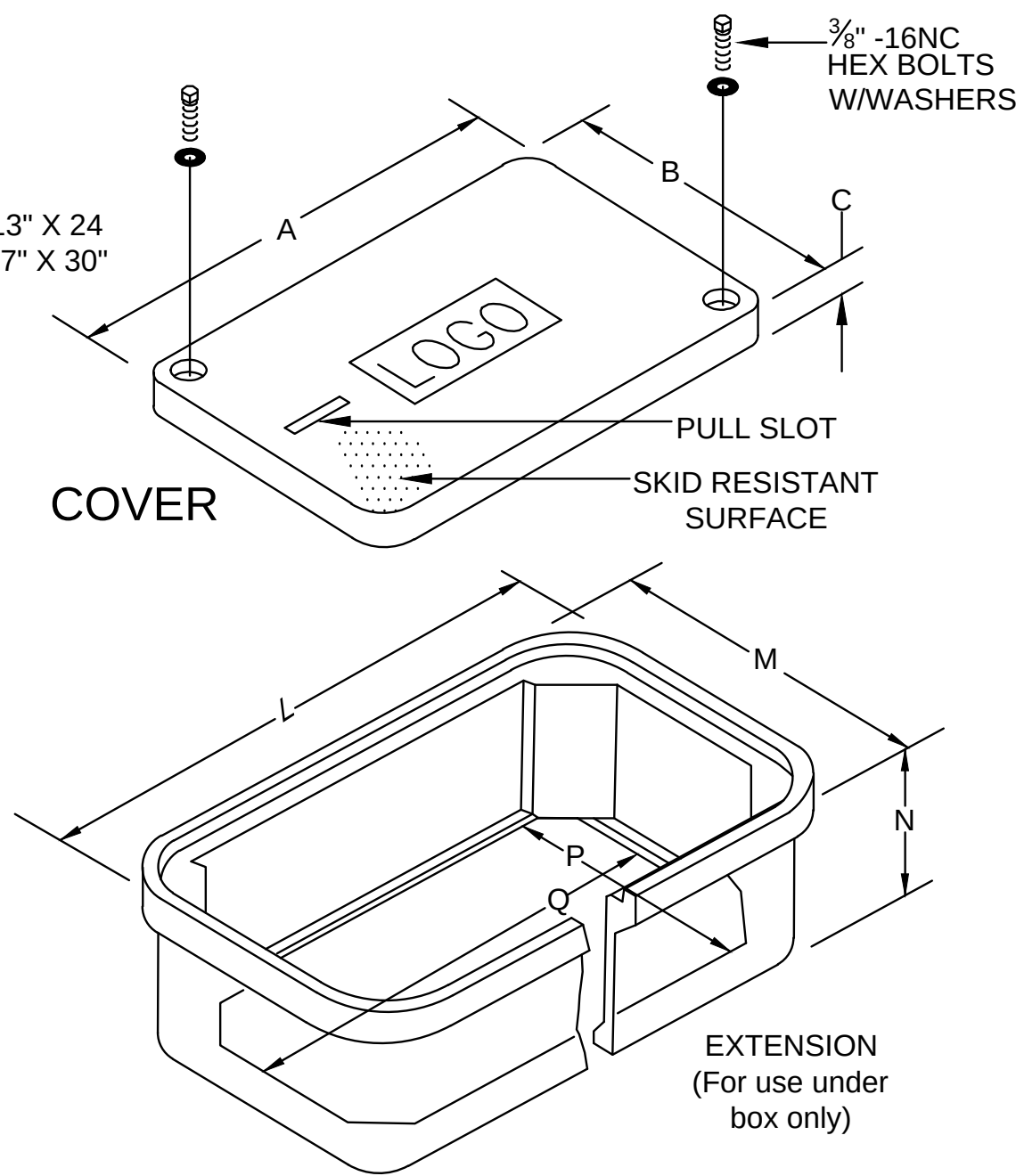
DESCRIPTION	WEIGHT #	DESIGN/TEST LOAD #	ANSI TIER
W/2 Bolts	4	8,000 / 12,000	8
Gasketed w/4 Bolts	4	8,000 / 12,000	8

Gasketed covers must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

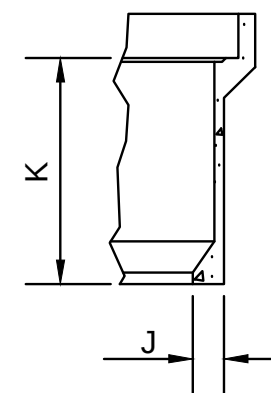
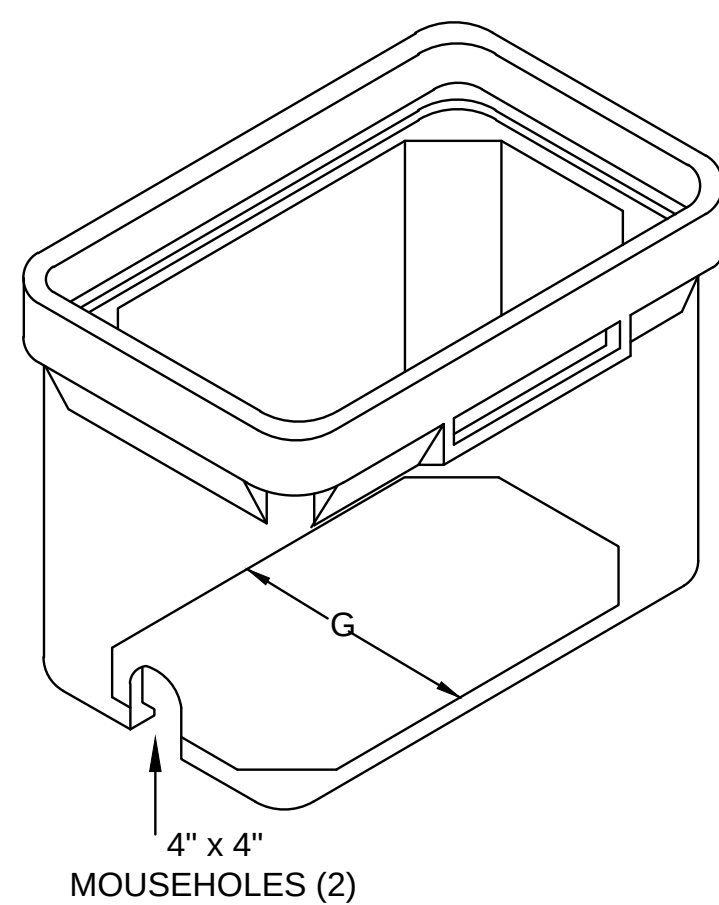
Boxes (Stackable with self-aligning, replaceable EZ-Nut)

DESCRIPTION	WEIGHT #	DIMENSION A	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	12	6 3/4"	15,000 / 22,500	15
Open Bottom w/Gasket	12	6 3/4"	15,000 / 22,500	15
Solid Bottom	14.5	7 1/4"	15,000 / 22,500	15
Solid Bottom w/Gasket	14.5	7 1/4"	15,000 / 22,500	15

Dimensions & weights in parentheses are metric equivalent.



TYPE 2 or 3 PULLBOX
NOT TO SCALE



- OPTIONS
1. Stainless steel standard penta-head bolt.
 2. Specific cove logo.
 3. Green or other colors
 4. Special holes/knockouts

Covers (blank unless logo is specified)

DESCRIPTION	DIMENSION (IN.)			WT. LBS.
	A	B	C	
Locking Cover	23-3/4	13-3/4	2	32
	30-1/2	17-1/2	2	47
Non-Locking Cover	23-3/4	13-3/4	2	33
	30-1/2	17-1/2	2	48
Steel Locking Cover	23-3/4	13-3/4	2	65
	30-1/2	17-1/2	2	90
Heavy Duty Locking Cover	23-3/4	13-3/4	2	50
	30-1/2	17-1/2	2	74

Boxes (Stackable)	DIMENSION (IN.)							
DESCRIPTION	D	E	F	G	H	J	K	WT. LBS.
Standard Box	25	15-½	12	9-¾	19-¼	1-¼	10	53
	25	15-½	18	9-¾	19-¼	1-¼	16	62
	32-¼	19-¼	12	13-½	26-½	1-¼	10	82
	32-¼	19-¼	18	13-½	26-½	1-¼	16	94
Box w/ Mouseholes	32-¼	19-¼	22	13-½	26-½	1-¼	20	106
	25	15-½	12	9-¾	19-¼	1-¼	10	49
	25	15-½	18	9-¾	19-¼	1-¼	16	61
	32-¼	19-¼	12	13-½	26-½	1-¼	10	80
Box w/ Solid Base	32-¼	19-¼	18	13-½	26-½	1-¼	16	80
	32-¼	19-¼	22	13-½	26-½	1-¼	20	104
	25	15-½	18½	N/A	N/A	N/A	16	73
	32-¼	19-¼	18½	N/A	N/A	N/A	16	106

*Not to be used for extensions

Extensions (For use under box only)

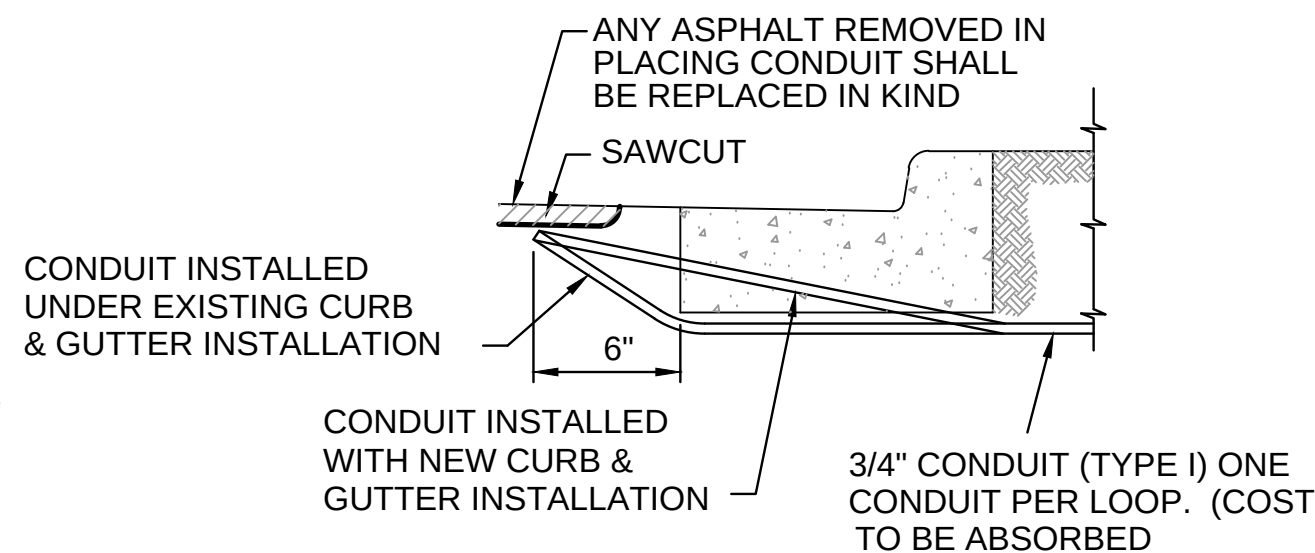
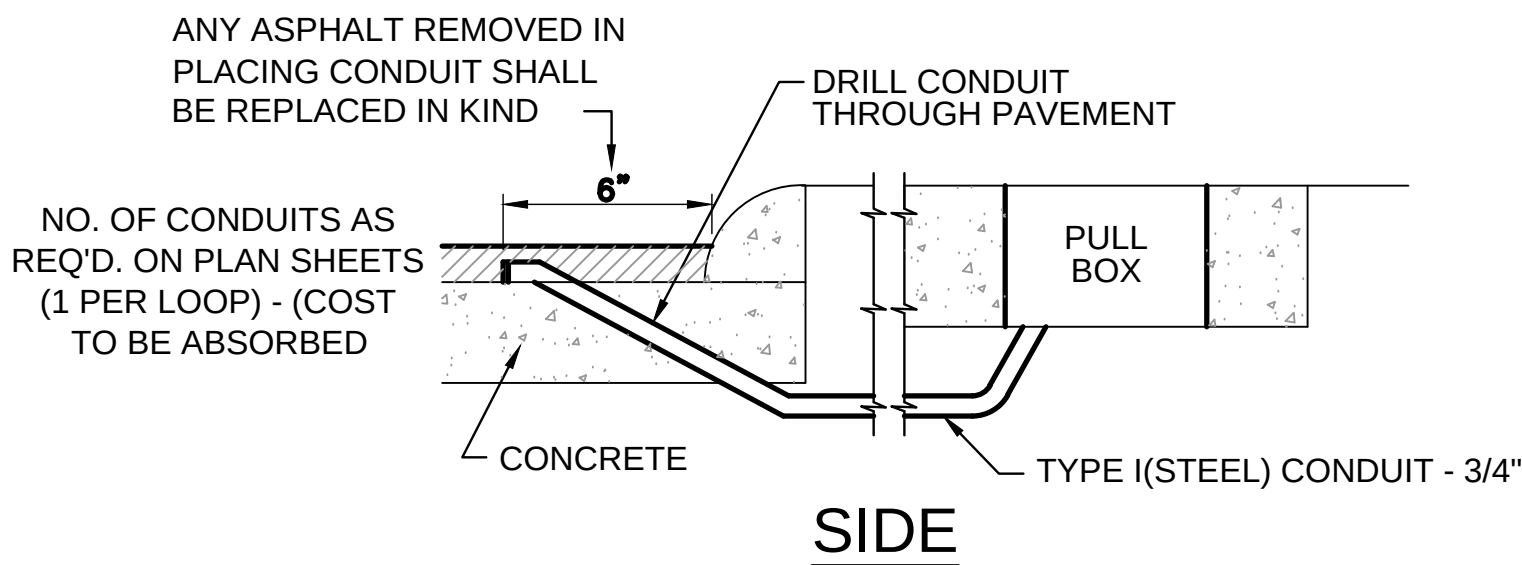
DESCRIPTION	DIMENSION (IN.)							WT. LBS.
	L	M	N	P	Q	R	S	
Extension (One Per Box)	23-3/4	14-1/4	8-3/4	10-1/4	19-3/4	8	1	25
	30-7/8	17-7/8	8-3/4	13-7/8	26-7/8	8	1	47
Extension w/ Solid Base	23-3/4	14-1/4	9-1/4	N/A	N/A	8	N/A	35
	30-7/8	17-7/8	9-1/4	N/A	N/A	8	N/A	65

Underground enclosures shall be Composites. Enclosures and covers shall be concrete gray color and rated for no less than 8,000 lbs. over a 10" X 10" area and be designed and tested to temperatures of -50 F. Material compressive strength shall be no less than 11,000 psi. Covers shall have a minimum coefficient of friction of .5. Boxes shall be stackable for extra depth.

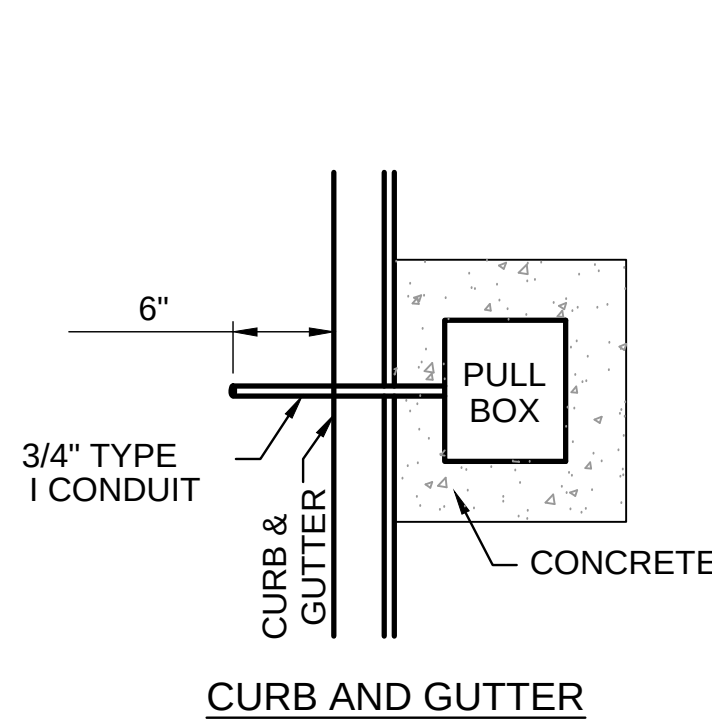
NOMINAL PULLBOX SIZES

TYPE 1	TYPE 2	TYPE 3
9" x 11" x 6 3/4"	15" x 25" x 18"	19" x 32" x 24"

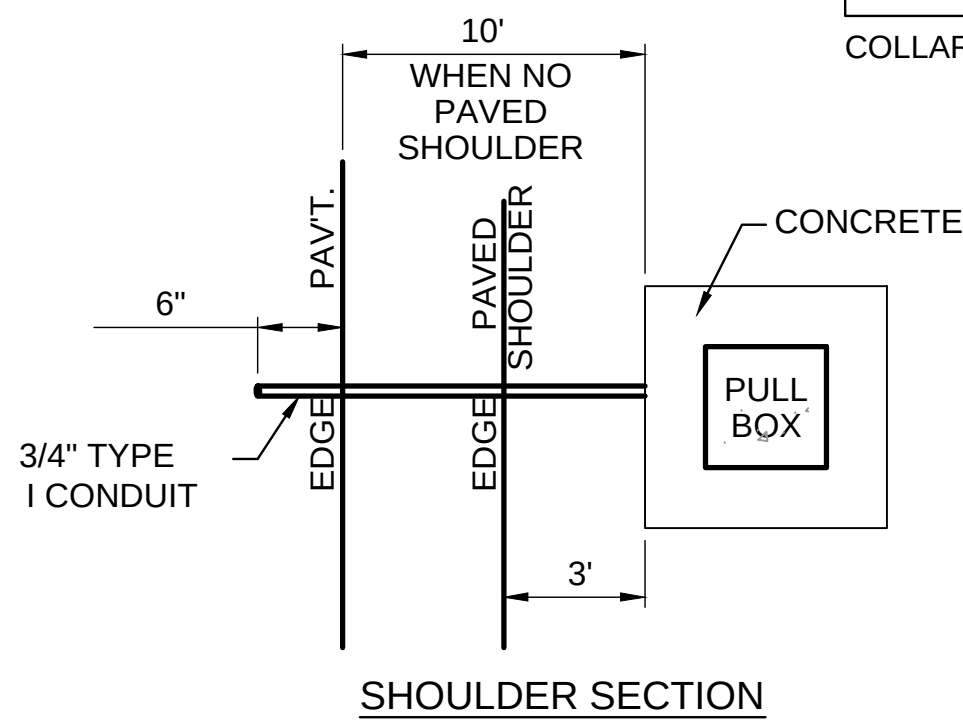
COLLARS AND GRAVEL UNDER PULLBOX REQUIRED FOR ALL TYPES OF PULLBOXES



CONDUIT TRENCHING DETAIL
NOT TO SCALE



PULL BOX LOCATION DETAIL
NOT TO SCALE



SHOULDER SECTION

NOTICE TO DRAWING HOLDER

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FOURTH STREET
ROADWAY IMPROVEMENT PROJECT-PHASE II
PROJECT NO. HPP-7194-00(003) LPA/105845-801000

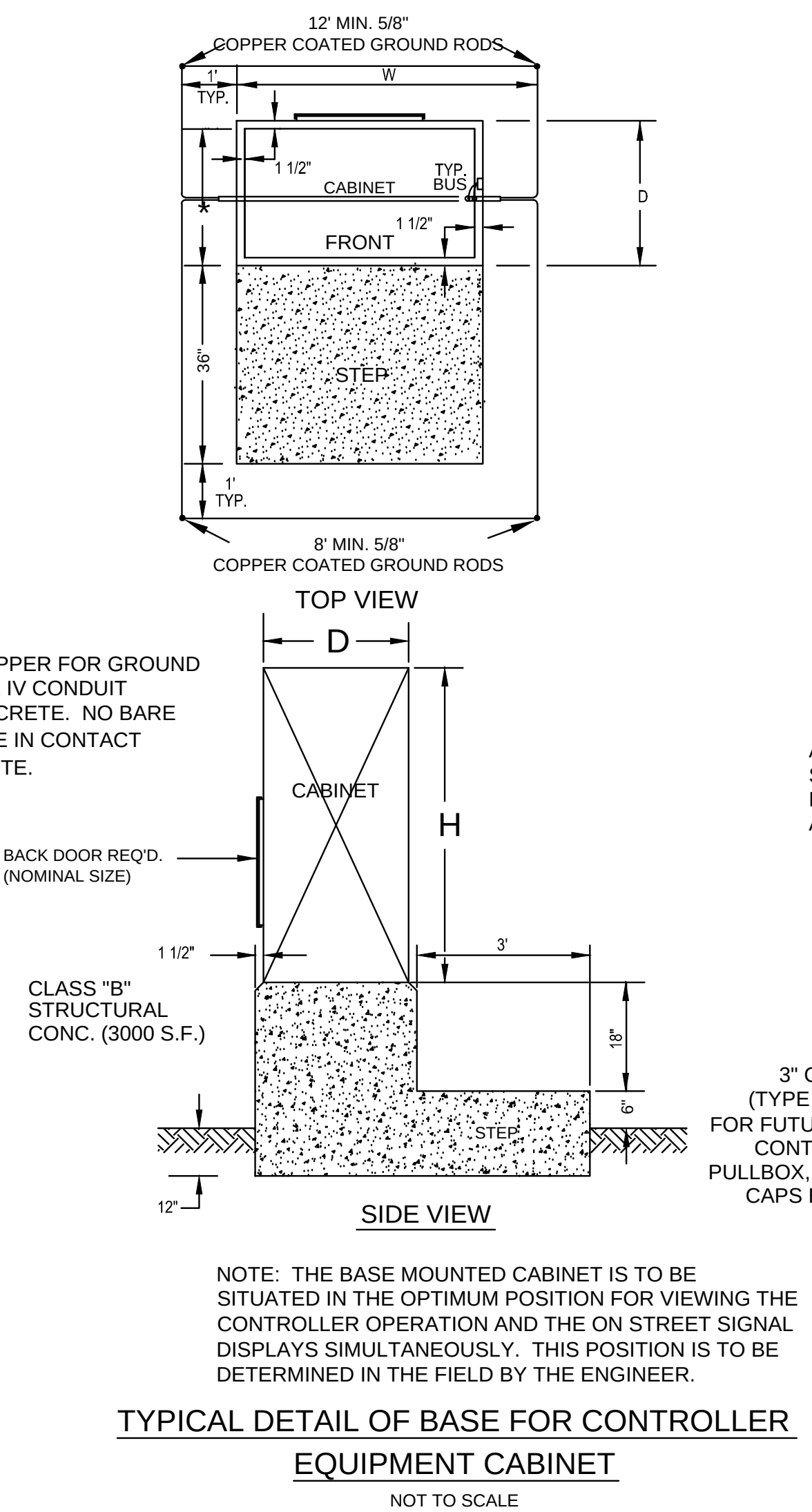
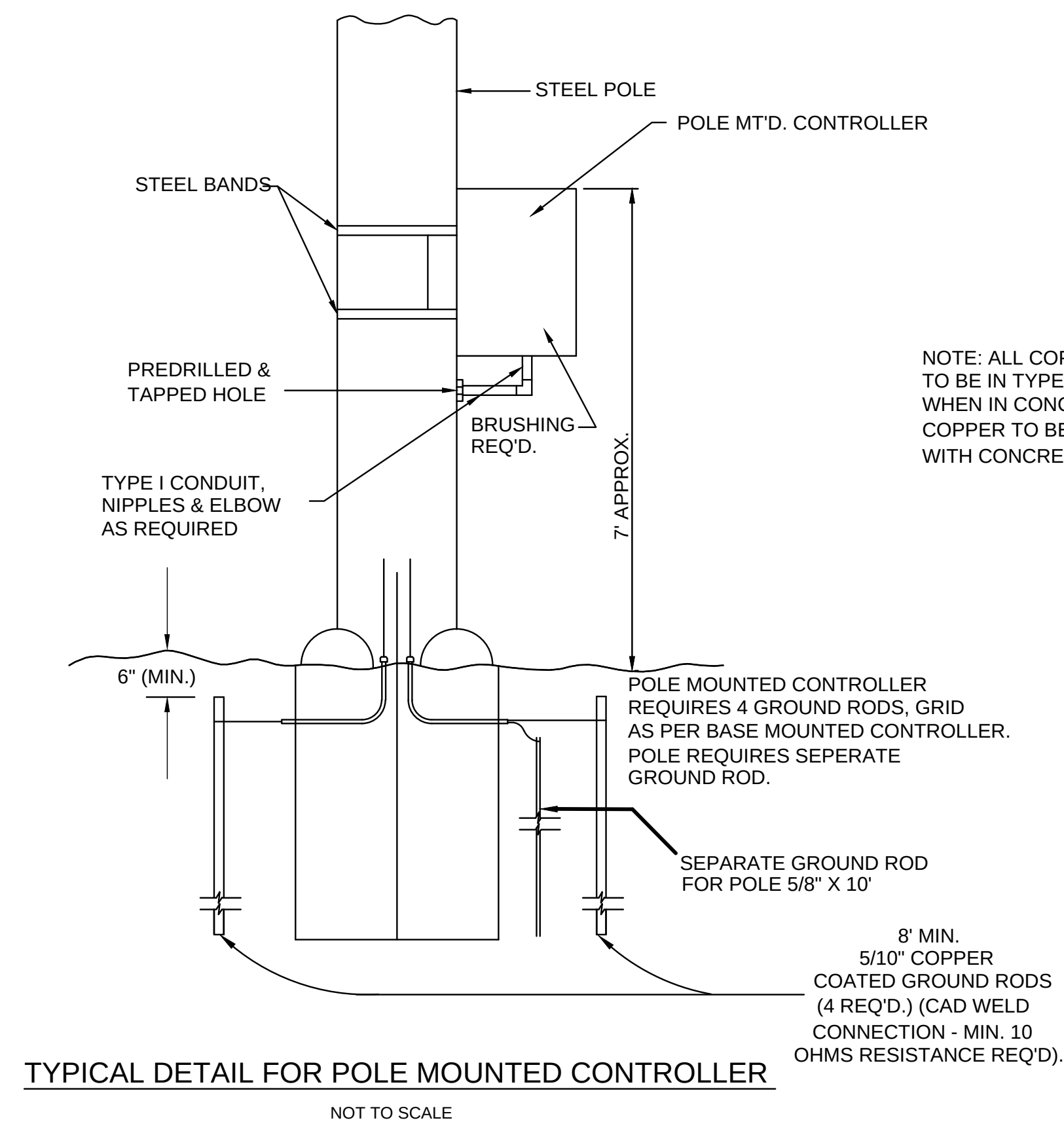
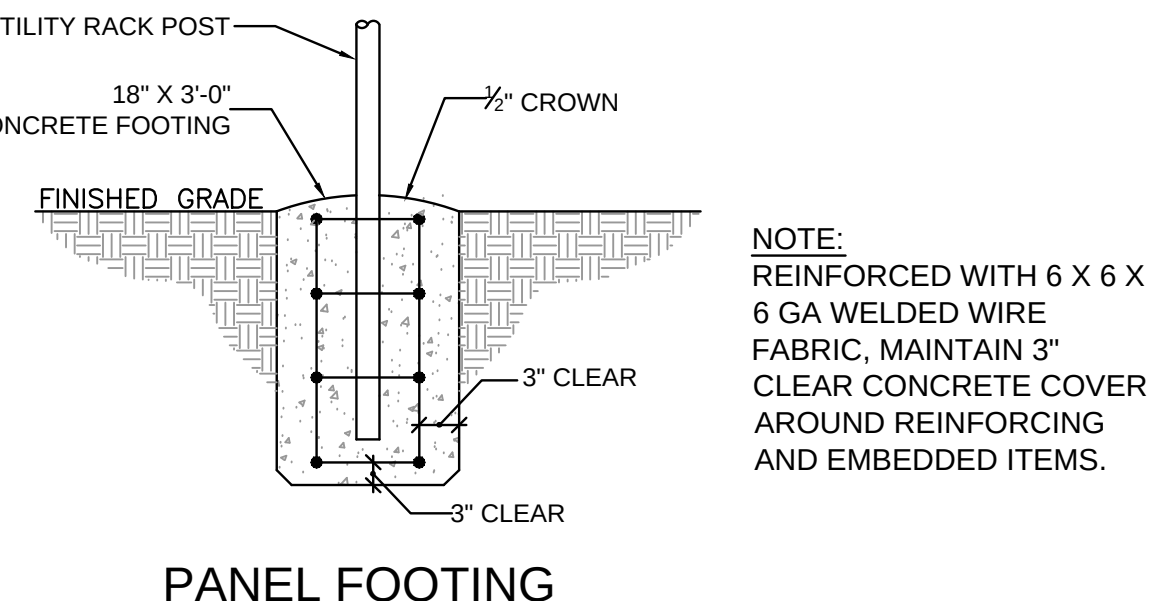
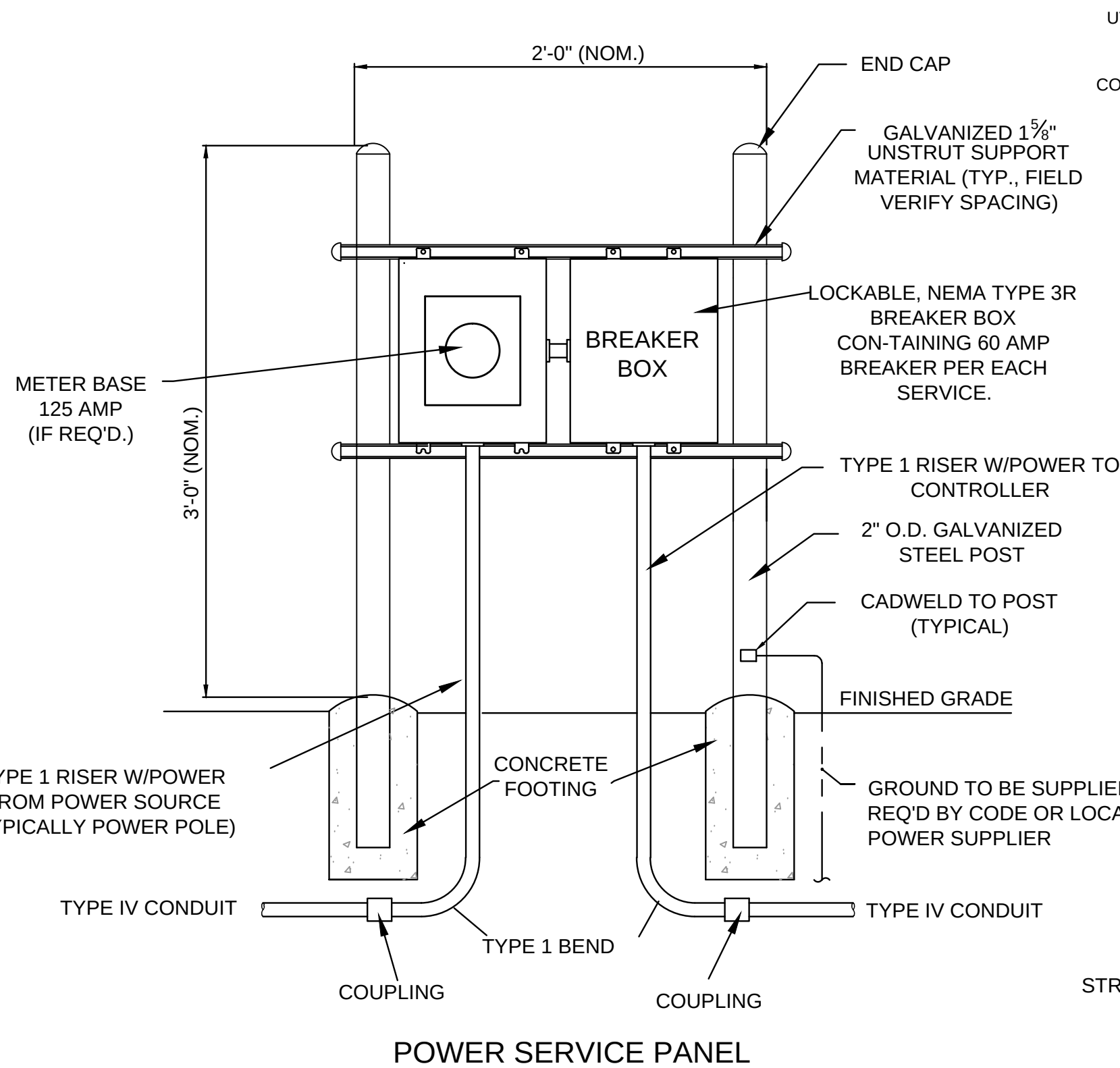
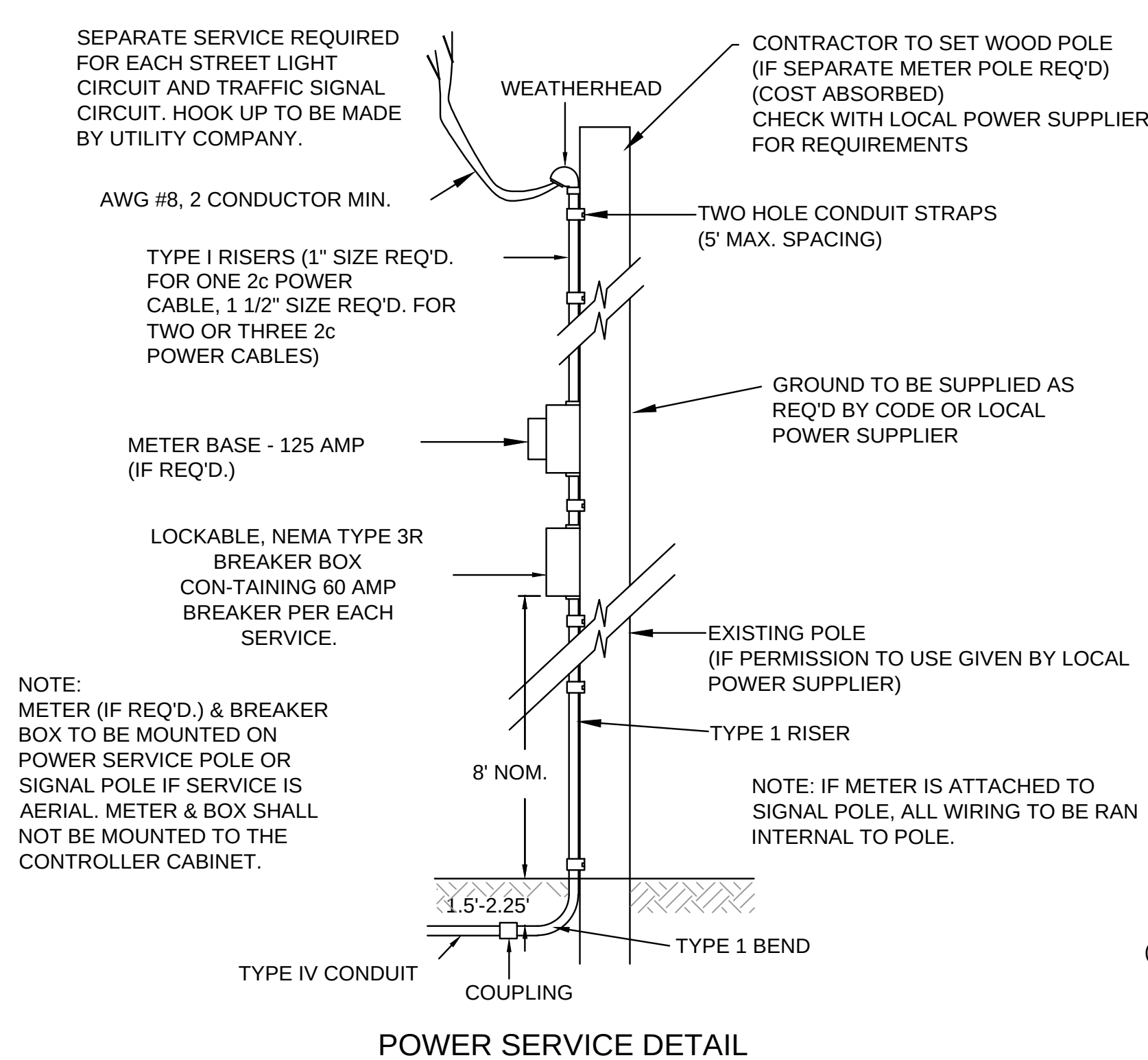
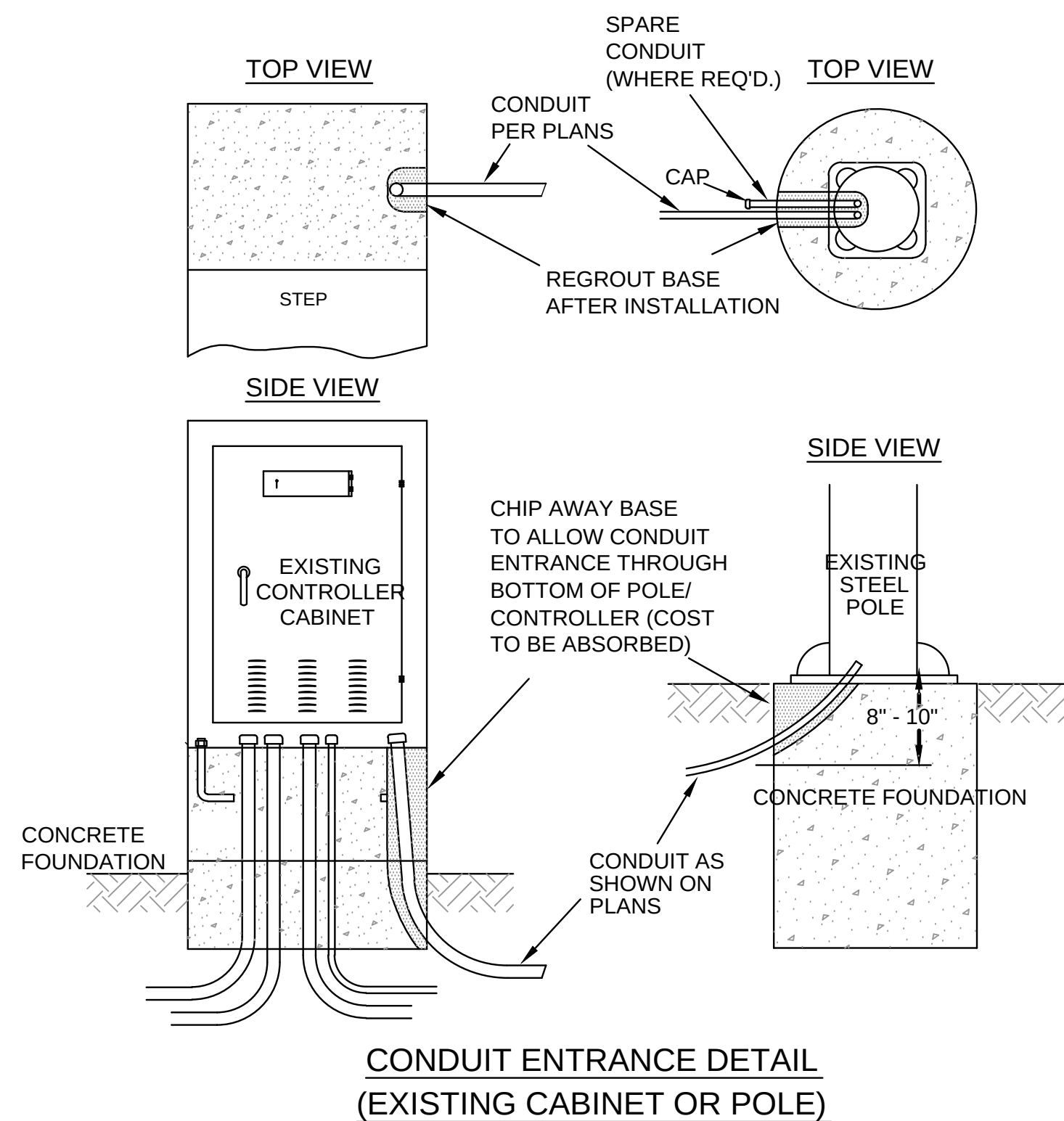
CITY OF HATTIESBURG
FORREST COUNTY, MS



PULL BOX AND CONDUIT TRENCHING
DETAILS FOR TRAFFIC SIGNAL
INSTALLATION

WORKING NUMBER:
TSD-3

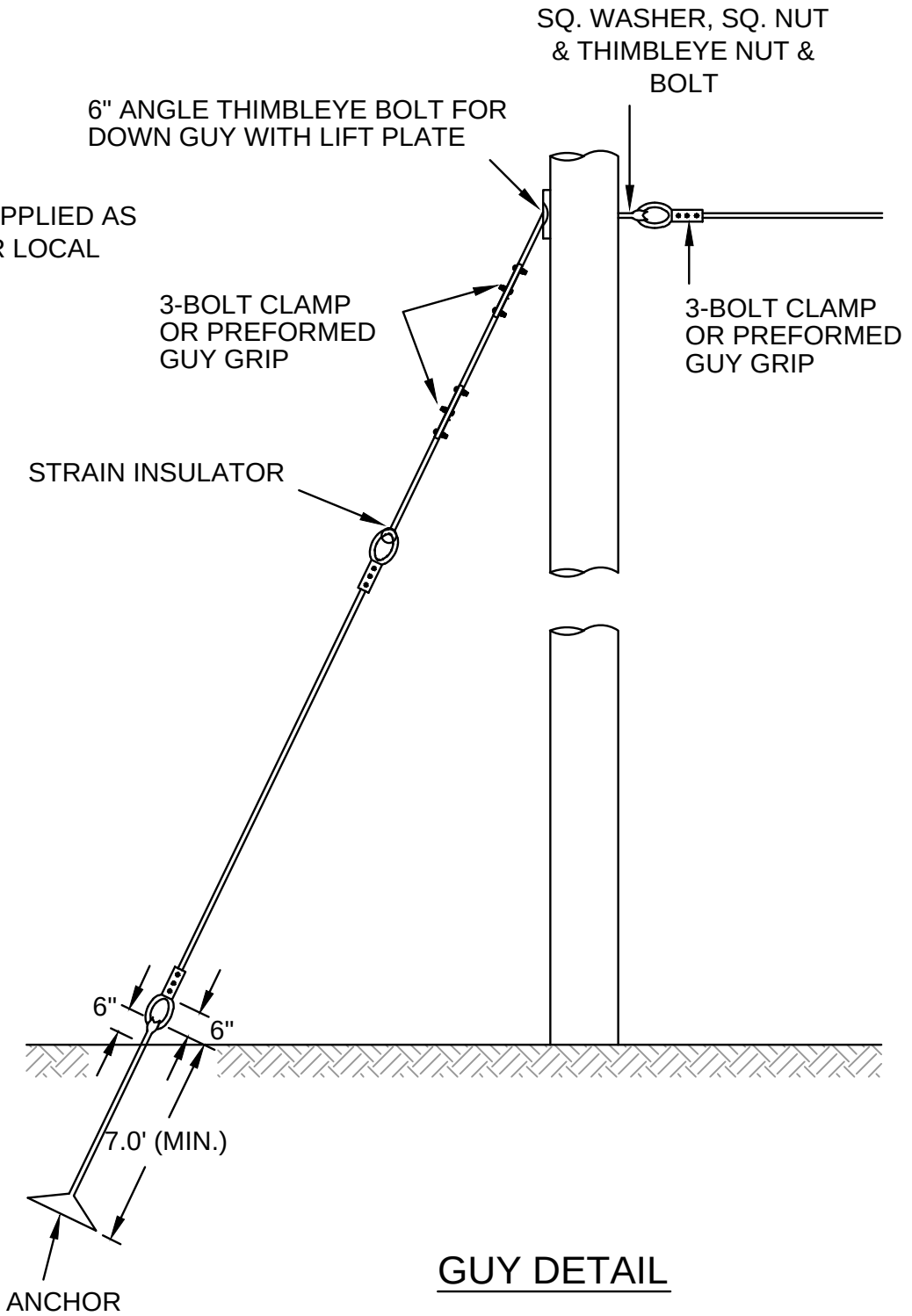
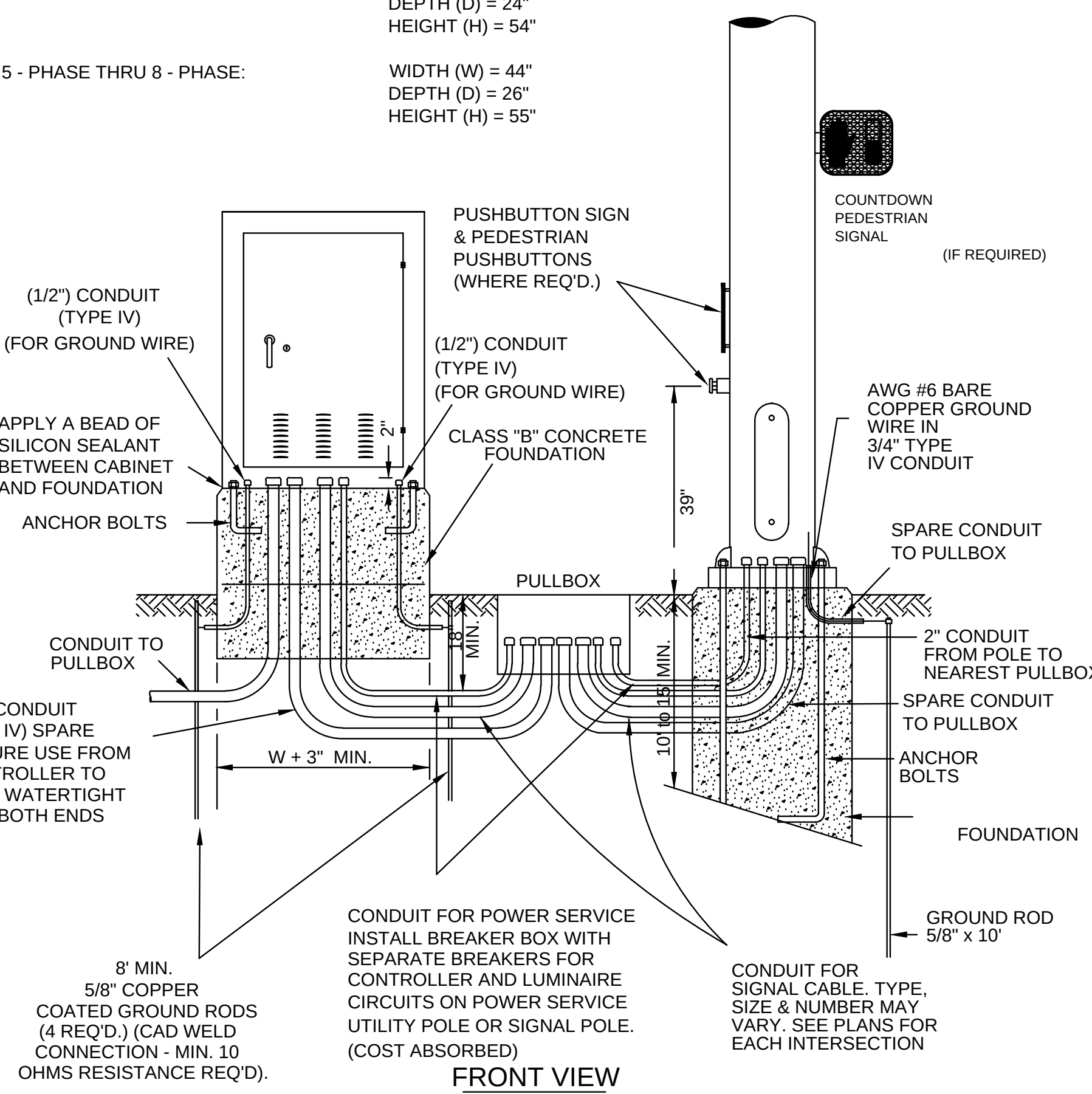
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49



DIMENSIONS OF BASE MOUNTED CONTROLLER EQUIP. CABINETS (MIN.)

UP TO AND INCLUDING 4 - PHASE: WIDTH (W) = 38\"/>

5 - PHASE THRU 8 - PHASE: WIDTH (W) = 44\"/>

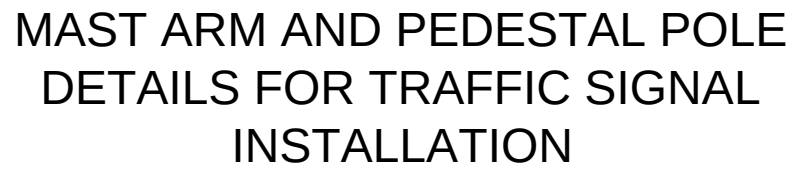
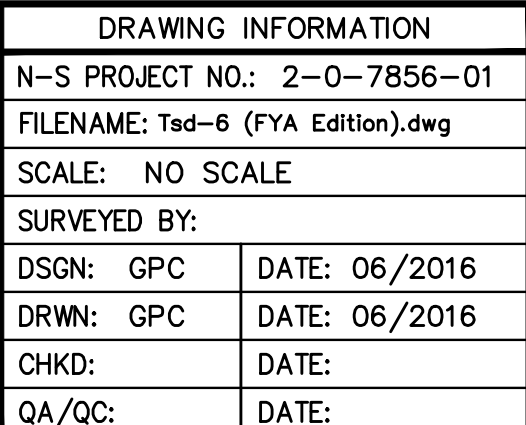
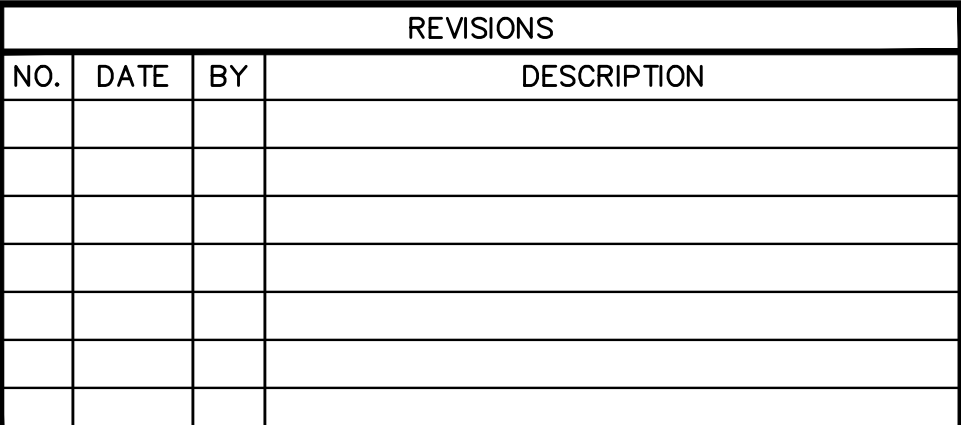
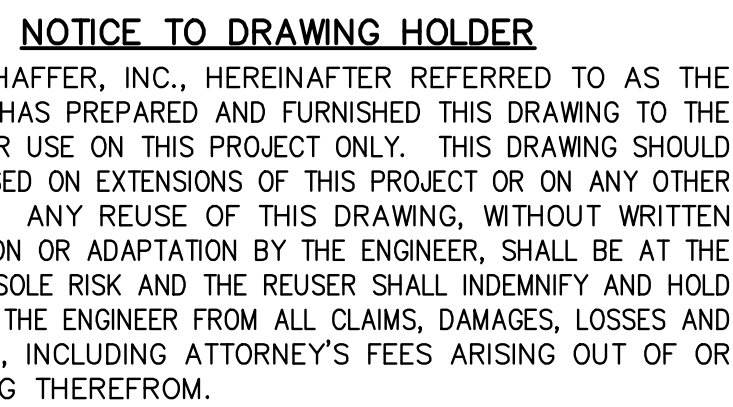
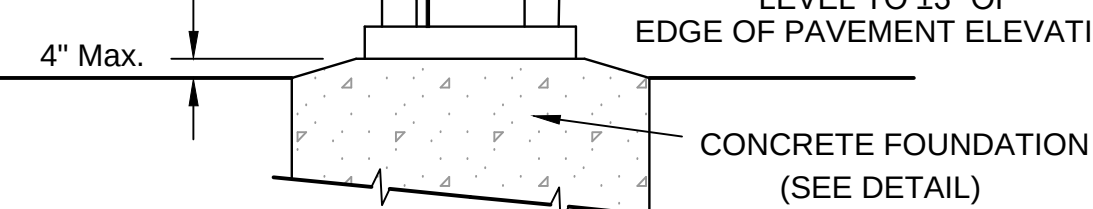
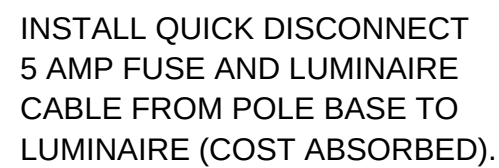
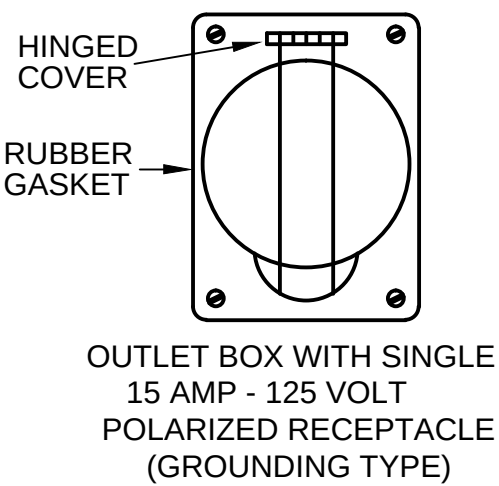
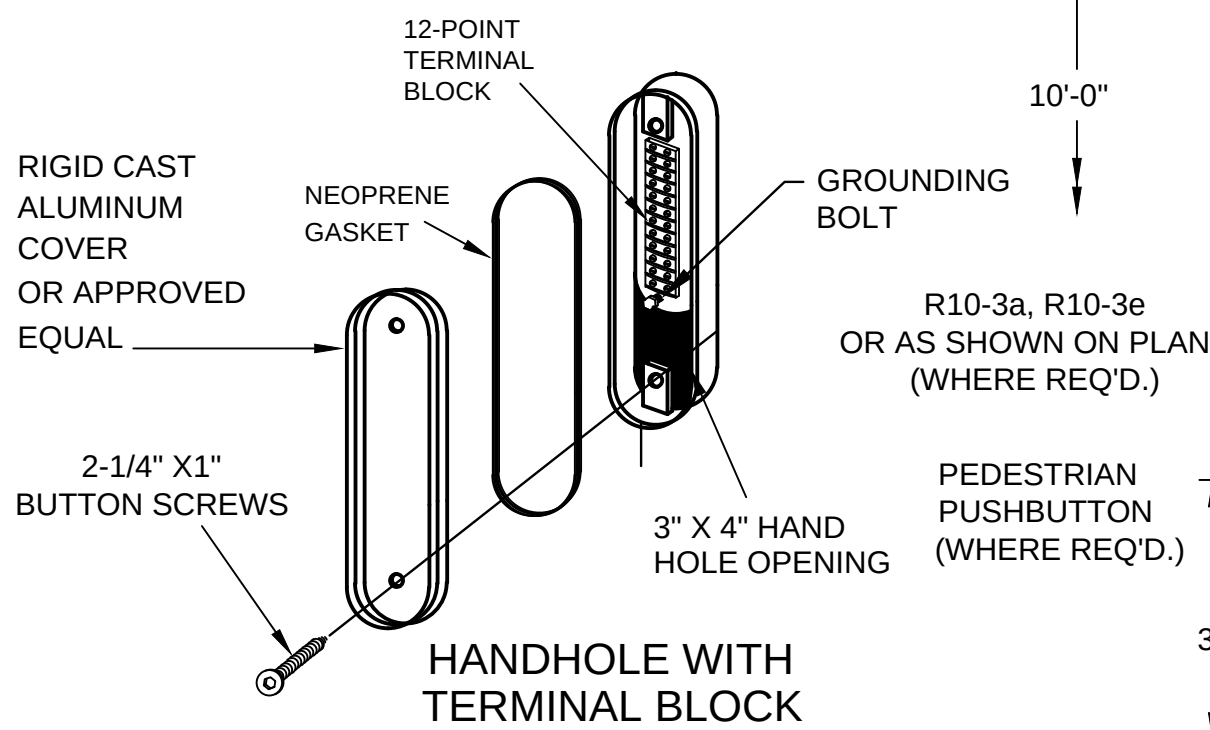
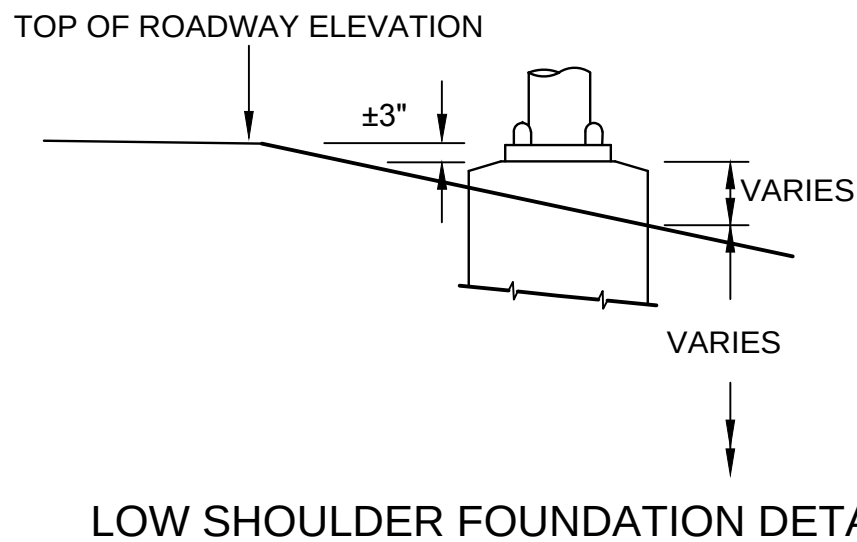
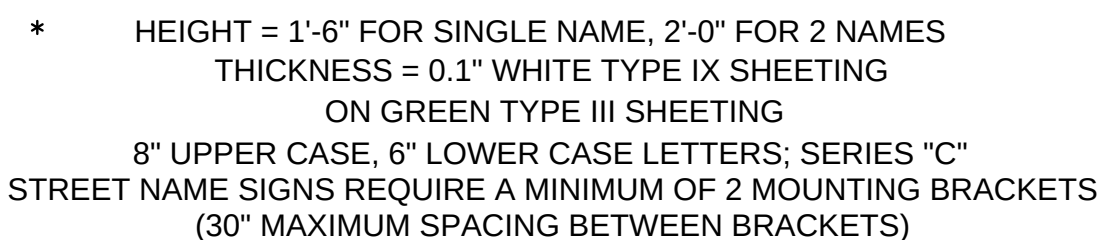
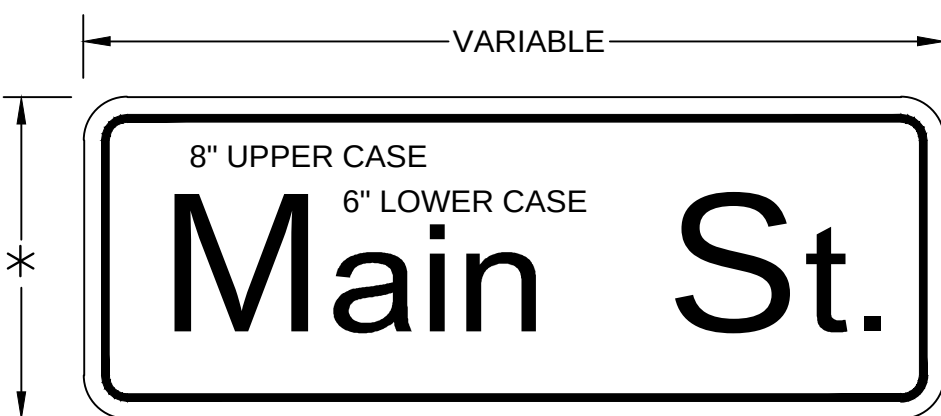
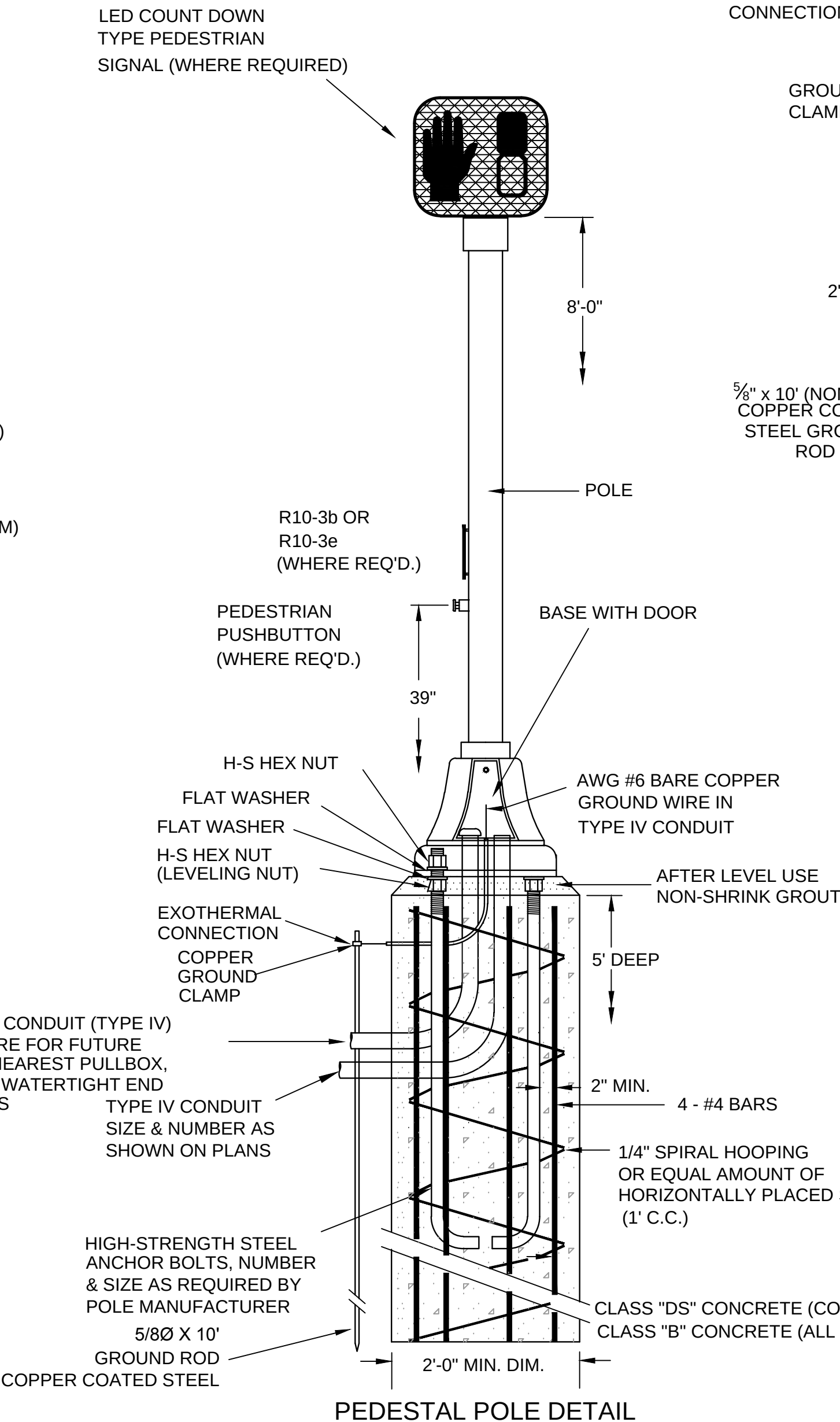
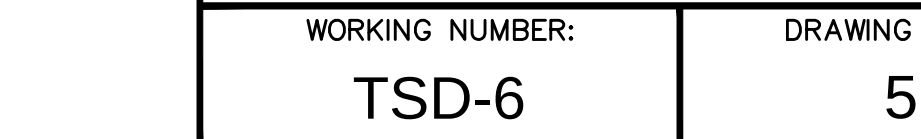
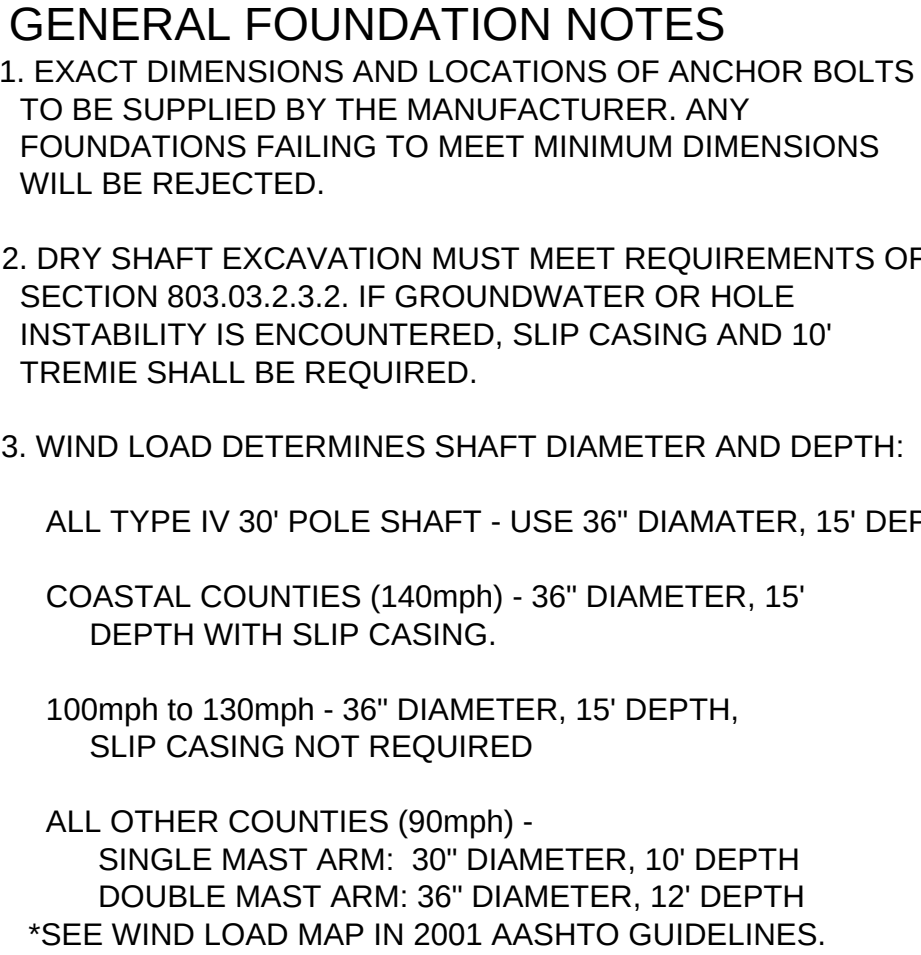
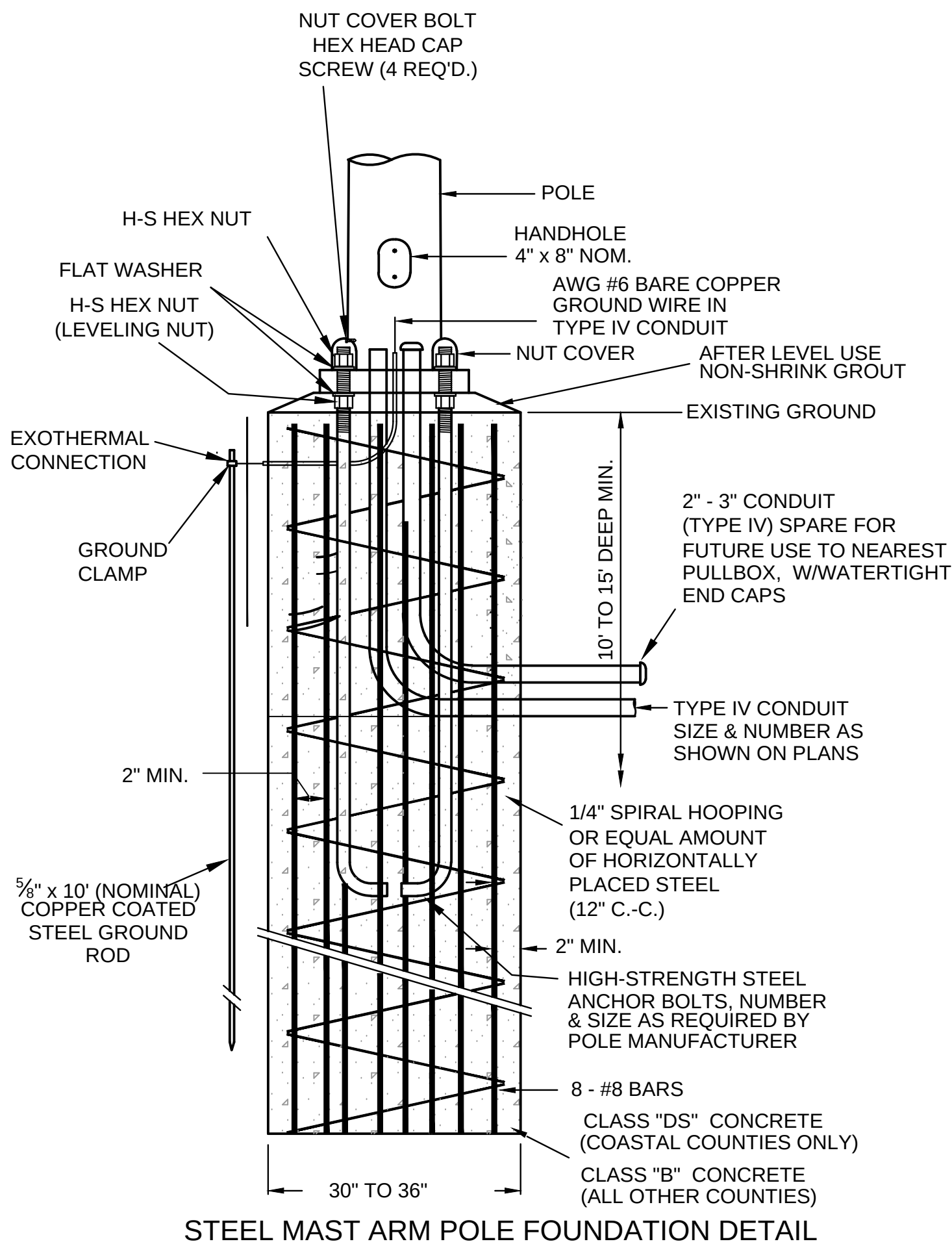
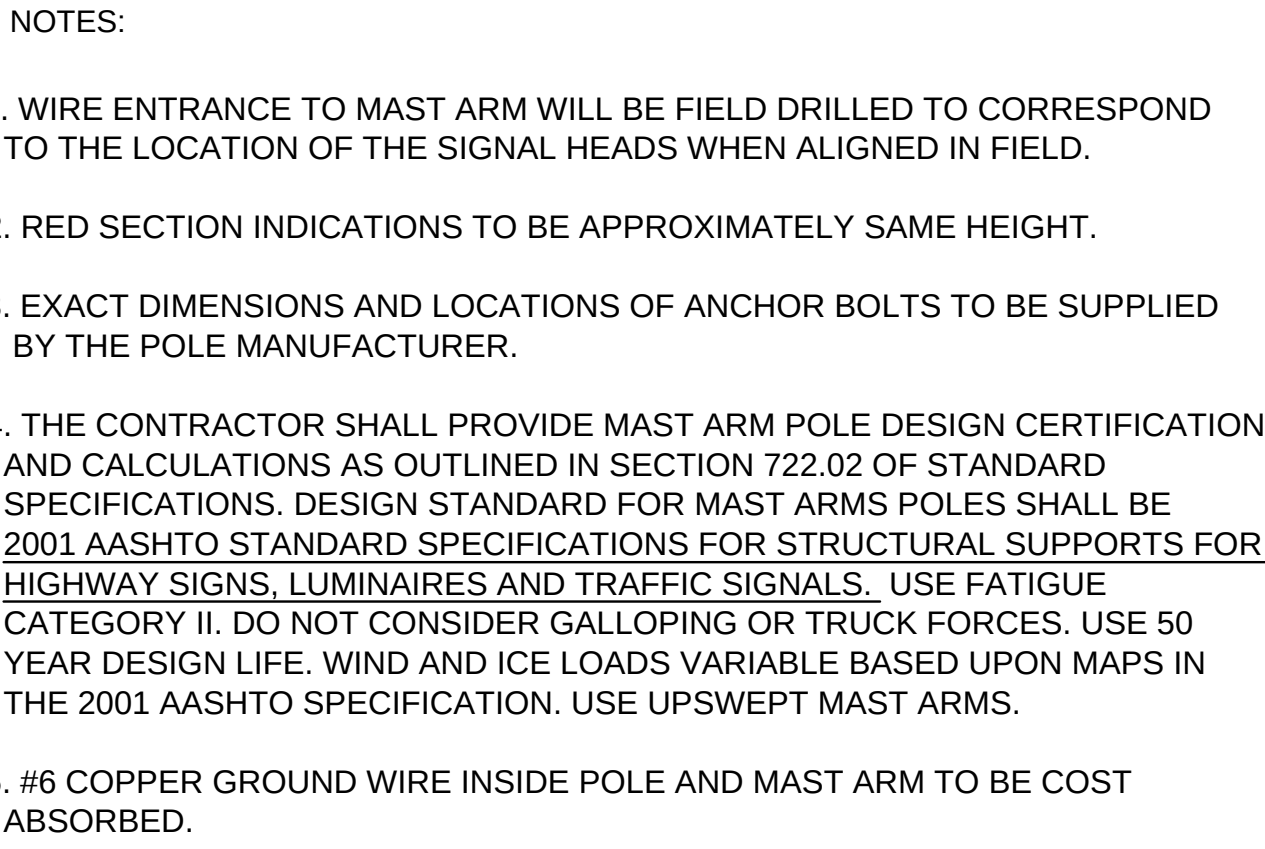


NOTES:

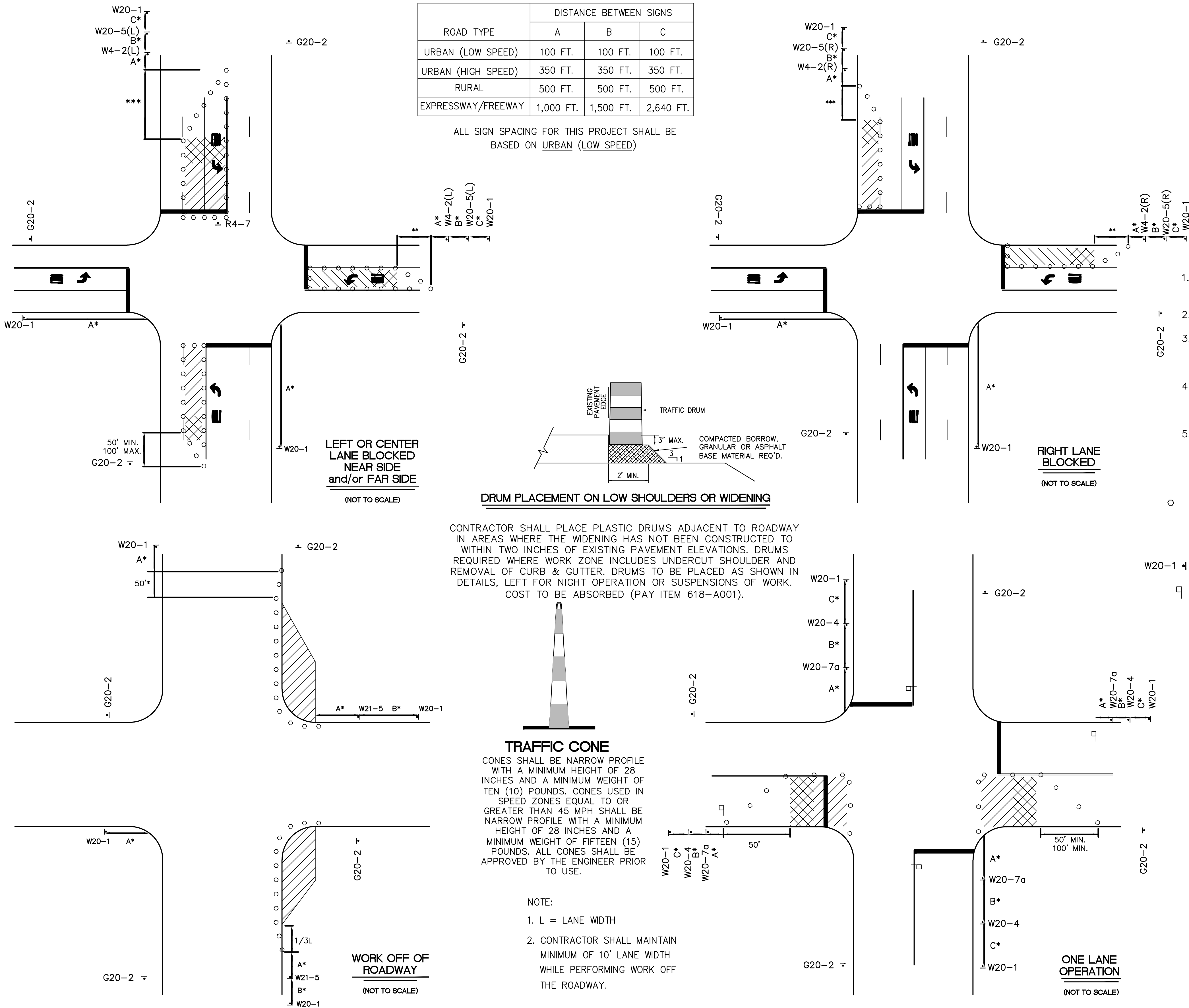
1. THE ANCHOR ROD IS 6\"/>
- 2. DIFFERENT ANCHORS ARE: CHANCE 8-WAY EXPANSION ANCHORS OR 3 HELICAL 203mm OR AS NECESSARY FOR ADEQUATE HOLD.
- 3. ANCHORS ARE TO BE 15' BEHIND THE HOLE IN LINE WITH THE SPAN, RESTRICTION TO THIS WILL BE PROPERTY LINES OR OBSTRUCTIONS.
- 4. ALL ATTACHMENT FITTINGS SHALL BE HOT DIP GALVANIZED UNLESS STATED OTHERWISE.
- 5. GUYS TO BE INSTALLED AS REQUIRED, DETERMINED BY THE ENGINEER (COST ABSORBED).

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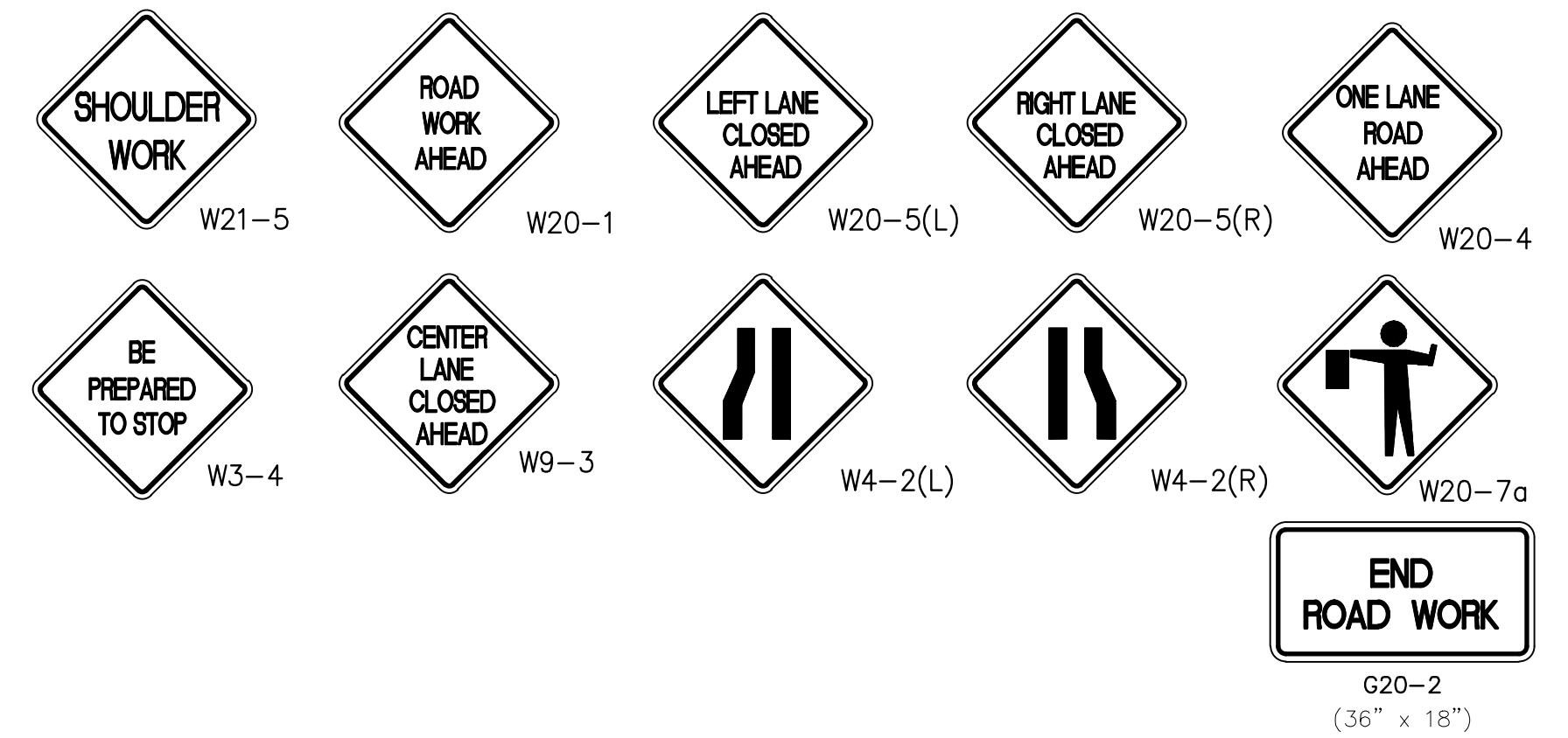
NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS			NS NEEL-SCHAFFER Solutions you can build upon	TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE 1 POLE ATTACHMENTS AND MISCELLANEOUS DETAILS	
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SIGN LEGEND



GENERAL NOTES

- ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY. ANY ADDITIONAL SIGNS WILL BE PAID FOR UNDER PAY ITEM 618-A001, MAINTENANCE OF TRAFFIC.
- POST MOUNTED SIGNS SHALL HAVE A 7' MINIMUM MOUNTING HEIGHT.
- PAYMENT FOR ALL SIGNS, CONES, DRUMS, CONCRETE BARRIERS, STEEL PLATES AND OTHER MATERIALS, BARRICADES, LABOR AND INCIDENTALS REQUIRED TO IMPLEMENT THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED UNDER PAY ITEM 618-A001, MAINTENANCE OF TRAFFIC.
- APPROACH SIDE TRAFFIC CONTROL TO BE USED WHEN WORK OCCURS ON EITHER THE APPROACH SIDE OR THE FAR SIDE OF THE INTERSECTION. FAR SIDE TRAFFIC CONTROL IS NOT NEEDED WHEN WORK IS CONFINED TO THE APPROACH SIDE ONLY.
- FOR A DIVIDED HIGHWAY SITUATION, A SECOND SET OF ADVANCE WARNING SIGNS SHALL BE ERECTED IN MEDIAN AREA (8' MIN. MEDIAN WIDTH REQUIRED).

LEGEND

- DRUMS (30' MAXIMUM SPACING) - 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.

- SIGNS - SEE SIGN LEGEND MIN. SIZE 36" x 36", BLACK ON ORANGE RETRO REFLECTIVE BACKGROUND

- FLAGGER WITH PADDLE - 18" STOP/SLOW PADDLES ACCEPTED AS PROPER TRAFFIC CONTROL DEVICES SHALL BE USED. HANDHELD FLAGS SHALL NOT BE FOR FLAGGING OPERATION.



* CONSIDERED MINIMUM DISTANCE - LENGTH MAY HAVE TO BE INCREASED DUE TO LIMITED SIGHT DISTANCE OR INCLEMENT WEATHER.

SPEED LIMIT M.P.H.	BUFFER FEET	TAPER LENGTH (Feet) (Per 12' Lane Shift)
20	115	80
25	155	125
30	200	180
35	250	245
40	305	320
45	360	540
50	425	600
55	495	660
60	570	720
65	645	780
70	730	

SPEED LIMIT M.P.H.	BUFFER FEET	TAPER LENGTH (Feet) (DOUBLE LENGTH TAPER)
20	115	160
25	155	250
30	200	360
35	250	490
40	305	640
45	360	1080
50	425	1200
55	495	1320
60	570	1440
65	645	1560
70	730	1680

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 2-0-7856-01	
				FILENAME: Tsd-7.dwg	
				SCALE: NO SCALE	
				SURVEYED BY:	
				DSGN: GPC	DATE: 06/2016
				DRWN: GPC	DATE: 06/2016
				CHKD:	DATE:
				QA/QC:	DATE:

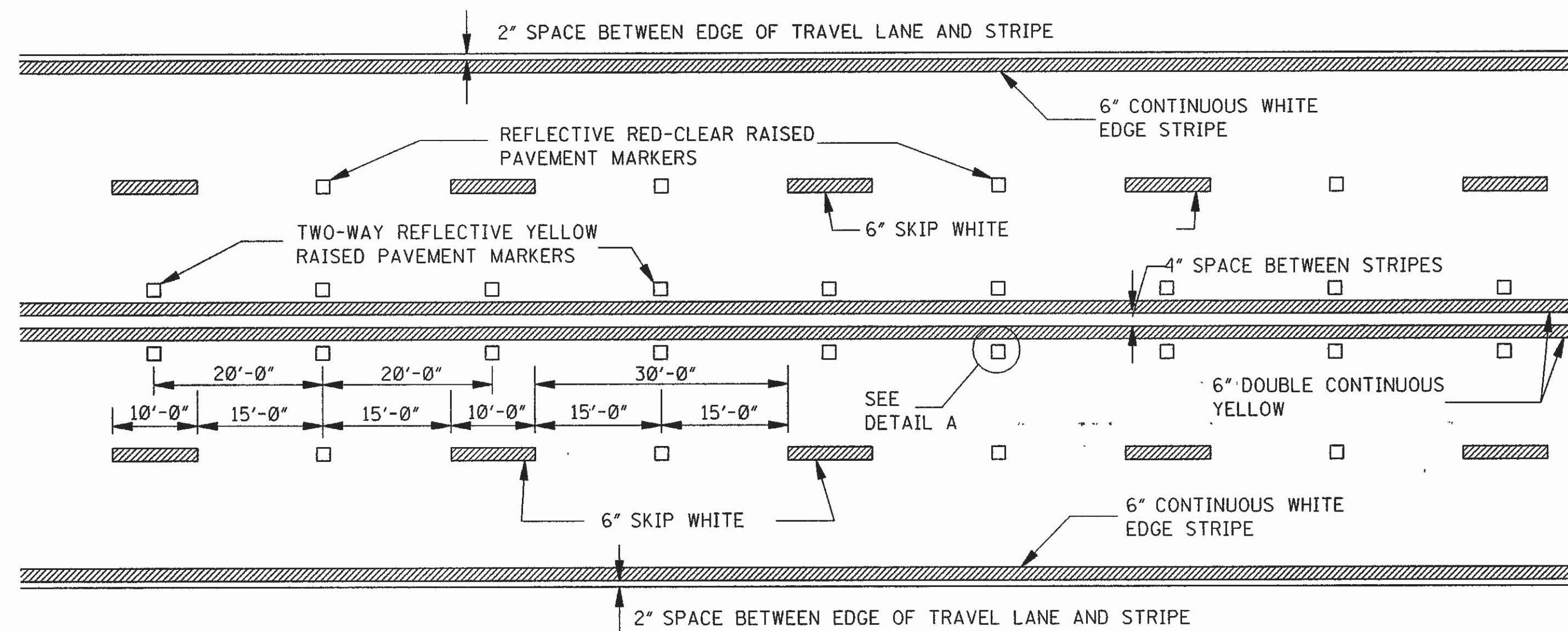
FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000

CITY OF HATTIESBURG
FORREST COUNTY, MS

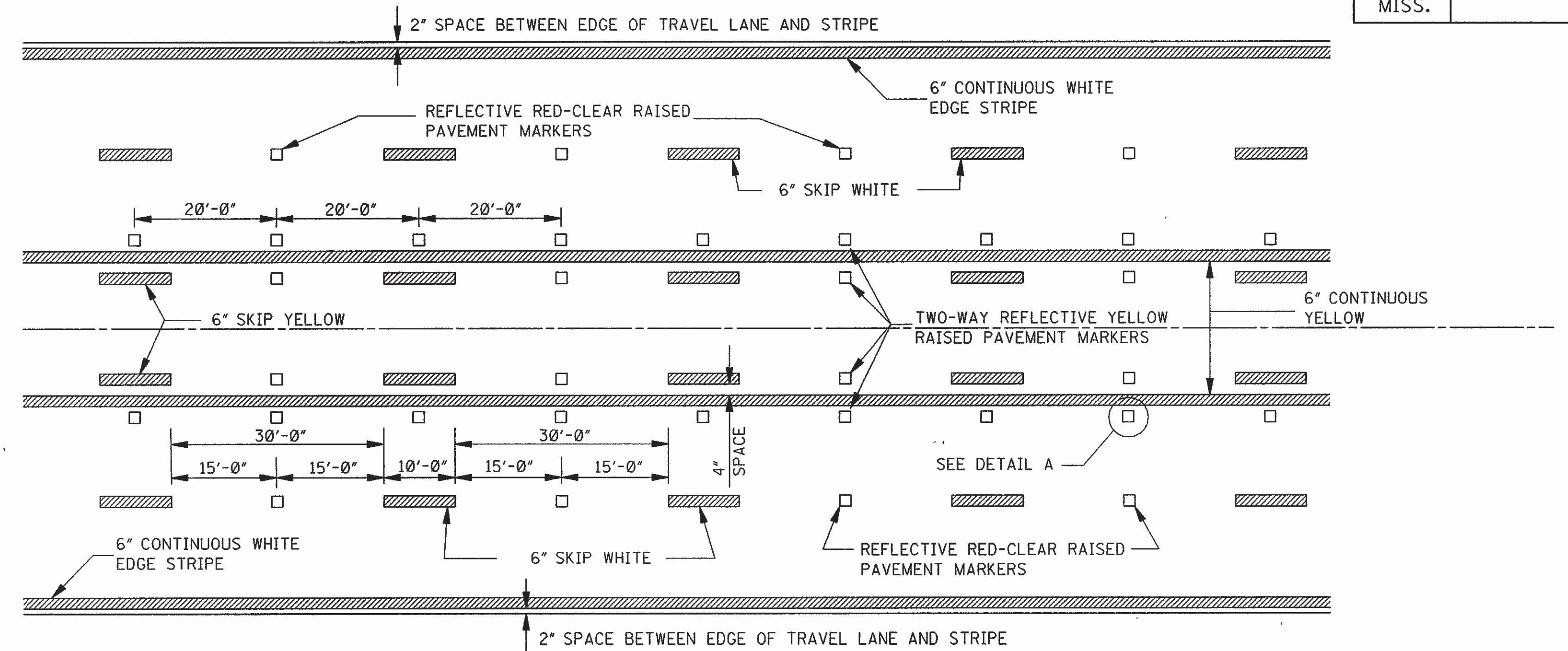


TRAFFIC CONTROL PLAN (TYPICAL TRAFFIC SIGNAL INSTALLATION)

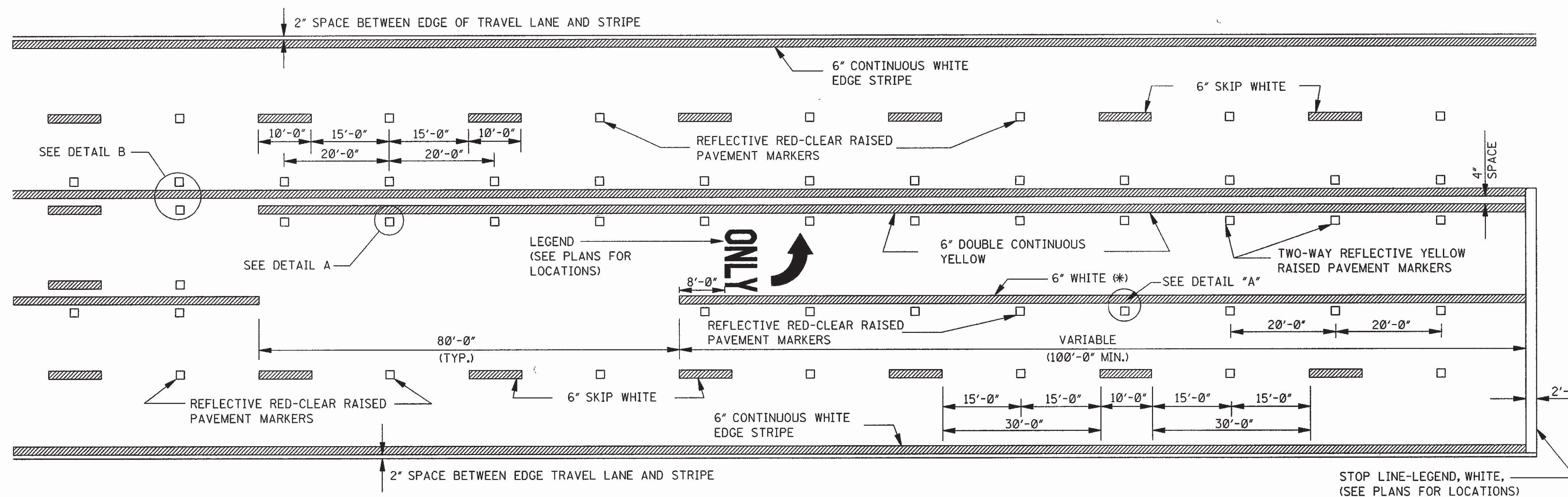
WORKING NUMBER:	DRAWING NUMBER:
TSD-7	52



TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 4-LANE SECTION

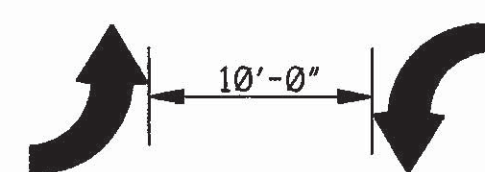


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 5-LANE SECTION



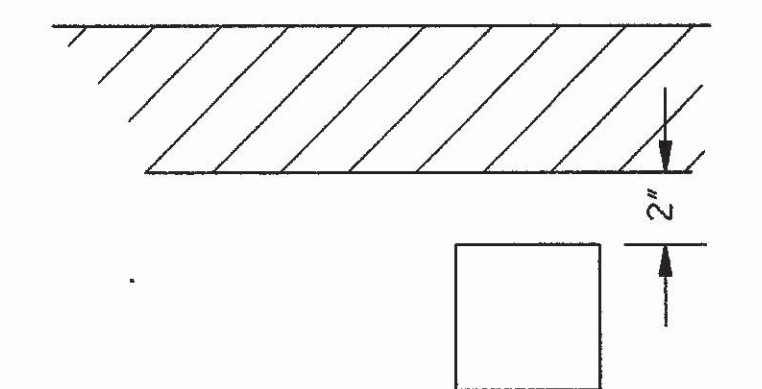
TYPICAL STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES

*NOTE: USE DETAIL STRIPING IF LENGTH $\leq 150'$ AT THIS LOCATION, OTHERWISE USE CONTINUOUS STRIPING.

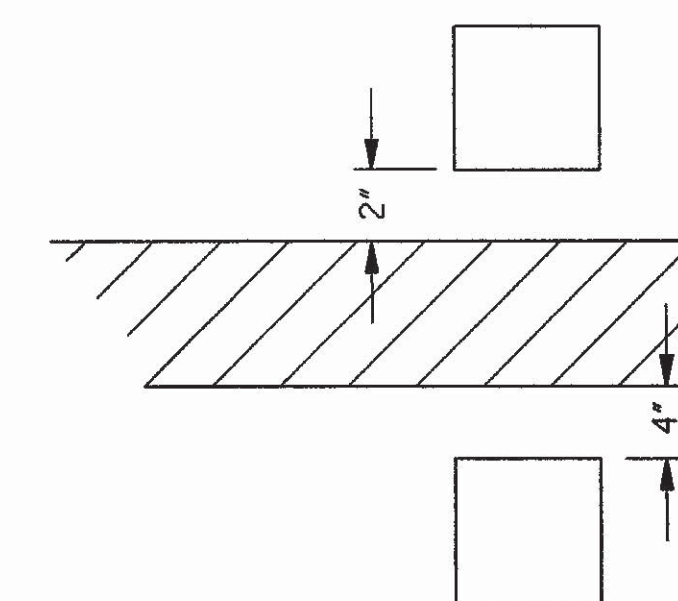


TYPICAL TWO-WAY ARROW INSTALLATION

- NOTES: 1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
2. IF SEGMENT IS LESS THAN 350', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
3. IF SEGMENT IS GREATER THAN 350', PLACE FIRST SET OF ARROWS 50' TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250' O.C.).



DETAIL A
LATERAL PLACEMENT OF PAVEMENT MARKERS

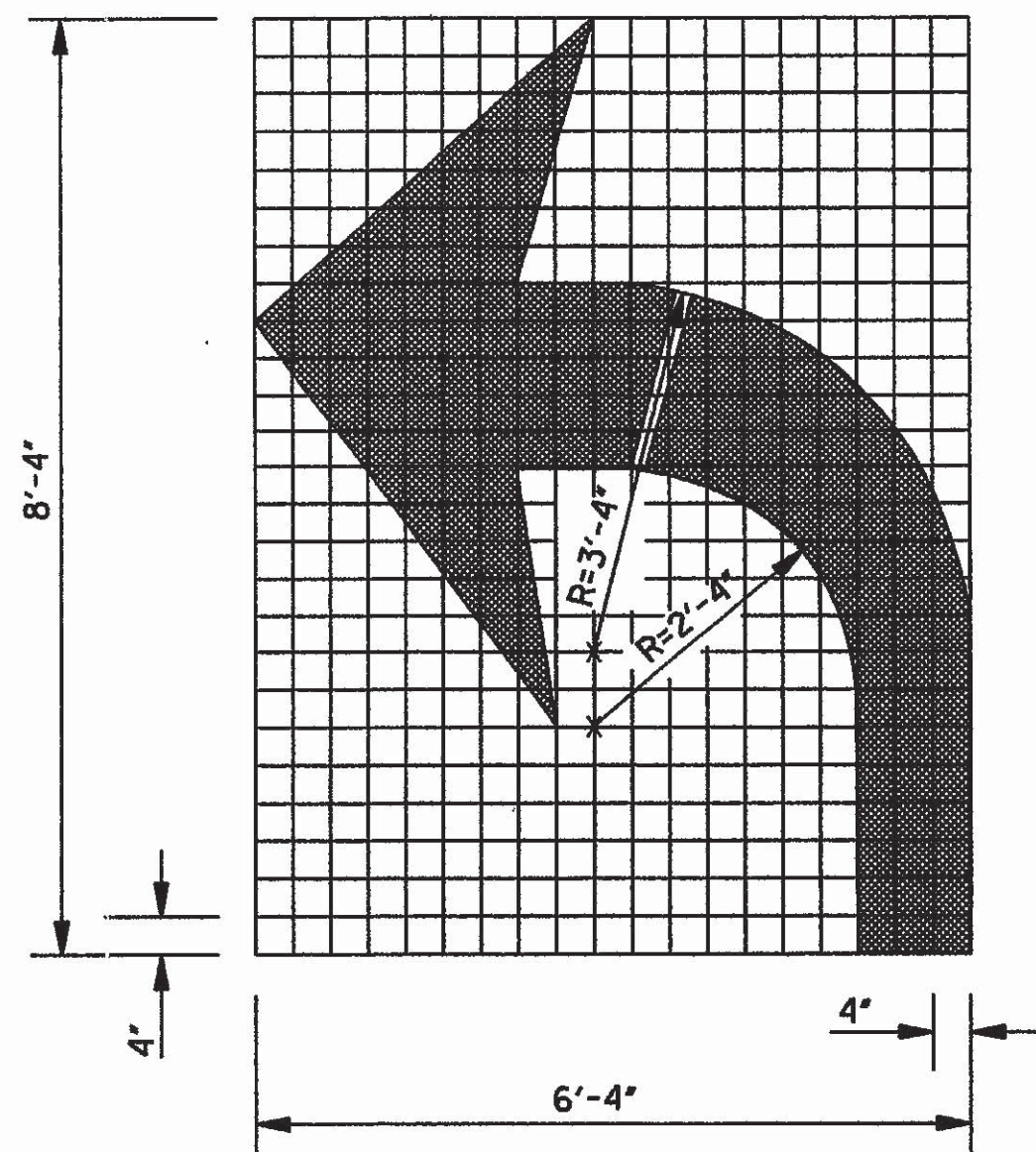
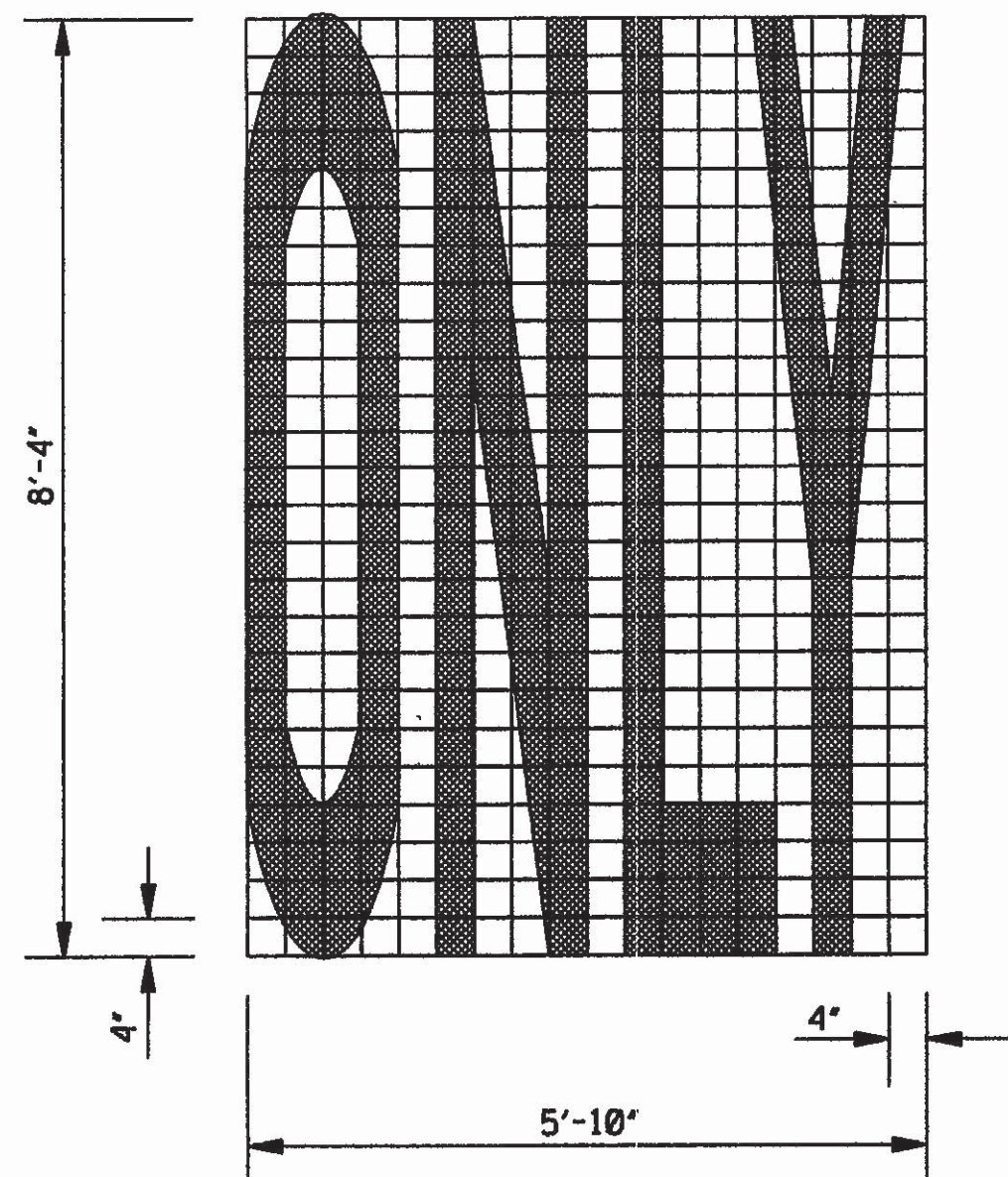


DETAIL B
LATERAL PLACEMENT OF PAVEMENT MARKERS

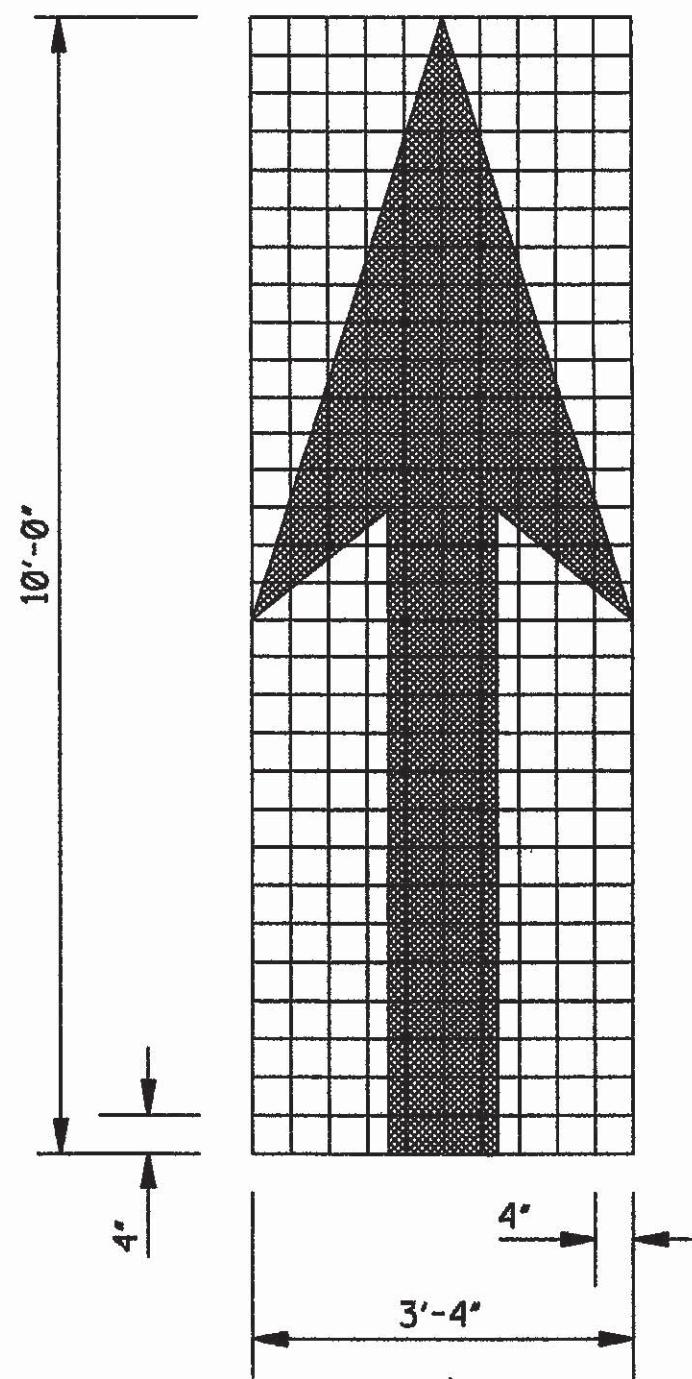
GENERAL NOTE:

1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RAISED PAVEMENT MARKERS AS LISTED IN THE MDT 'APPROVED SOURCES OF MATERIALS'.

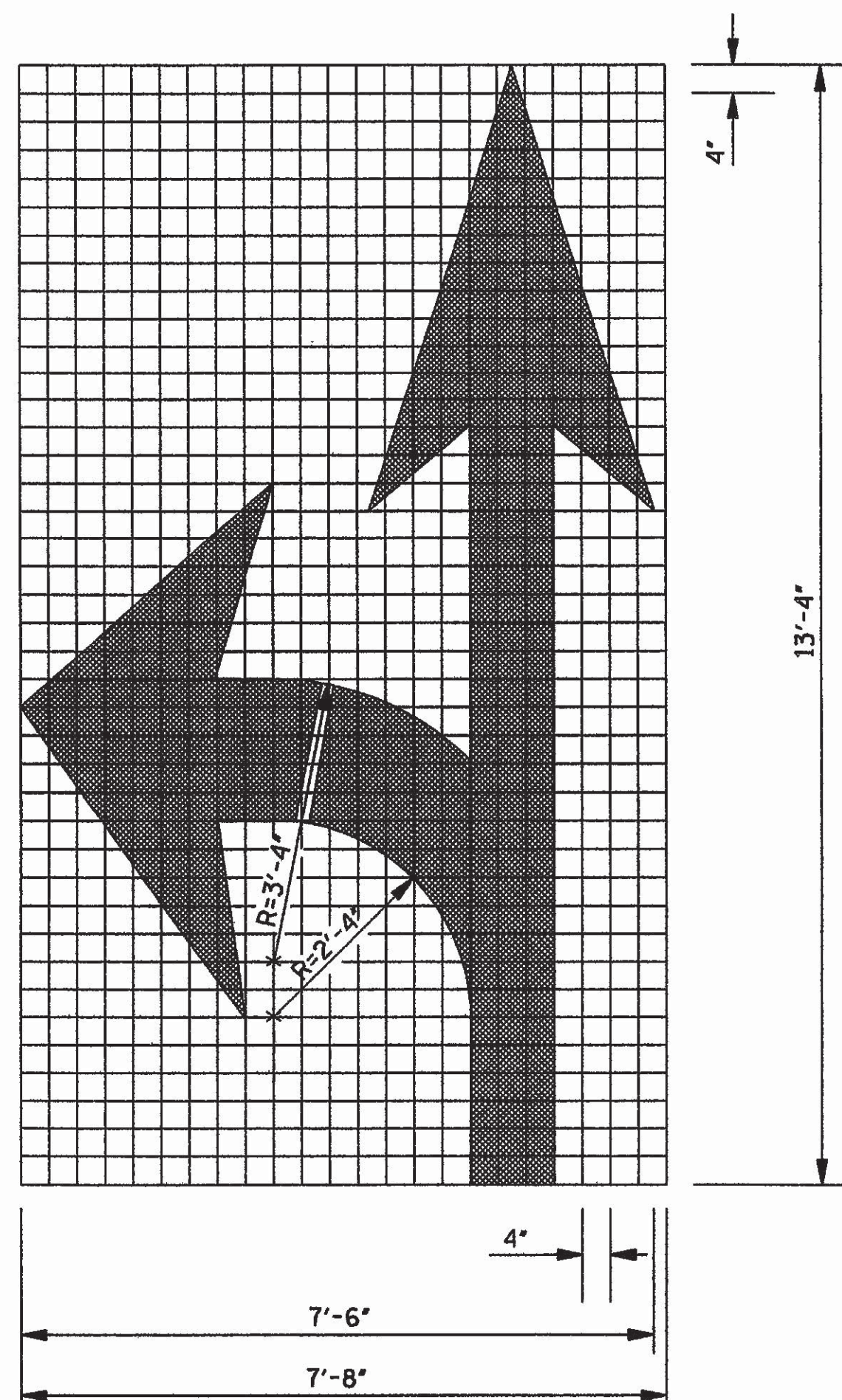
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN				PAVEMENT MARKING DETAILS FOR 4-LANE AND 5-LANE UNDIVIDED ROADWAYS	
DATE	12-1-99	REVISE STRIPE WIDTH	BY	WORKING NUMBER	PM-2
DATE	12-1-99	REVISE STRIPE WIDTH	BY	SHEET NUMBER	121
ISSUE DATE: OCTOBER 1, 1998					



TURN ARROW



THRU ARROW



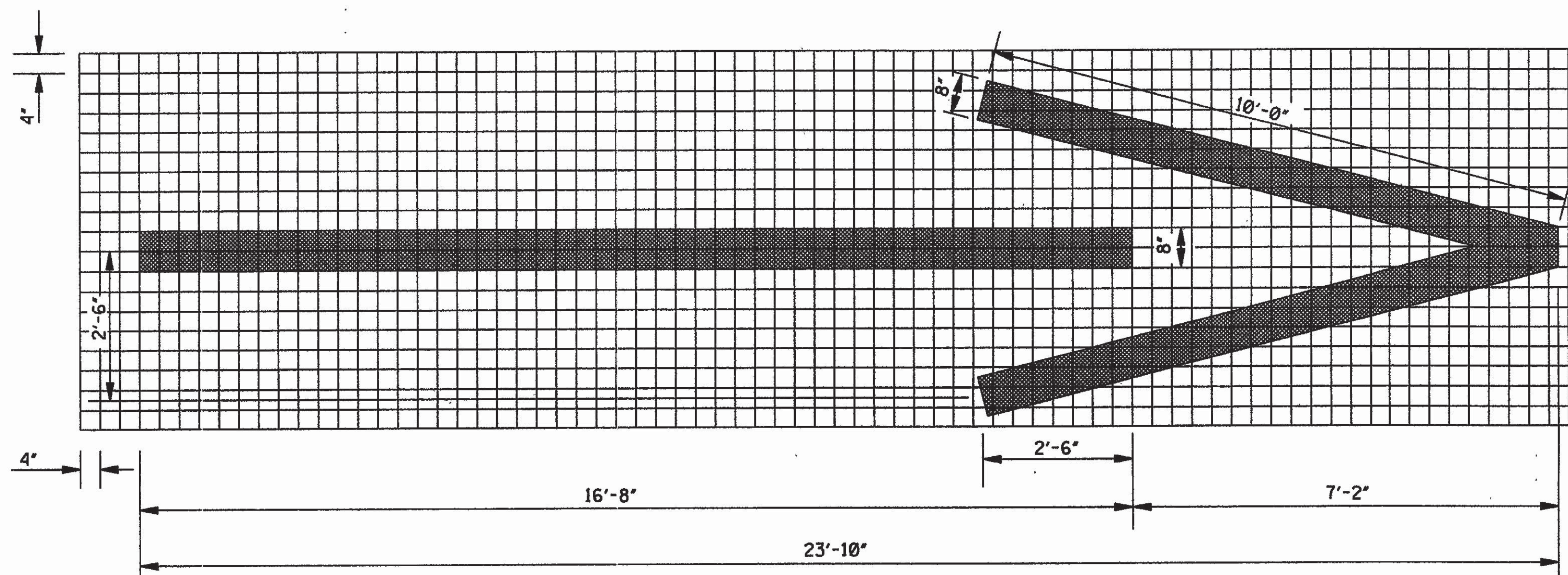
COMBINATION ARROW

GENERAL NOTES:

1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL PAVEMENT MARKING LEGENDS, INCLUDING TURN ARROWS, SHALL BE APPLIED USING HIGH PERFORMANCE MATERIALS.
2. TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTORS) OF 1/2" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
3. FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

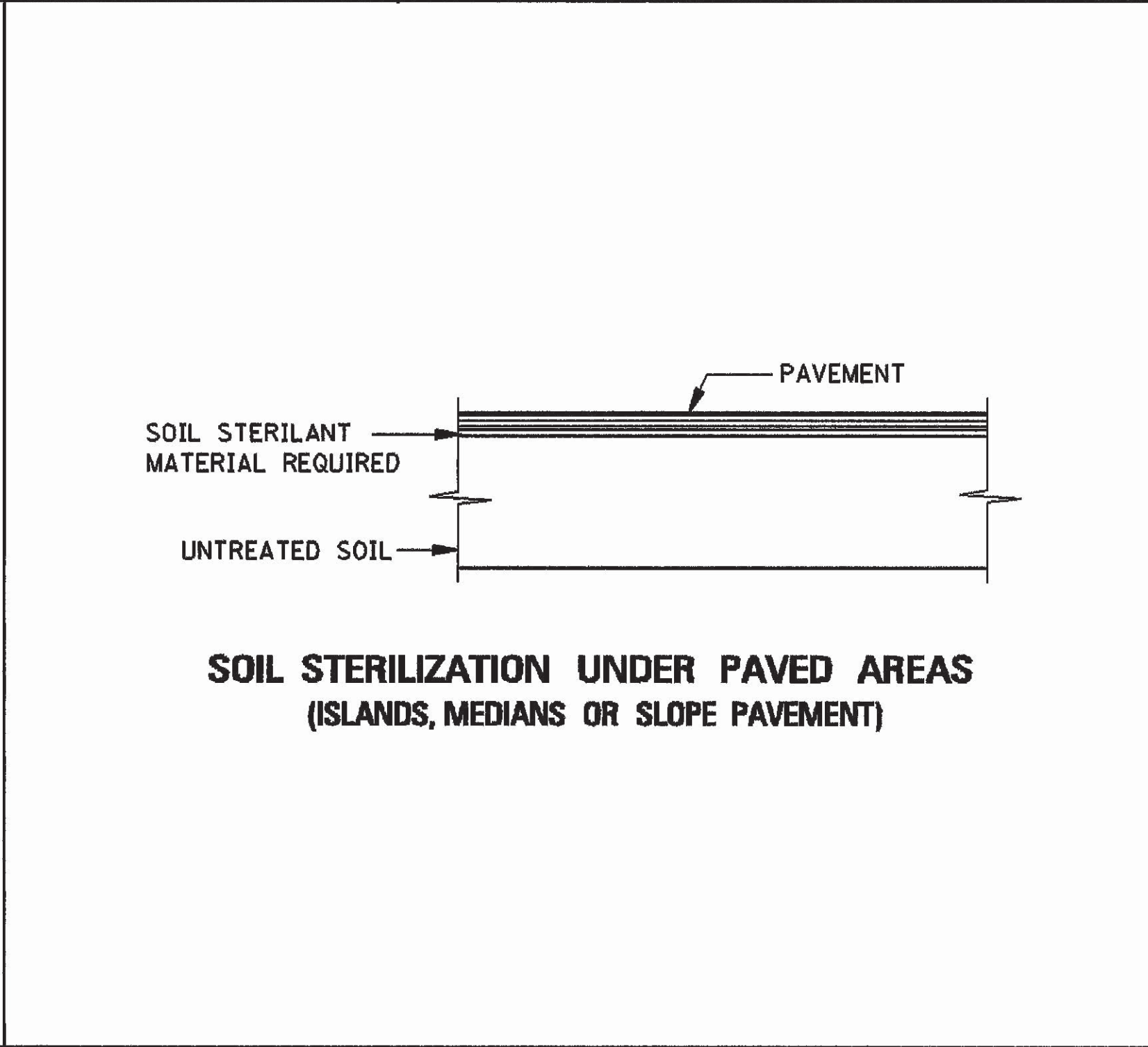
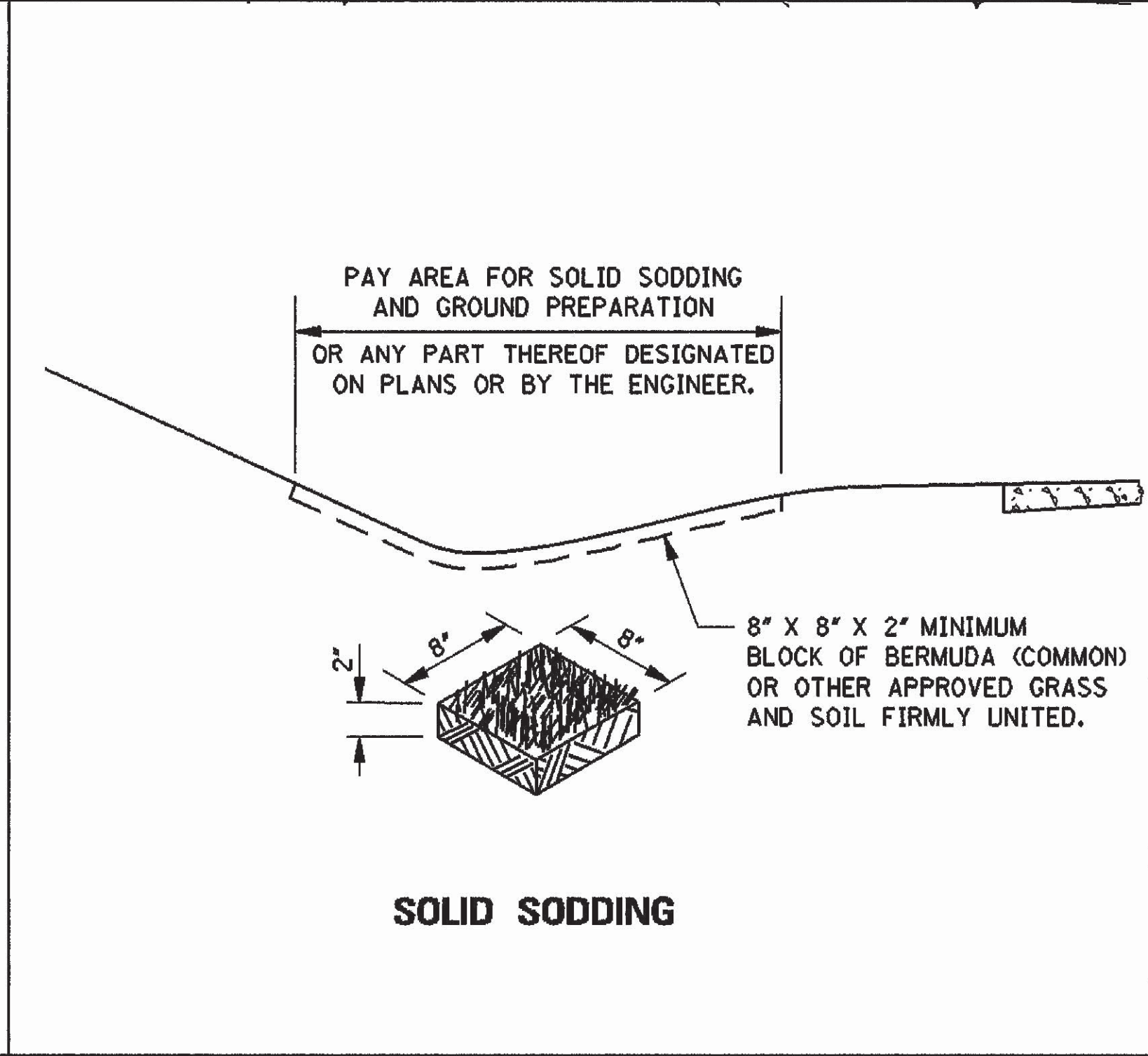
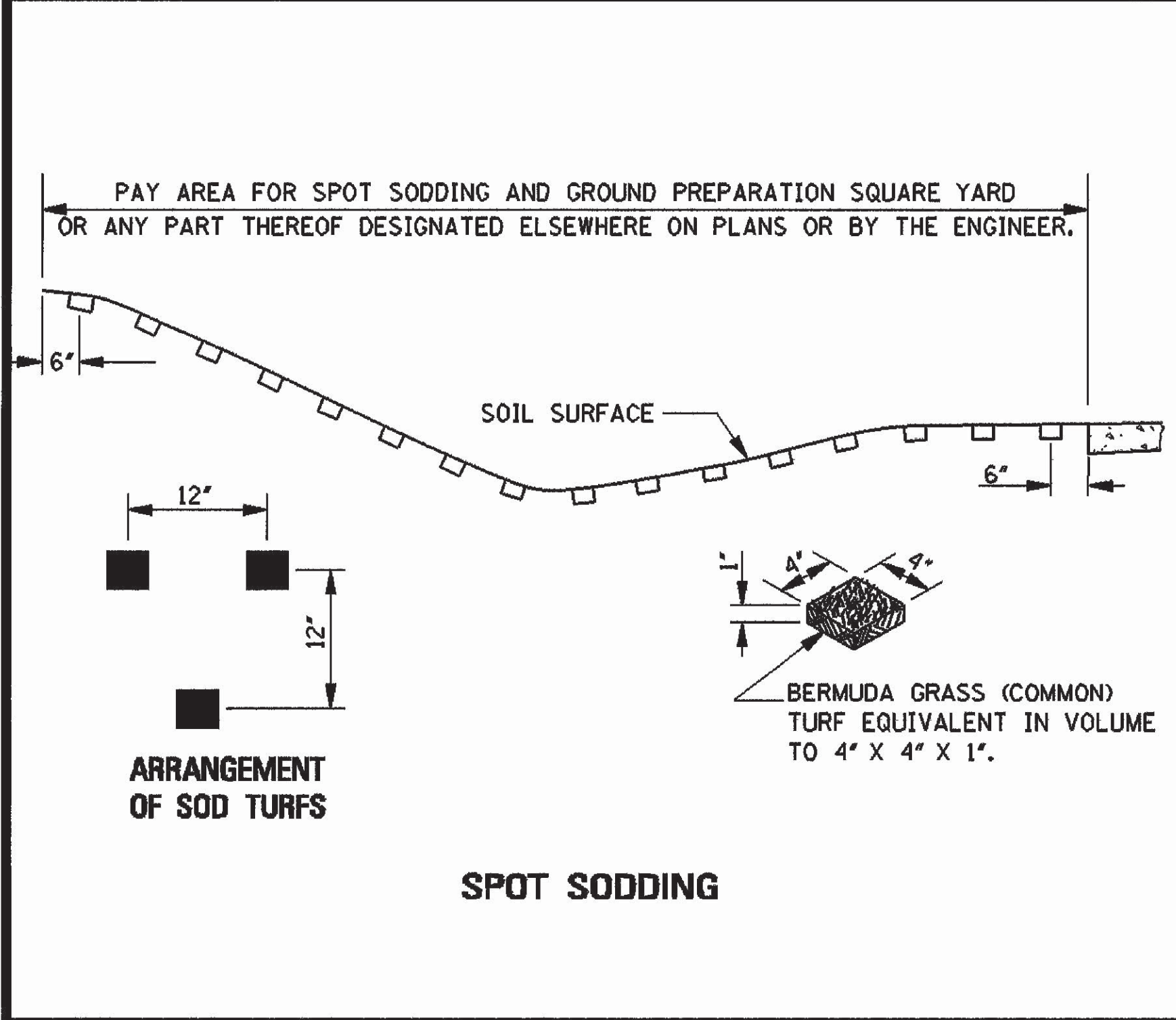
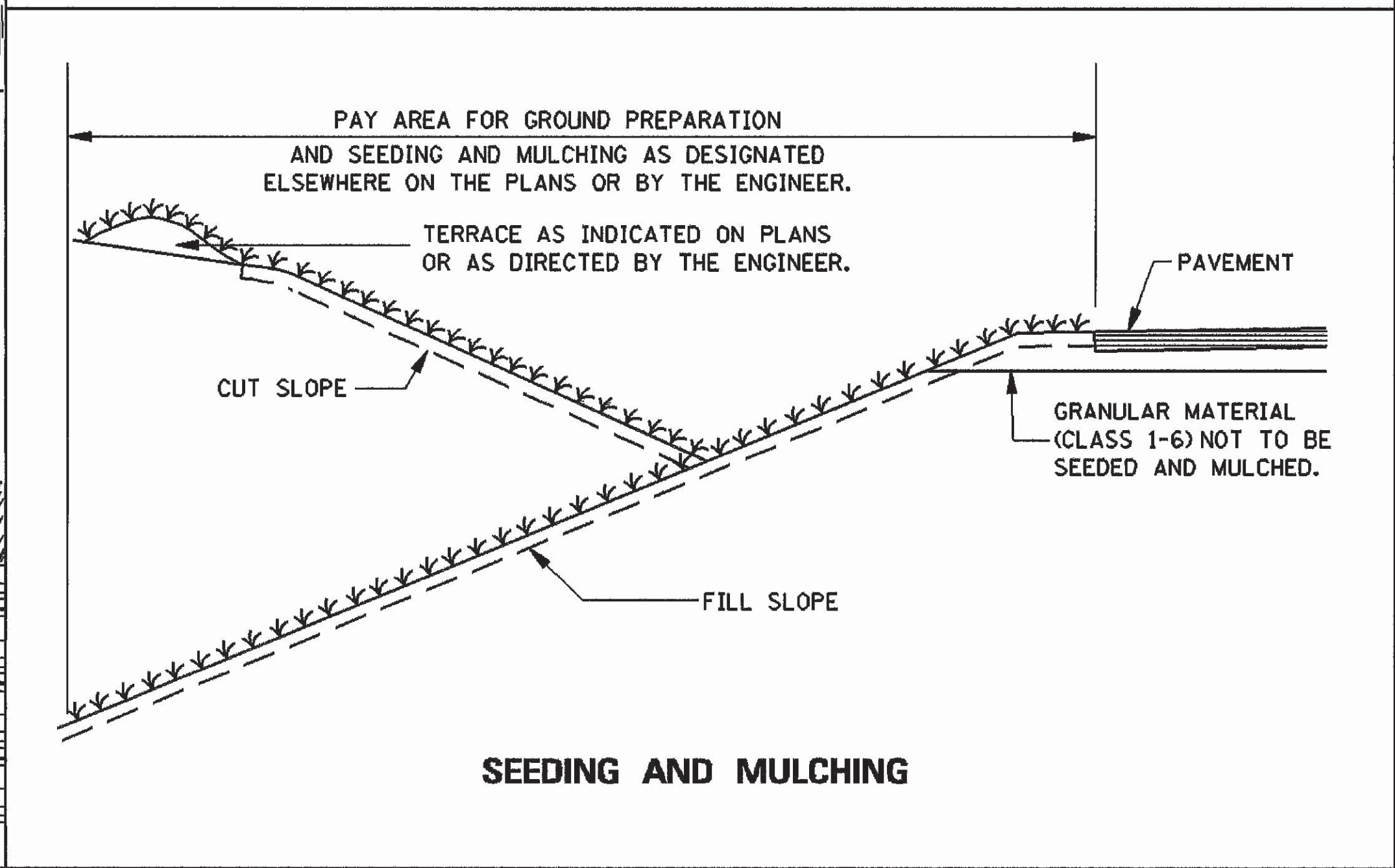
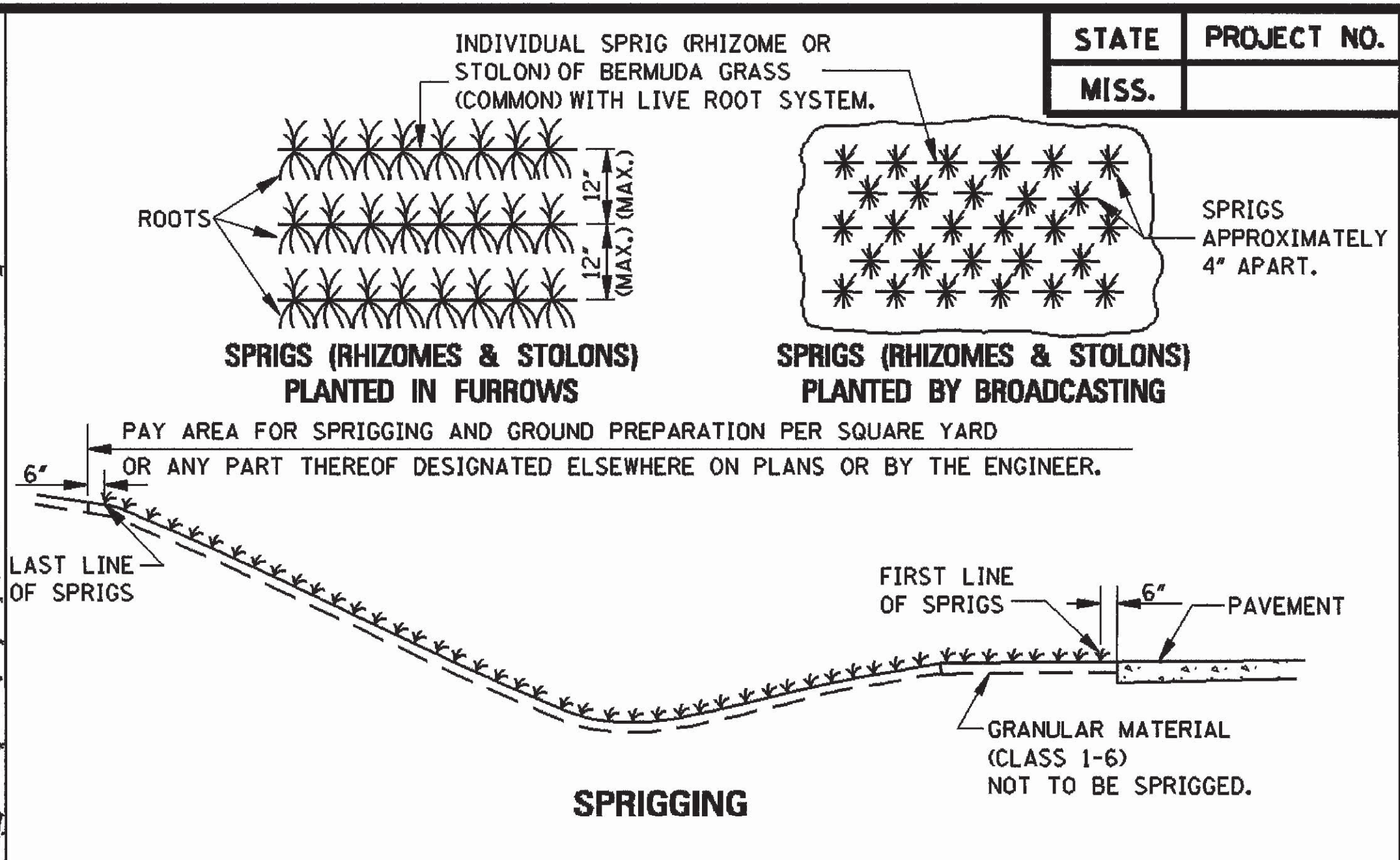
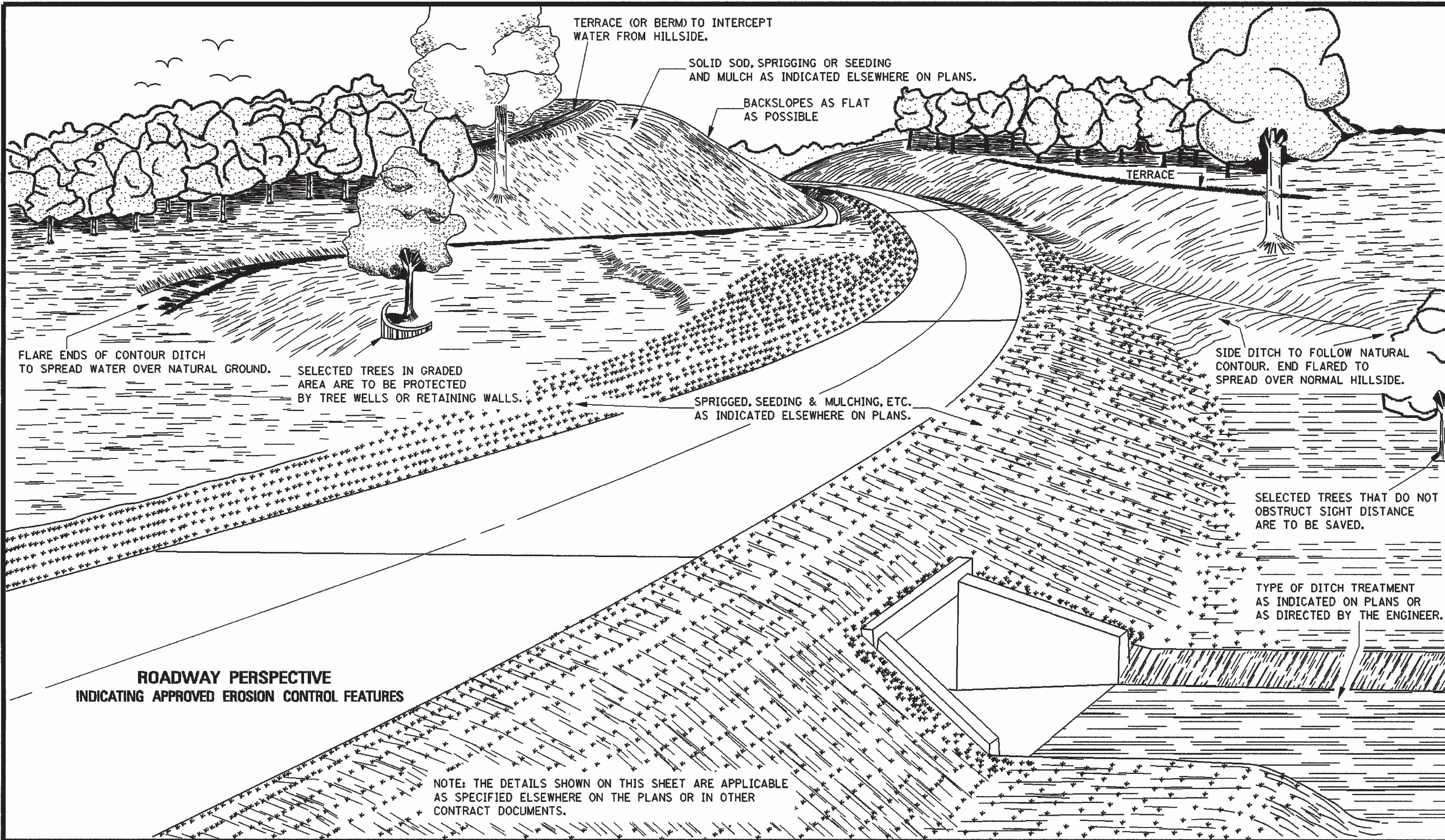
PAY QUANTITIES

LEGEND/SYMBOL	AREA (f+ ²)
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
1-WAY ARROW	24.3



1-WAY ARROW

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI WORKING NUMBER PM-6 SHEET NUMBER 125	
DATE		ISSUE DATE: OCTOBER 1, 1998	



GENERAL NOTE:

1. LONGITUDINAL AND TRANSVERSE MEASUREMENTS FOR THE PAY AREA SHALL BE TAKEN ALONG THE SLOPES.

DATE	REVISION	BY

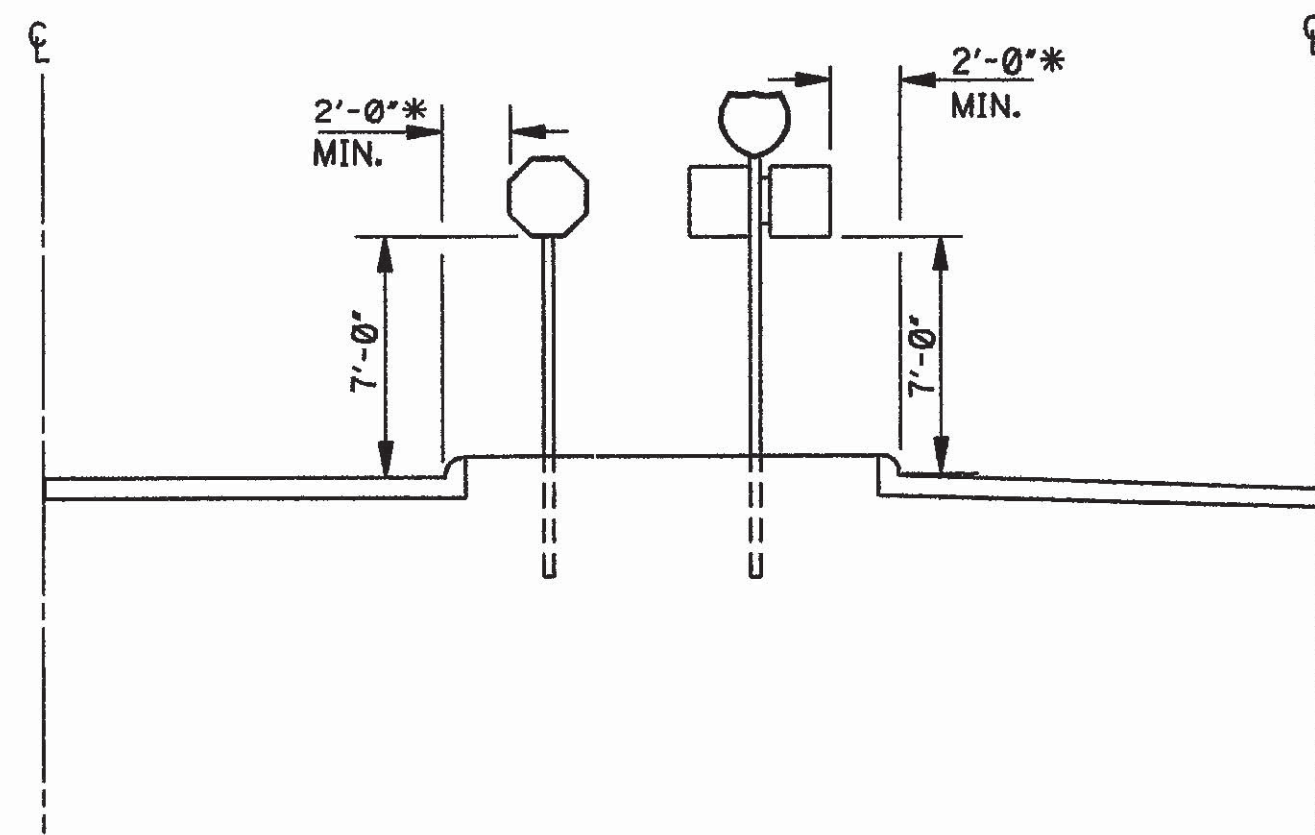
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

EROSION CONTROL

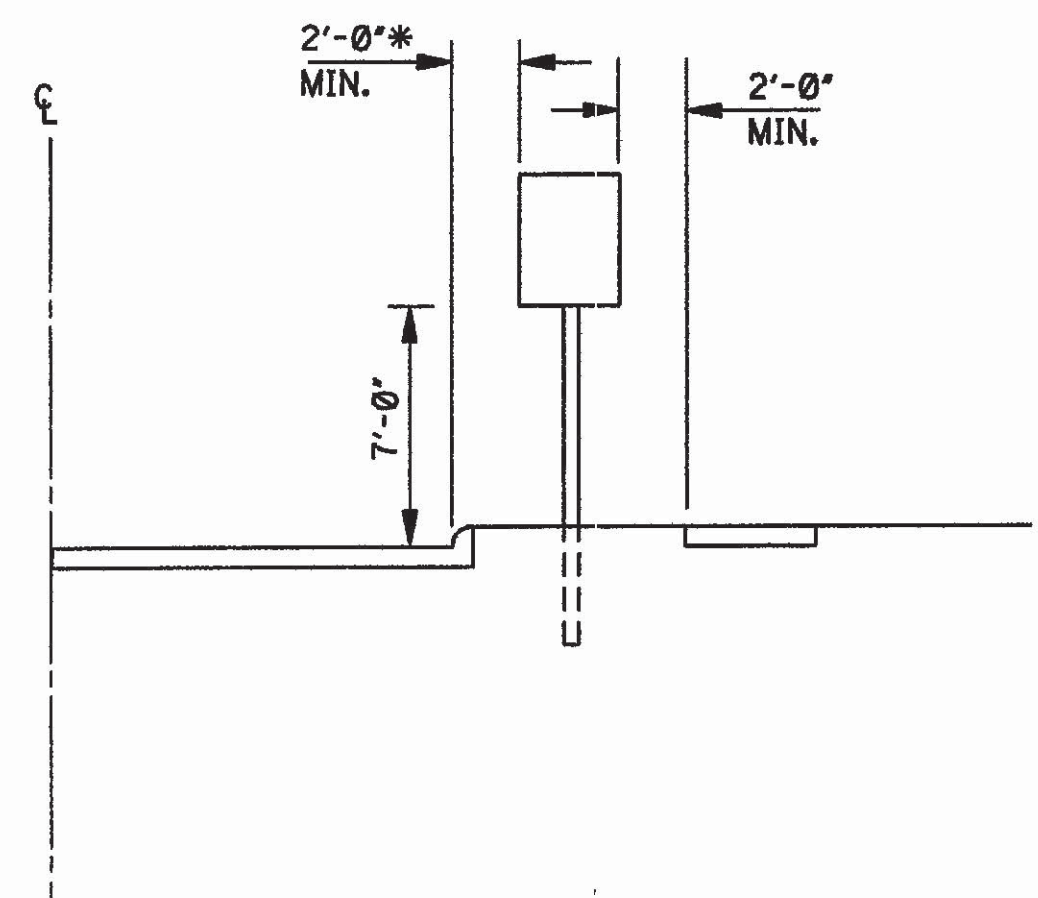
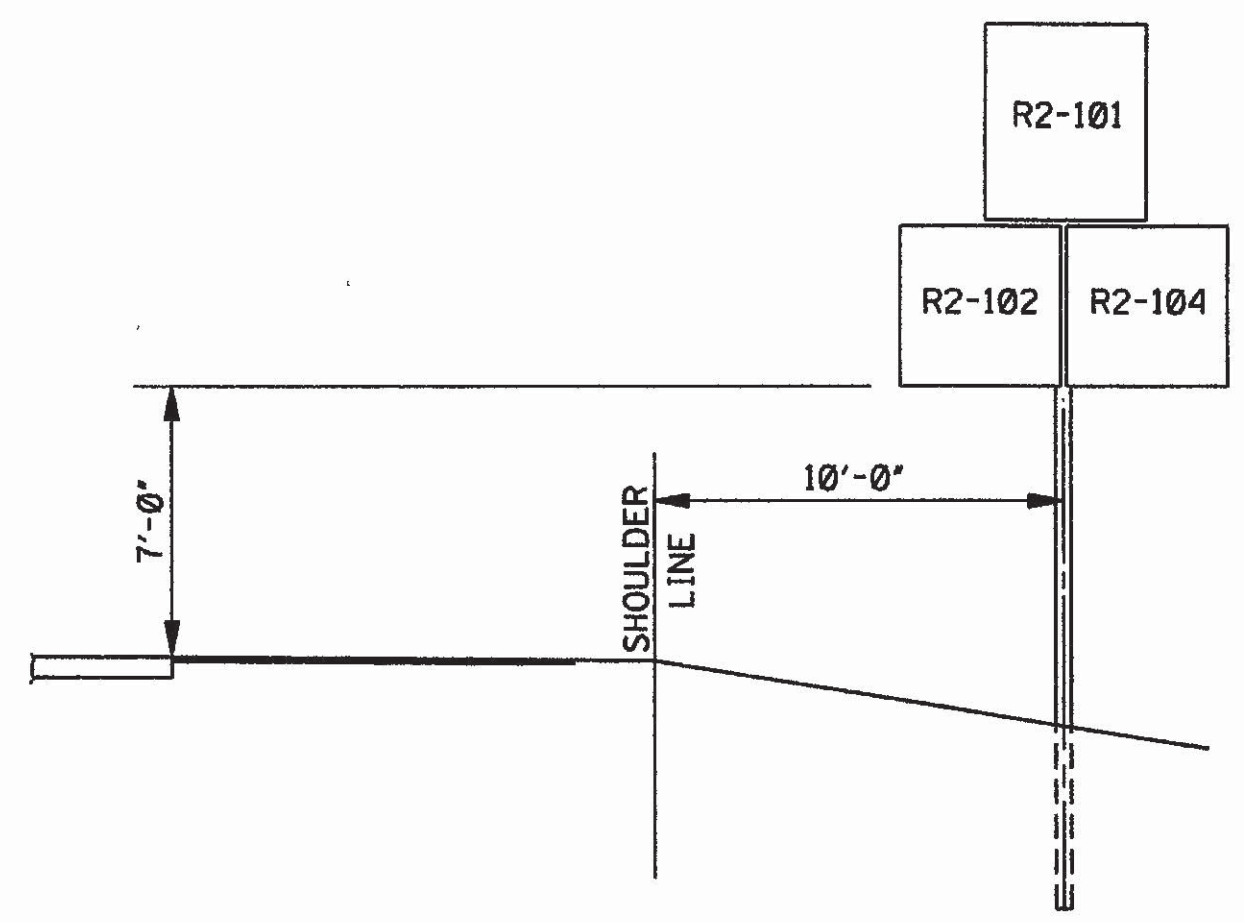
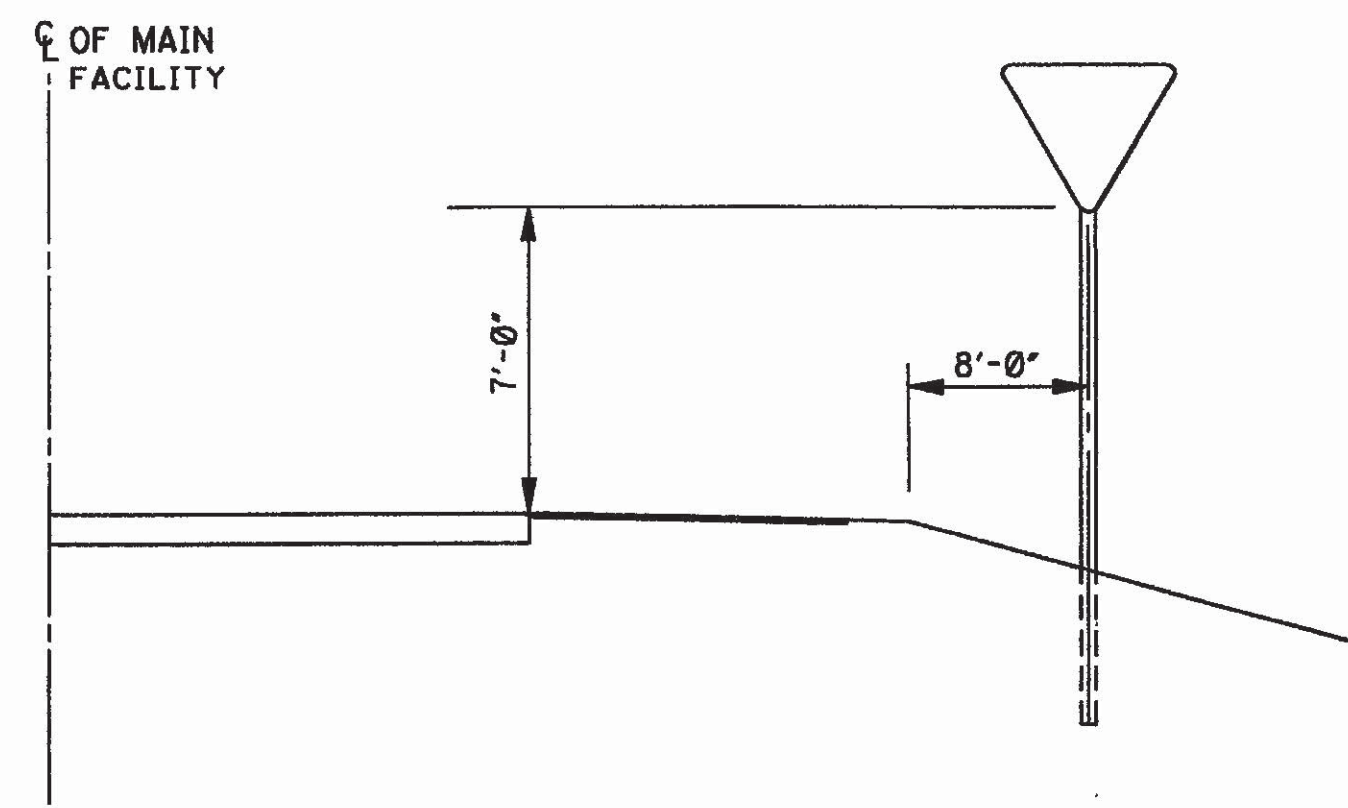
WORKING NUMBER
EC-1

SHEET NUMBER
140

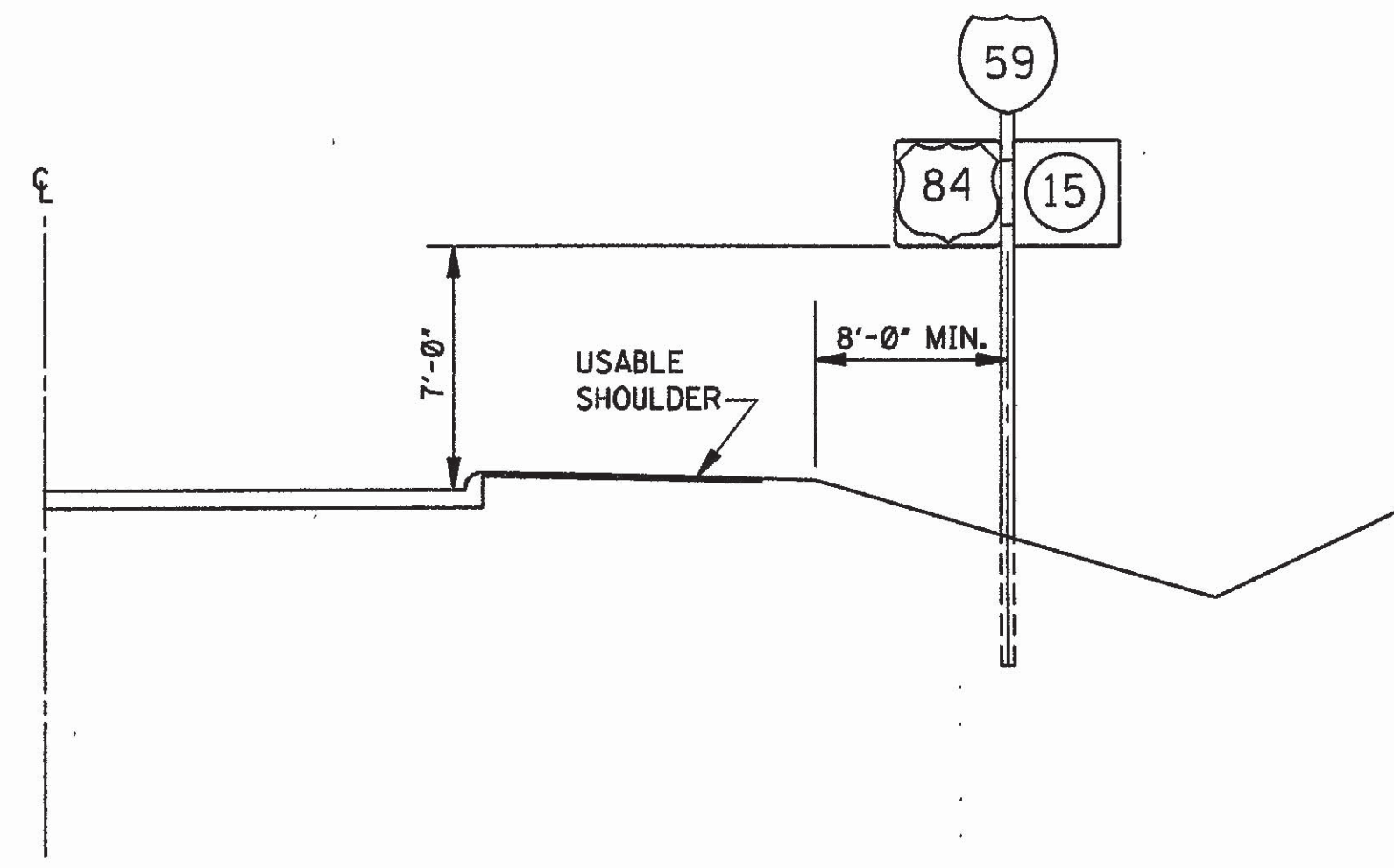
ISSUE DATE: OCTOBER 1, 1998



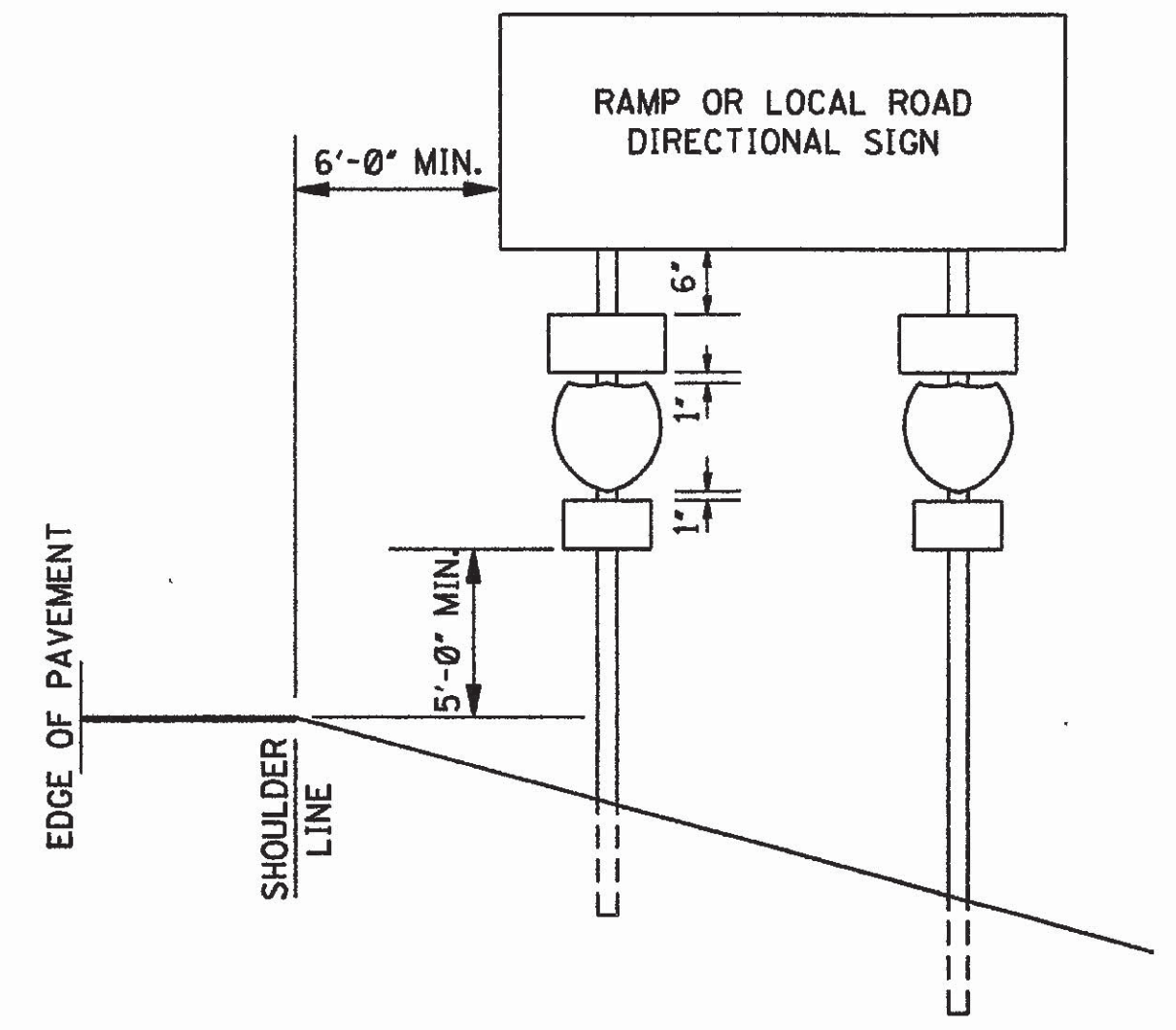
TYPICAL INSTALLATION IN ISLANDS OFF OF (OR ADJACENT TO) INTERSTATE MAIN FACILITY



TYPICAL INSTALLATION ALONG FRONTAGE ROAD, RAMP OR STREET WHERE THERE IS NOT A USABLE SHOULDER

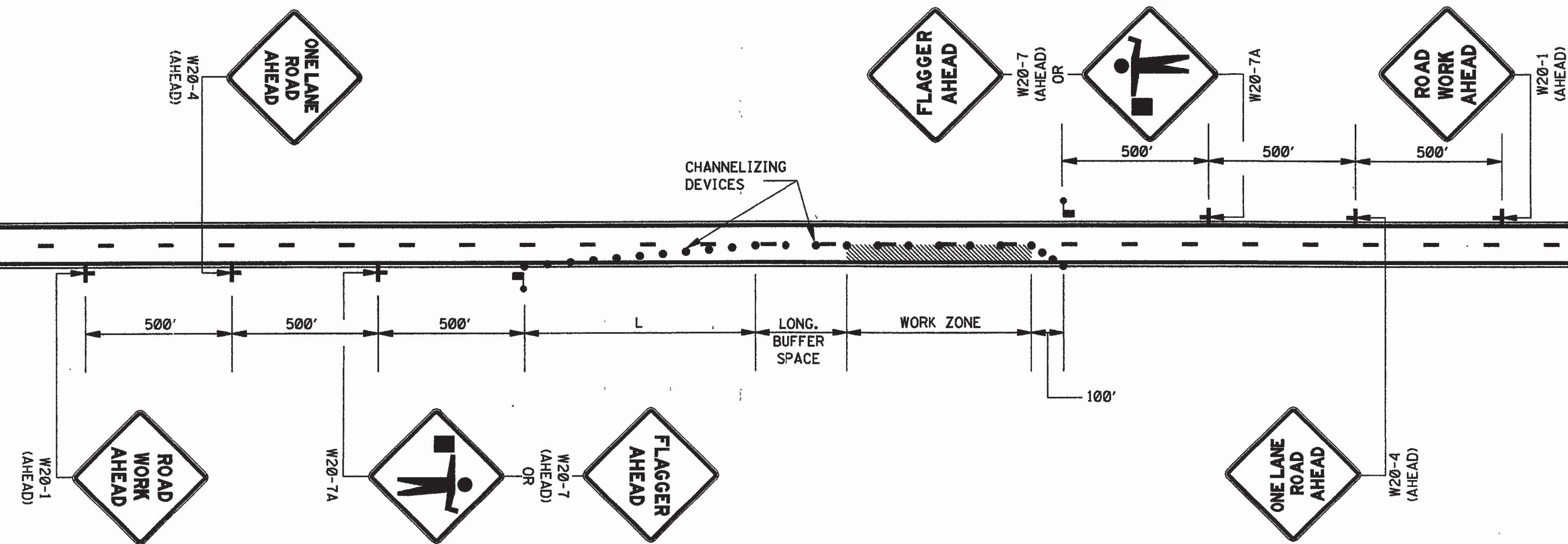


TYPICAL INSTALLATION ALONG THE INTERSTATE MAIN FACILITY AND ALONG RAMPS, FRONTAGE ROADS AND HIGHWAYS



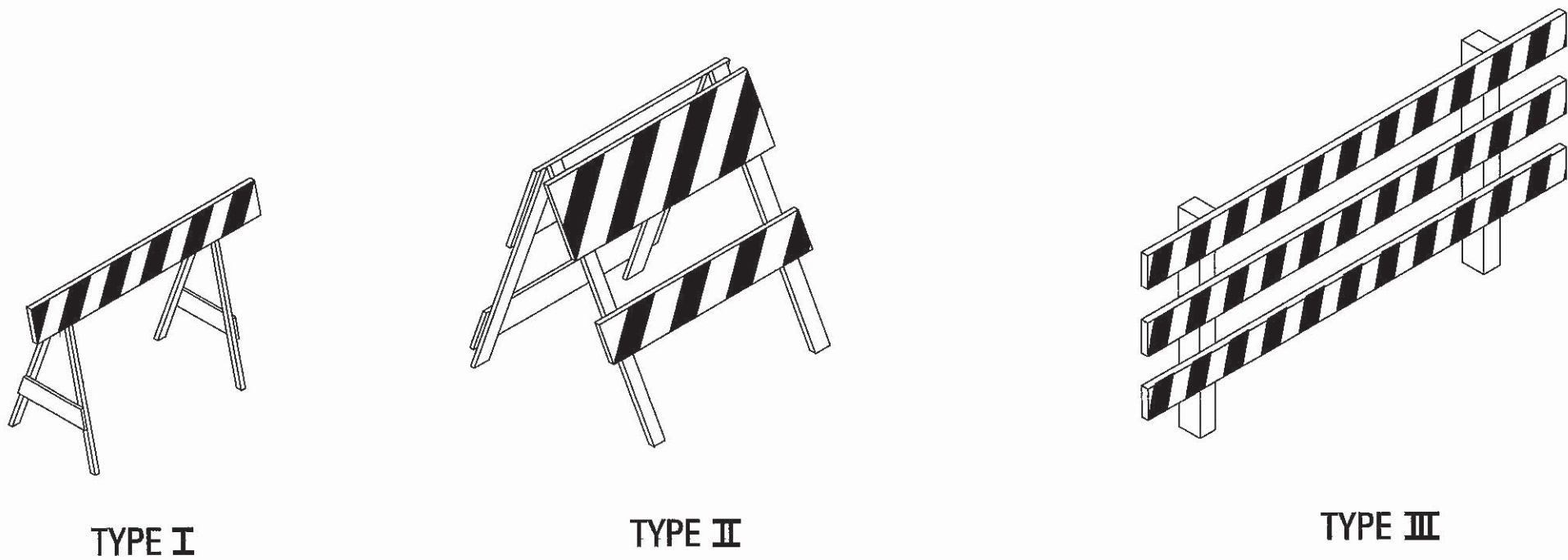
* NOTE: THE 2'-0" MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-SECTION POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET A MINIMUM OF 4'-0". RAMP DESTINATION SIGNS WILL BE OFFSET 4'-0" FROM SHOULDERS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		 WORKING NUMBER SN-4 SHEET NUMBER 225
DATE	ISSUE DATE: OCTOBER 1, 1998	



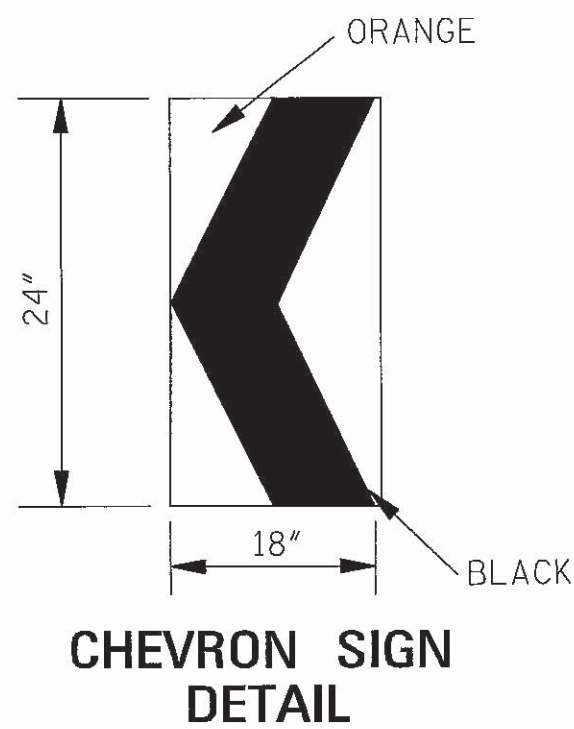
6/26/2012 1:31 PM SDTCP-10_06012012.DGN PLAN ROADWAY DESIGN DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

STATE	PROJECT NO.
MISS.	

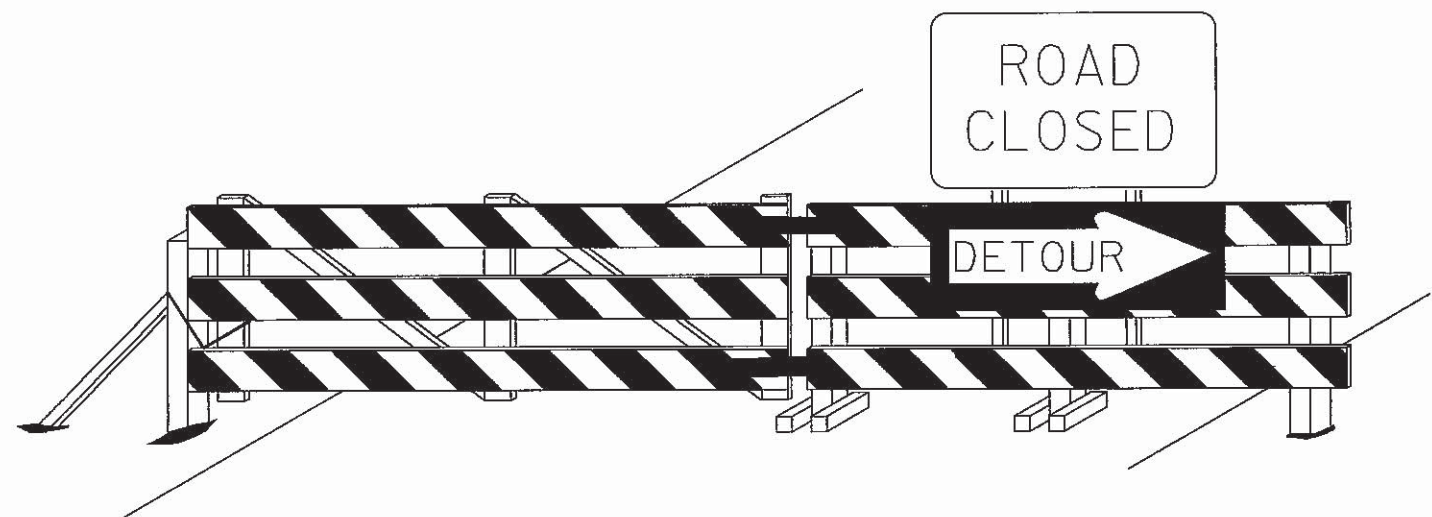


STANDARD BARRICADES

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.



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.

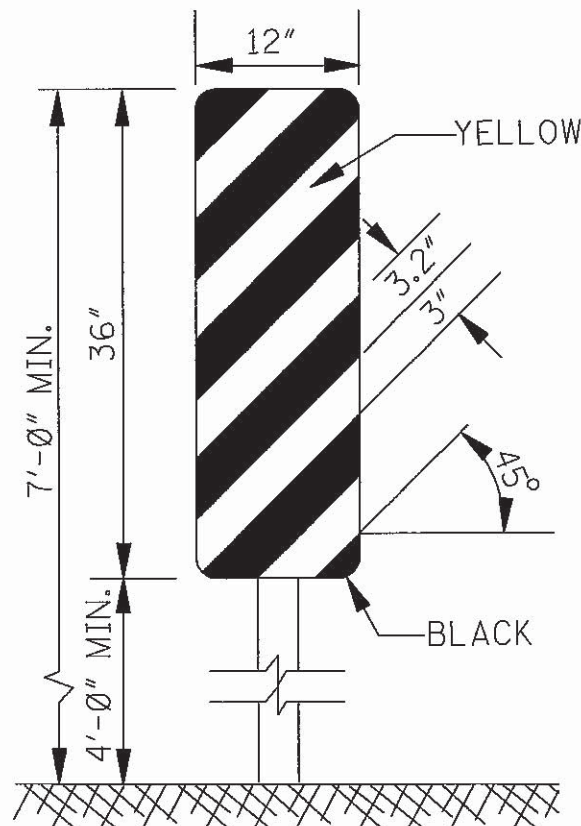


BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

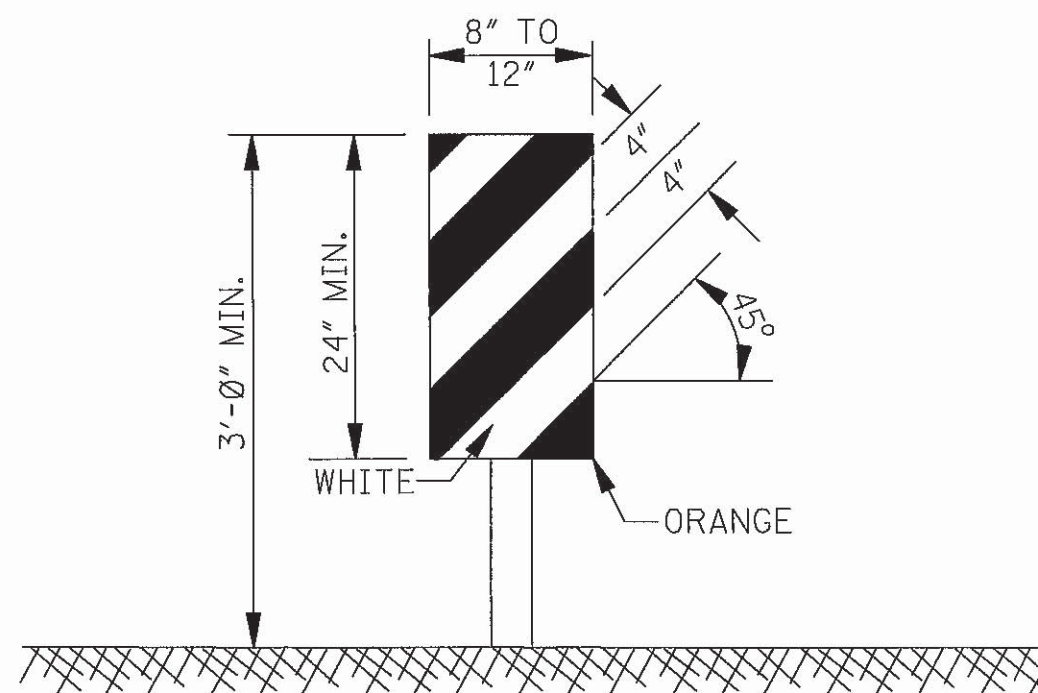
	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 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 in² OF REFLECTIVE AREA FACING TRAFFIC.



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.

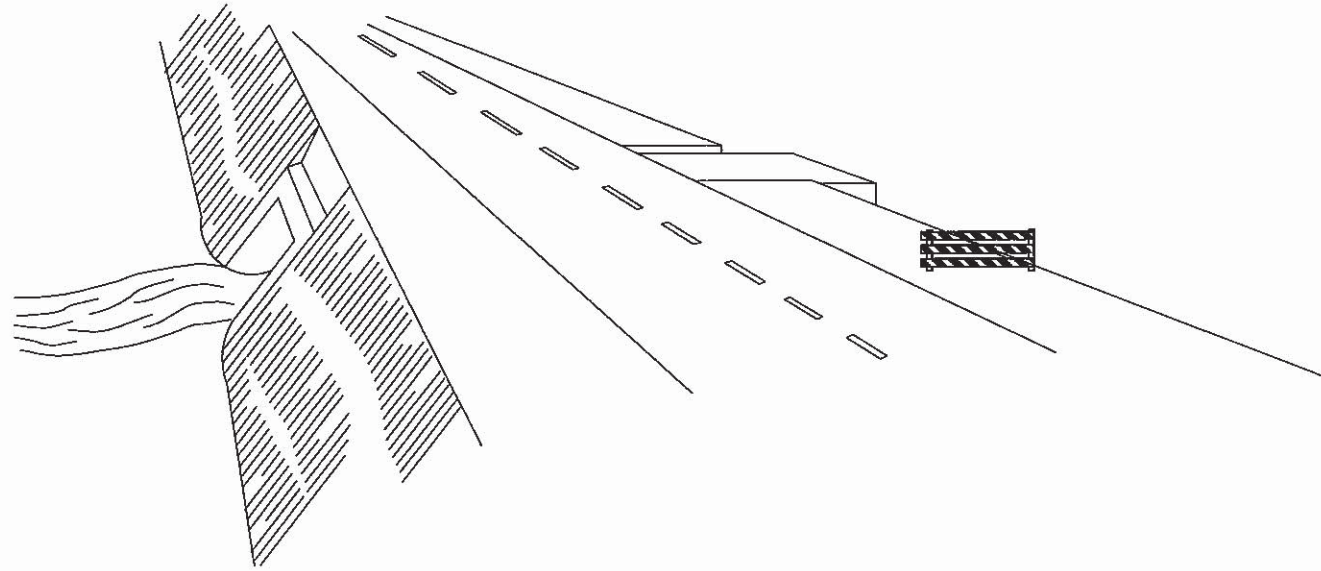


VERTICAL PANEL

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 in² OF RETROREFLECTIVE AREA FACING TRAFFIC.
4. FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

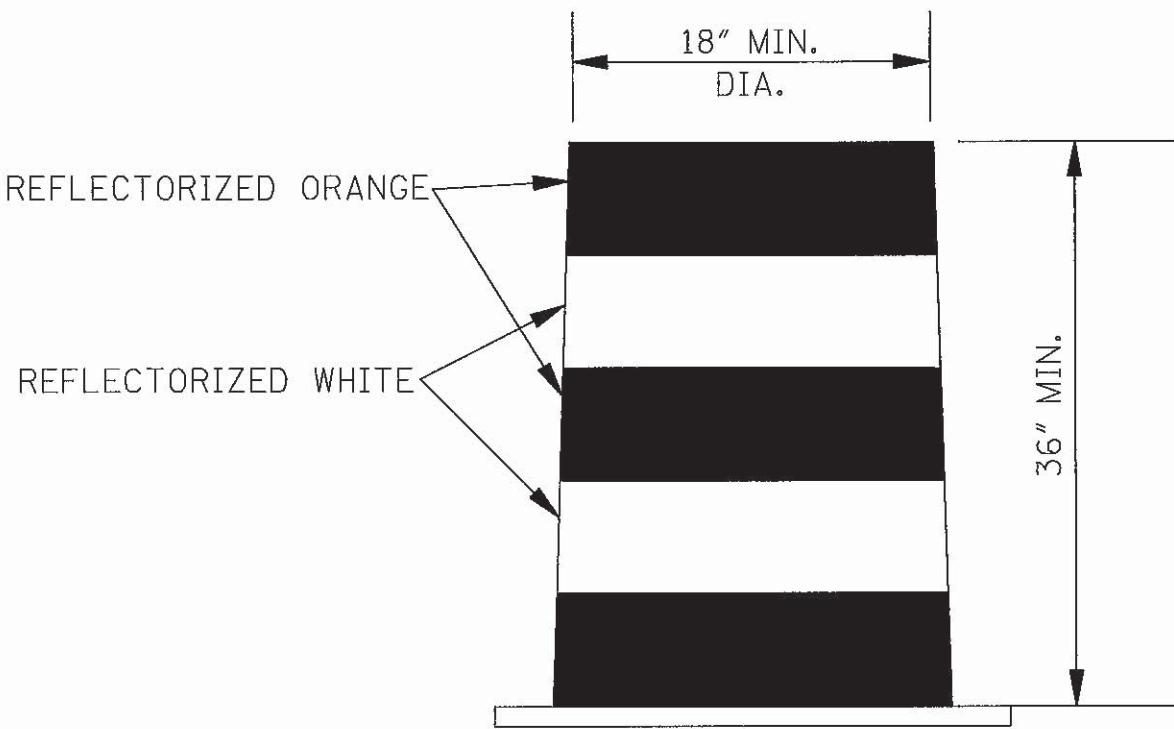
GENERAL NOTES:

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.



WING BARRICADES

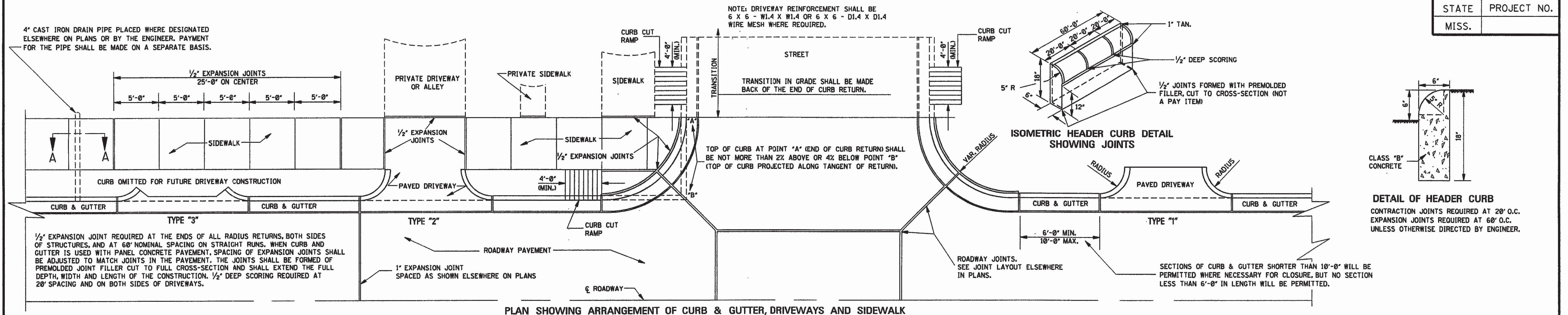
1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



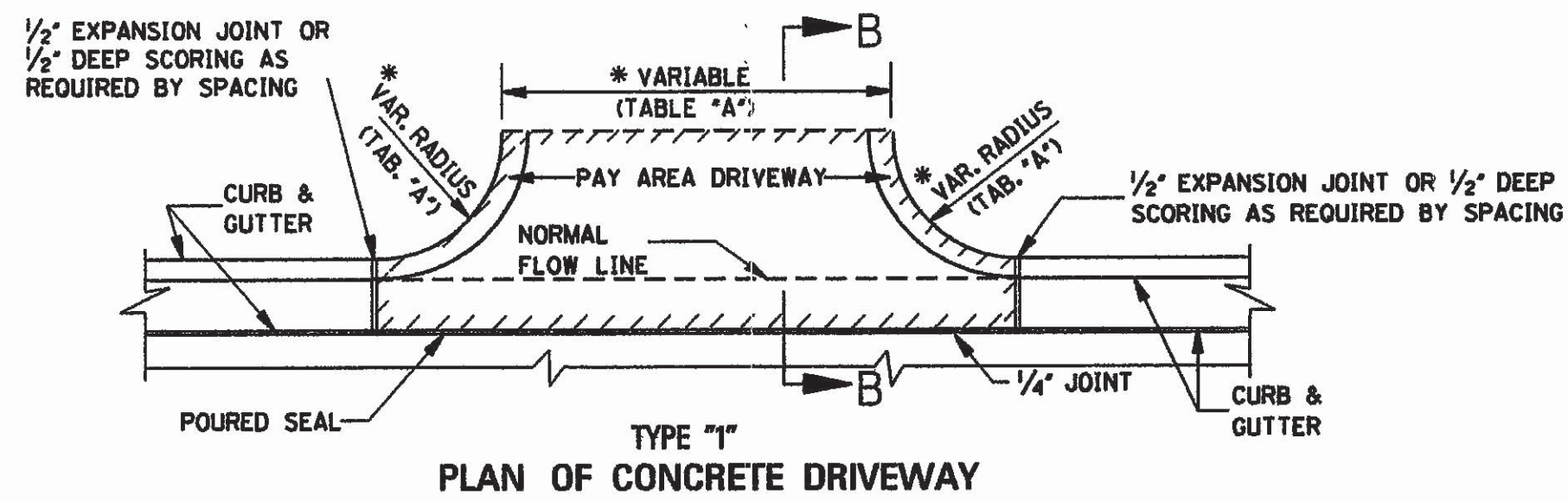
PLASTIC DRUM STRIPING DETAIL

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.

				BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
				REVISION	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS			
				DATE				
				DESIGN TEAM		CHECKED		DATE 6/1/2012
					FILENAME: SDTCP-10_06012012.DGN			WORKING NUMBER SDTCP-10
								SHEET NUMBER

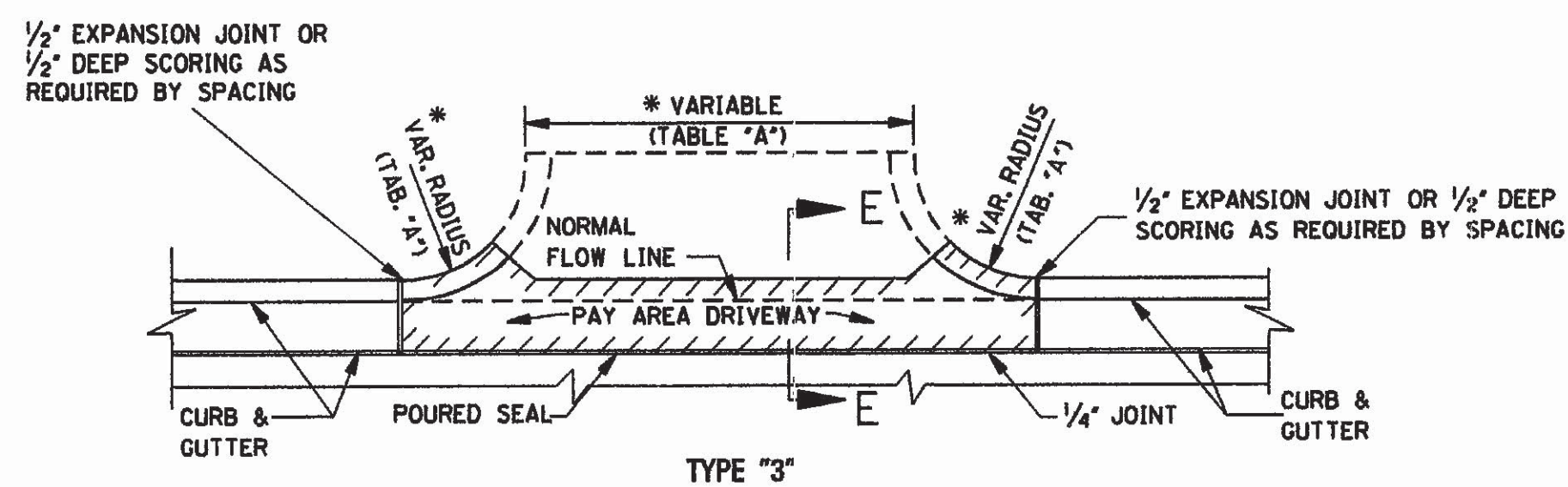
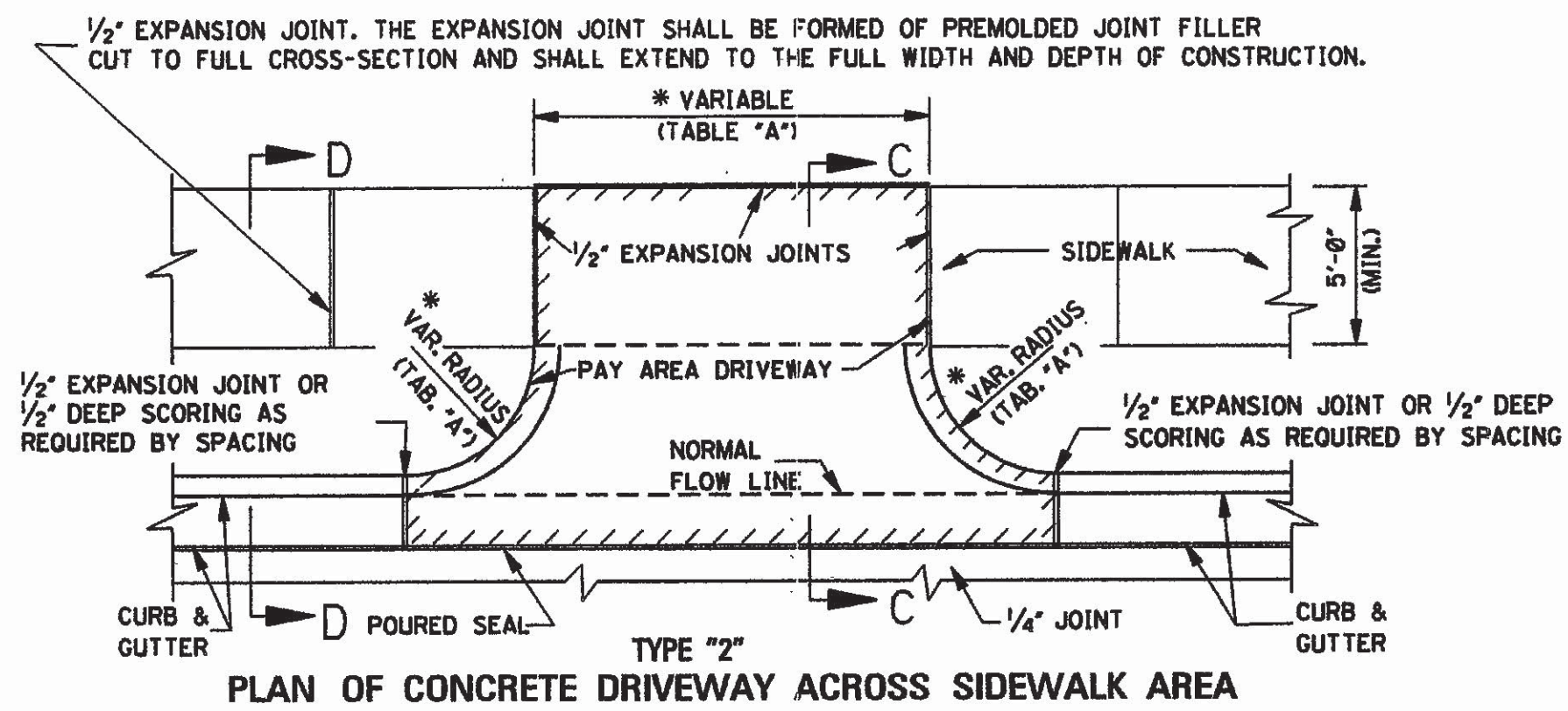


PLAN SHOWING ARRANGEMENT OF CURB & GUTTER, DRIVEWAYS AND SIDEWALK

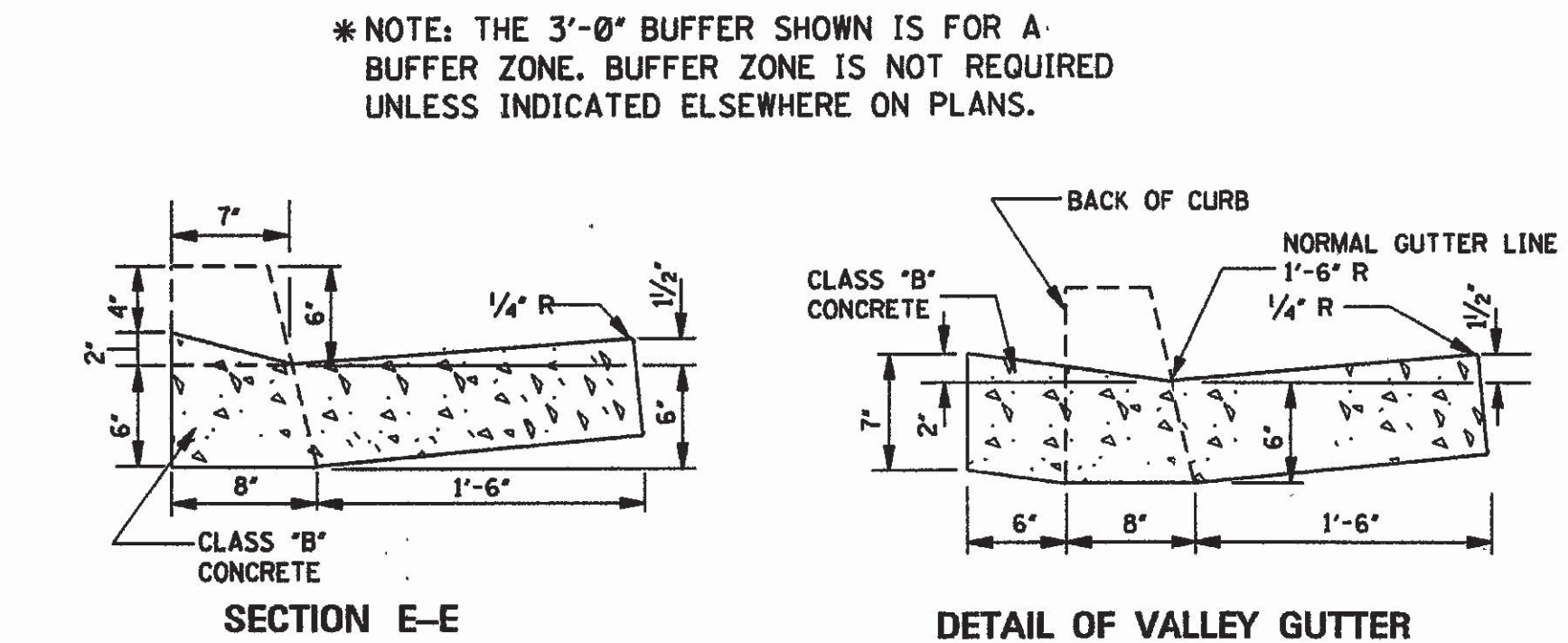
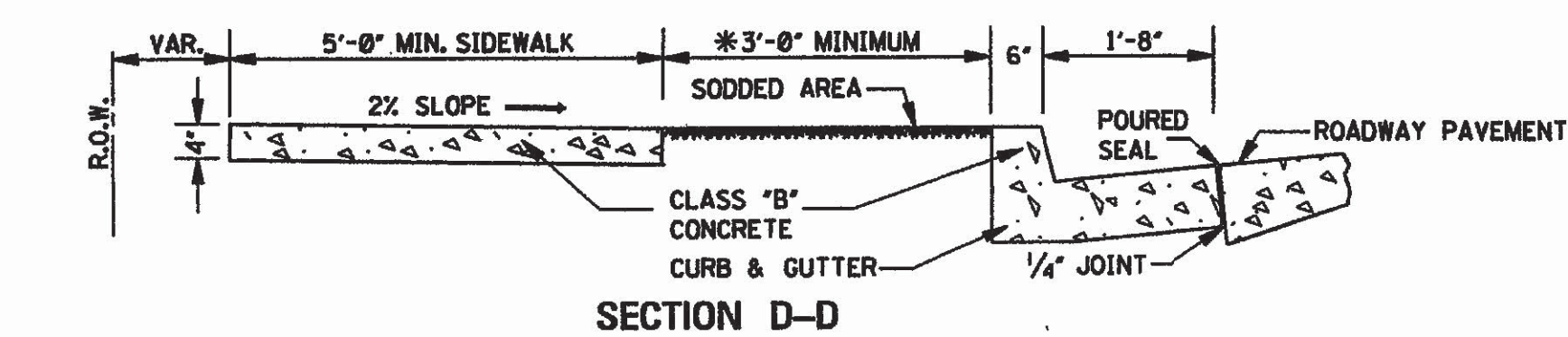
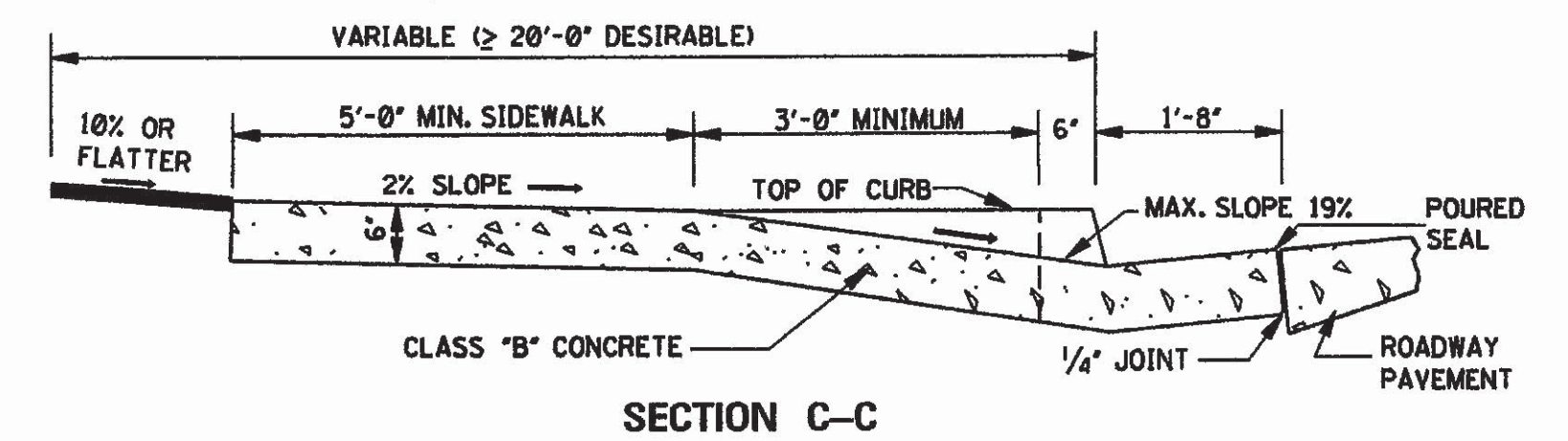
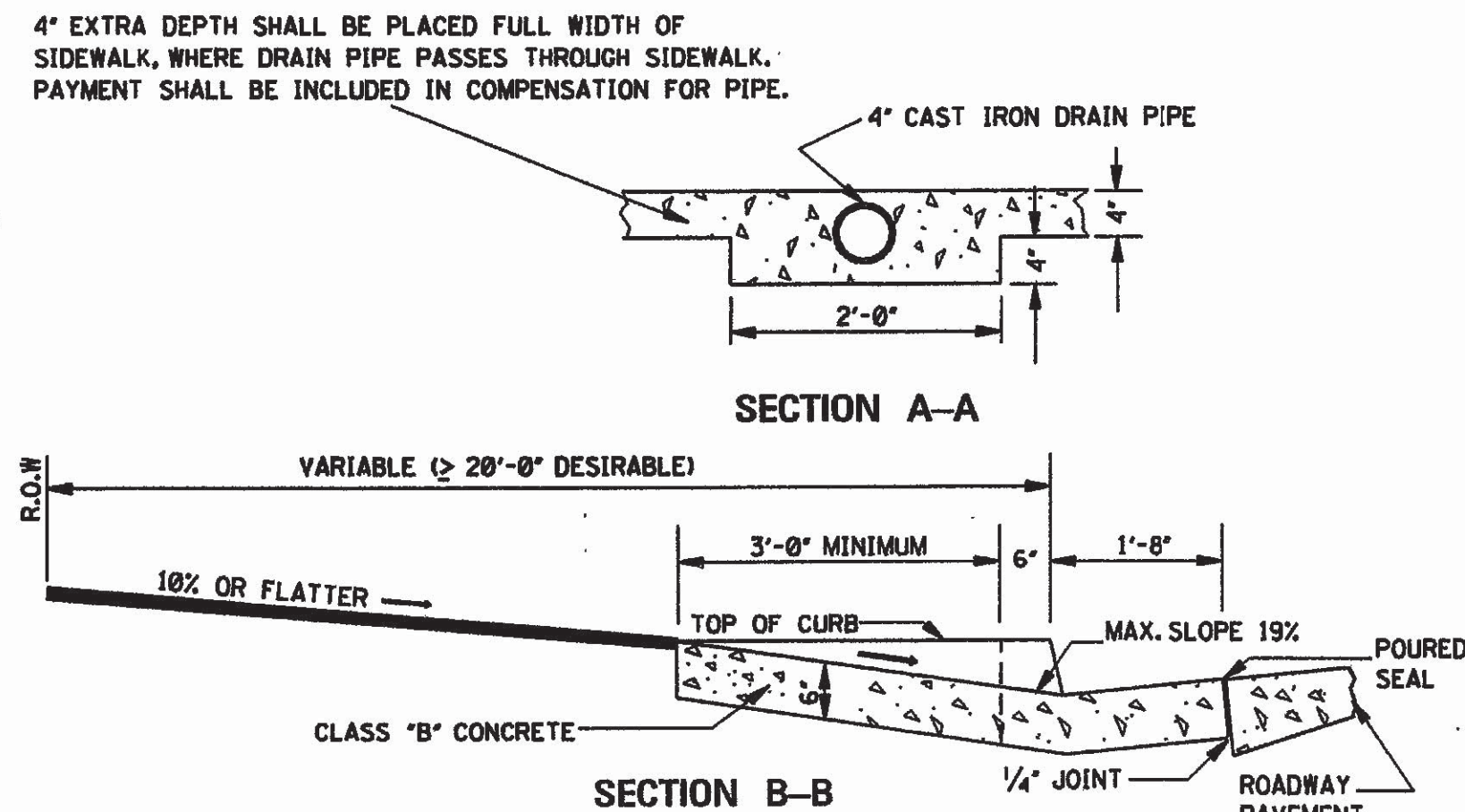


11.058 yd² FOR DRIVEWAY 16'-0" IN WIDTH.
0.574 yd² FOR EACH ADDED OR SUBTRACTED
FOOT OF WIDTH.
NOTE: THIS DRIVEWAY AREA EXAMPLE IS
COMPUTED ON THE BASIS OF 3'-0" RADIUS.
PAYMENT FOR CURB RADIUS SHALL BE
INCLUDED IN COMPENSATION FOR DRIVEWAY.

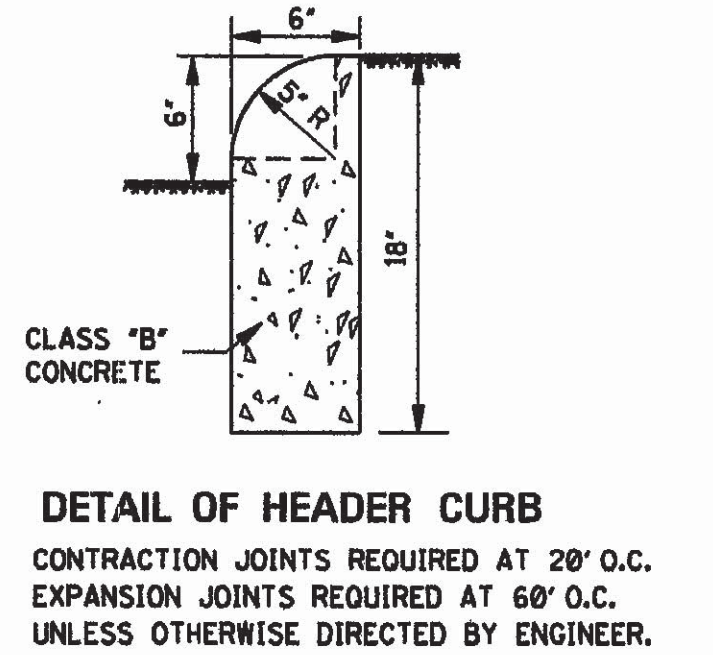
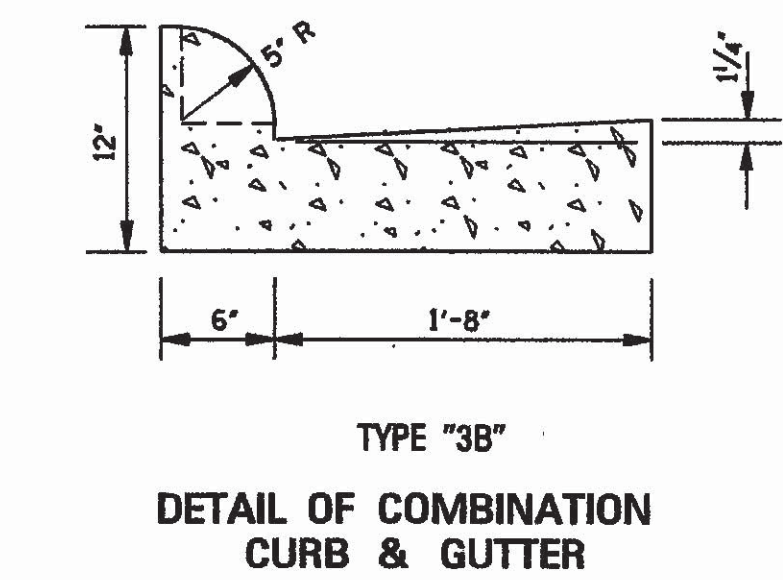
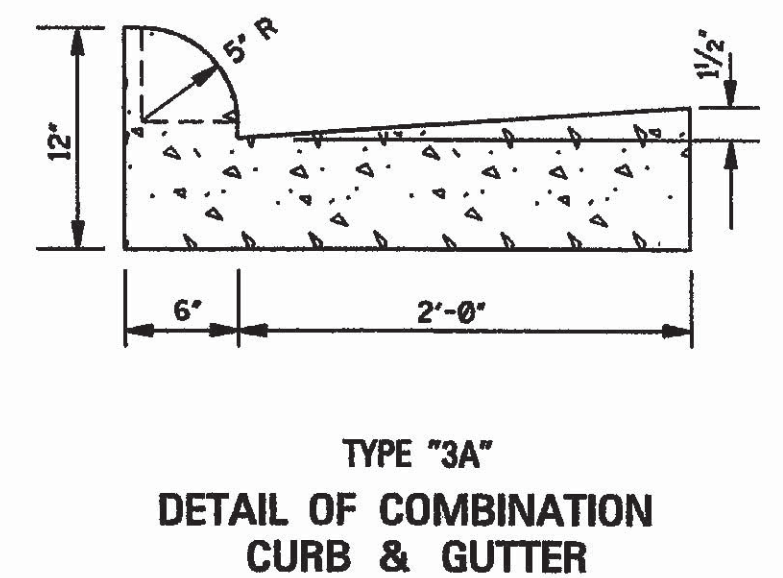
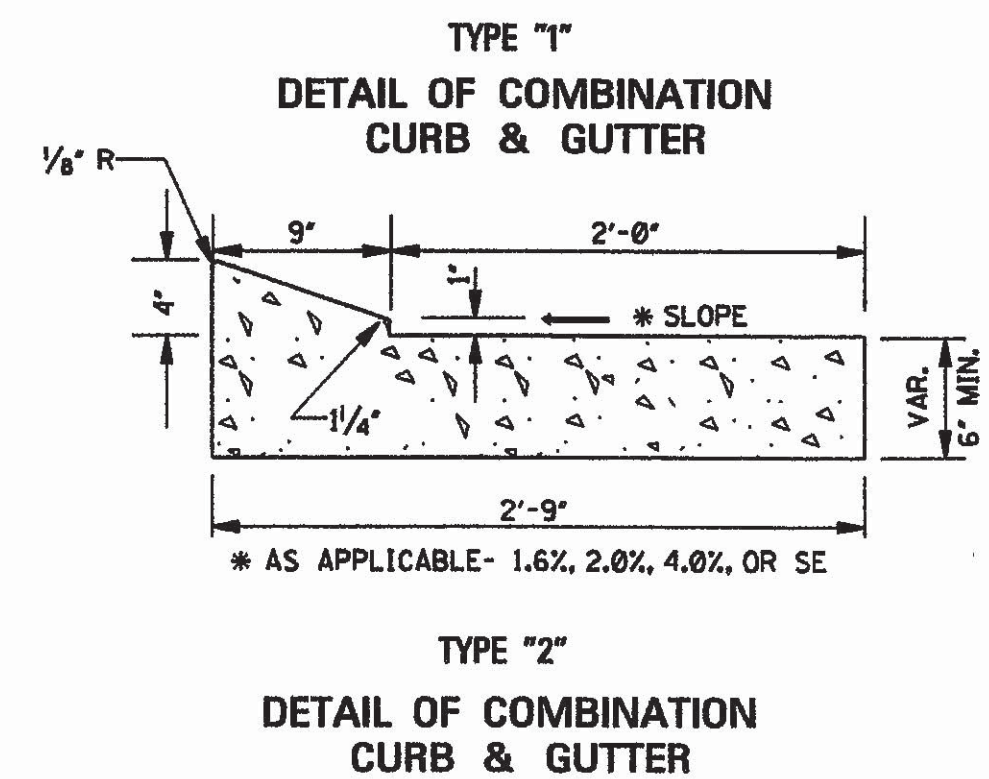
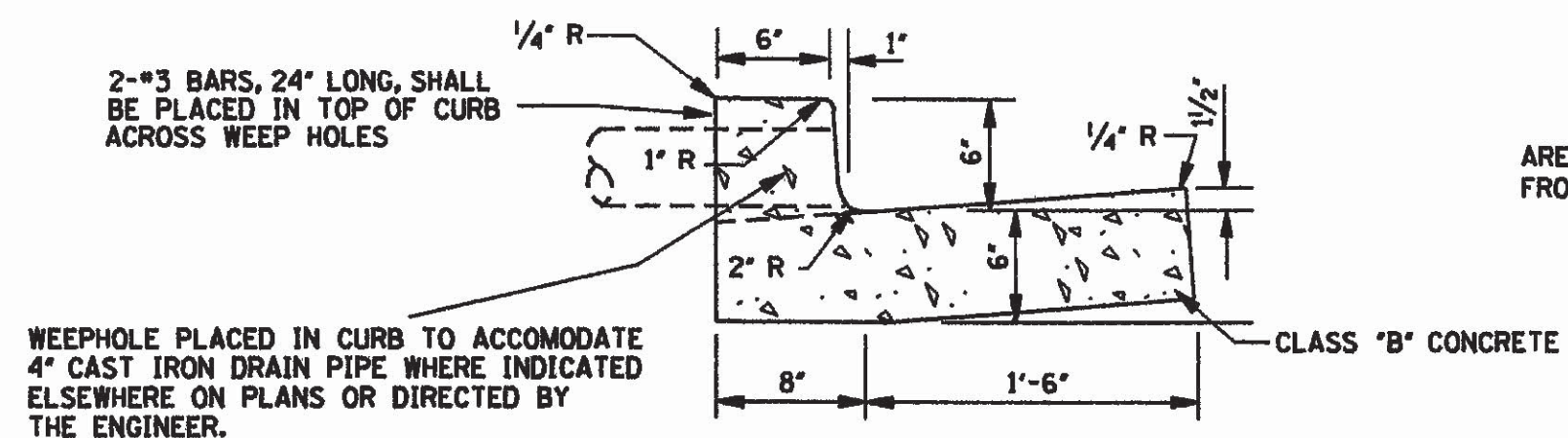
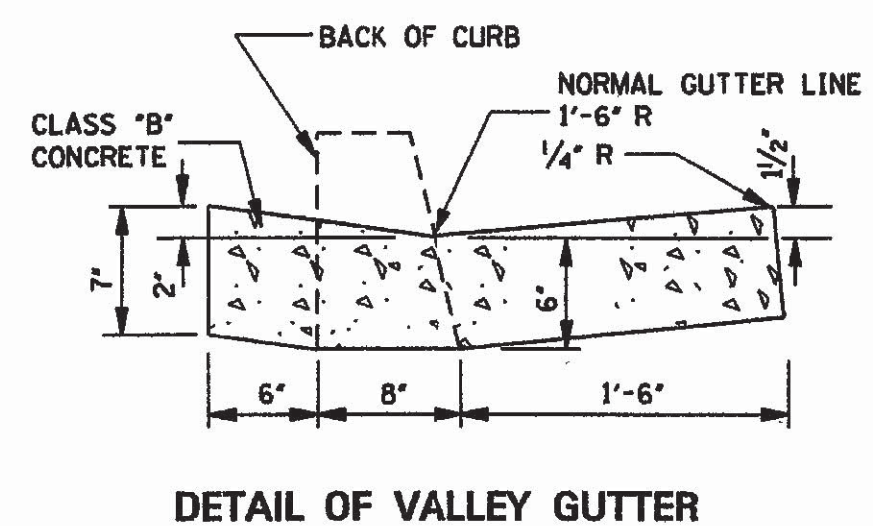
*TABLE "A"		
DRIVEWAY TYPE	DRIVEWAY WIDTH (ft)	CURB RETURN RADIUS (ft)
RESIDENTIAL	16'	3' - 10'
COMMERCIAL/ INDUSTRIAL	30' - 50'	5' - 30'



NOTE: THIS TYPE CONSTRUCTION SHALL BE USED WHERE DESIGNATED ELSEWHERE ON PLANS OR BY THE ENGINEER.

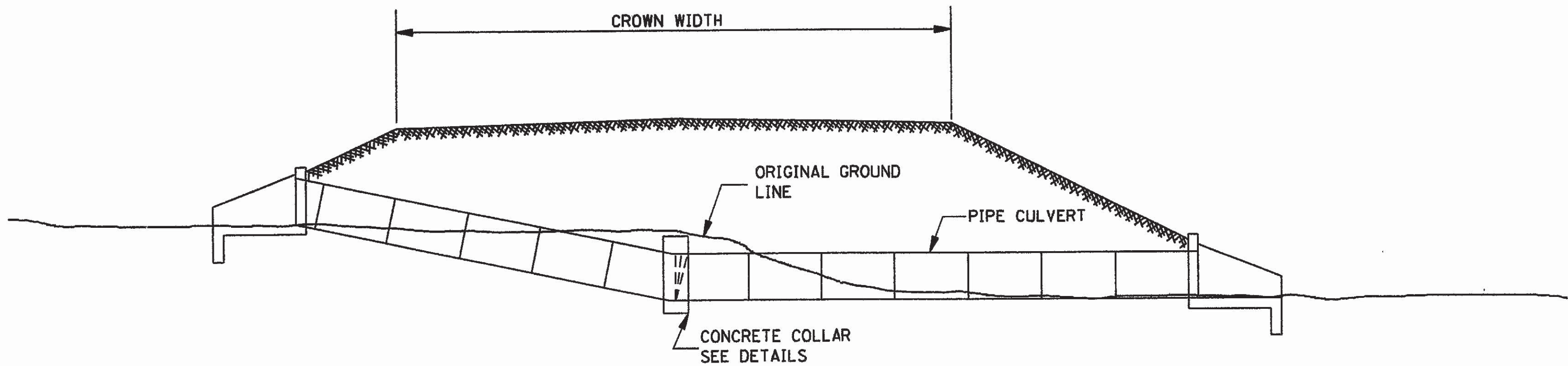


* NOTE: THE 3'-0" BUFFER SHOWN IS FOR A
BUFFER ZONE. BUFFER ZONE IS NOT REQUIRED
UNLESS INDICATED ELSEWHERE ON PLANS.

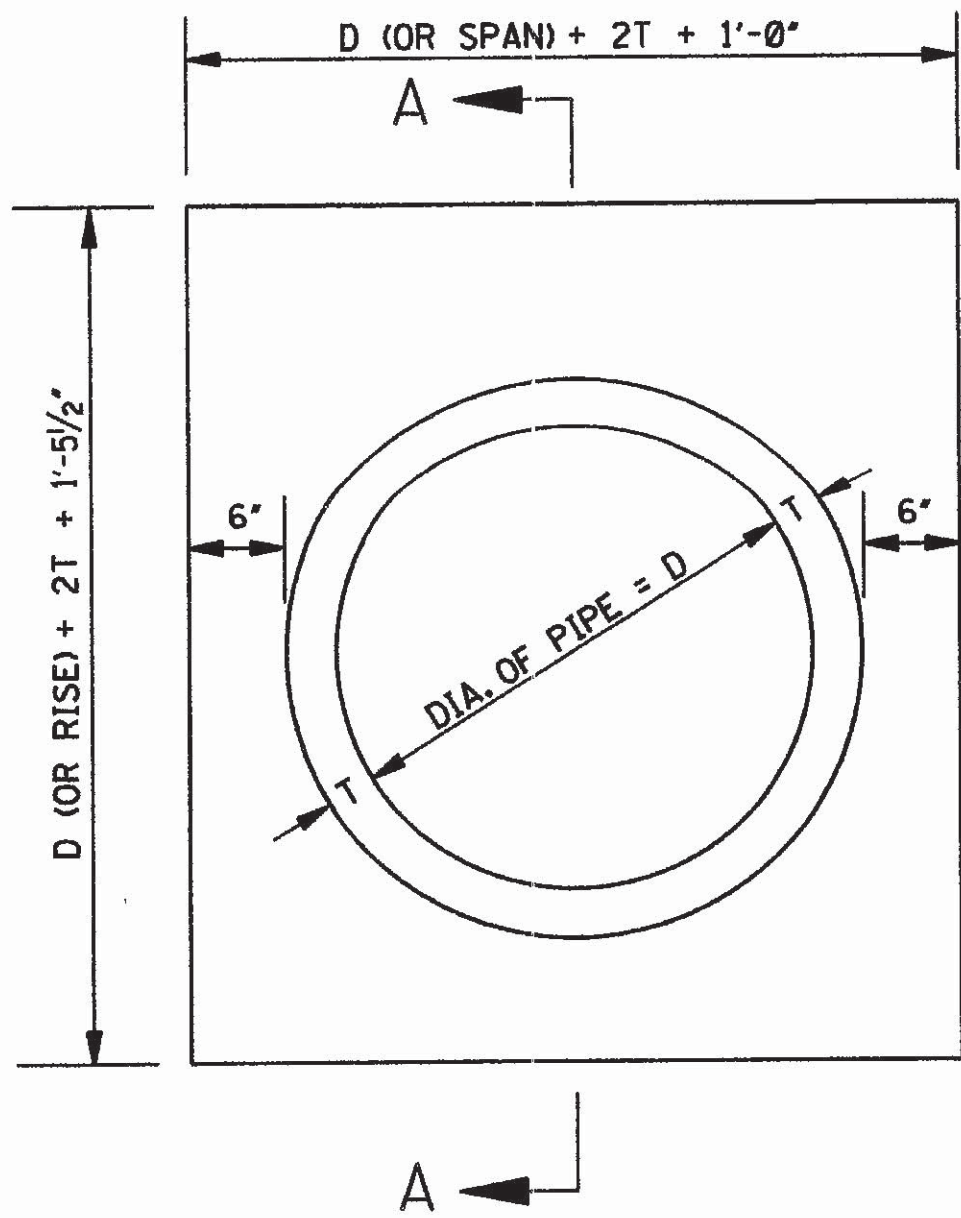


- GENERAL NOTES:
1. THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL, UNLESS OTHERWISE SPECIFIED HEREIN, APPLY TO ALL ITEMS INCLUDED ON THIS DRAWING.
 2. TRAVERSE CONTRACTION JOINTS ARE REQUIRED AT 20' ON CENTER FOR ALL CONCRETE DRIVEWAYS THAT EXTEND PAST THE END OF THE CURB RETURN. A 1/2" 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.

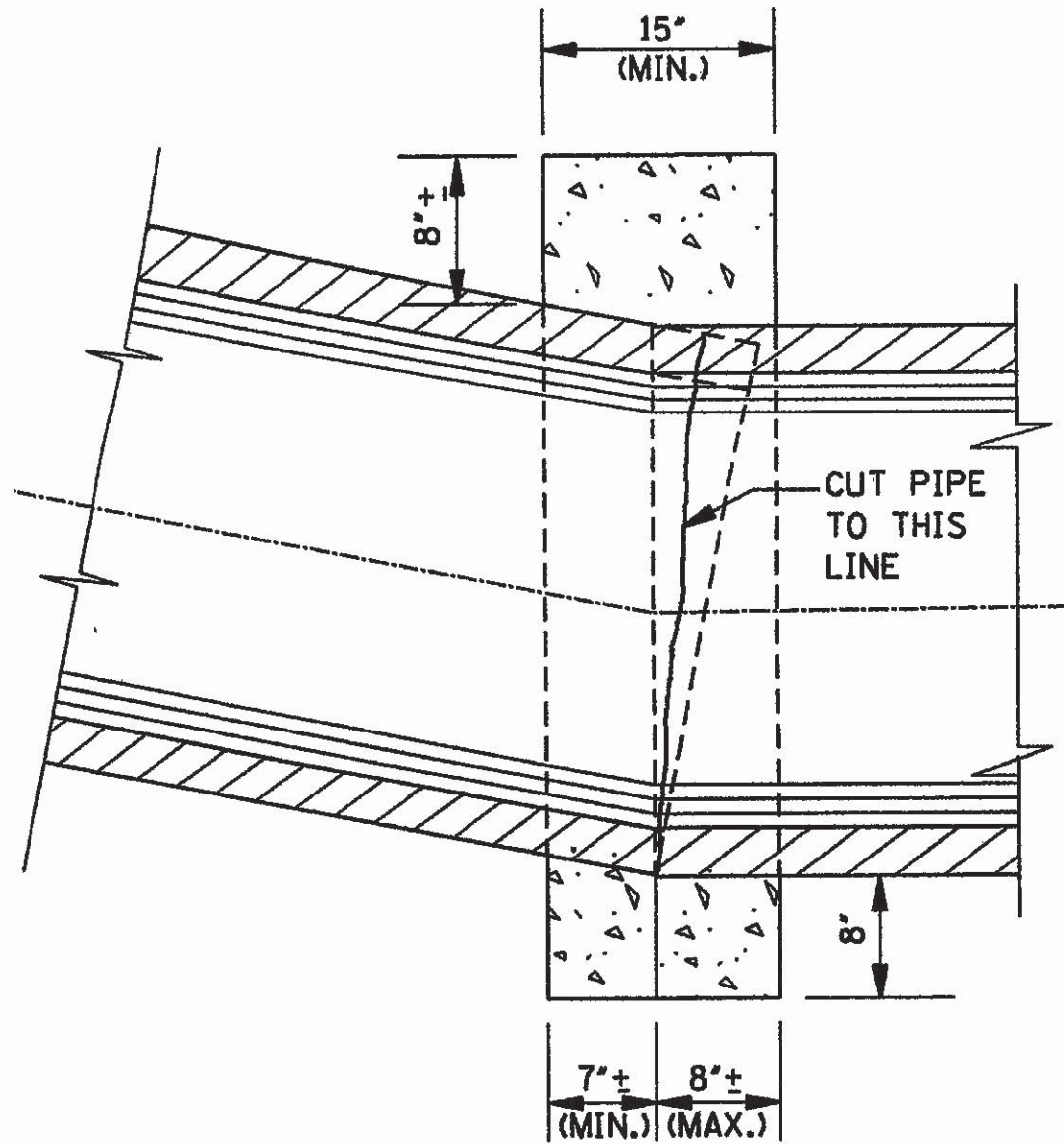
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		ROADWAY DESIGN DIVISION	
DATE		STANDARD PLAN	
		DRIVEWAYS, CURB & GUTTER & SIDEWALK	
		WORKING NUMBER SD-1	
		SHEET NUMBER 287	
		ISSUE DATE: OCTOBER 1, 1998	



TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE



ELEVATION OF CONCRETE COLLAR
NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.

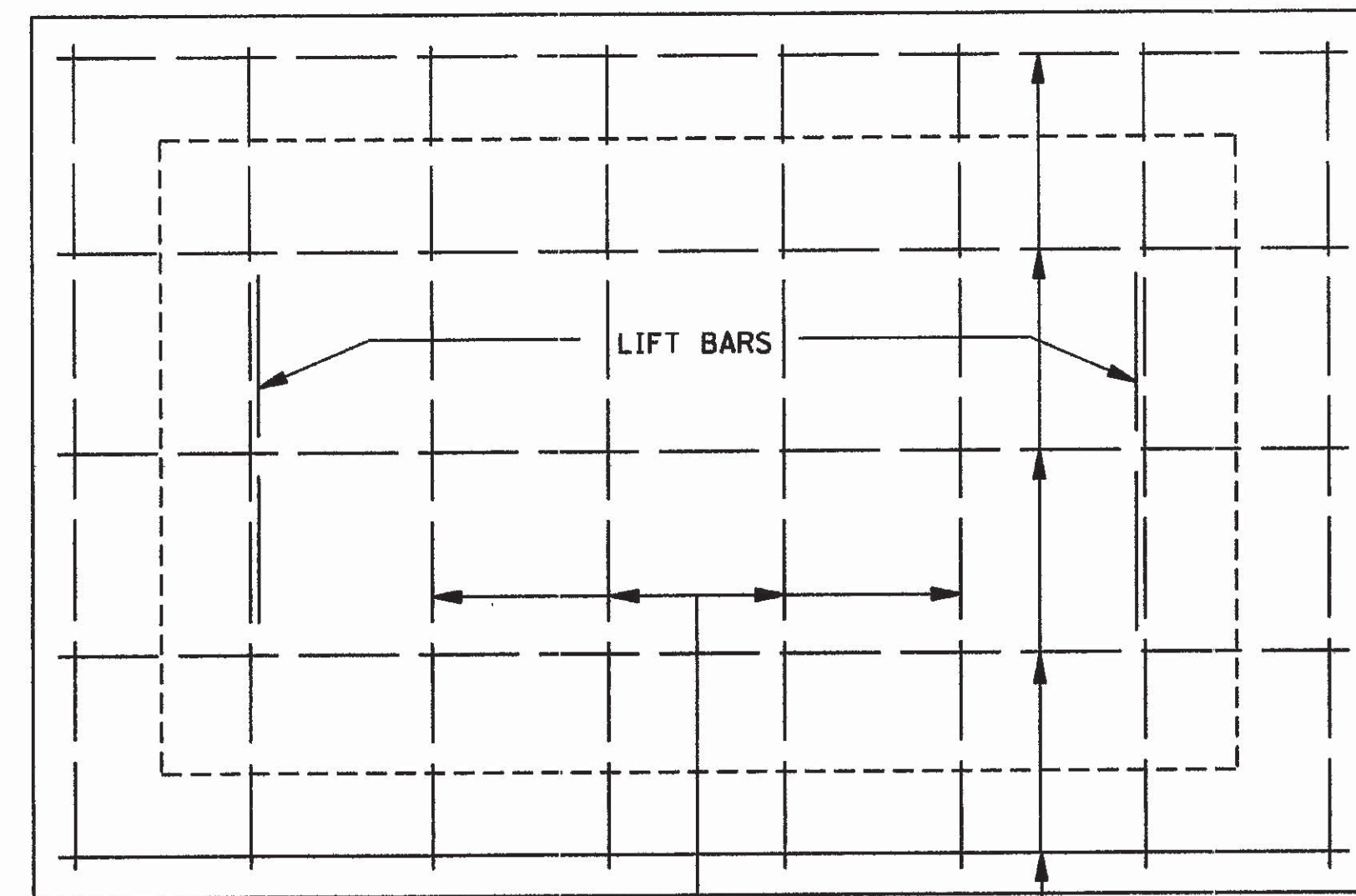


SECTION A-A

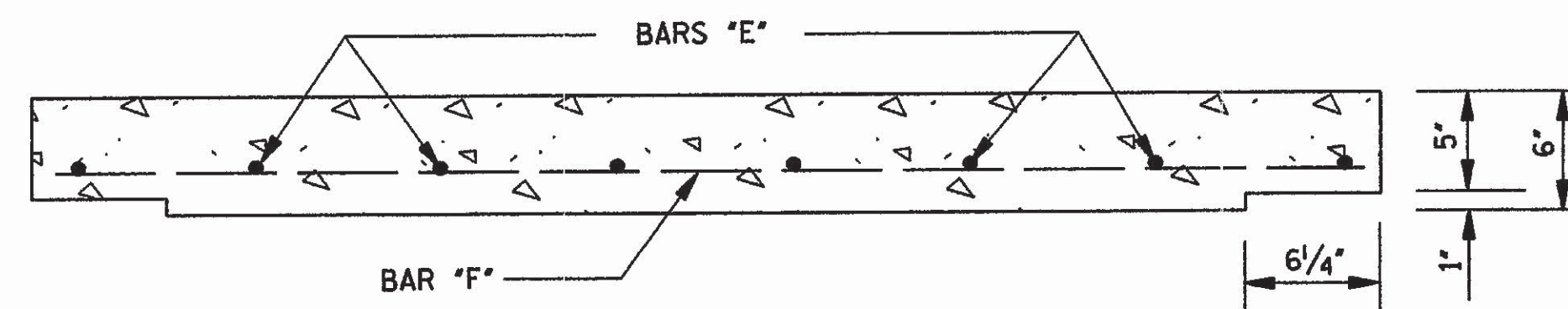
GENERAL NOTE:
1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT
UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

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		

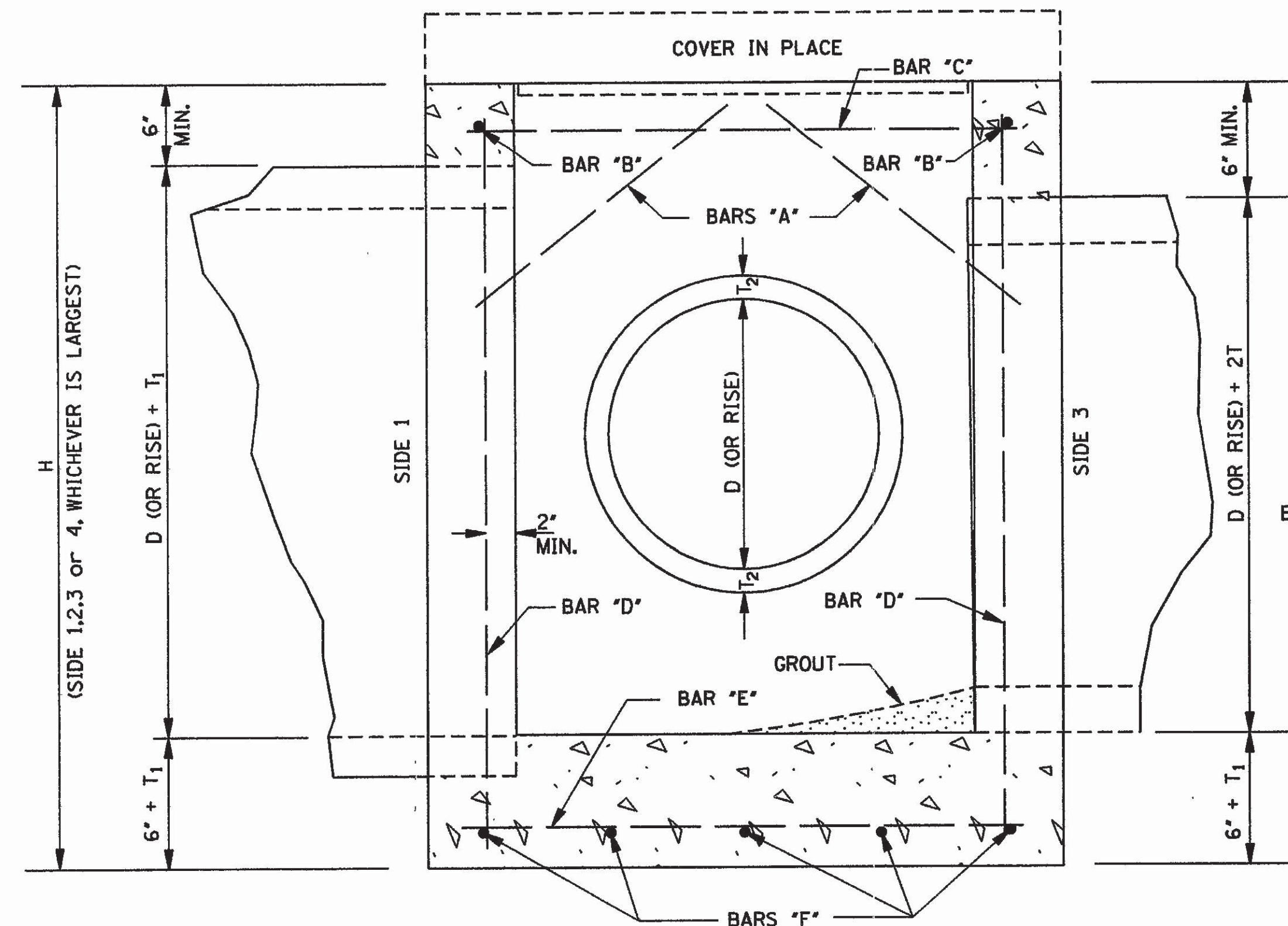
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ENGLISH MISSISSIPPI	
DATE		WORKING NUMBER PC-1	
ISSUE DATE:		SHEET NUMBER 301	
		OCTOBER 1, 1998	



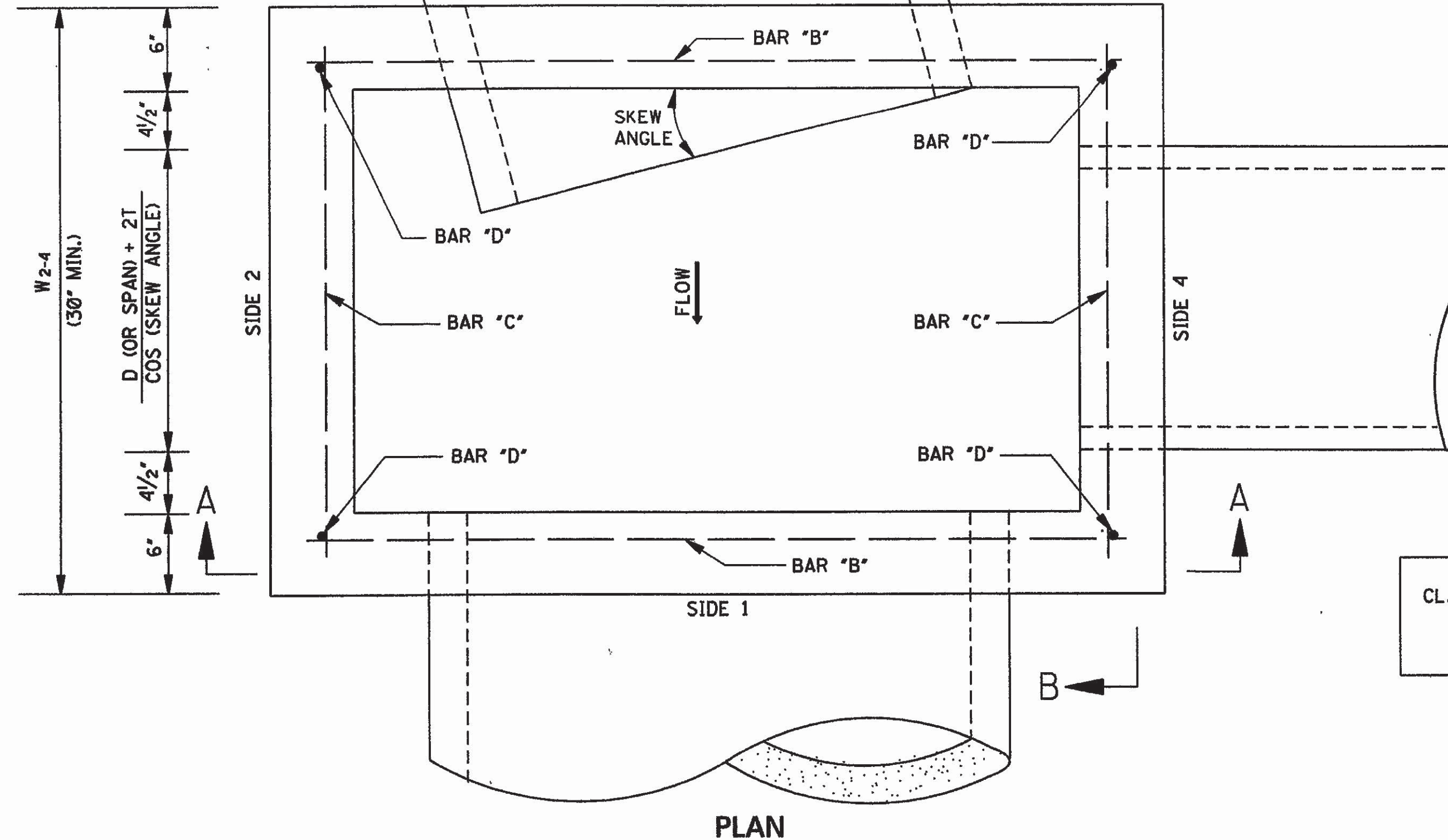
PLAN OF COVER



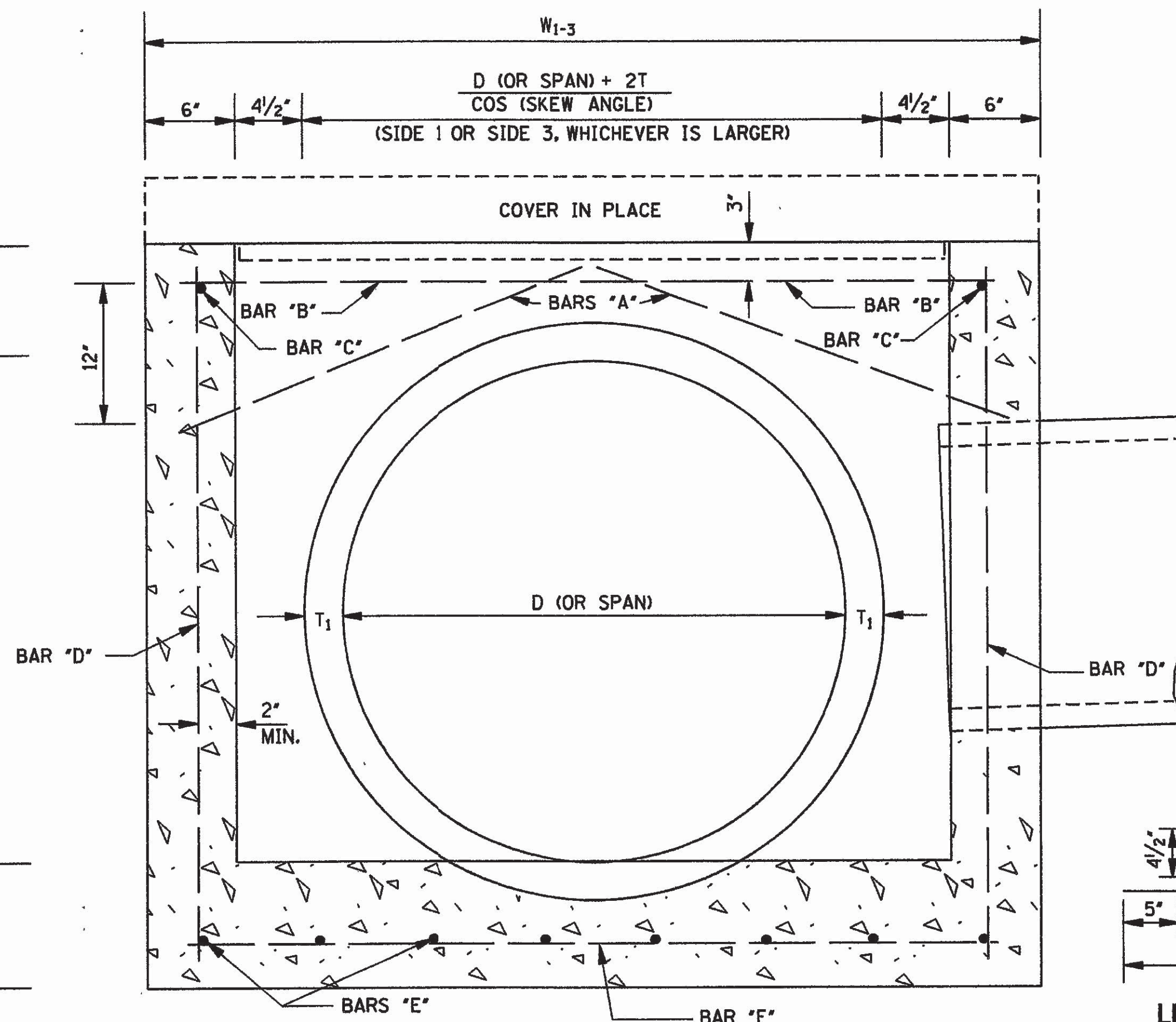
ELEVATION OF COVER



SECTION B-B



PLAN



SECTION A-A

REINFORCING BAR LIST

BAR	SIZE	NUMBER REQUIRED	LENGTH
A	#4	2 PER PIPE OPENING	$\sqrt{196 + \left(\frac{W}{2} + 2\right)^2}$
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)
W₁₋₃ = WIDTH OF SIDE 1 & SIDE 3
W₂₋₄ = WIDTH OF SIDE 2 & SIDE 4
W = W₁₋₃ OR W₂₋₄ (SIDE OF ENTERING PIPE)
** = ROUND TO NEAREST WHOLE NUMBER

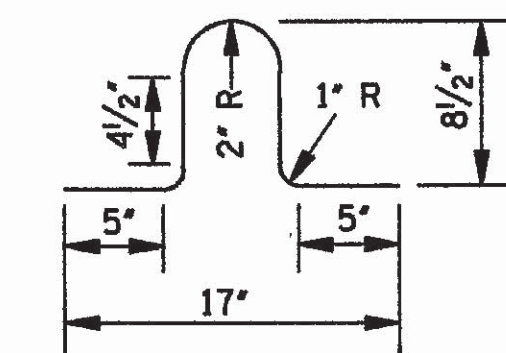
CL. "B" CONC. (yd³) = [(Q1 + Q2) / 46,656] - Σ PIPE OPENING DEDUCTIONS
WHERE: Q1 = [5'W₁₋₃W₂₋₄] + [1'(W₁₋₃ - 12.5')(W₂₋₄ - 12.5')] + [(T₁ + 6')W₁₋₃W₂₋₄]
Q2 = 12'[H - (T₁ + 6')][W₁₋₃ - 12'] + W₂₋₄

COMMON PIPE SIZE

CIRCULAR PIPE			ARCH PIPE		
PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)	PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)
18"	2 1/2"	0.053	22" x 13"	2 1/2"	0.053
24"	3"	0.091	29" x 18"	3"	0.087
30"	3 1/2"	0.138	36" x 23"	3 1/2"	0.129
36"	4"	0.196	44" x 27"	4"	0.185
42"	4 1/2"	0.263	51" x 31"	4 1/2"	0.245
48"	5"	0.340	58" x 36"	5"	0.318
54"	5 1/2"	0.427	65" x 40"	5 1/2"	0.394
60"	6"	0.524	73" x 45"	6"	0.489
66"	6 1/2"	0.630			
72"	7"	0.747			

GENERAL NOTES:

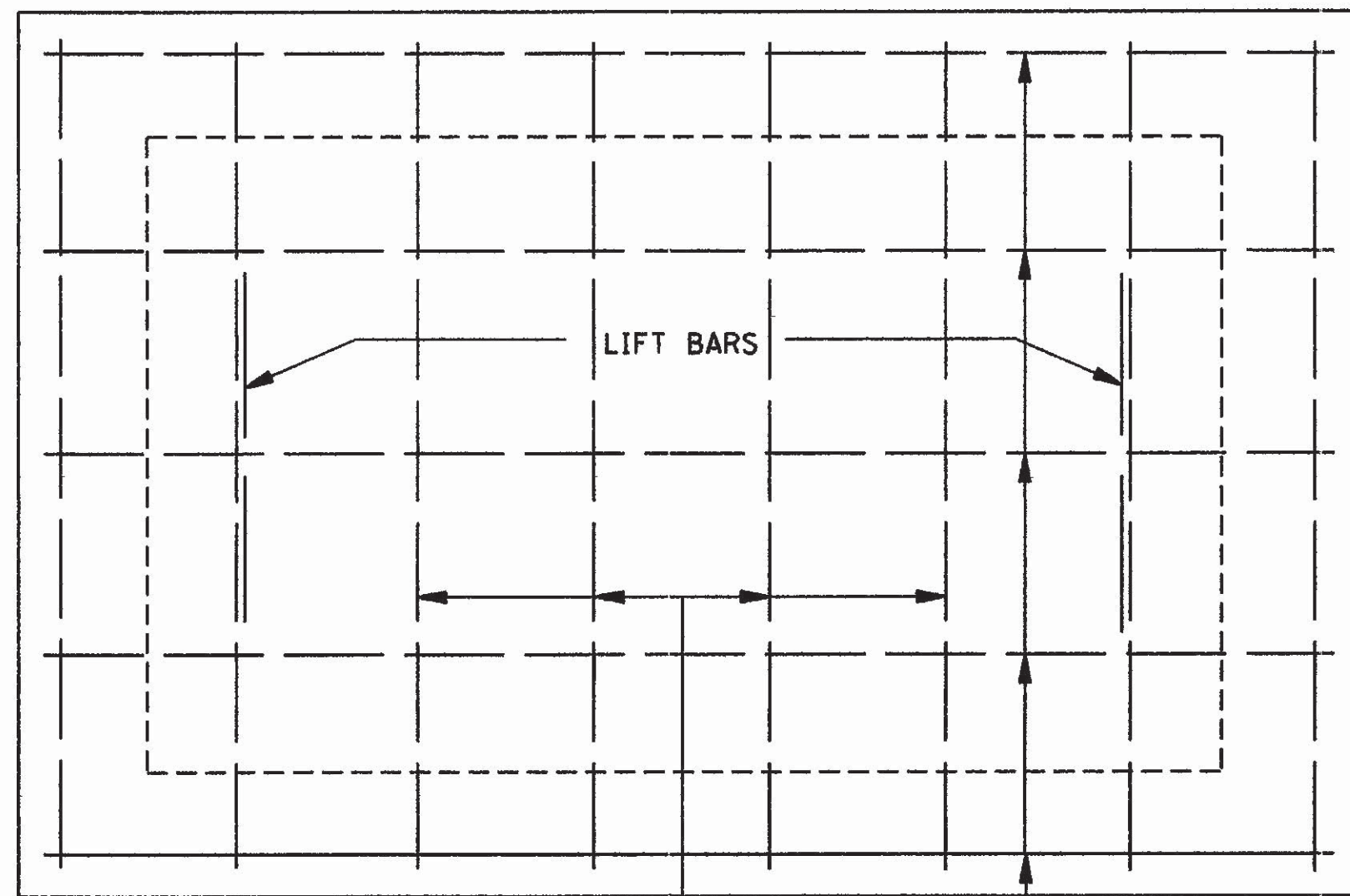
1. REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
2. QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
3. CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS.
4. SIDE 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.



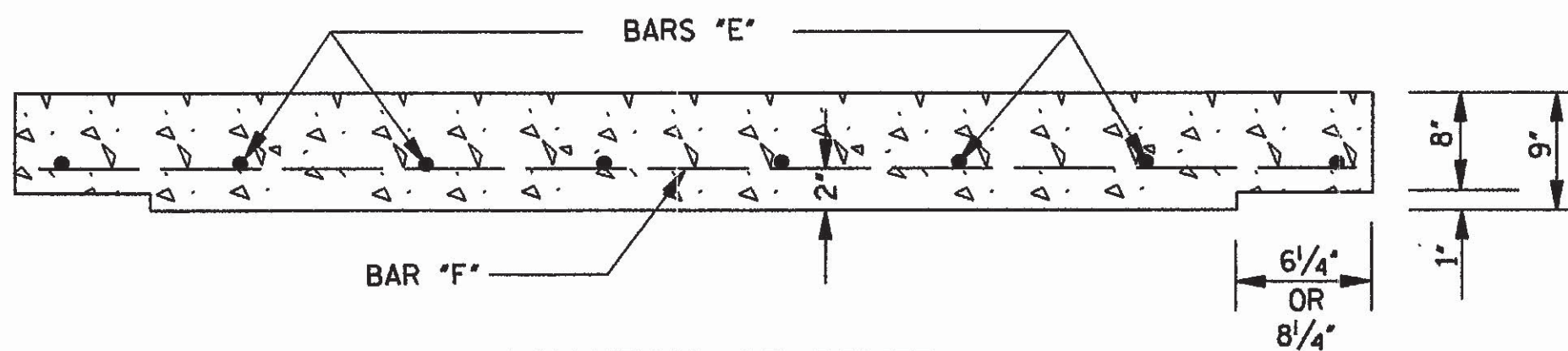
LIFT BAR

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.

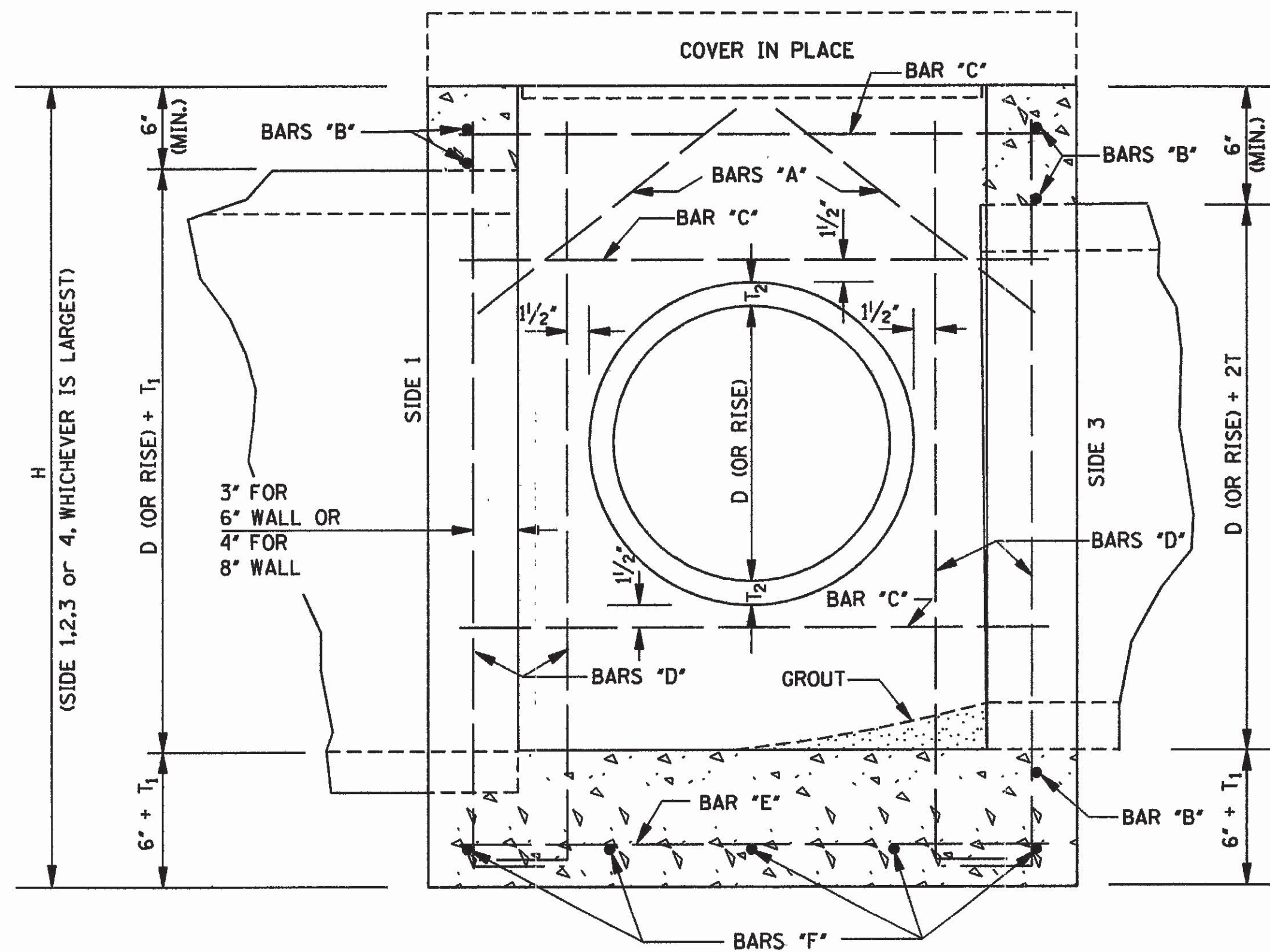
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISION		ROADWAY DESIGN DIVISION	
DATE		STANDARD PLAN	
		JUNCTION BOX FOR PIPE CULVERTS	
		WORKING NUMBER JB-1	
		SHEET NUMBER 302	
		ISSUE DATE: OCTOBER 1, 1998	



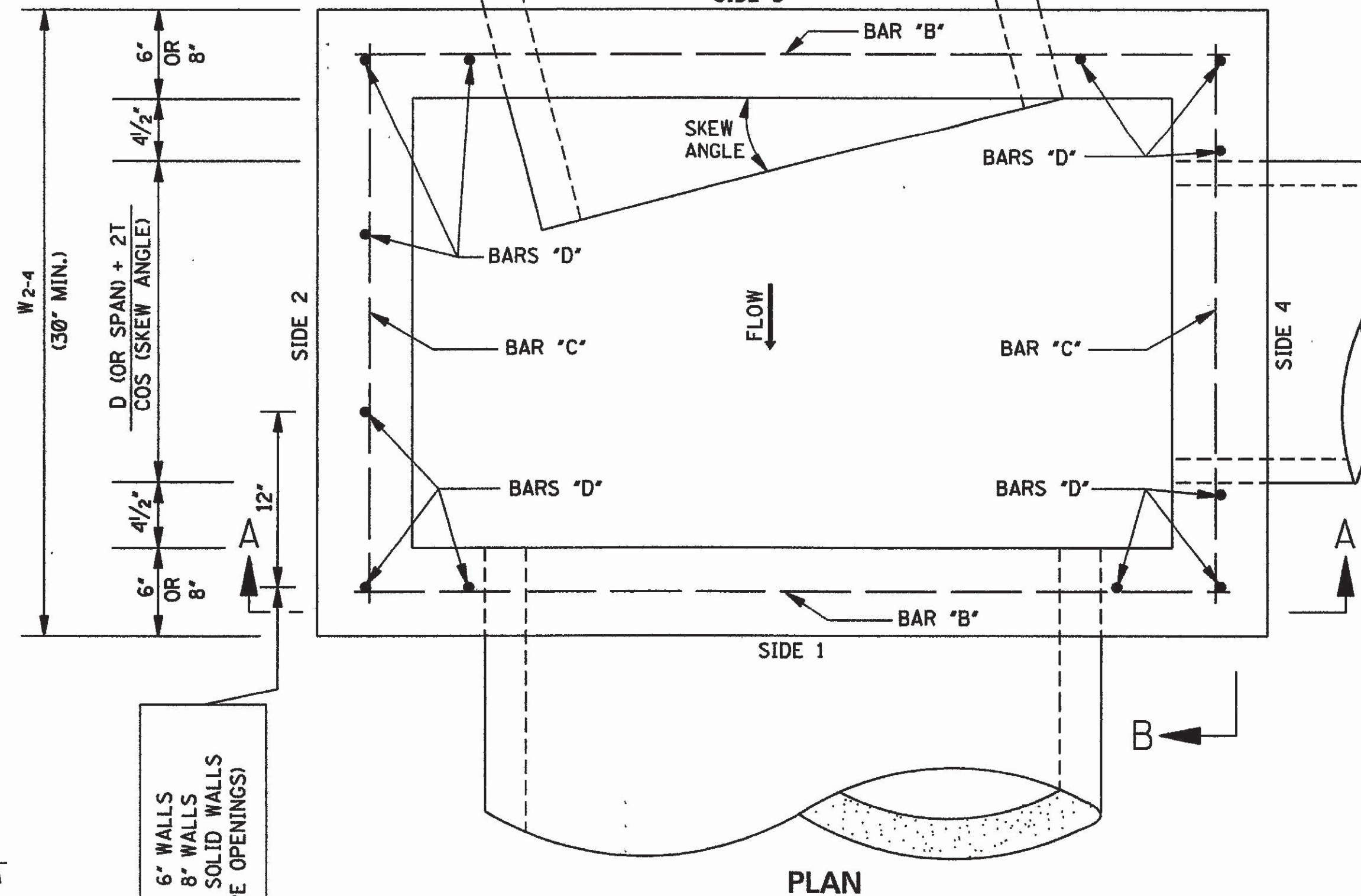
PLAN OF COVER



ELEVATION OF COVER

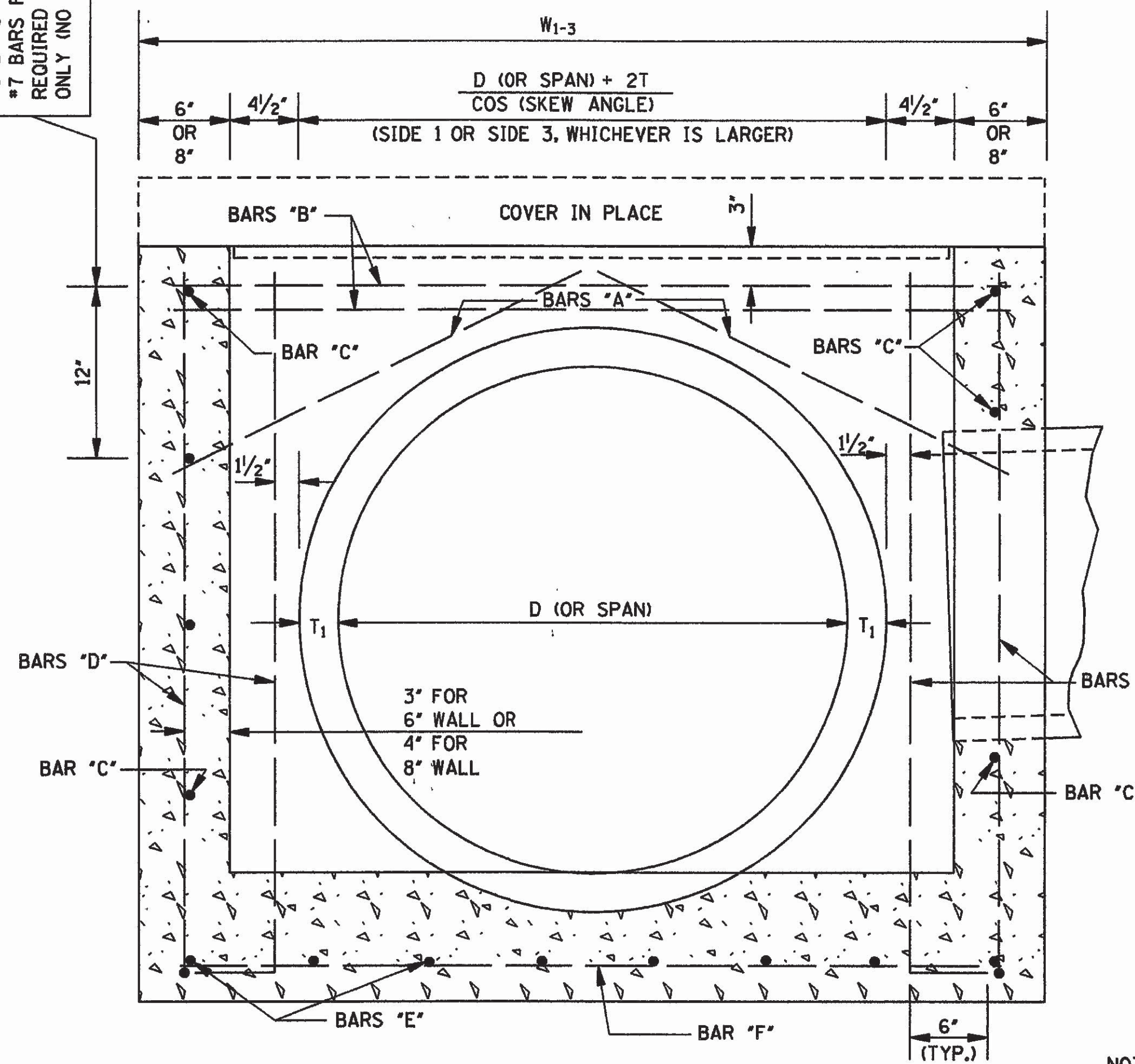


SECTION B-B



PLAN

*6 BARS FOR 6" WALLS
*7 BARS FOR 8" WALLS
REQUIRED ON SOLID WALLS
ONLY (NO PIPE OPENINGS)



SECTION A-A

REINFORCING BAR LIST

BAR	SIZE	NUMBER REQUIRED	LENGTH
A	#4	2 PER PIPE OPENING	$196 + \frac{W}{2} + 2$
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	#6	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)
W₁₋₃ = WIDTH OF SIDE 1 & SIDE 3
W₂₋₄ = WIDTH OF SIDE 2 & SIDE 4
W* = W₁₋₃ OR W₂₋₄ (SIDE OF ENTERING PIPE)
** = ROUND TO NEAREST WHOLE NUMBER

CL. "B" CONC. (yd³) = $(Q_1 + Q_2) / 46,656$ - $\sum$ 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 = $12"TH - (T_1 + 6")[(W_{1-3} - 12") + W_{2-4}]$
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 = $16"TH - (T_1 + 6")[(W_{1-3} - 16") + W_{2-4}]$

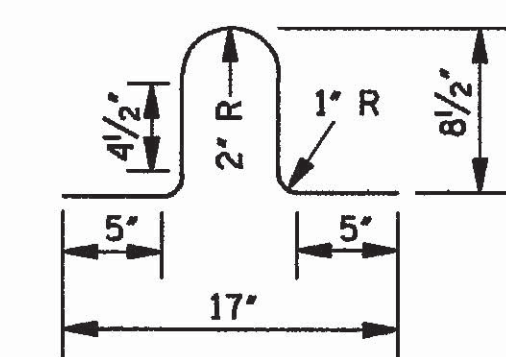
COMMON PIPE SIZE

CIRCULAR PIPE				ARCH PIPE			
PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)		PIPE SIZE	T	PIPE OPENING DEDUCTION (yd ³)	
		6" WALL	+8" WALL			6" WALL	+8" WALL
18"	2 1/2"	0.053	0.071	22" X 13"	2 1/2"	0.053	0.071
24"	3"	0.091	0.121	29" X 18"	3"	0.087	0.116
30"	3 1/2"	0.138	0.184	36" X 23"	3 1/2"	0.129	0.172
36"	4"	0.196	0.261	44" X 27"	4"	0.185	0.247
42"	4 1/2"	0.263	0.350	51" X 31"	4 1/2"	-	0.327
48"	5"	-	0.453	58" X 36"	5"	-	0.424
54"	5 1/2"	-	0.569	65" X 40"	5 1/2"	-	0.525
60"	6"	-	0.699	73" X 45"	6"	-	0.652
66"	6 1/2"	-	0.840				
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:

- REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
- QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
- CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS, ASTM A 615, GRADE 60 OR AASHTO M 31, GRADE 60.
- SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
- 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")		
BY	REVISION	WORKING NUMBER JB-2
DATE	ISSUE DATE: OCTOBER 1, 1998	SHEET NUMBER 304

BELL AND SPIGOT END OPTION TYPE I

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

FLARED END SECTION FOR CONCRETE ARCH PIPE									
EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L
18"	13 1/2"	22"	2 1/2"	3:1	7"	2'-3"	3'-9"	3'-0"	6'-0"
24"	18"	28 1/2"	3"	3:1	8"	3'-3"	2'-9"	4'-0"	6'-0"
30"	22 1/2"	36 1/4"	3 1/2"	3:1	10"	4'-0"	2'-0"	5'-0"	6'-0"
36"	26 3/8"	43 3/4"	4"	3:1	10 3/8"	5'-0"	3'-0"	6'-0"	8'-0"
42"	31 1/8"	51 1/8"	4 1/2"	3:1	1'-3 3/8"	5'-0"	3'-0"	6'-6"	8'-0"
48"	36"	58 1/2"	5"	3:1	1'-9"	5'-0"	3'-0"	7'-0"	8'-0"
54"	40"	65"	5 1/2"	3:1	2'-1 1/2"	5'-0"	3'-0"	7'-6"	8'-0"
60"	45"	73"	6"	3:1	2'-2"	6'-3"	1'-9"	8'-0"	8'-0"
72"	54"	88"	7"	3:1	2'-11"	6'-6"	1'-10"	10'-0"	8'-4"

TOE WALL CONC. QUANTITY (yd ³)
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.207

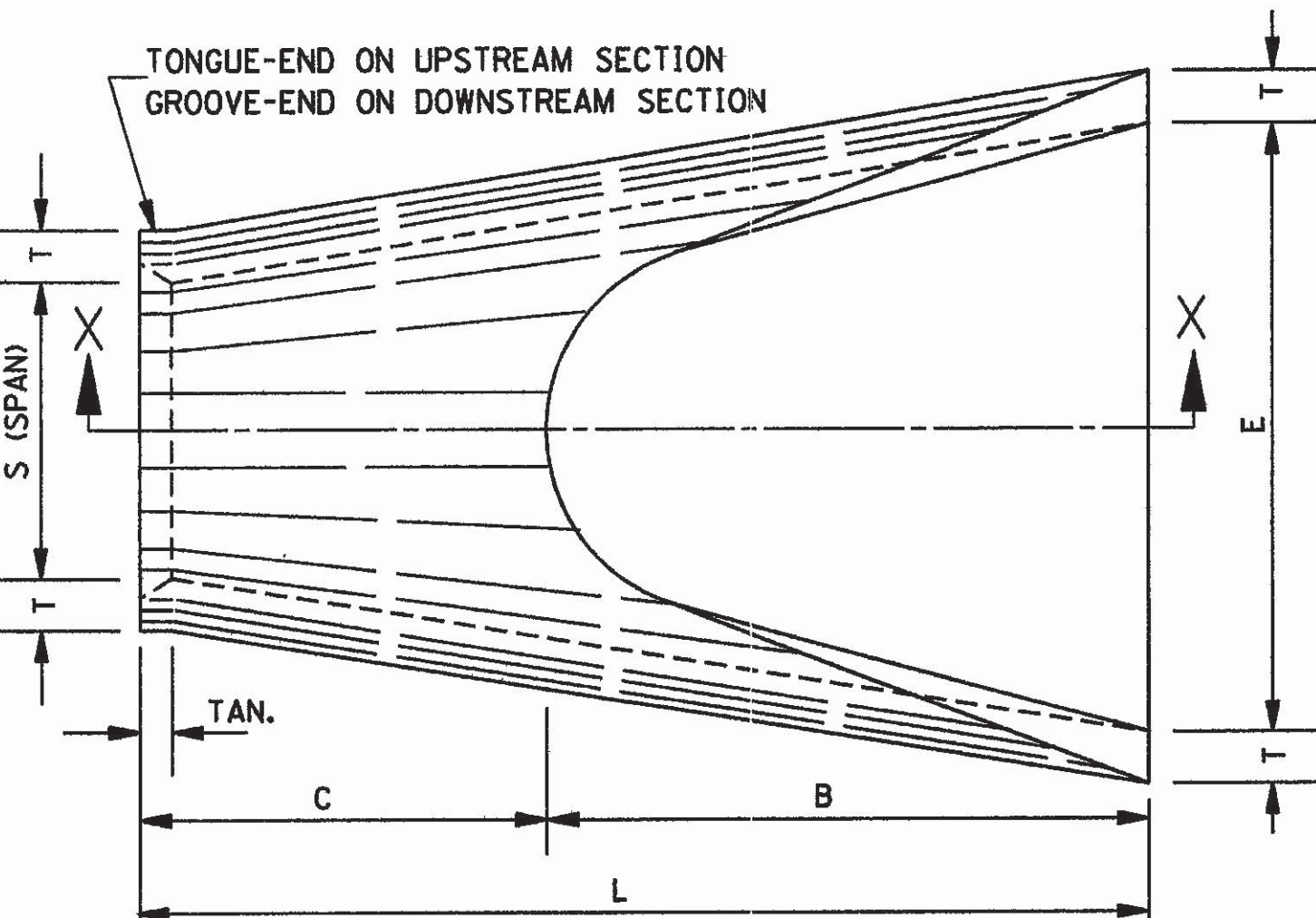
BELL AND SPIGOT END OPTION TYPE II

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

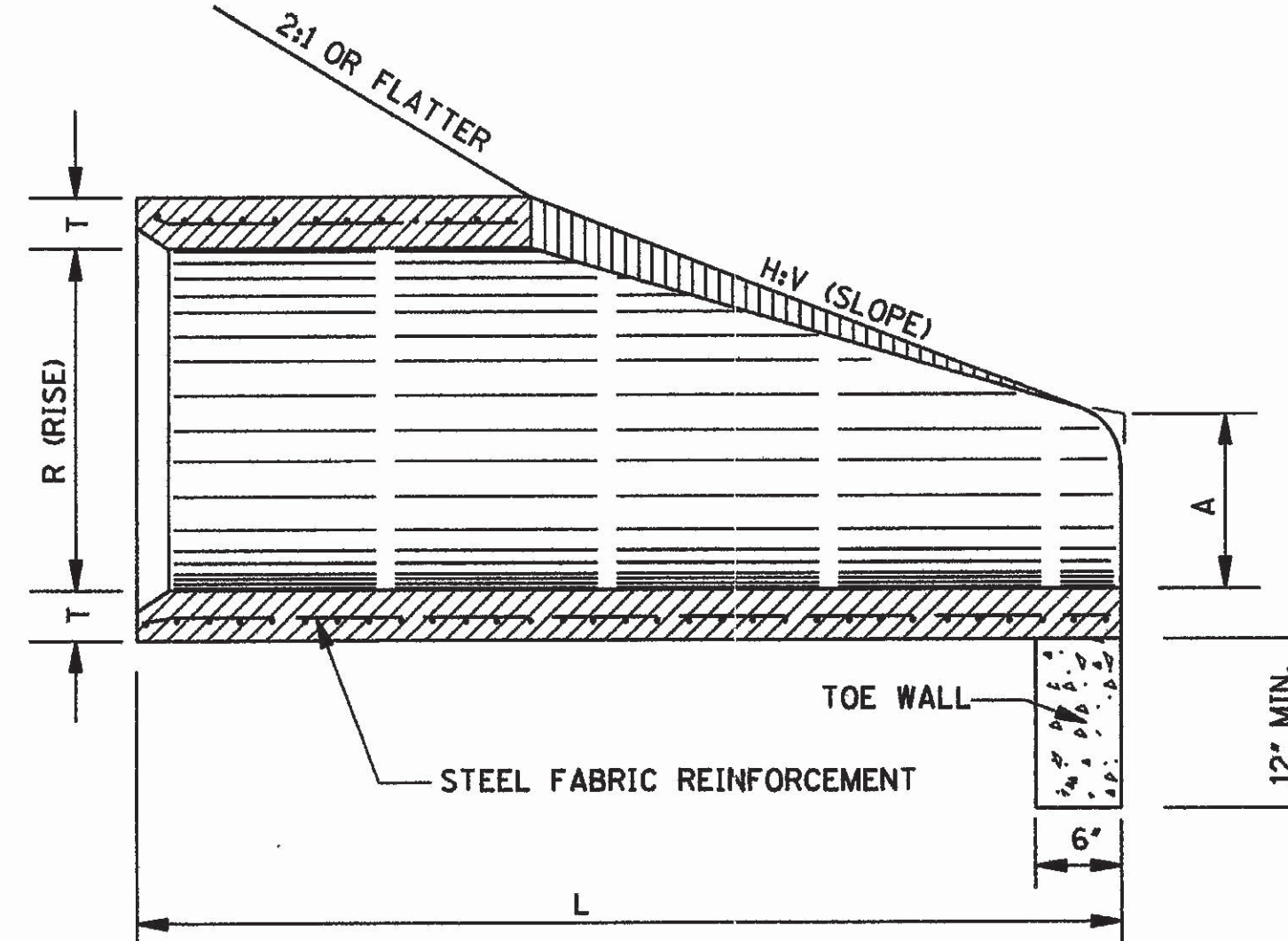
FLARED END SECTION FOR CONC. ARCH PIPE-SHORT FLARE										
EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L	GROOVE TONGUE
* 18"	13 1/2"	22"	2 1/2"	3:1	7"	2'-3"	3'-9"	3'-0"	6'-0"	2 1/4"
24"	18"	28 1/2"	3 1/2"	3.12:1	9"	3'-3"	2'-9 1/2"	4'-0"	6'-0 1/2"	3"
30"	22 1/2"	36 1/4"	4"	2.94:1	9 1/2"	4'-2"	3'-10 1/2"	5'-0"	8'-0 1/2"	3 1/2"
36"	26 3/8"	43 3/4"	4 1/2"	3.08:1	11 5/8"	5'-0"	3'-0 1/2"	6'-0"	8'-0 1/2"	4"
42"	31 1/8"	51 1/8"	4 1/2"	3.08:1	1'-4 3/8"	5'-0"	3'-0 1/2"	6'-6"	8'-0 1/2"	4"
48"	36"	58 1/2"	5"	3.16:1	1'-10"	5'-0"	3'-0 1/2"	7'-0"	8'-0 1/2"	5"
54"	40"	65"	5 1/2"	3.24:1	2'-3"	5'-0"	3'-0 5/8"	7'-6"	8'-0 5/8"	5"
60"	45"	73"	6"	3.33:1	2'-9"	5'-0"	3'-0 5/8"	8'-0"	8'-0 5/8"	5"

TOE WALL CONC. QUANTITY (yd ³)
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167

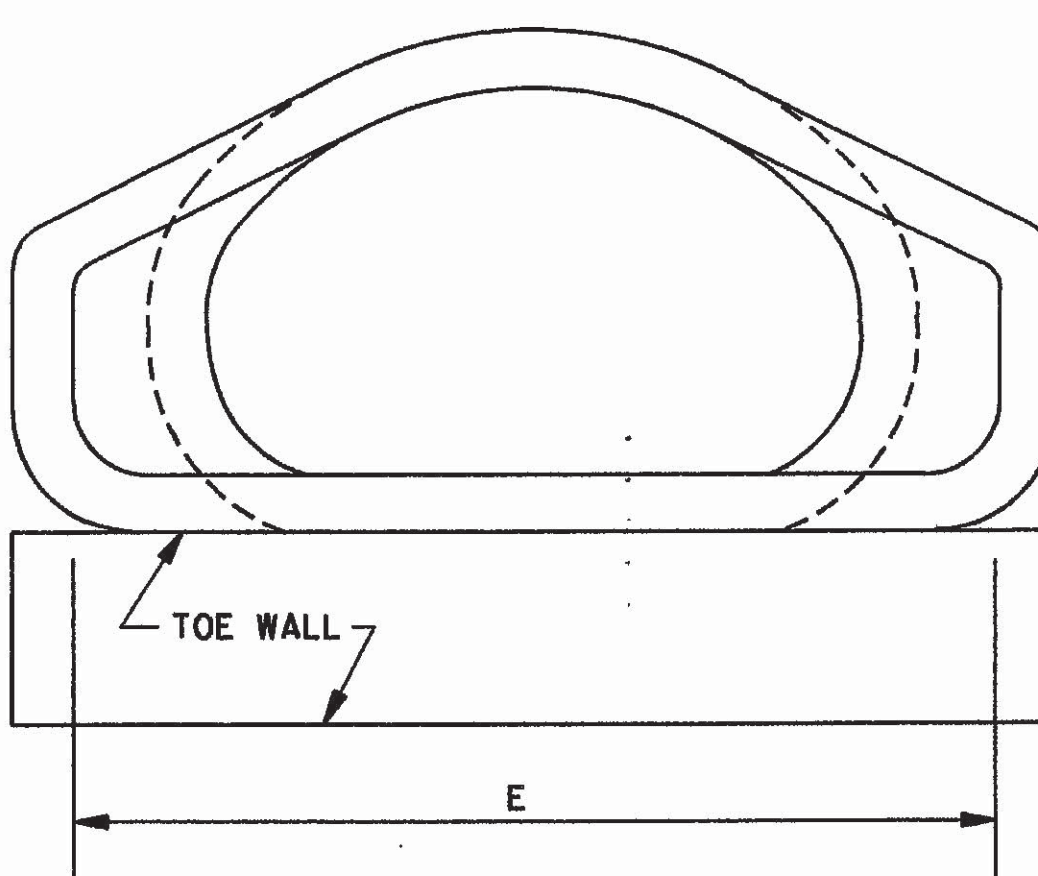
NOTES: *1. EQUIVALENT 18" FLARED END SECTION SIMILAR TO TYPE I.
2. DIMENSIONS A, B, C, E AND L MAY VARY 1"±.



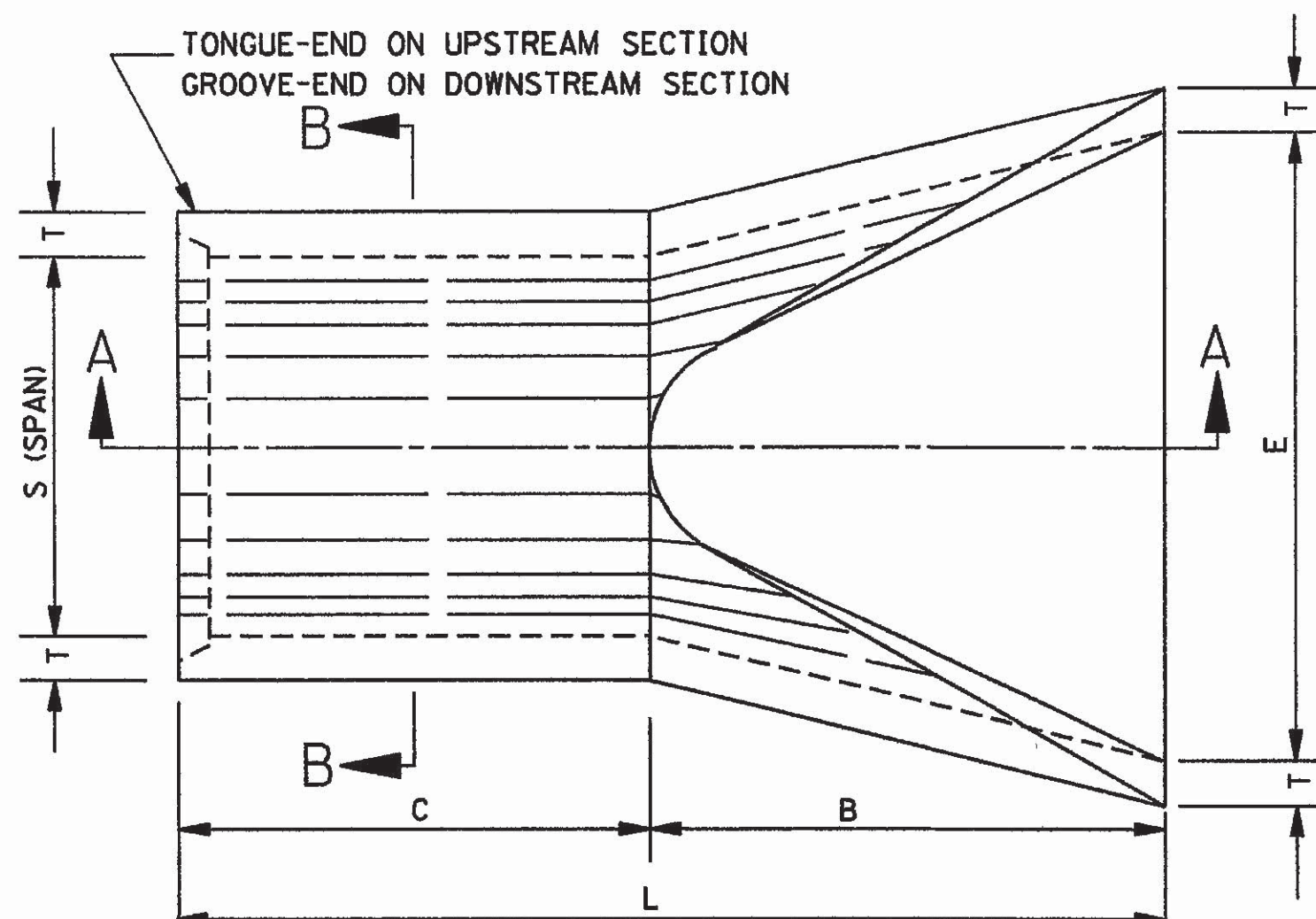
PLAN OF DOWNSTREAM END



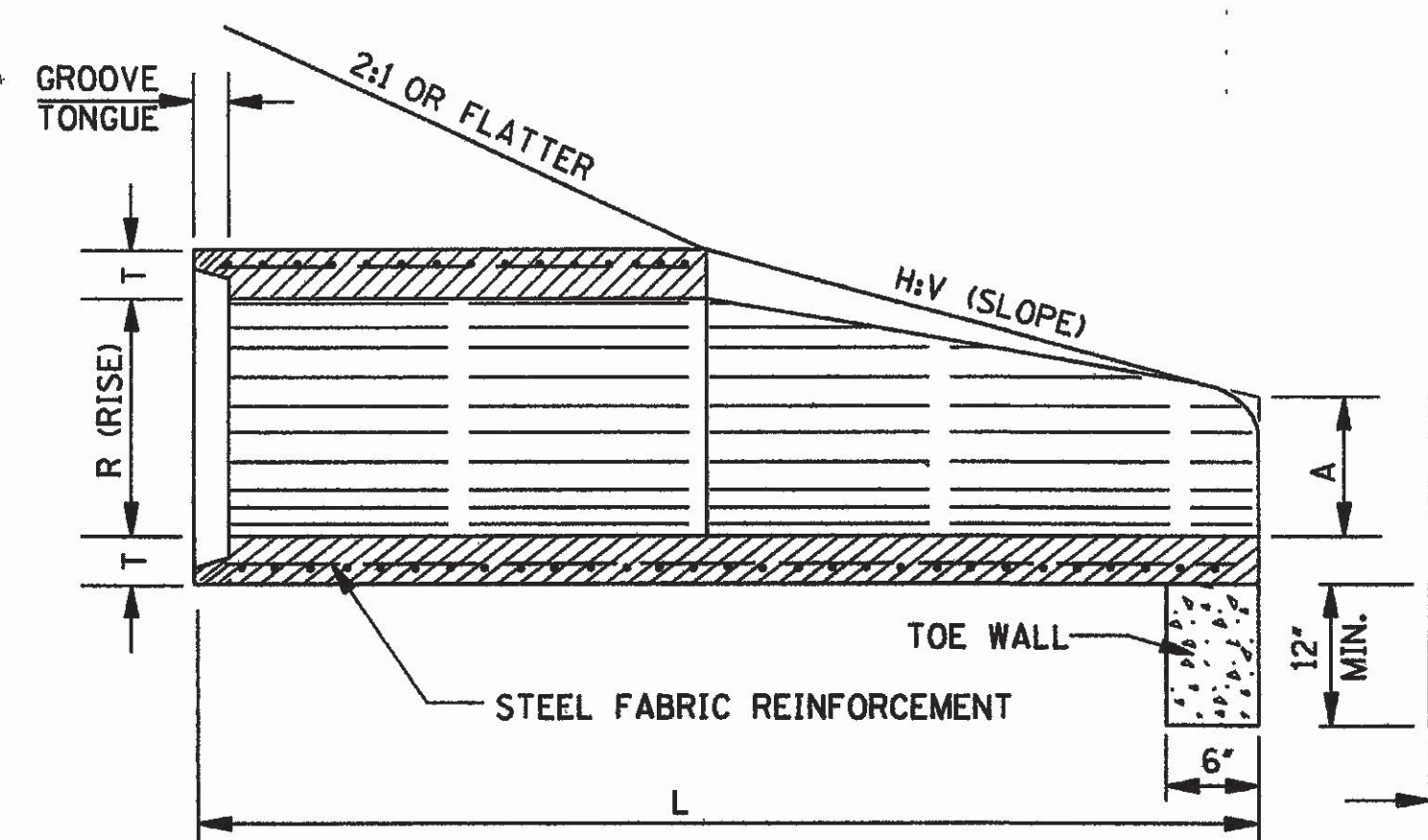
SECTION X-X



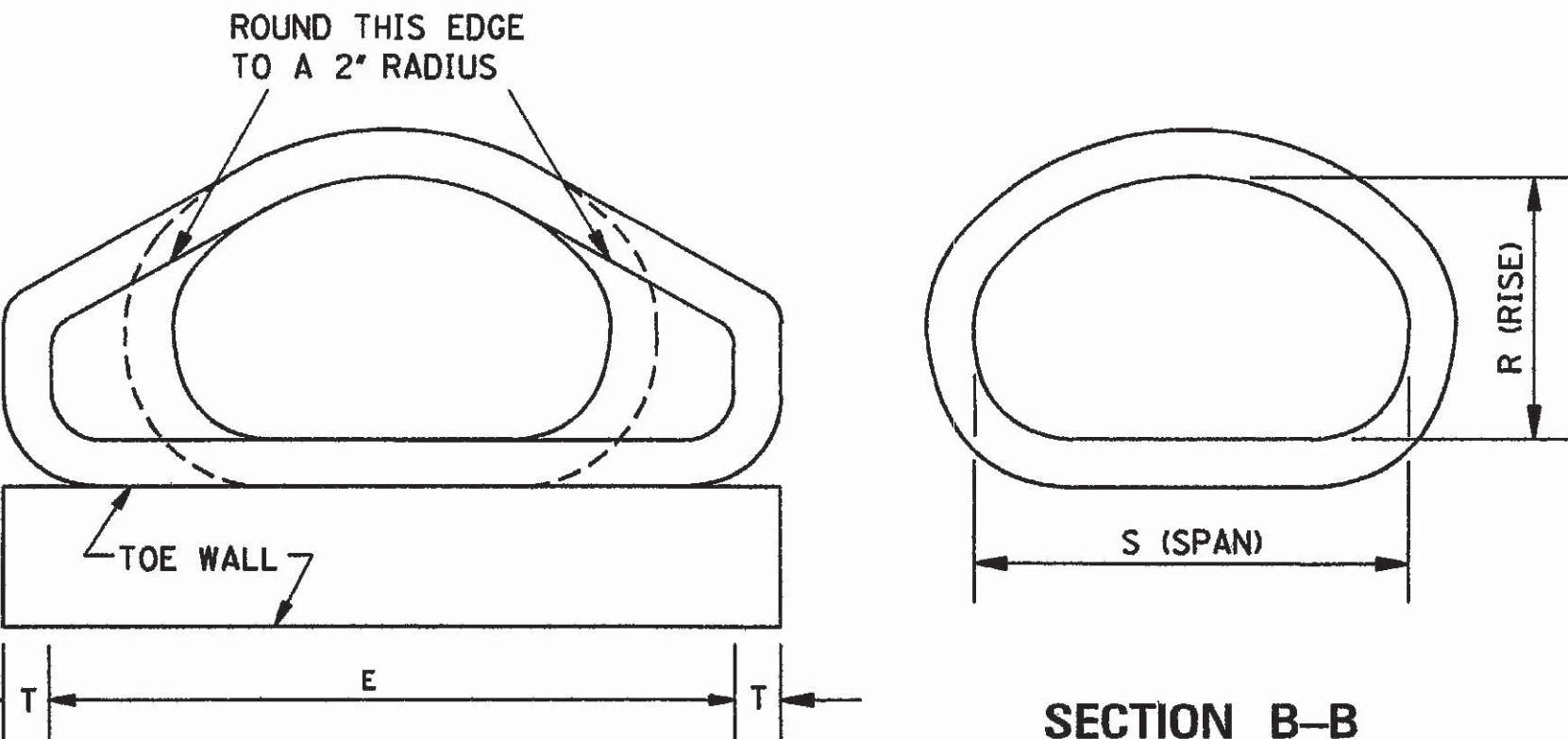
FRONT ELEVATION



PLAN OF DOWNSTREAM END



SECTION A-A



SECTION B-B

GENERAL NOTES:

1. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.
2. UNLESS OTHERWISE DESIGNATED, EITHER TYPE I OR TYPE II MAY BE USED, PROVIDED THE SELECTED TYPE IS COMPATIBLE WITH THE CONFIGURATION OF THE PIPE TO WHICH IT IS TO BE ATTACHED.
3. ALL SIZES OF TYPE I AND TYPE II FLARED END SECTIONS FOR CONCRETE ARCH PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

4. REINFORCEMENT (SINGLE LINE) FOR FLARED END SECTION SHALL CONFORM TO REQUIREMENTS OF AASHTO M 206 FOR CLASS II ARCH PIPE.
5. 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.
6. FLARED END SECTIONS MUST MEET THE REQUIREMENTS FOR ARCH PIPE OF EITHER AASHTO M 206 OR ASTM C 506.

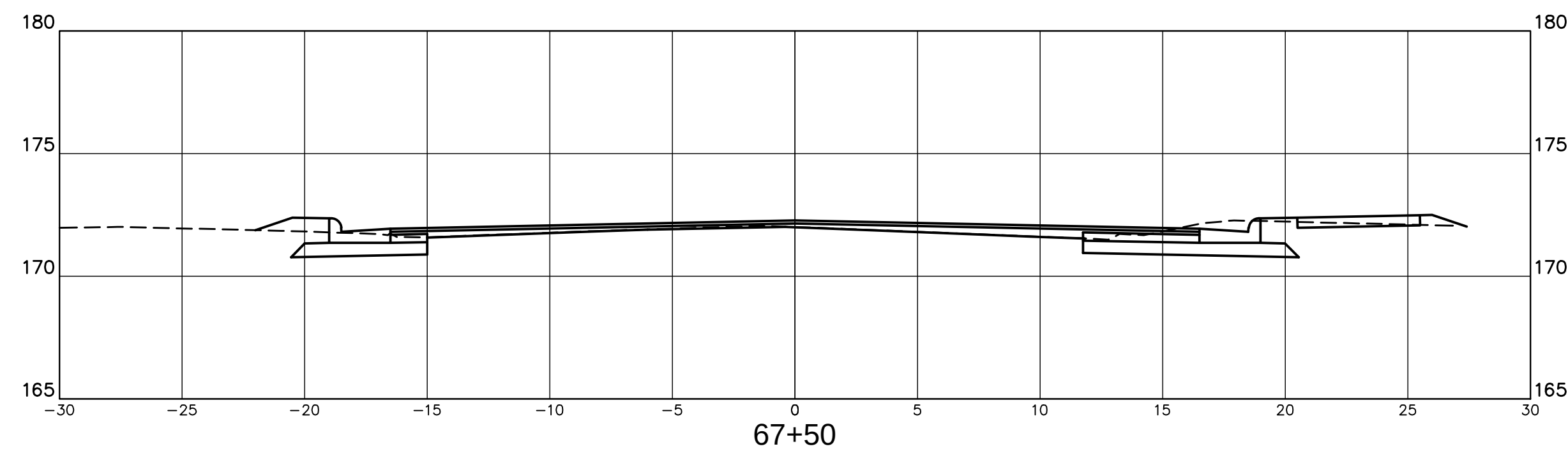
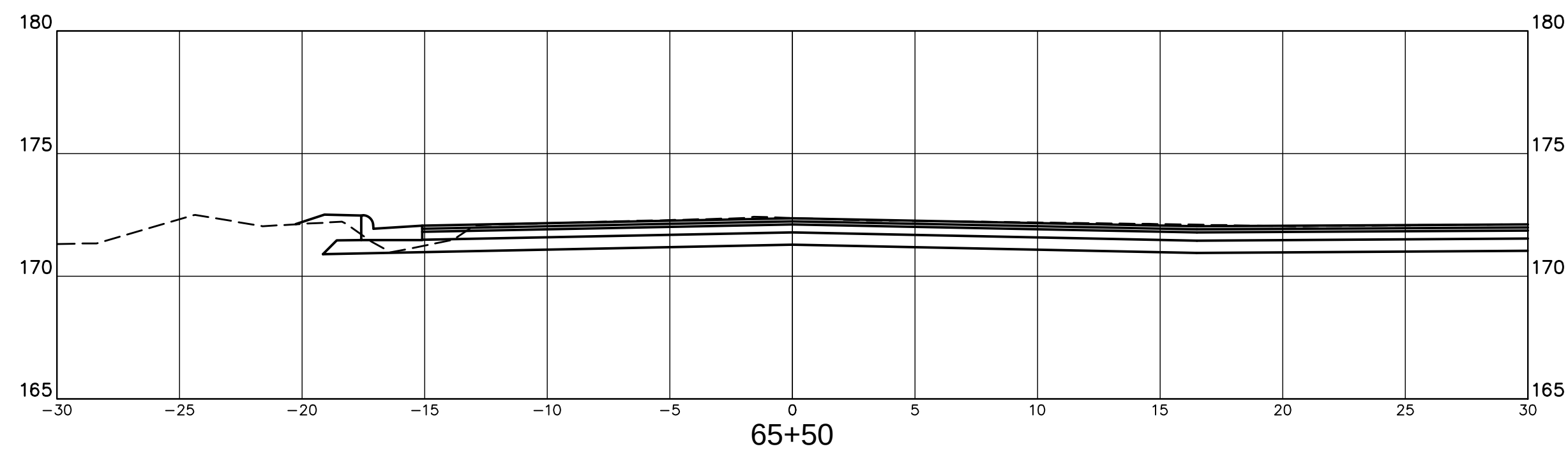
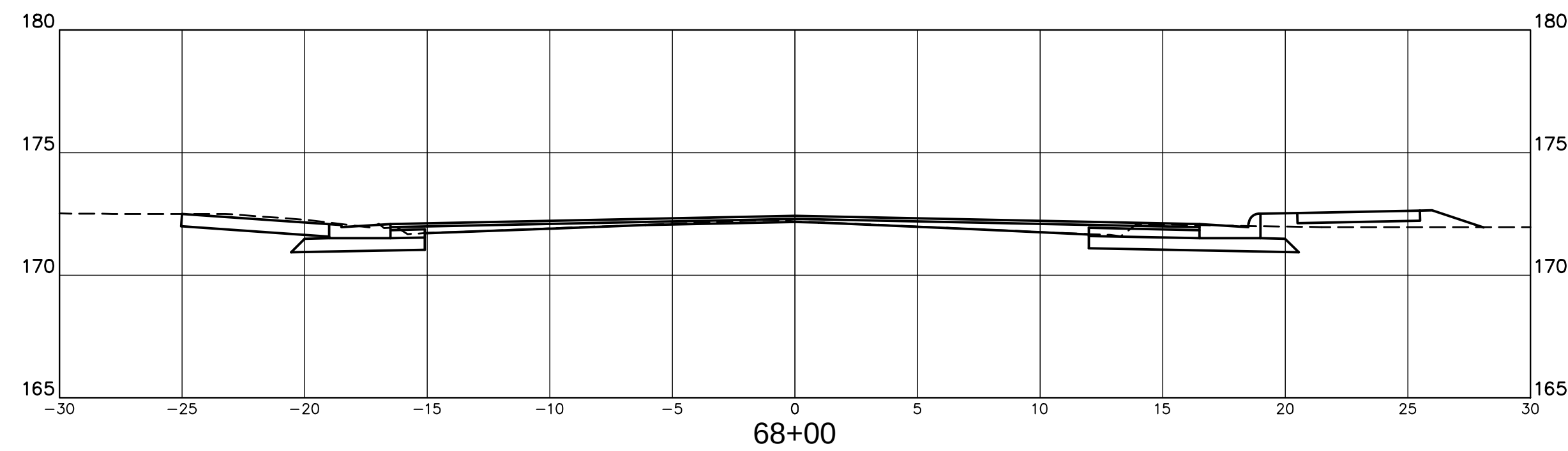
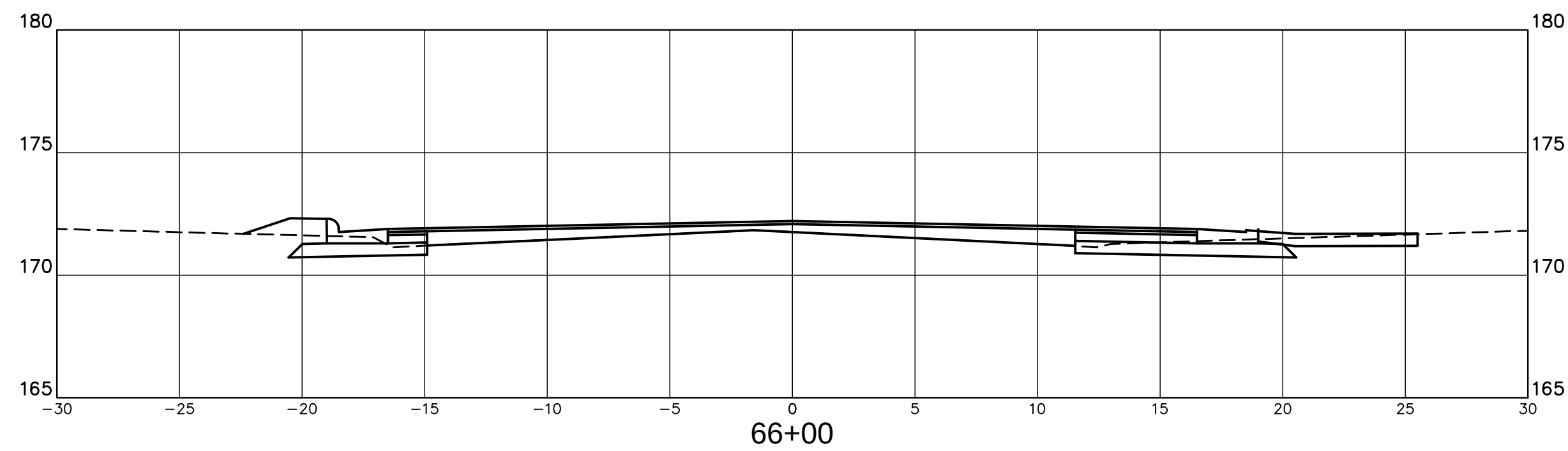
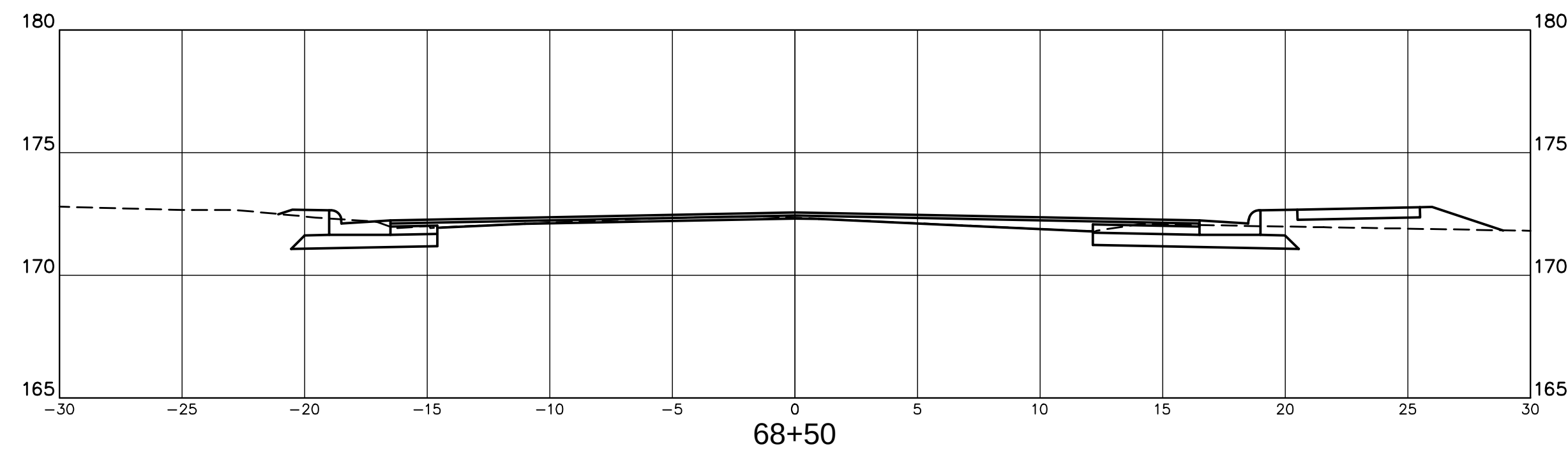
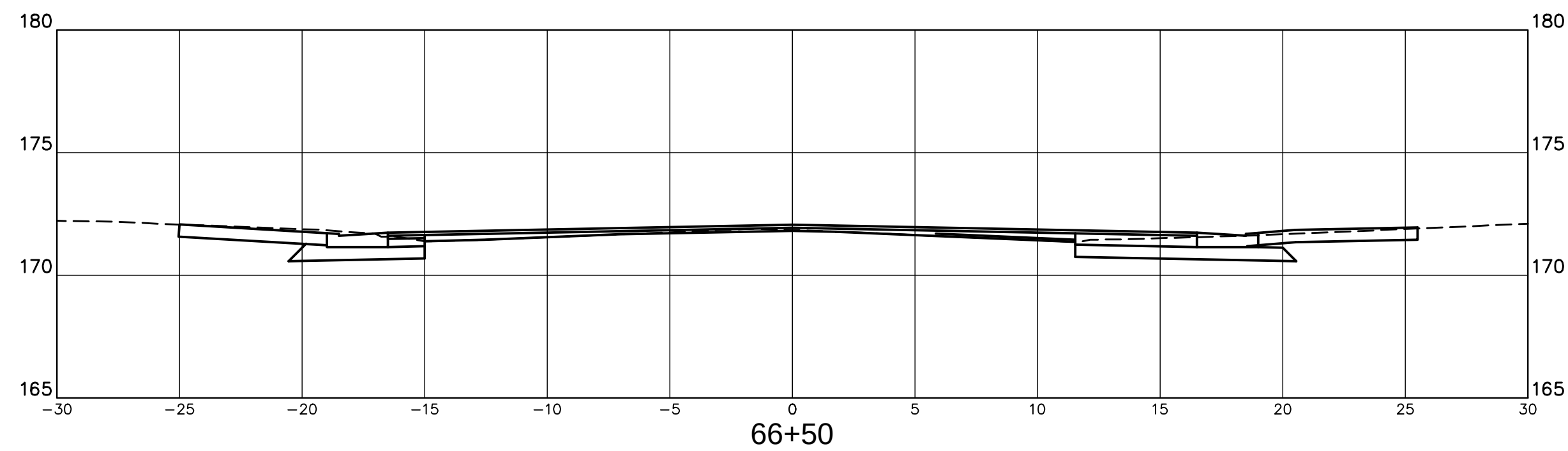
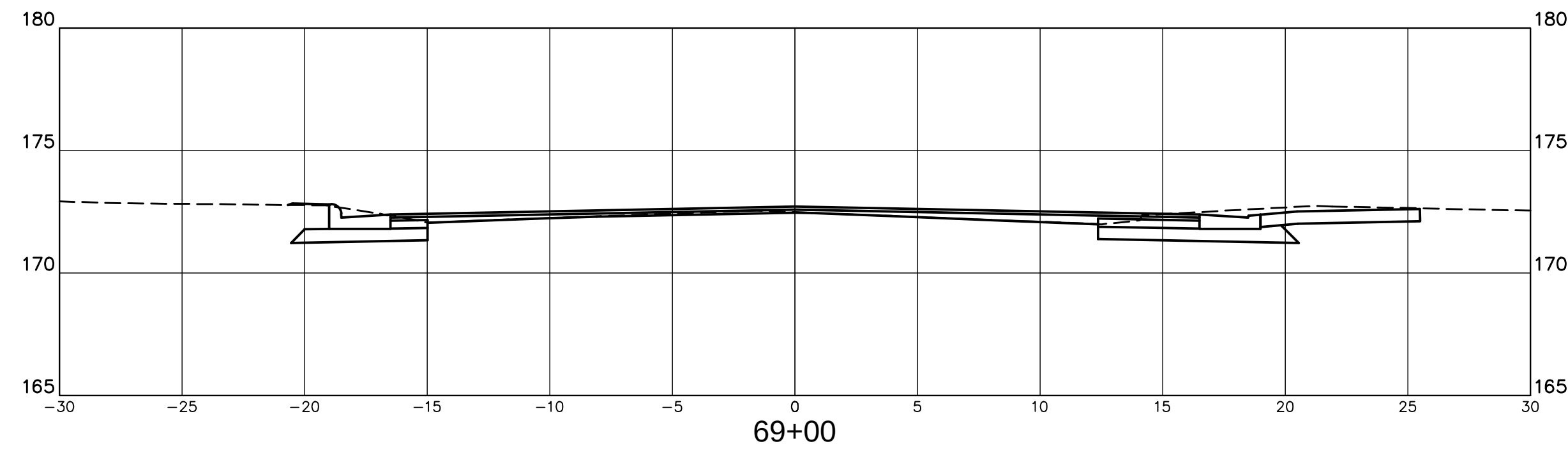
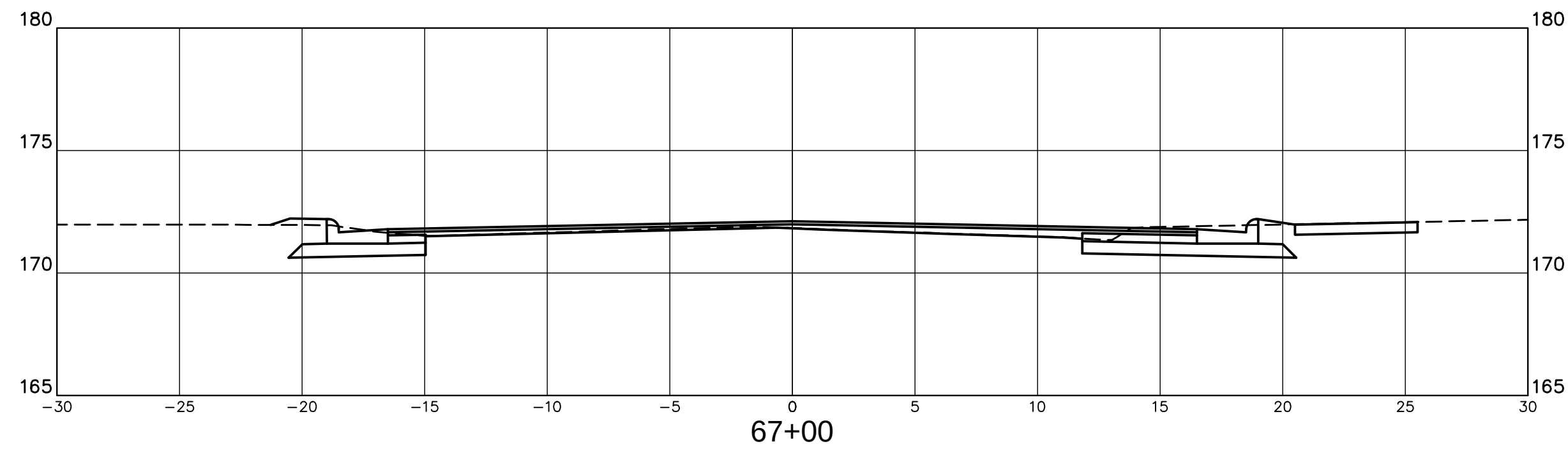
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**FLARED END SECTION
FOR CONCRETE ARCH PIPE**

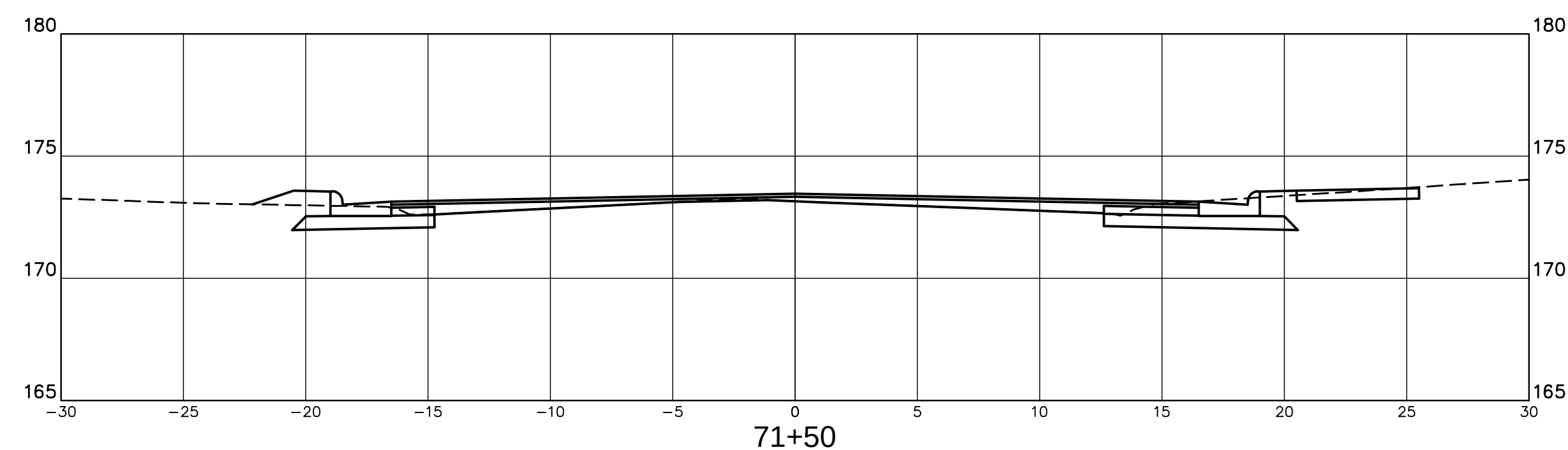
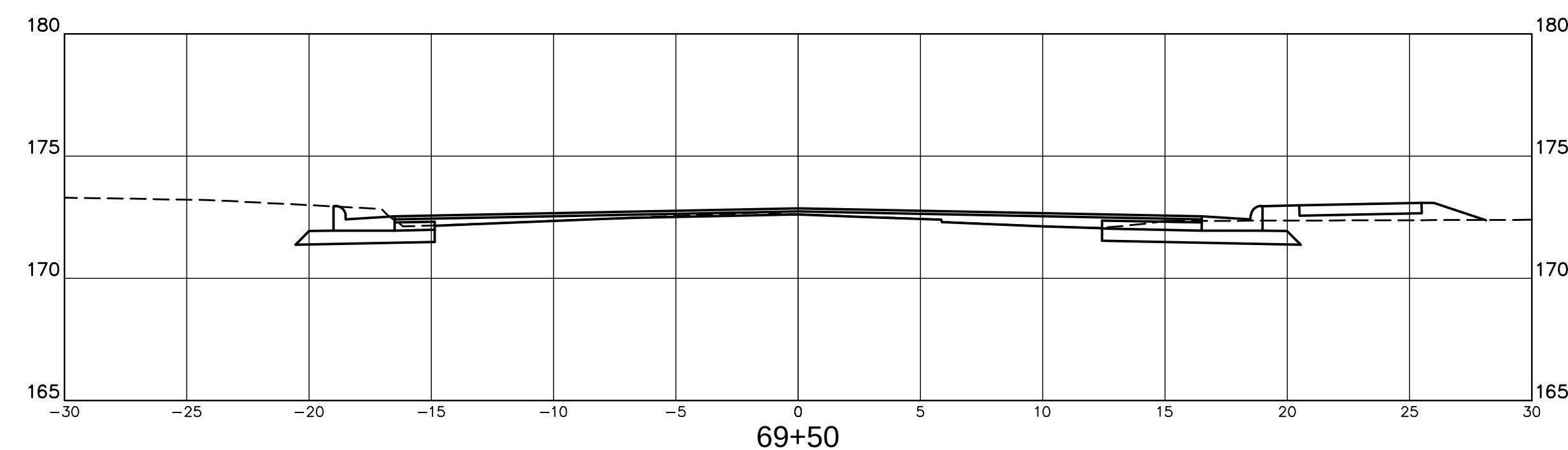
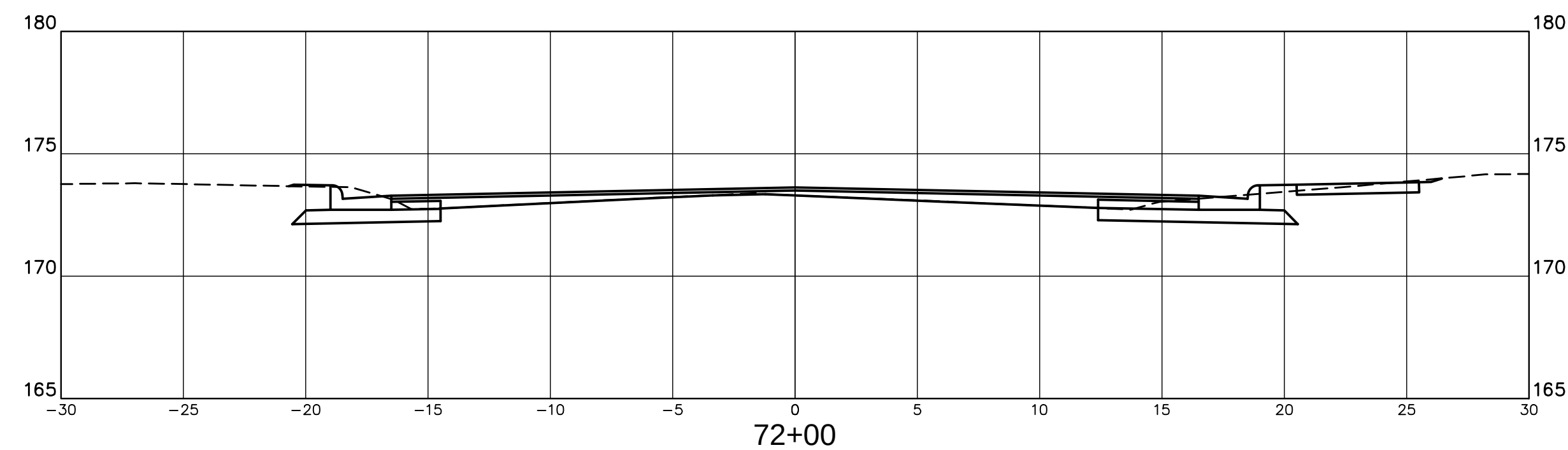
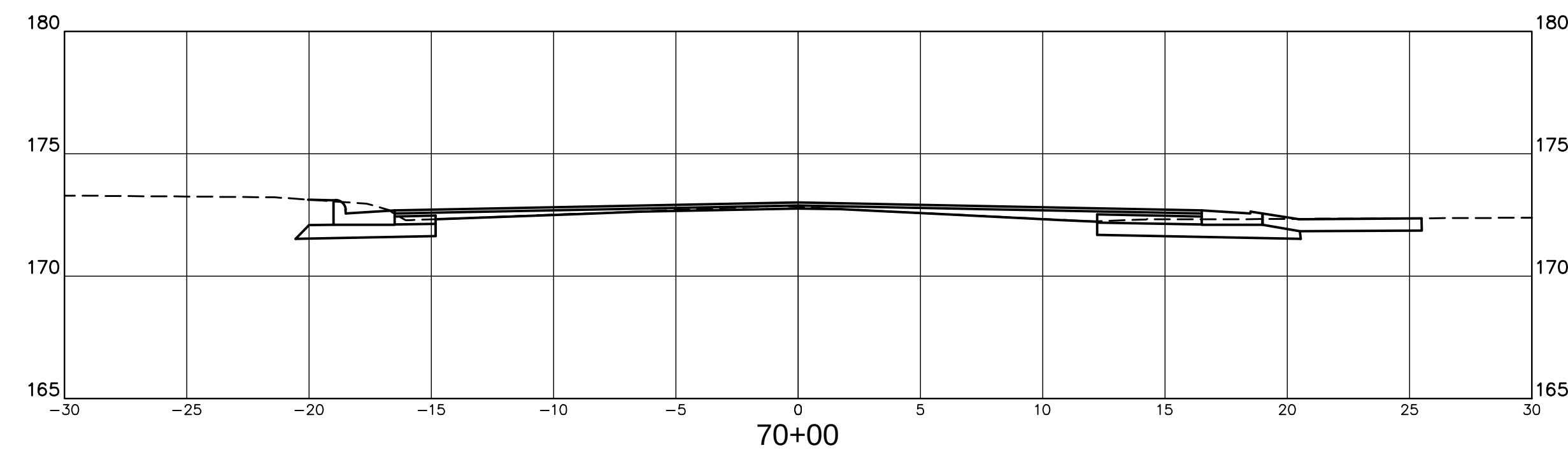
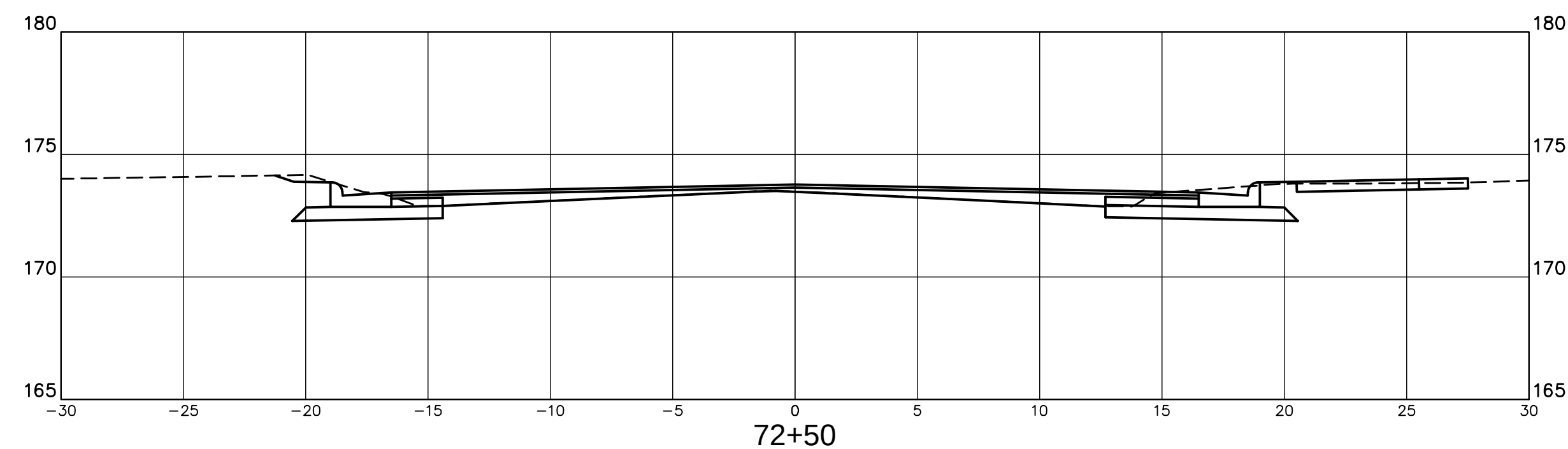
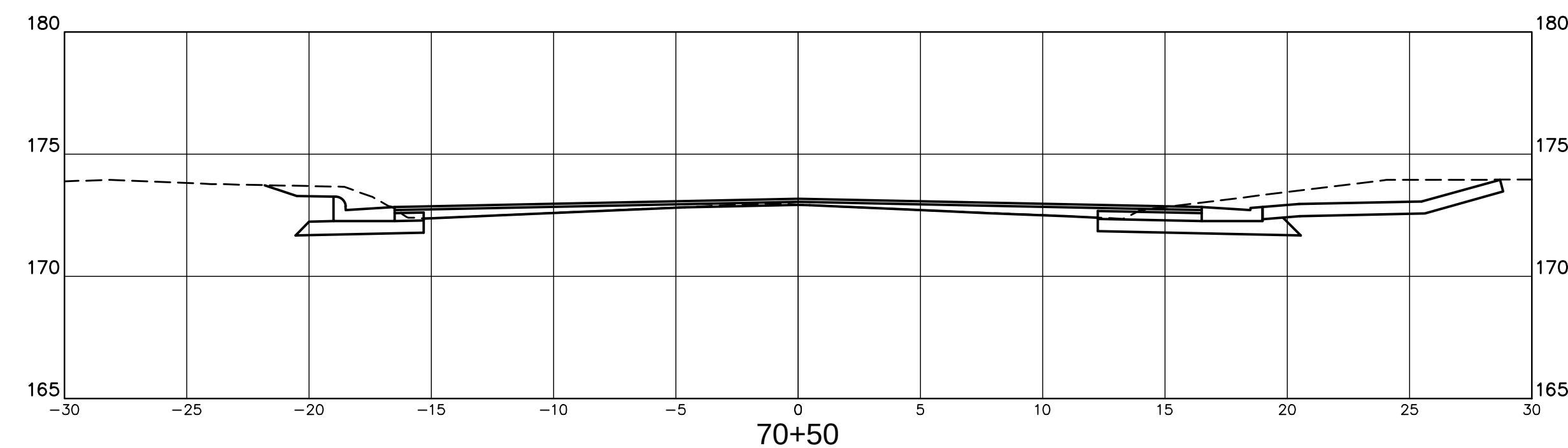
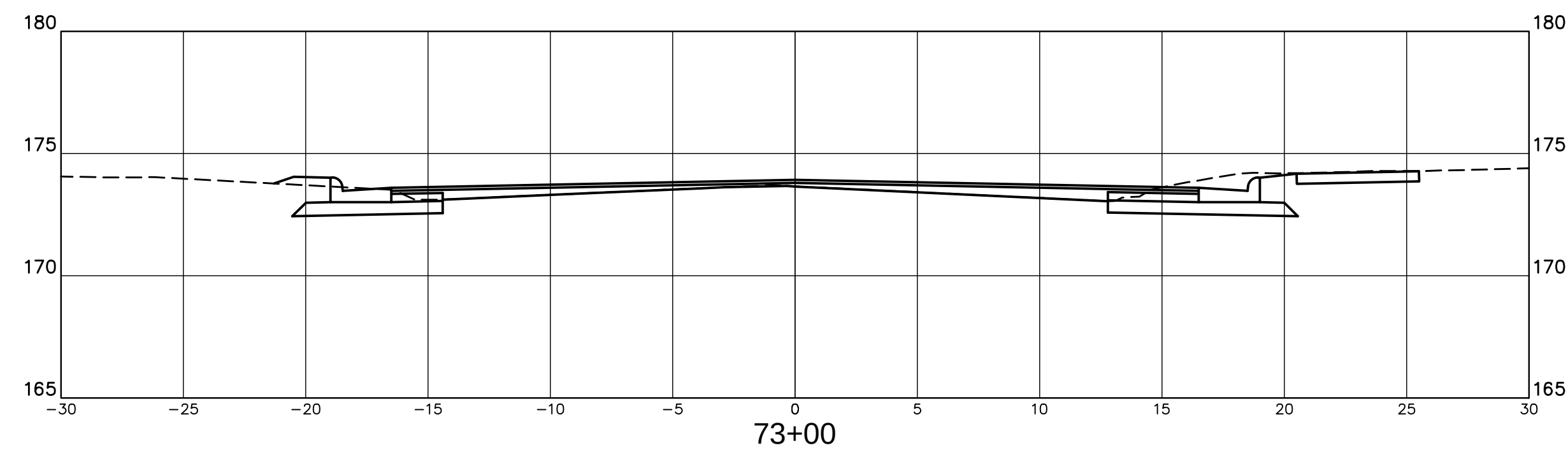
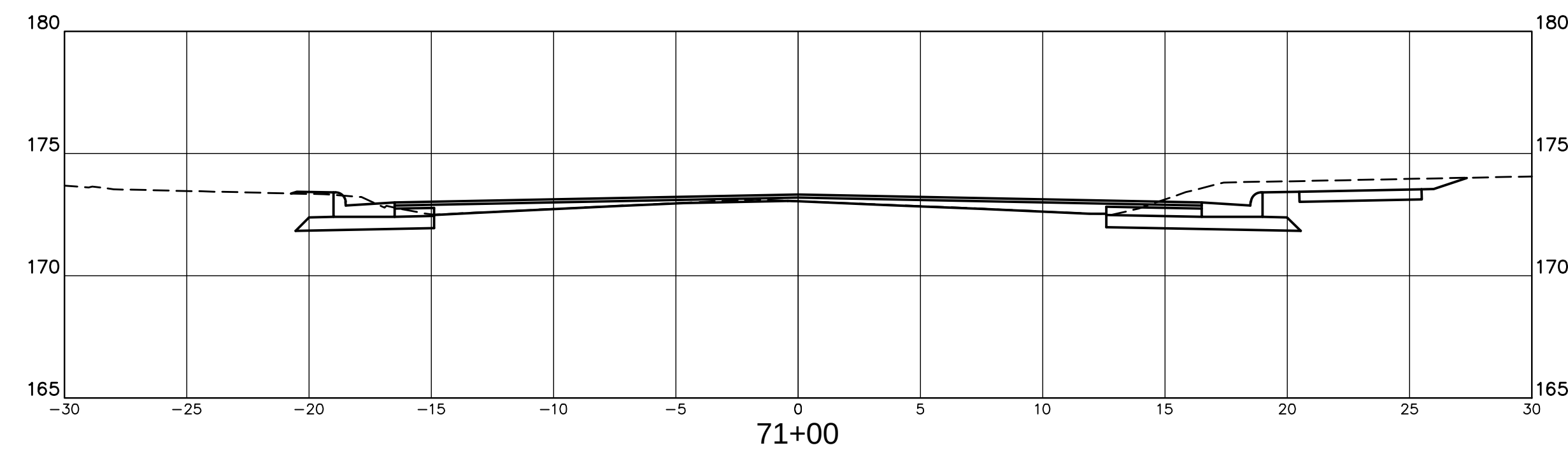
MISSISSIPPI
WORKING NUMBER
FE-1A
SHEET NUMBER
329

BY
REVISION
DATE

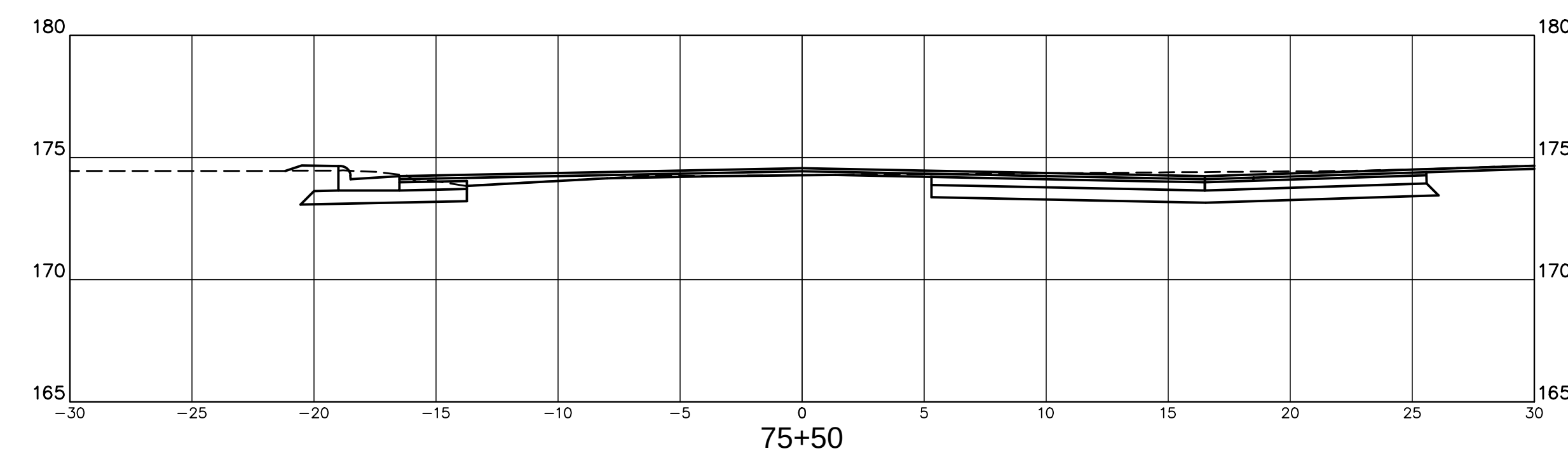
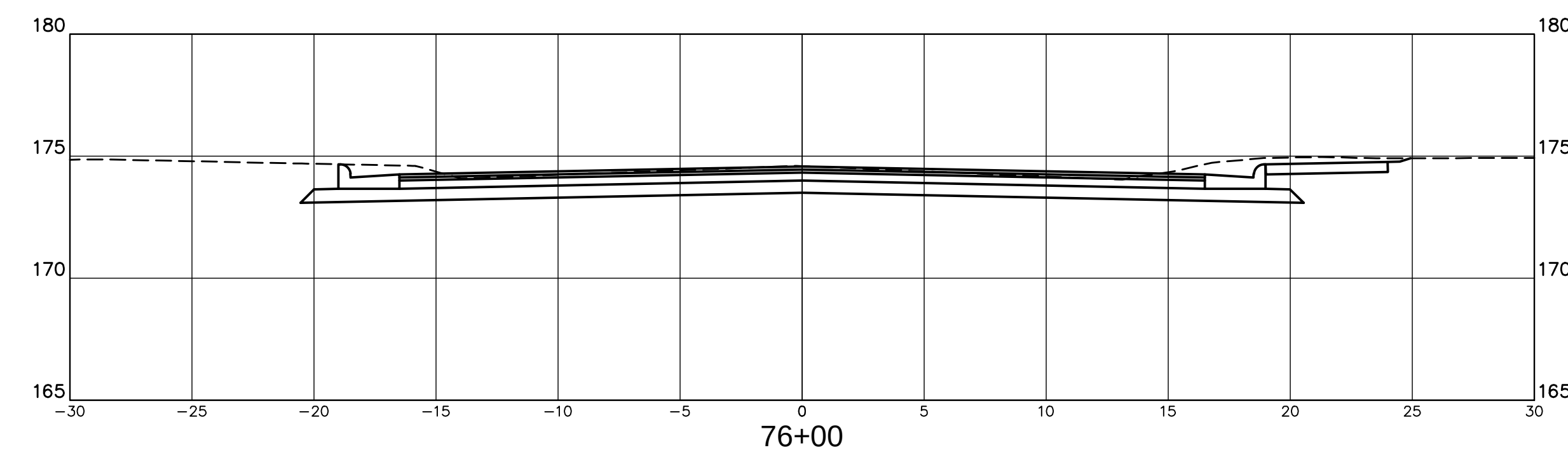
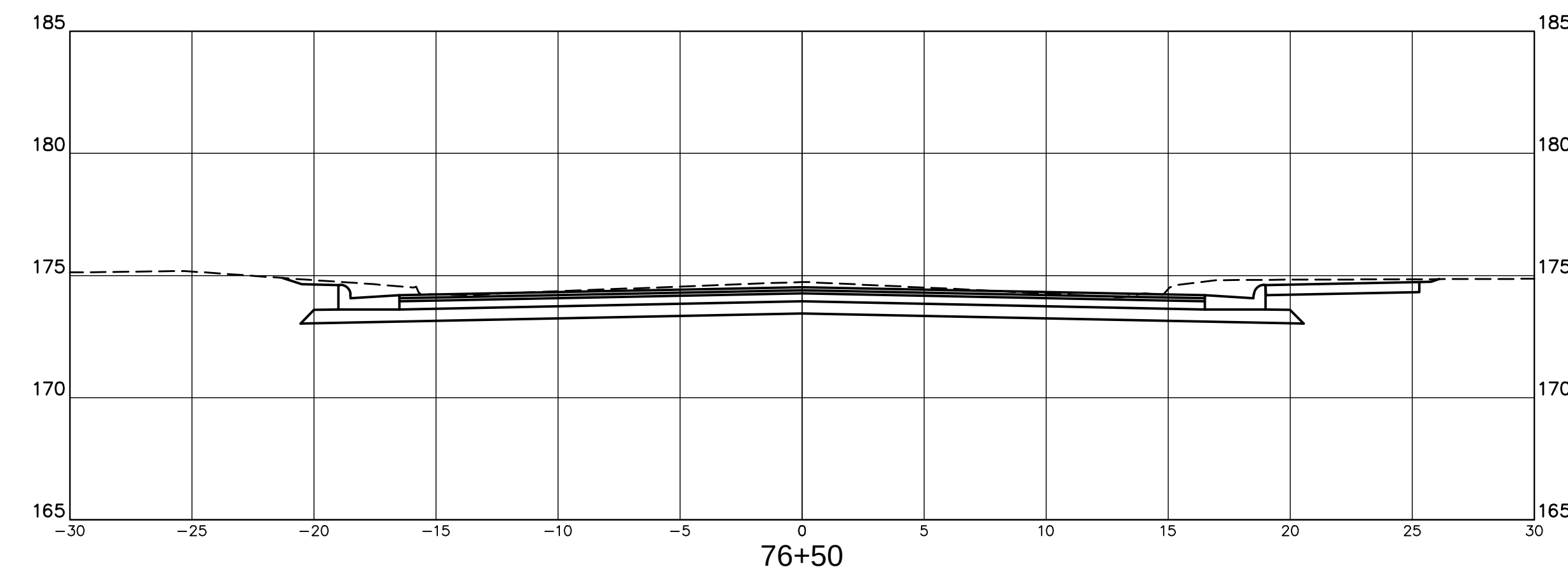
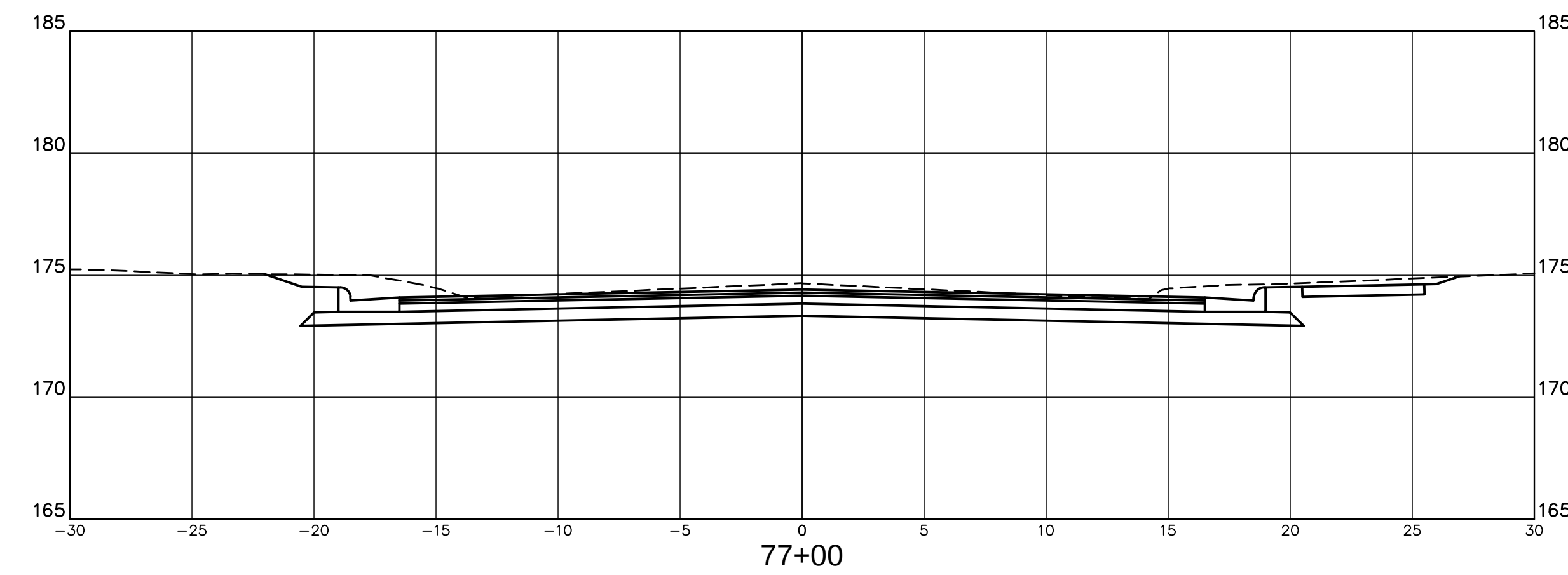
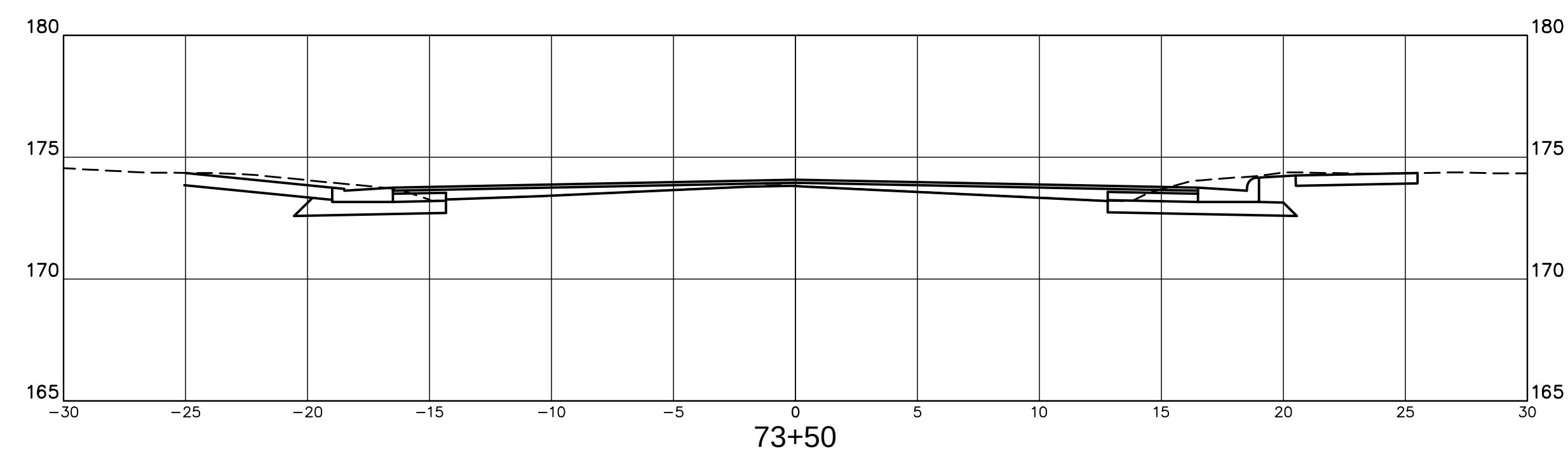
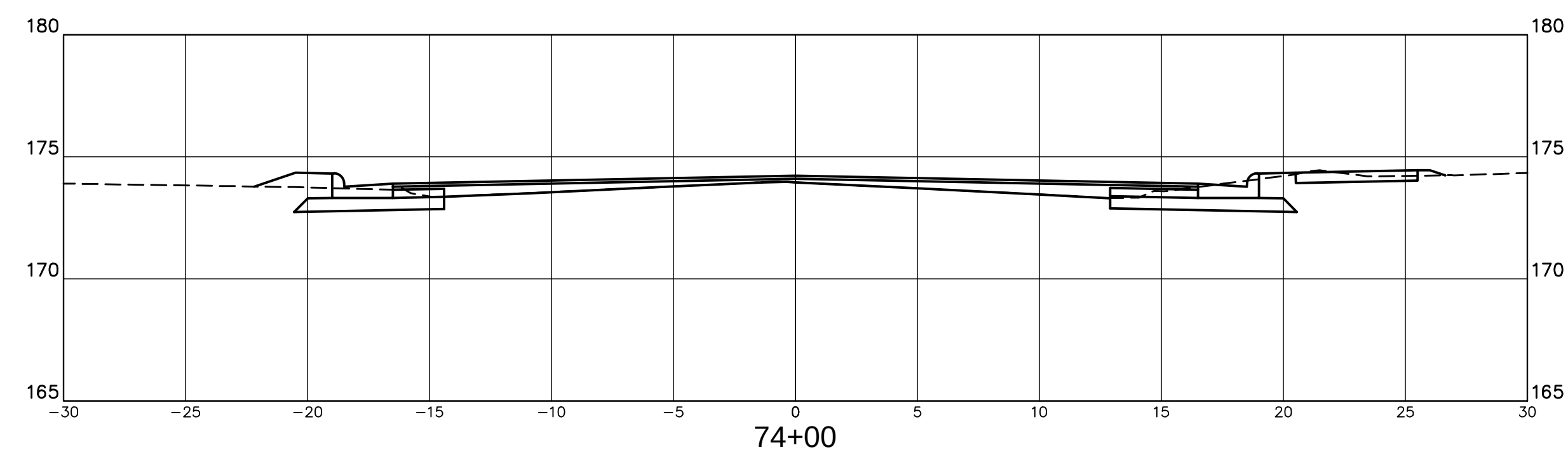
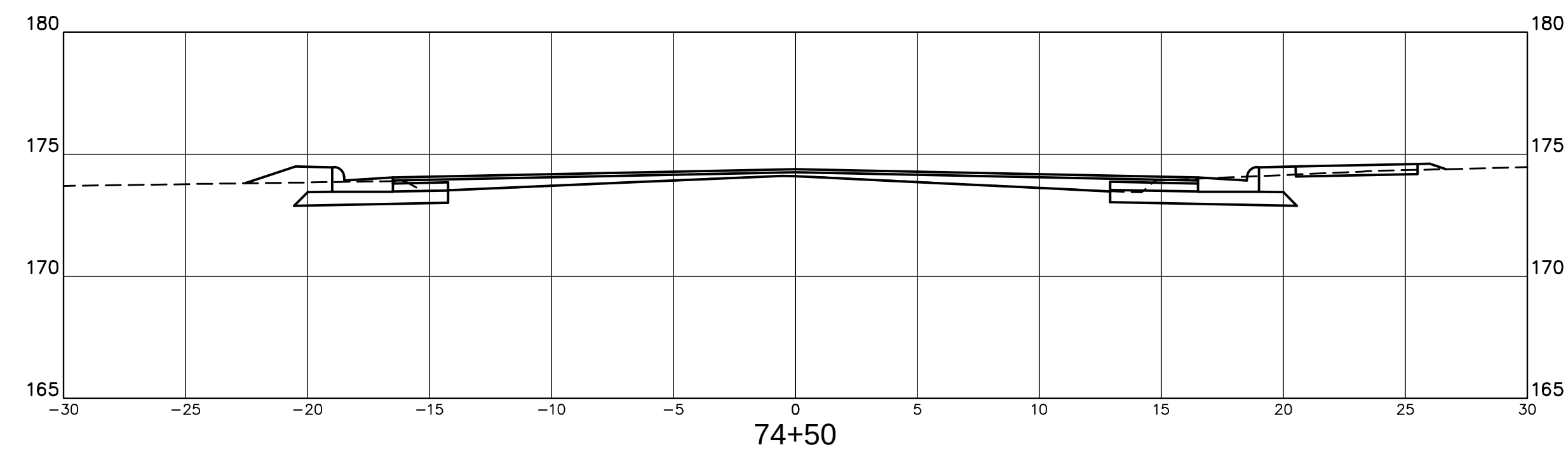
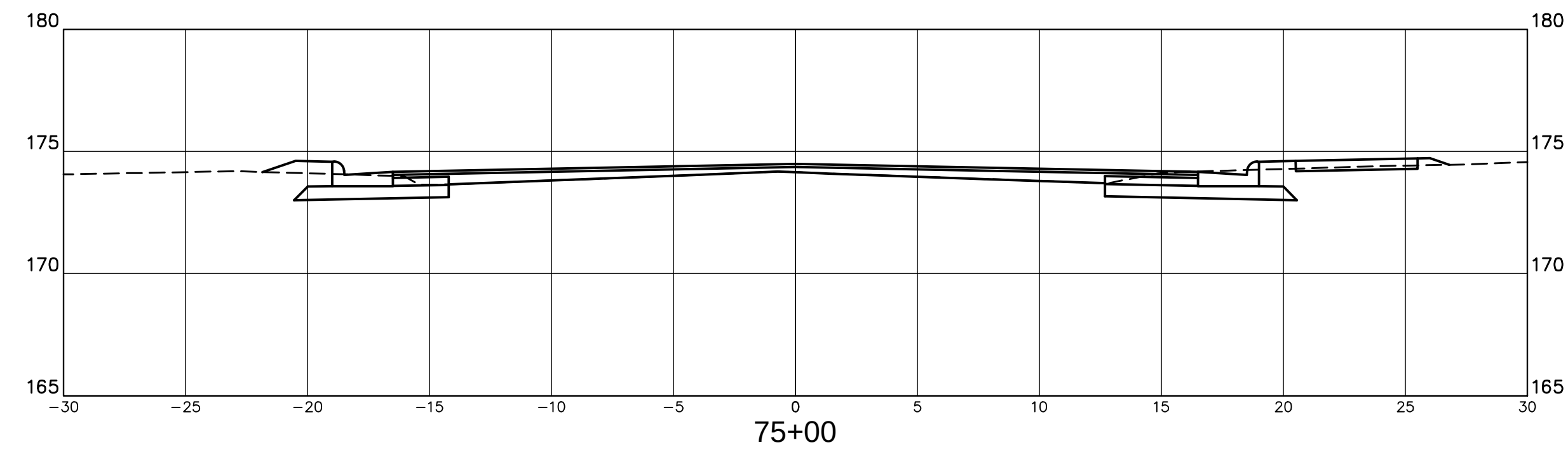
ISSUE DATE: OCTOBER 1, 1998



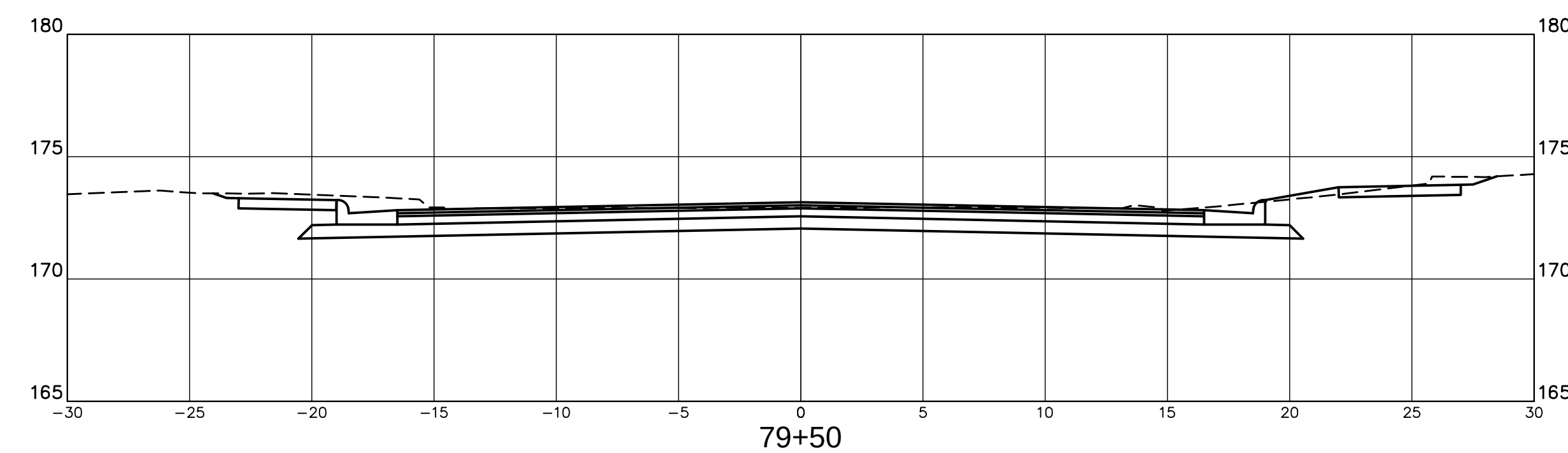
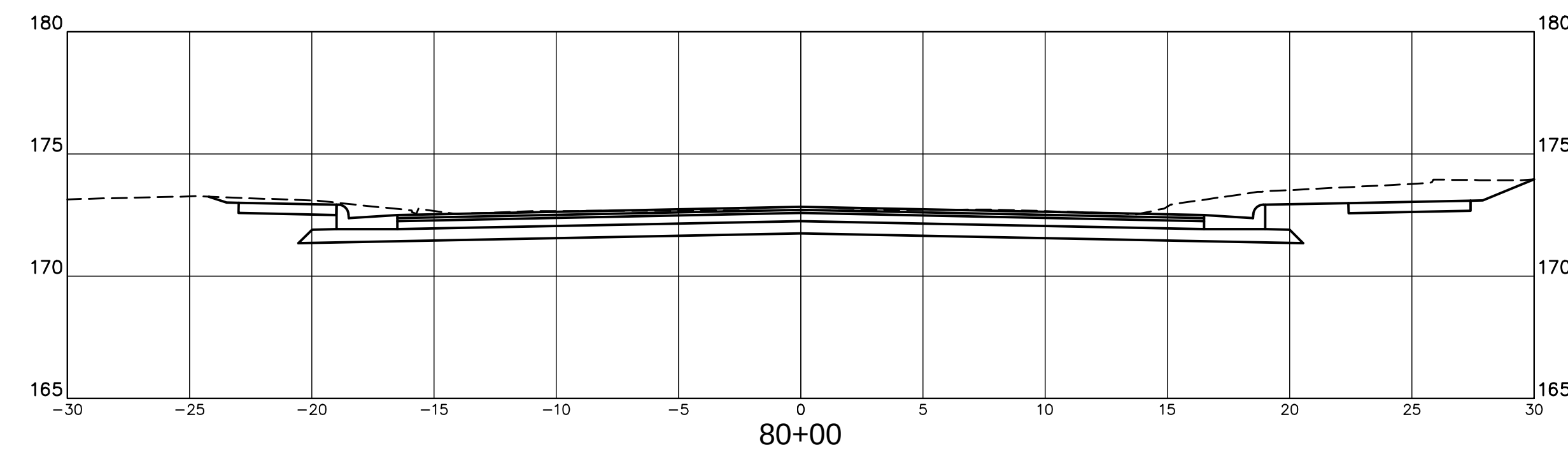
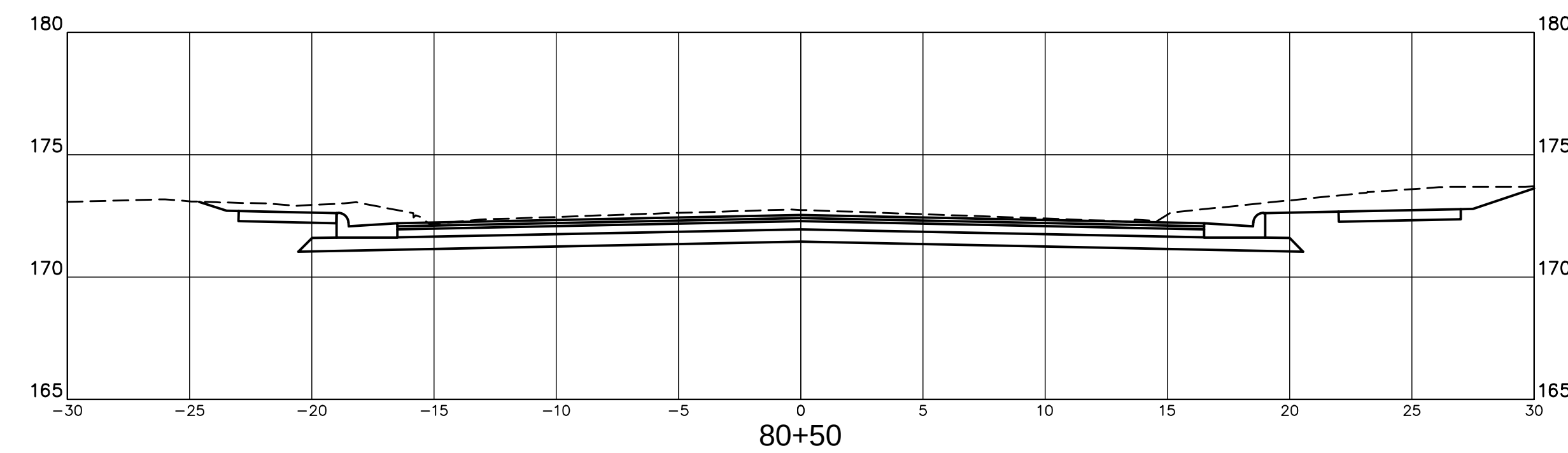
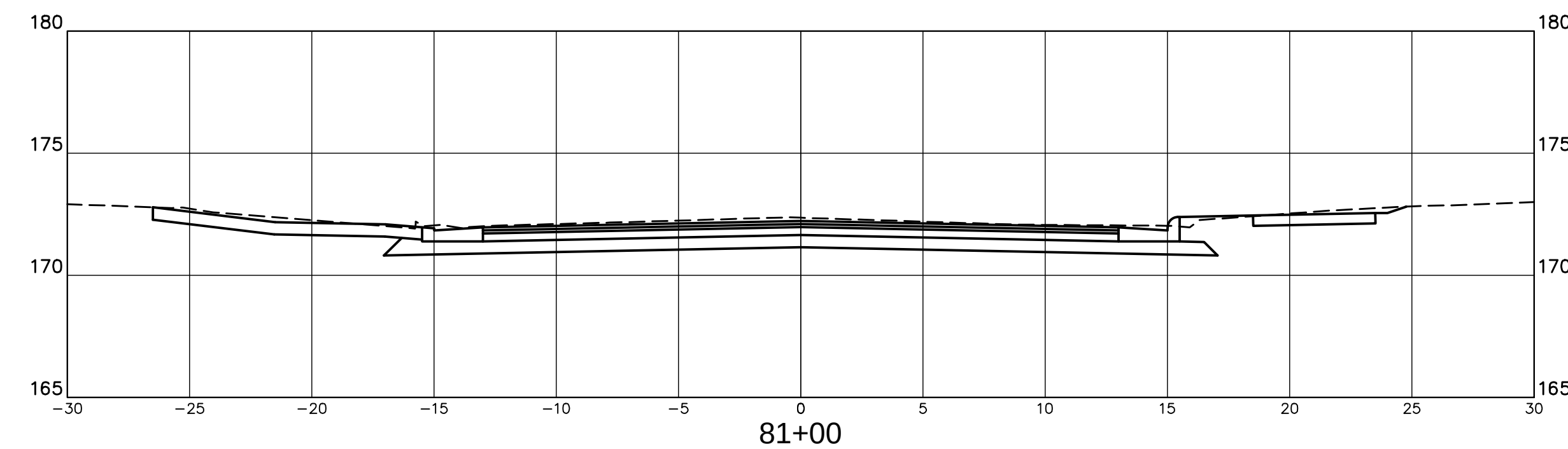
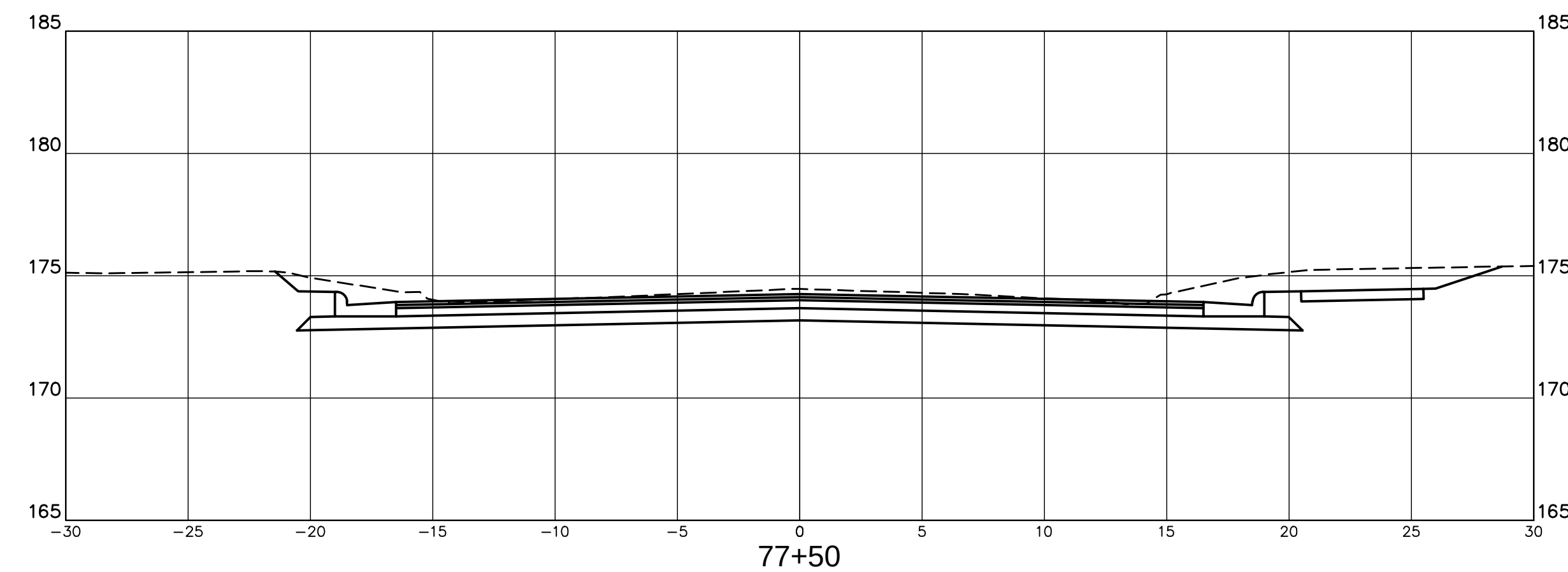
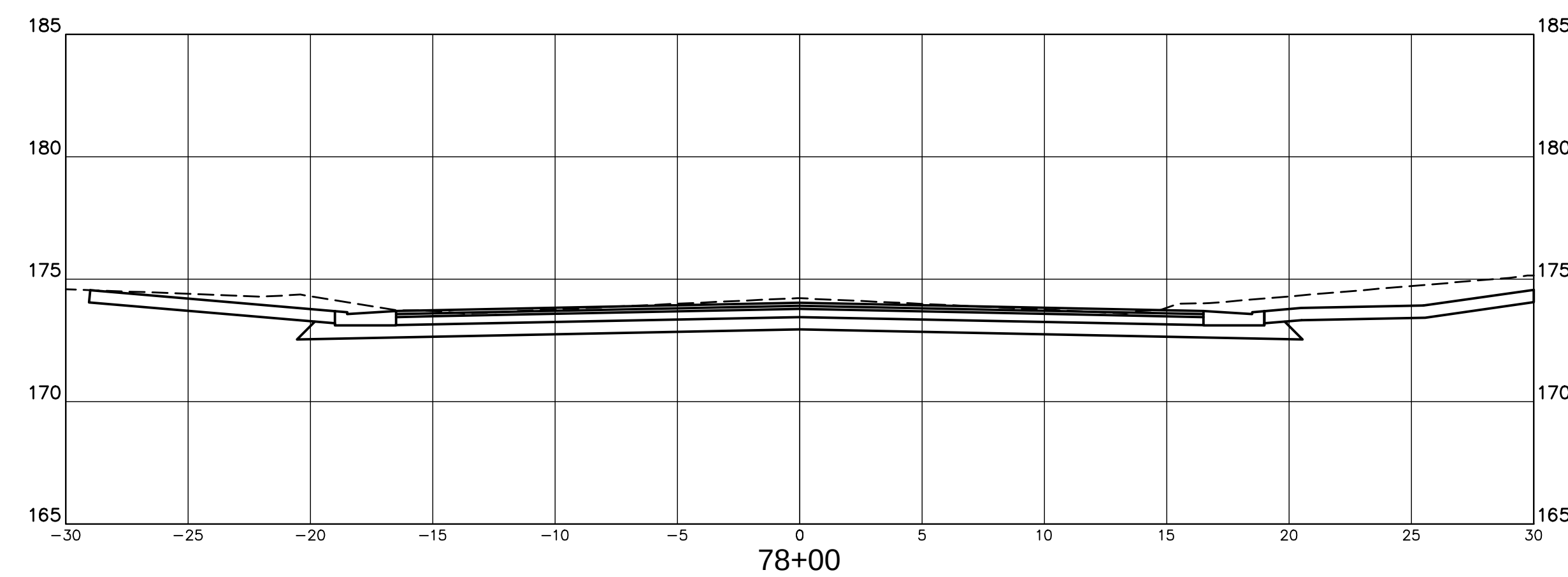
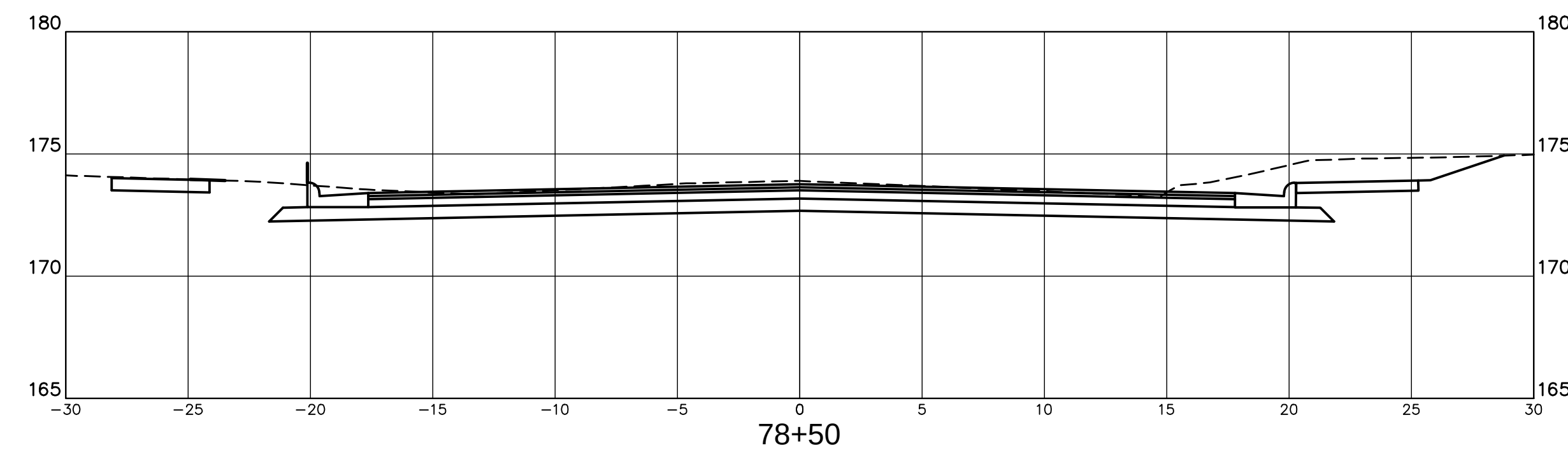
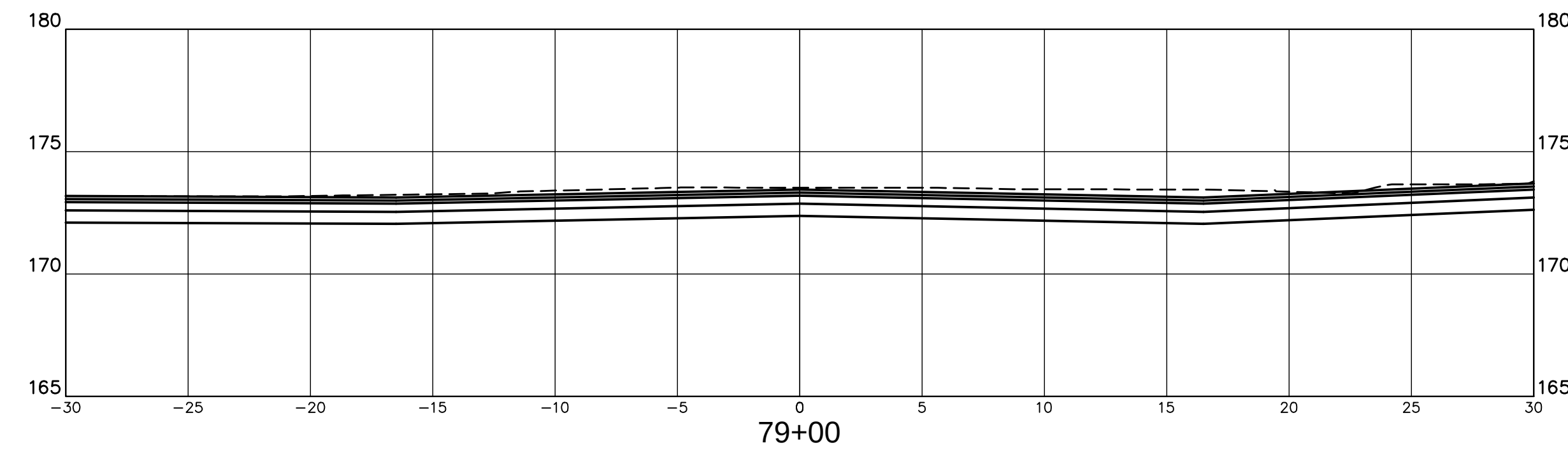
NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		FOURTH STREET CROSS SECTIONS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001						WORKING NUMBER: XS-1	DRAWING NUMBER: 901
					FILENAME: X-SECT.DWG					
					SCALE: 1" = 5'					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				



NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		FOURTH STREET CROSS SECTIONS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: X-SECT.DWG					
					SCALE: 1" = 5'					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				
								XS-2	902	



NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS		FOURTH STREET CROSS SECTIONS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001					
					FILENAME: X-SECT.DWG					
					SCALE: 1" = 5'					
					SURVEYED BY: SHOWS, DEARMAN & WAITS					
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
					QA/QC:	DATE:				
								XS-3	903	



NOTICE TO DRAWING HOLDER NEEL-SCHAFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.	REVISIONS				DRAWING INFORMATION		FOURTH STREET ROADWAY IMPROVEMENT PROJECT-PHASE II PROJECT NO. HPP-7194-00(003) LPA/105845-801000 CITY OF HATTIESBURG FORREST COUNTY, MS	 NEEL-SCHAFER <i>Solutions you can build upon</i>	FOURTH STREET CROSS SECTIONS	
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 7856.001						WORKING NUMBER:
					FILENAME: X-SECT.DWG				DRAWING NUMBER:	
					SCALE: 1" = 5'					XS-4
					SURVEYED BY: SHOWS, DEARMAN & WAITS				904	
					DSGN: GPC	DATE: 06/2016				
					DRWN: GPC	DATE: 06/2016				
					CHKD:	DATE:				
				QA/QC:	DATE:					

SECTION 901 - ADVERTISEMENT FOR BIDS

**CITY OF HATTIESBURG
FORREST COUNTY, MISSISSIPPI**

NOTICE TO CONTRACTORS

**FOURTH STREET ROADWAY IMPROVEMENTS PROJECT-PHASE II
FEDERAL-AID PROJECT NO.
HPP 7194-00(003) LPA/105845-801000**

Sealed bids will be received by the City of Hattiesburg, at the City Clerk's office, located at 200 Forrest Street, Hattiesburg, Mississippi 39401, until 10:00 a.m. local time, on Thursday, March 16, 2017 for supplying all labor, equipment, and materials (as specified) necessary for the construction of the above referenced project. All bids so received will be publicly opened and read aloud.

Work consists of widening 4th Street from Hutchinson Avenue to North Street. Project includes, sidewalk, drainage improvements, landscaping, and traffic signal upgrades.

The above general outline of features of the work does not in any way limit the responsibility of the contractor to perform all work and furnish all plant, labor, equipment and materials required by the specifications and the drawings referred to therein.

Plans, contract documents and special provisions and proposal forms are on file for public inspection in the office of the City of Hattiesburg, City Clerk's Office located at 200 Forrest Street, Hattiesburg, Mississippi 39401 and in the office of Neel-Schaffer, Inc., Post Office Box 1487, Hattiesburg, MS 39403-1487 (704 Hardy Street, Telephone No. 601-545-1565).

Bid documents are being made available via paper copy. Plan holders are required to log-in or register for an account at www.neel-schafferplans.com to view and order Bid Documents. All plan holders are required to have a valid email address for registration. Bid documents are non-refundable and must be purchased through the website. Questions regarding website registration and online orders please contact Plan House Printing at (601) 336-6378.

The attention of bidders is directed to the Special Provisions governing selection and employment of labor.

Minimum wage rates for Federal-Aid projects have been predetermined by the Secretary of Labor and are subject to Public Law 87-581 Work Hours Act of 1962, as set forth in the Special Provisions. Minimum wage rates for all other projects have been predetermined and set forth in advertised specifications.

The City of Hattiesburg hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged and women's business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The award of this contract will be contingent upon the Contractor satisfying the DBE/WBE requirements.

The *2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction*, adopted by the Mississippi Department of Transportation, as referred to herein, may be purchased from the Mississippi Department of Transportation.

Each bid shall be accompanied by a Certified Check on a solvent bank or a Bidder's Bond issued by a Surety Company licensed to operate in the State of Mississippi, in the amount of five percent (5%) of the total bid price, payable to the City of Hattiesburg as bid security. Bidders shall also submit a current financial statement, if requested by the City. The successful bidder will be required to furnish a performance and payment bond in the amount of 100 percent of the contract amount. Both bonds shall be signed or counter-signed by a Mississippi Resident Agent.

The proposal and contract documents in its entirety shall be submitted in a sealed envelope and deposited with the City Clerk, 200 Forrest Street, Hattiesburg, Mississippi prior to the hour and date above designated.

The City of Hattiesburg reserves the right to reject any or all proposals, to waive technicalities or irregularities, or to advertise for new proposals, and the decision of the City of Hattiesburg to reject any bid or proposal shall not be cause for any liability or damages against the City of Hattiesburg, any officers or employees.

The bidder must agree to commence work on or before a date to be specified in a written "Notice to Proceed" of the Owner and to fully complete the project within the Contract Time. The bidder must also agree to pay as liquidated damages the sum specified in the Standard Specifications per day for each calendar day of overrun in Contract Time that work is not completed.

Work to be performed shall be in accordance with the "Mississippi State Highway Standard Specifications for Road and Bridge Construction, 2004", together with all amendments and/or special provisions and/or addenda to the standards duly approved and adopted, unless otherwise noted in these specifications.

The attention of Bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

City Clerk
City of Hattiesburg, Mississippi

Dates of Publication:

February 12, 2017

February 19, 2017

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 9, 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 #4A EVENT TEE SHIRTS 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, the 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #4A: EVENT TEE SHIRTS 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:

Short Sleeve Cotton Tee Shirt

50/50 cotton/poly, Seamless Double-Needle 7/8" Collar, Double-Needle Sleeves and Hem, Taped Neck and Shoulders, set-in sleeves

Colors shall be available in multi selection options

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.

Pricing shall be:

1-Color Front/1-Color Back

1-Color Front/2-Color Back

1-Color Front/3-Color Back

1-Color Front/4-Color Back

1-Color Sleeve

Sizes shall be bid:

Youth XS ,S, M, L, XL

Adult S, M, L, XL, 2XL, 3XL, 4XL

Short Sleeve Wicking Tee Shirt

5.6 ounce, 50 cotton/50 poly, Dry Blend moisture-wicking properties, Heat transfer Label, Seamless double-needle 7/8" collar, double-needle sleeves and hem, taped neck and shoulders, tagless, set-in sleeves

Colors shall be available in multi selection options

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.

Pricing shall be:

1-Color Front/1-Color Back

1-Color Front/2-Color Back

1-Color Front/3-Color Back

1-Color Front/4-Color Back

1-Color Sleeve

Sizes shall be bid:

Youth XS, S, M, L, XL

Adult S, M, L, XL, 2XL, 3XL, 4XL

Short Sleeve Dri-Mesh Men's Polo Shirt

4-Once, 100% polyester mini pique on body, 4.4 ounce/94/6 poly/spandex stretch mesh on side panels and locker patch, Tag-free label, flat knit collar, 3 button placket with dyed to match buttons.

Colors shall be available in multi selection options

Vendor shall embroider 1-color City Logo/or team logo on front left chest in coordinating thread with patch backing.

All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:

Adult S, M, L, XL, 2XL, 3XL, 4XL

Short Sleeve Dri-Mesh Women's Polo Shirt

3.8 ounce, 100% polyester double knit mesh, moisture wicking, V-Neck, gently contoured silhouette, double-needle arm seams, shoulders, hem, taped neck, Self—Fabric Johnny Collar

Colors shall be available in multi selection options

Vendor shall embroider 1-color City Logo/or team logo on front left chest in coordinating thread with patch backing.

All designs/layouts must be approved by City of Hattiesburg prior to printing

Sizes shall be bid:

Adult S, M, L, XL, 2XL, 3XL, 4XL

SPECIFICATIONS APPROVED BY:



Each bidder shall submit bid prices utilizing this form only.

SHORT SLEEVE COTTON TEE SHIRTS

1 COLOR FRONT / 1 COLOR BACK		1 COLOR FRONT / 2 COLOR BACK	
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		YOUTH X-SMALL	
YOUTH SMALL		YOUTH SMALL	
YOUTH MEDIUM		YOUTH MEDIUM	
YOUTH LARGE		YOUTH LARGE	
YOUTH X-LARGE		YOUTH X-LARGE	
ADULT SMALL		ADULT SMALL	
ADULT MEDIUM		ADULT MEDIUM	
ADULT LARGE		ADULT LARGE	
ADULT X-LARGE		ADULT X-LARGE	
ADULT 2X LARGE		ADULT 2X LARGE	
ADULT 3X LARGE		ADULT 3X LARGE	
ADULT 4X LARGE		ADULT 4X LARGE	
SUBTOTAL		SUBTOTAL	
1 COLOR FRONT / 3 COLOR BACK		1 COLOR FRONT / 4 COLOR BACK	
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		YOUTH X-SMALL	
YOUTH SMALL		YOUTH SMALL	
YOUTH MEDIUM		YOUTH MEDIUM	
YOUTH LARGE		YOUTH LARGE	
YOUTH X-LARGE		YOUTH X-LARGE	
ADULT SMALL		ADULT SMALL	
ADULT MEDIUM		ADULT MEDIUM	
ADULT LARGE		ADULT LARGE	
ADULT X-LARGE		ADULT X-LARGE	
ADULT 2X-LARGE		ADULT 2X-LARGE	
ADULT 3X-LARGE		ADULT 3X-LARGE	
ADULT 4X-LARGE		ADULT 4X-LARGE	
SUBTOTAL		SUBTOTAL	
1 COLOR SLEEVE			
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		ADULT SMALL	
YOUTH SMALL		ADULT MEDIUM	
YOUTH MEDIUM		ADULT LARGE	
YOUTH LARGE		ADULT X-LARGE	
YOUTH X-LARGE		ADULT 2X-LARGE	
		ADULT 3X-LARGE	
		ADULT 4X-LARGE	
SUBTOTAL		SUBTOTAL	

SHORT SLEEVE WICKING TEE SHIRTS

1 COLOR FRONT / 1 COLOR BACK		1 COLOR FRONT / 2 COLOR BACK	
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		YOUTH X-SMALL	
YOUTH SMALL		YOUTH SMALL	
YOUTH MEDIUM		YOUTH MEDIUM	
YOUTH LARGE		YOUTH LARGE	
YOUTH X-LARGE		YOUTH X-LARGE	
ADULT SMALL		ADULT SMALL	
ADULT MEDIUM		ADULT MEDIUM	
ADULT LARGE		ADULT LARGE	
ADULT X-LARGE		ADULT X-LARGE	
ADULT 2X LARGE		ADULT 2X LARGE	
ADULT 3X LARGE		ADULT 3X LARGE	
ADULT 4X LARGE		ADULT 4X LARGE	
SUBTOTAL		SUBTOTAL	
1 COLOR FRONT / 3 COLOR BACK		1 COLOR FRONT / 4 COLOR BACK	
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		YOUTH X-SMALL	
YOUTH SMALL		YOUTH SMALL	
YOUTH MEDIUM		YOUTH MEDIUM	
YOUTH LARGE		YOUTH LARGE	
YOUTH X-LARGE		YOUTH X-LARGE	
ADULT SMALL		ADULT SMALL	
ADULT MEDIUM		ADULT MEDIUM	
ADULT LARGE		ADULT LARGE	
ADULT X-LARGE		ADULT X-LARGE	
ADULT 2X-LARGE		ADULT 2X-LARGE	
ADULT 3X-LARGE		ADULT 3X-LARGE	
ADULT 4X-LARGE		ADULT 4X-LARGE	
SUBTOTAL		SUBTOTAL	
1 COLOR SLEEVE			
SIZE	PRICE EACH	SIZE	PRICE EACH
YOUTH X-SMALL		ADULT SMALL	
YOUTH SMALL		ADULT MEDIUM	
YOUTH MEDIUM		ADULT LARGE	
YOUTH LARGE		ADULT X-LARGE	
YOUTH X-LARGE		ADULT 2X-LARGE	
		ADULT 3X-LARGE	
		ADULT 4X-LARGE	
SUBTOTAL		SUBTOTAL	

SHORT SLEEVE DRI-MESH MEN'S POLO SHIRTS

SIZE	COST EACH
ADULT SMALL	
ADULT MEDIUM	
ADULT LARGE	
ADULT X-LARGE	
ADULT 2X-LARGE	
ADULT 3X-LARGE	
ADULT 4X-LARGE	
SUBTOTAL	

SHORT SLEEVE DRI-MESH WOMEN'S POLO SHIRTS

SIZE	COST EACH
ADULT SMALL	
ADULT MEDIUM	
ADULT LARGE	
ADULT X-LARGE	
ADULT 2X-LARGE	
ADULT 3X-LARGE	
ADULT 4X-LARGE	
SUBTOTAL	

TOTAL OF ALL ITEMS (add all subtotals)	\$
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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 will be received until 10:00 a.m., Thursday, March 9, 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 #4A, EVENT TEE SHIRTS FOR PARKS AND RECREATION DEPARTMENT
SUBMITTED BY 10:00 AM, THURSDAY, MARCH 9, 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 7th 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 9, 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 #1 STRIPING OF CITY STREETS FOR THE CITY OF HATTIESBURG

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #1: STRIPING OF CITY STREETS FOR
THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing materials, labor and equipment to repair and rehabilitate city streets for the City of Hattiesburg which meets or exceeds the Mississippi State Highway Standard Specifications for Road and Bridge Construction, 2004, together with all provisions and/or addendum to the standards, amendments and/or special duty approved and adopted or the Mississippi standard Specifications for State Aid Road and Bridge Construction, whichever is more stringent.

Bidder will be properly licensed within the State of Mississippi for street construction work and will place license number and certificate of responsibility number on bid as specified herein.

Temporary traffic control for construction zones shall be included in bid price and subject to referenced specifications. Contractor shall follow the Manual on Uniform Traffic Control Devices.

Work performed under the terms of this contract shall not exceed one hundred and fifty thousand dollars (\$150,000.00) per project as provided by state law. The City of Hattiesburg reserves the right to bid any and all projects, as determined by the City Engineer, on an individual basis and have said work performed by the successful bidder, or have work performed under this contract, whichever is in the City's best interest.

Pursuant to Section 31-5-51 of the Mississippi Code (Amended) which requires certain vendors have liability insurance, the successful bidder shall furnish to the City of Hattiesburg, before entering into any such contract, proof of general liability insurance coverage in the amount not less than one million dollars (\$1,000,000.00) for bodily injury and property damage.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2018, items to be purchased as required.

DELIVERY: F.O.B. Hattiesburg, Mississippi, within 60 days from the date the order is received by the accepted bidder. Ship in full, freight prepaid. No partial shipment accepted.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
ITEM #1 STRIPING OF CITY STREETS
SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 9, 2017
CERTIFICATE OF RESPONSIBILITY NO. _____

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 7th day of February, 2017.

BY: _____
CITY CLERK

SPECIFICATIONS APPROVED BY:



ENGINEERING DEPARTMENT



PUBLIC WORKS DEPARTMENT

BID FORM FOR ITEM #1-STRIPING OF CITY STREETS FOR THE CITY OF HATTIESBURG

PAY ITEM #	PAY ITEM	UNITS	UNIT PRICE
625-A	4" Painted Traffic Stripe, Skip White & Yellow	L.F.	
625-C	4" Painted Traffic Stripe, Continuous White & Yellow	L.F.	
625-E	4" Painted Detail Traffic Stripe	L.F.	
625-F	Painted Legend	S.F.	
626-A	4" Thermoplastic Traffic Stripe, Skip White or Yellow, 90 Mil Thickness	L.F.	
626-B	4" Thermoplastic Traffic Stripe, Continuous White or Yellow, 90 Mil Thickness	L.F.	
626-G	Thermoplastic Detail Stripe 4" equivalent, 90 Mil Thickness	L.F.	
626-H	Thermoplastic Legend, 90 Mil Thickness	S.F.	
627-C	Red-Clear Reflective Raised Markers	each	
627-D	Two-Way Yellow Reflective Raised Markers	each	
	6" Painted Traffic Stripe, Skip White & Yellow	L.F.	
	6" Painted Traffic Stripe, Continuous White & Yellow	L.F.	
	6" Painted Detail Traffic Stripe	L.F.	

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY PHONE/FAX: _____

COMPANY OFFICIAL'S NAME (printed): _____

COMPANY OFFICIAL'S SIGNATURE: _____

DATE: _____

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 9, 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 #2 REPAIR AND REHABILITATION OF STREETS FOR
THE CITY OF HATTIESBURG**

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #2: REPAIR AND REHABILITATION OF STREETS FOR
THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing materials, labor and equipment to repair and rehabilitate city streets for the City of Hattiesburg which meets or exceeds the Mississippi State Highway Standard Specifications for Road and Bridge Construction, 2004, together with all provisions and/or addendum to the standards, amendments and/or special duty approved and adopted or the Mississippi standard Specifications for State Aid Road and Bridge Construction, whichever is more stringent.

No Vibratory rolling will be allowed. Lot densities will be reduced by one percent to accommodate this. Contractor will be responsible for all sampling and testing upon request.

Bidder will be properly licensed within the State of Mississippi for street construction work.

Temporary traffic control for construction zones shall be included in bid price and subject to referenced specifications. Contractor shall follow the Manual on Uniform Traffic Control Devices.

Work performed under the terms of this contract shall not exceed one hundred and fifty thousand dollars (\$150,000.00) per project as provided by state law. The City of Hattiesburg reserves the right to bid any and all projects, as determined by the City Engineer or Public Works Director, on an individual basis and have said work performed by the successful bidder, or have work performed under this contract, whichever is in the City's best interest.

Contractor shall have 2 weeks to respond to the City with a paving timeline after receipt of paving request (Purchase Order). If contractor fails to respond, doesn't meet paving timeline or paving timeline is insufficient as determined by Public Works Director and/or Engineering Director, the City reserves the right to award the work to the alternate.

Pursuant to Section 31-5-51 of the Mississippi Code (Amended) which requires certain vendors have liability insurance, the successful bidder shall furnish to the City of Hattiesburg, before entering into any such contract, proof of general liability insurance coverage in the amount not less than one million dollars (\$1,000,000.00) for bodily injury and property damage.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2018, items to be purchased as required.

DELIVERY: F.O.B. Hattiesburg, Mississippi, within seven (7) days of agreed upon paving timeline. Ship in full, freight prepaid. No partial shipment accepted.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
ITEM #2 REPAIR AND REHABILITATION OF STREETS
FOR CITY OF HATTIESBURG
SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 9, 2017
CERTIFICATE OF RESPONSIBILITY NO. _____

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 7th day of February, 2017.

BY: _____
CITY CLERK

SPECIFICATIONS APPROVED BY:


ENGINEERING DEPARTMENT


PUBLIC WORKS DEPARTMENT

BID FORM FOR ITEM #2-REPAIR & REHABILITATION OF STREETS FOR CITY OF HATTIESBURG

PAY ITEM #	PAY ITEM	UNITS	UNIT PRICE
201-B	Clearing and Grubbing	Acre	
202-A	Removal of Existing Traffic Stripe	L.F.	
202-A	Removal of Rail Crossing: Rail Lines and Ties	each	
202-B	Removal of Traffic Stripe by Grinding	L.F.	
203-A	Unclassified Excavation	C.Y.	
203-I	Motor Grader per Hour	hour	
209-A	Geotextile Stabilization, Type V	S.Y.	
225-A	Grassing	Acre	
304-A	Granular Material, Class 9, Group C	C.Y.	
304-F	Crushed Stone or Crushed Concrete Base, size 825, Roadbed Construction	ton	
304-H	Crushed Stone or Crushed Concrete Base, size 825, Base Repair	ton	
307-C	8" Soil-Lime-Water Mixing	S.Y.	
307-D	Lime	ton	
308-A	Portland Cement	ton	
308-B	8" Soil-Cement-Water Mixing at 5% Concentration	S.Y.	
403-A	SC-1 Hot Mix Asphalt Surface Course	ton	
403-M	BB-1 Hot Mix Asphalt Base Course	ton	
406-A	Cold Milling of Asphalt Pavement	ton	
407-A	Asphalt for Tack Coat, EA-4	gallon	
413-A	Joint Sealer Material	gallon	
413-C	Cleaning and Sealing Cracks/Joints	L.F.	
450	Milling Purchase - Price for Contractor to sell milled asphalt material to City of Hattiesburg	ton	
625-A	4" Painted Traffic Stripe, Skip White & Yellow	L.F.	
625-C	4" Painted Traffic Stripe, Continuous White &	L.F.	

	Yellow		
625-E	4" Painted Detail Traffic Stripe	L.F.	
625-F	Painted Legend	S.F.	
626-A	4"Thermoplastic Traffic Stripe, Skip White or Yellow, 90 Mil Thickness	L.F.	
626-B	4" Thermoplastic Traffic Stripe, Continuous White or Yellow, 90 Mil Thickness	L.F.	
626-G	Thermoplastic Detail Stripe 4" equivalent, 90 Mil Thickness	L.F.	
626-H	Thermoplastic Legend, 90 Mil Thickness	S.F.	
627-C	Red-Clear Reflective Raised Markers	each	
627-D	Two-Way Yellow Reflective Raised Markers	each	
	Manhole adjustments	each	
	Water valve adjustments	each	
907-A	Ultra Thin lift	ton	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & EMAIL

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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 #2A PAVING ALTERNATIVES FOR THE CITY OF HATTIESBURG

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #2A: PAVING ALTERNATIVES FOR
THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing materials, labor and equipment to repair and rehabilitate city streets for the City of Hattiesburg which meets or exceeds the Mississippi State Highway Standard Specifications for Road and Bridge Construction, 2004, together with all provisions and/or addendum to the standards, amendments and/or special duty approved and adopted or the Mississippi standard Specifications for State Aid Road and Bridge Construction, whichever is more stringent.

Bidder will be properly licensed within the State of Mississippi for street construction work.

Temporary traffic control for construction zones shall be included in bid price and subject to referenced specifications. Contractor shall follow the Manual on Uniform Traffic Control Devices.

Work performed under the terms of this contract shall not exceed one hundred and fifty thousand dollars (\$150,000.00) per project as provided by state law. The City of Hattiesburg reserves the right to bid any and all projects, as determined by the City Engineer, on an individual basis and have said work performed by the successful bidder, or have work performed under this contract, whichever is in the City's best interest.

Pursuant to Section 31-5-51 of the Mississippi Code (Amended) which requires certain vendors have liability insurance, the successful bidder shall furnish to the City of Hattiesburg, before entering into any such contract, proof of general liability insurance coverage in the amount not less than one million dollars (\$1,000,000.00) for bodily injury and property damage.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2018, items to be purchased as required.

DELIVERY: F.O.B. Hattiesburg, Mississippi, within 60 days from the date the order is received by the accepted bidder. Ship in full, freight prepaid. No partial shipment accepted.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
ITEM #2A PAVING ALTERNATIVES FOR CITY OF HATTIESBURG
SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 9, 2017
CERTIFICATE OF RESPONSIBILITY NO. _____

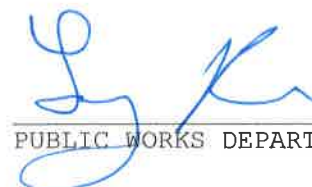
The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any and all bids received and to waive informalities.

APPROVED on this, the 7th day of February, 2017.

BY: _____
CITY CLERK

SPECIFICATIONS APPROVED BY:


ENGINEERING DEPARTMENT


PUBLIC WORKS DEPARTMENT

BID FORM FOR ITEM #2A PAVING ALTERNATIVES FOR CITY OF HATTIESBURG

PAY ITEM #	PAY ITEM	UNITS	UNIT PRICE
	Micro Surface (Min. 3% polymer)	ton	
	Micro Surface (Min. 6% polymer)	ton	
907-D	Scrub Seal (estimate placing 140,000 Sy)	square yard	
907-E	Fog Seal	gallon	

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY PHONE/FAX: _____

COMPANY OFFICIAL'S NAME (printed): _____

COMPANY OFFICIAL'S SIGNATURE: _____

DATE: _____

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 9, 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, 2019, to-wit:

ITEM #3 READY MIX CONCRETE

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #3: READY MIX CONCRETE FOR THE CITY OF HATTIESBURG

Bidder shall bid on Ready Mix Concrete meeting the requirements of Section 800 of the Mississippi Highway Department Specifications of 1990 or latest revisions.

Class "A" concrete 2.00 cement factor-compressive strength in 28 days of 4500 PSI

Class "A" concrete 1.75 cement factor-compressive strength in 28 days of 4000 PSI

Class "A" concrete 1.65 cement factor-compressive strength in 28 days of 3500 PSI

Class "B" concrete 1.50 cement factor-compressive strength in 28 days of 3000 PSI

Class "B" concrete 1.50 cement factor-compressive strength in 28 days of 3500 PSI, with pea gravel for washed aggregate use

Class "C" concrete 1.25 cement factor-compressive strength in 28 days of 2500 PSI

Class "D" concrete 1.00 cement factor-compressive strength in 28 days of 2000 PSI

Six bag pea gravel grout mix

Fiber mesh added to mix per cubic yard

BIDDER shall quote additional cost per yard for 2% calcium chloride

for all classes of concrete contained herein.

Ready mix concrete furnished not to exceed 20% per yard fly ash-Class "C".

BIDDER shall quote prices per Cubic Yard.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

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, 2019, 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.

DELIVERY: F.O.B. Hattiesburg, Mississippi, to job site.

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
READY MIX CONCRETE -
CITY OF HATTIESBURG, ITEM #3
SUBMITTED BY 10:00 A.M. THURSDAY MARCH 9, 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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:

A handwritten signature in blue ink, appearing to be 'L. R.', is written over a horizontal line.

ITEM #3 - READY MIX CONCRETE FOR THE CITY OF HATTIESBURG

ITEMS	PRICE PER CUBIC YARD
CLASS "A" - 4500 PSI (2.00 CEMENT FACTOR)	
CLASS "A" - 4000 PSI (1.75 CEMENT FACTOR)	
CLASS "A" - 3500 PSI (1.65 CEMENT FACTOR)	
CLASS "B" - 3000 PSI (1.50 CEMENT FACTOR)	
CLASS "B" - 3500 PSI W/ PEA GRAVEL (1.50 CEMENT FACTOR)	
CLASS "C" - 2500 PSI (1.25 CEMENT FACTOR)	
CLASS "D" - 2000 PSI (1.00 CEMENT FACTOR)	
SIX BAG PEA GRAVEL GROUT MIX	
FIBER MESH ADDED TO MIX	
2% CALCIUM CHLORIDE ADDED	
TOTAL	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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, 2019, to-wit:

ITEM #10 VEHICLE LOOP SEALANT FOR THE CITY OF HATTIESBURG

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 7th day February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:

CITY CLERK

(SEAL)

SPECIFICATIONS FOR ITEM #10: VEHICLE LOOP SEALANT FOR THE CITY OF HATTIESBURG

Bidder shall bid on furnishing Vehicle Loop Sealant for the City of Hattiesburg, which meets or exceeds the following specifications, to-wit:

SPECIFICATIONS:

Material shall be a polyurethane system conforming to the requirements herein. The system shall be manufactured specifically for this use and shall be used in accordance with the manufacturer's instructions. The system shall be dielectric, have no detrimental effect on cable insulation, and bond to either Portland cement or bituminous concrete paving with minimal shrinkage. The material shall, when cured, retain flexible characteristics and accommodate movement associated with Portland cement and bituminous concrete pavements. The material shall not track in hot weather and be suitable for applying when the surface temperature is between 50°F and 130°F.

The material shall be resistant to the effects of weather, vehicular abrasion, motor oils, gasoline, antifreeze solution, brake fluid, and deicing chemicals normally encountered.

Polyurethane System - The polyurethane sealant shall be a one-part elastomeric compound requiring no mixing or application of heat prior to or during installation. The sealant shall meet the following additional requirements:

PROPERTY	REQUIREMENT	TEST PROCEDURE
Hardness, Shore A	85 Maximum	ASTM D-2240
Tensile Strength	500 Minimum	ASTM D-412
Elongation, %	250 Minimum	ASTM D-412

Adhesion in Peel, lbs/in	10 Minimum	ASTM D-903
Track-Free Time (Polyethylene Film), hrs	24 Maximum	N/A
Shelf Life, months	6 Minimum	N/A

Estimated quantity to be used in time period referenced: 75 - 100 cases.

Bidder shall bid on sealant in one (1) liter ply pack tubes. Bidder shall submit price per case basis and list number of tubes per case.

Bidder shall supply property data of product offered in bid proposal.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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

ITEM #10 VEHICLE LOOP SEALANT

CITY OF HATTIESBURG

SUBMITTED BY 10:00 A.M, THURSDAY, MARCH 9, 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 7th day of February, A. D., 2017.

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:



Public Works Director

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 9, 2017, in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements of the following supplies during the period beginning April 1, 2017 and ending March 31, 2019, to-wit:

ITEM #13 FURNISH & INSTALL VARIOUS CHAIN LINK & VINYL COATED FENCING

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #13: FURNISH AND INSTALL VARIOUS CHAIN LINK & VINYL
COATED FENCING FOR THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing and installing various chain link & vinyl coated fencing for the City of Hattiesburg, which meets or exceeds the following specifications, to-wit:

INSTALLATIONBidder shall bid cost of installing the items
listed on bid form on a per linear foot basis

FABRIC#6 Gauge wire woven in 2" mesh, with barbed
selvages top and bottom - galvanized to current U.S. standards.
Quote per linear foot on sizes listed on bid form.

TOP RAILS.....Sizes listed on bid form

SCHEDULE 40 PIPE.....1-5/8 X 21 per 100 feet

TENSION BARSSizes listed on bid form
(light)

TENSION BARSSizes listed on bid form
(galvanized)

HARDWARE ITEMSSizes and items listed on bid form

TUBING CUT POSTS.....Sizes listed on bid form

SCHEDULE 40 CUT POSTS.....Sizes listed on bid form

RAIL END CUPSSizes and items listed on bid form

LINE POST TOPSAluminum sizes listed on bid form
Steel sizes listed on bid form

HINGESSizes listed on bid form

TIE WIRESizes and items listed on bid form

POST CAPSSteel sizes listed on bid form
(corner posts)Aluminum sizes listed on bid form

TENSION WIRE.....#7 Gauge Spring Coil per linear foot

TENSION WIRE.....#11 Gauge Twist Tension Wire per linear foot

BARBWIRE12½ Gauge 4 point steel per linear foot

WALK GATESSizes listed on bid form
(with all hardware)

WALK GATESSchedule 40 Pipe with welded corners and #9 (with all hardware)
gauge wire. Sizes listed on bid form

DOUBLE DRIVE GATESSizes listed on bid form
(with all hardware)

DOUBLE DRIVE GATESWith Commercial Drop Rod Assembly
(with all hardware) Size listed on bid form

DOUBLE DRIVE GATESSchedule 40 Pipe with welded corners and #9 (with all
hardware) gauge wire. Sizes listed on bid form

ROLL-A-WAY GATESSchedule 40 Pipe with welded corners and #9 (with all
hardware) gauge wire. Sizes listed on bid form

STEEL BRACE BANDSSizes listed on bid form

BARBWIRE ARMS.....Sizes listed on bid form
(45 or 90 Degree)

SLEEVESSizes listed on bid form

All work shall be coordinated with and meet the final approval of the City of Hattiesburg, Construction/Maintenance Division. Contractor shall notify the City of Hattiesburg, Construction/Maintenance Division before beginning all projects assigned and upon completion of each project. All work must be completed within the time specified on the Purchase Order.

Pursuant to Section 31-5-51 of the Mississippi Code (Amended) which requires certain vendors have liability insurance, the successful bidder shall furnish to the City of Hattiesburg, before entering into any such contract, proof of general liability insurance coverage in the amount not less than one million dollars (\$1,000,000.00) for bodily injury and property damage.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
CHAIN LINK & VINYL COATED FENCING -
CITY OF HATTIESBURG, ITEM #13
SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 9, 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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:

PUBLIC WORKS DIRECTOR

ITEM #13 - FURNISH AND INSTALL VARIOUS CHAIN LINK & VINYL COATED FENCING FOR THE
PUBLIC SERVICES DEPARTMENT

FENCE INSTALLATION (LABOR)	CHAIN LINK FENCE	VINYL COATED FENCE
	PER FOOT	PER FOOT
4' CHAIN LINK		
5' CHAIN LINK		
6' CHAIN LINK		
8' CHAIN LINK		
10' CHAIN LINK		
12' CHAIN LINK		
BARBWIRE-ABOVE 4' FENCE		
BARBWIRE-ABOVE 5' FENCE		
BARBWIRE-ABOVE 6' FENCE		
TOTAL		

FABRIC	PER 100'	PER 100'
2 X 9 X 48		
2 X 9 X 60		
2 X 9 X 72		
2 X 9 X 96 (TENNIS COURT WIRE 9 GAUGE)		
2 X 11 X 120 (TENNIS COURT WIRE 9 GAUGE)		
2 X 12 X 48 (9 GAUGE)		
2 X 12 X 60 (9 GAUGE)		
2 X 12 X 72 (9 GAUGE)		
TOTAL		

TOP RAILS	EACH	EACH
1-5/8 X .047 X 21		
1-5/8 X .047 X 22		
1-5/8 X .047 X 24		
1-5/8 X .035 X 21		
TOTAL		

SCHEDULE 40 PIPE	PER 100'	PER 100'
1-5/8 X 21		

TENSION BARS (LIGHT)	EACH	EACH
3/16 X 3/4 X 96		
3/16 X 3/4 X 119		
3/16 X 3/4 X 143		
3/16 X 5/8 X 47		
3/16 X 5/8 X 59		
3/16 X 5/8 X 71		
TOTAL		

TENSION BANDS (GALVANIZED)	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
1-3/8 X 3/4		
1-5/8 X 3/4		
2 X 3/4		
2-3/8 X 3/4		
3 X 3/4		
4 X 7/8		
6-5/8 X 7/8		
8-5/8 X 7/8		
TOTAL		

HARDWARE ITEMS	EACH	EACH
1/4 X 3/4 CARRIAGE BOLTS		
5/16 X 1-1/4 CARRIAGE BOLTS		
5/16 X 2 CARRIAGE BOLTS		
5/16 X 2-1/2 CARRIAGE BOLTS		
5/16 X 3 CARRIAGE BOLTS		
5/16 X 4-1/2 CARRIAGE BOLTS		
3/8 X 1-1/4 CARRIAGE BOLTS		
3/8 X 1-1/2 CARRIAGE BOLTS		
3/8 X 2 CARRIAGE BOLTS		
3/8 X 2-1/4 CARRIAGE BOLTS		
3/8 X 2-1/2 CARRIAGE BOLTS		
3/8 X 3 CARRIAGE BOLTS		
3/8 X 3-1/2 CARRIAGE BOLTS		
1/4 X 2 MACHINE BOLTS		
5/8 X 4-1/2 WOOD LAG (MALE)		
5/8 X 4-1/2 J. BOLT MALE HINGE		
5/8 X 8 J. BOLT MALE HINGE		
5/8 X 12 J. BOLT MALE HINGE		
TOTAL		

TUBING CUT POSTS	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
1-5/8" X 5'6" X .042		
1-5/8" X 6'6" X .042		
1-5/8" X 5'6" X .047		
1-5/8" X 6'6" X .047		
1-5/8" X 7'0" X .047		
1-5/8" X 7'6" X .047		
1-5/8" X 8'0" X .047		
1-5/8" X 5'6" X .055		
1-5/8" X 6'6" X .055		
1-5/8" X 7'0" X .055		

TUBING CUT POSTS (CONT'D)	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
1-5/8" X 7'4" X .055		
1-5/8" X 8'0" X .055		
1-5/8" X 5'6" X .065		
1-5/8" X 7'0" X .065		
1-5/8" X 8'0" X .065		
2" X 7'0" X .055		
2" X 8'0" X .055		
2" X 7'0" X .065		
2" X 8'0" X .065		
2-3/8" X 5'6" X .047		
2-3/8" X 6'6" X .047		
2-3/8" X 7'6" X .047		
2-3/8" X 5'6" X .055		
2-3/8" X 6'6" X .055		
2-3/8" X 7'0" X .055		
2-3/8" X 7'4" X .055		
2-3/8" X 8'0" X .055		
TOTAL		

SCHEDULE 40 CUT POSTS	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
2" X 6'		
2" X 8'		
2" X 8'8"		
2" X 9'		
2" X 10'		
2" X 10'6"		
2" X 12'		
2-1/2" X 6'		
2-1/2" X 8'		
2-1/2" X 8'8"		
2-1/2" X 9'		
2-1/2" X 10'		
2-1/2" X 10'6"		
2-1/2" X 12'		
2-1/2" X 14'		
2-1/2" X 16'		
2-1/2" X 18'		
2-1/2" X 21'		
3" X 6'		
3" X 8'		
3" X 8'8"		
3" X 9'		
3" X 10'		
3" X 10'6"		
3" X 12'		
3" X 14'		
3" X 16'		
3" X 18'		
3" X 21'		
4" X 6'		
4" X 8'		
4" X 8'8"		
4" X 9'		

4" X 10'		
4" X 10'6"		
4" X 12'		
4" X 14'		
4" X 16'		
4" X 18'		
4" X 21'		
TOTAL		

RAIL END CUPS	EACH	EACH
1-5/8" ALUMINUM		
1-5/8" STEEL COMBO		
1-5/8" TWO HOLE BRACE		
TOTAL		

LINE POST TOPS-ALUMINUM	EACH	EACH
1-5/8" X 1-5/8"		
2" X 1-5/8"		
2-1/2" X 1-5/8"		
3" X 1-5/8"		
TOTAL		

LINE POST TOPS-STEEL	EACH	EACH
1-5/8" X 1-5/8"		
2" X 1-5/8"		
2-1/2" X 1-5/8"		
3" X 1-5/8"		
TOTAL		

HINGES	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
2-1/2" X 1-5/8" 90 DEGREE GATE HINGE		
6-5/8" X 1-5/8" OR 2" 90 DEGREE GATE HINGE		
3 X 1-5/8" 90 DEGREE		
3 X 2" 90 DEGREE		
4 X 1-5/8" 90 DEGREE		
4 X 2" 90 DEGREE		
TOTAL		

TIE WIRE	PER 100'	PER 100'
NUMBER 33-11 GAUGE ALUMINUM		
NUMBER 13-9 GAUGE ALUMINUM		
NUMBER 16-9 GAUGE ALUMINUM		
NUMBER 26-9 GAUGE ALUMINUM		
6-1/2" 12 GAUGE STEEL	PER CASE	PER CASE
8-1/4" 12 GAUGE STEEL	PER CASE	PER CASE
TOTAL		

POST CAPS-CORNER POSTS (STEEL)	EACH	EACH
2-1/2"		
3"		
4"		
6-5/8"		
TOTAL		

POST CAPS-CORNER POSTS (ALUMINUM)	EACH	EACH
2-1/2"		
3"		
4"		
6-5/8"		
TOTAL		

TENSION WIRE	LINEAR FOOT	LINEAR FOOT
#7 GAUGE SPRING COIL		
#11 GAUGE TWIST TENSION WIRE		
TOTAL		

BARBWIRE	LINEAR FOOT	LINEAR FOOT
12-1/2 GAUGE 4 POINT STEEL		

WALK GATES WITH ALL HARDWARE	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
42 X 48		
42 X 60		
48 X 72		
TOTAL		

WALK GATES WITH ALL HARDWARE - SCHEDULE 40 PIPE WITH WELDED CORNERS AND #9 GAUGE WIRE	EACH	EACH
48 X 48		
60 X 48		
72 X 48		
96 X 48		
120 X 48		
120 X 60 SINGLE GATE		
TOTAL		

DOUBLE DRIVE GATES WITH ALL HARDWARE	EACH	EACH
12 X 48		
12 X 60		
12 X 72		
TOTAL		

DOUBLE DRIVE GATES WITH ALL HARDWARE AND COMMERCIAL DROP ROD ASSEMBLY	EACH	EACH
120 X 72		

DOUBLE DRIVE GATES WITH ALL HARDWARE - SCHEDULE 40 PIPE WITH WELDED CORNERS AND #9 GAUGE WIRE	EACH	EACH
120 X 48		
120 X 60		
120 X 72		
144 X 48		
144 X 60		
144 X 72		
TOTAL		

ROLL-A-WAY GATES WITH ALL HARDWARE - SCHEDULE 40 PIPE WITH WELDED CORNERS AND #9 GAUGE WIRE	EACH	EACH
16' X 6'		
16' X 8'		
TOTAL		

STEEL BRACE BANDS	CHAIN LINK FENCE	VINYL COATED FENCE
	EACH	EACH
1-3/8" X 3/4"		
1-5/8" X 3/4"		
2" X 3/4"		
2-3/8" X 3/4"		
3" X 3/4"		
4" X 7/8"		
6-5/8" X 7/8"		
8-5/8" X 7/8"		
TOTAL		

BARBWIRE ARMS - 45 OR 90 DEGREE	EACH	EACH
1-5/8" X 1-5/8"		
2" X 1-5/8"		
2-1/2" X 1-5/8"		
TOTAL		

SLEEVES	EACH	EACH
1-3/8" X 6"		
1-5/8" X 6"		
TOTAL		

GRAND TOTAL BID PRICE		
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NAME OF COMPANY

STREET/P. O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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, 2019, to-wit:

ITEM #14 STREET MARKING SIGNS AND SIGN POST

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #14:

**STREET MARKING SIGNS AND SIGN POST FOR THE
CITY OF HATTIESBURG**

The City of Hattiesburg requests bid proposals for furnishing Street Marking Signs and Sign Post for the City of Hattiesburg, which meets or exceeds the following specifications,
to-wit:

The material used to construct the traffic signs shall consist of a finished sign, equal to or better than the 3M Material Scotchlite, High Intensity Prismatic, and on .080 aluminum for the following sizes.

12 X 6	30 TRIANGLE
12 X 12	30 X 36
12 X 18	36 X 12
18 X 18	36 X 24
18 X 18 - 9 BUTTON	36 X 36
END OF ROAD (RED/RED)	36 X 42
OBJECT MARKER (YELLOW/YELLOW)	36 STOP
18 X 24	36 PENTAGON
21 X 15	36 CIRCLE
24 X 8	36 TRIANGLE
24 X 10	36 X 48 X 48 PENNANT
24 X 12	36 X 48
24 X 24	48 X 18
24 STOP	48 X 24
24 PENTAGON	48 X 30
24 M1-5	48 X 48
24 X 36	48 X 60
24 X 30	48 STOP
30 X 18	48 X 9 X 90 SET (X-TRUD)
30 X 30	48 X 9 X 90 SET (R/R .080)
30 STOP	60 X 32
30 PENTAGON	60 X 60
30 CIRCLE	

Quote percentage for adding two or three colors

SCHOOL SIGNS

Diamond Grade Flourescent Yellow Green for the following sizes.

24 X 8
24 X 12
30 X 18
36 X 36

METRO SIGNS

Metro signs are to be .100 gauge aluminum blade 24" high with 12" upper case letters and 9" lower case letters by various lengths, Alloy 5052-H38. The blades shall be covered with a background of #3870 White 3M High Intensity Prismatic Reflective Sheeting with a 1" Margin, 1.5 Corner Radius, and no holes punched. Lettering shall be Upper/Lower Series "C" cut from Series #1177 Green Electronic Cuttable Film in reverse method.

Metro Signs shall be priced by the square foot 24" High by Various Lengths and priced for Single-Sided and Double-Sided.

SIGN POSTS

U-CHANNEL POSTS

GALVANIZED - 2 LBS PER FT

	Quantity	Quantity	Quantity
10'	1 - 50	51 - 100	101 --
12'	1 - 50	51 - 100	101 --

U-CHANNEL POSTS

GALVANIZED - 2.5 LBS PER FT

10'	1 - 50	51 - 100	101 --
12'	1 - 50	51 - 100	101 --

TUBULAR POSTS

GALVANIZED - 2-3/8" O.D.

10'	1 - 50	51 - 100	101 --
12'	1 - 50	51 - 100	101 --

LETTERED AND NON-LETTERED STREET NAME SIGNS:

High Intensity Prismatic - Double Faced

6" EXTRUDED - 18"	9" EXTRUDED - 18"
6" EXTRUDED - 24"	9" EXTRUDED - 24"
6" EXTRUDED - 30"	9" EXTRUDED - 30"
6" EXTRUDED - 36"	9" EXTRUDED - 36"
6" EXTRUDED - 42"	9" EXTRUDED - 42"
6" EXTRUDED - 48"	9" EXTRUDED - 48"
6" EXTRUDED - 54"	9" EXTRUDED - 54"
6" EXTRUDED - 60"	9" EXTRUDED - 60"

FLAT BLADE STREET MARKERS SHALL BE GREEN WITH A WHITE BORDER.

8" FLAT BLADE - 18"	12" FLAT BLADE - 18"	18" FLAT BLADE - 18"
8" FLAT BLADE - 24"	12" FLAT BLADE - 24"	18" FLAT BLADE - 24"
8" FLAT BLADE - 30"	12" FLAT BLADE - 30"	18" FLAT BLADE - 30"
8" FLAT BLADE - 36"	12" FLAT BLADE - 36"	18" FLAT BLADE - 36"
8" FLAT BLADE - 42"	12" FLAT BLADE - 42"	18" FLAT BLADE - 42"
8" FLAT BLADE - 48"	12" FLAT BLADE - 48"	18" FLAT BLADE - 48"
8" FLAT BLADE - 54"	12" FLAT BLADE - 54"	18" FLAT BLADE - 54"
8" FLAT BLADE - 60"	12" FLAT BLADE - 60"	18" FLAT BLADE - 60"

EXTRUDED BRACKETS:

U-CHANNEL POST MOUNT - 91UX & 91UF
TUBULAR POST MOUNT - 922X & 922F
CROSS PIECES - 990X & 990F
ADJUSTABLE CROSS PIECE - VST-6 PLUS
ADJUSTABLE U-CHANNEL CAP - VST-6 PLUS
ADJUSTABLE U-CHANNEL CAP - VST -12 PLUS
ADJUSTABLE CROSS PIECE - VST-12
TUBULAR POST CLAMPS - 2-3/8 OR 2 1/2 O.D. POST
TUBULAR POST CLOSURE CAPS - CLOSURE CAP FOR 2-3/8 O.D.
POST - DOME SHAPED

CABLE MOUNT SIGN BRACKET

CHEVRON ADJUSTABLE BRACKETS (DUAL)

DIE CUT LETTERS & NUMBERS

Characters are to be upper case and lower case, white high intensity prismatic reflective, pressure sensitive material, and packaged in groups of 25 identical pieces.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid. A maximum of thirty (30) days delivery time is required.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
STREET MARKING SIGNS AND SIGN POST
CITY OF HATTIESBURG,, ITEM #14
OPEN 10:00 A.M. THURSDAY, MARCH 9, 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 7th day of February, 2017..

CITY OF HATTIESBURG, MISSISSIPPI

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:



BID PROPOSAL FOR ITEM #14:

FURNISHING STREET MARKING SIGNS AND SIGN POST FOR THE CITY OF HATTIESBURG

Mayor and Council
c/o City Clerk's Office
Post Office box 1898
Hattiesburg, MS 39403-1898

The undersigned Bidder agrees to the terms F.O.B. Hattiesburg, Mississippi, Net forty-five (45) days from date of purchase and delivery, and propose to furnish all sizes of Street Marking Signs and related items, in accordance with specifications on file in the City Clerk's Office, Hattiesburg, Mississippi, per the following four page bid proposal.

It is understood that purchase will be made during the period beginning April 1, 2017, and ending March 31, 2019, as the need occurs and that this bid will cover this entire period.

The Bidder agrees to Invoice all items purchased by the City of Hattiesburg, Mississippi, in accordance with the city's specifications and the attached proposal.

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

ITEM #14: STREET MARKING SIGNS AND SIGN POST FOR THE CITY OF HATTIESBURG

The material used to construct the traffic signs shall consist of a finished sign, equal to or better than the 3M Material Scotchlite, High Intensity, and on .080 aluminum.

Bidder shall have alternate materials approved by the Division Manager of the Traffic Maintenance Division prior to submission of bids.

SIZE	ENGINEER GRADE MATERIAL	HIGH INTENSITY MATERIAL
12 X 6		
12 X 12		
12 X 18		
18 X 18		
18 X 18 - 9 BUTTON		
END OF ROAD (RED/RED)		
OBJECT MARKER (YELLOW/YELLOW)		
18 X 24		
21 X 15		
24 X 8		
24 X 10		
24 X 12		
24 X 24		
24 X 36		
24 STOP		
24 PENTAGON		
24 M1-5		
24 X 30		
30 X 18		
30 X 30		
30 STOP		
30 PENTAGON		
30 CIRCLE		
30 TRIANGLE		
30 X 36		
36 X 12		
36 X 24		
36 X 36		

36 X 42		
36 STOP		
36 PENTAGON		
36 CIRCLE		
36 TRIANGLE		
36 X 48 X 48 PENNANT		
36 X 48		
48 X 18		
48 X 24		
48 X 30		
48 X 48		
48 X 60		
48 STOP		
48 X 9 X 90 SET (X-TRUD)		
48 X 9 X 90 SET (R/R .080)		
60 X 32		
60 X 60		
FOR 2 COLORS ADD:		
FOR 3 COLORS ADD:		
TOTAL		

SCHOOL SIGNS: DIAMOND GRADE FLOURESCENT YELLOW GREEN

SIZE	PRICE
24 X 8	
24 X 12	
30 X 18	
30 X 30	
36 X 36	
TOTAL	

METRO SIGNS SHALL BE PRICED BY THE SQUARE FOOT OF 24" HIGH BY VARIOUS LENGTHS AND PRICED FOR SINGLE SIDED AND DOUBLE SIDED AS FOLLOWS:

SIZE	SINGLE FACED	DOUBLE FACED
24 X 30		
24 X 36		
24 X 42		
24 X 48		
24 X 54		
24 X 60		
24 X 66		
24 X 72		
24 X 78		
24 X 84		
24 X 90		
24 X 96		
24 X 102		
24 X 108		
24 X 114		
24 X 120		
24 X 126		
24 X 132		
24 X 138		

SIGN POSTS

U-CHANNEL POSTS

GALVANIZED - 2 LBS PER FT

10'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA
12'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA

U-CHANNEL POSTS

GALVANIZED - 2.5 LBS PER FT

10'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA
12'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA

TUBULAR POSTS

GALVANIZED - 2-3/8" O.D.

10'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA
12'	1 - 50	\$ _____ EA	51 - 100	\$ _____ EA	101 -	\$ _____ EA

**** IT IS UNDERSTOOD THAT PRICES QUOTED INCLUDE DELIVERY F.O.B. CITY OF HATTIESBURG. A MAXIMUM OF THIRTY (30) DAY DELIVERY TIME IS REQUIRED.

LETTERED STREET NAME SIGNS

HIGH INTENSITY PRISMATIC - DOUBLE FACED

ITEM	UNIT BID PRICE
6" EXTRUDED - 18"	EA
6" EXTRUDED - 24"	EA
6" EXTRUDED - 30"	EA
6" EXTRUDED - 36"	EA
6" EXTRUDED - 42"	EA
6" EXTRUDED - 48"	EA
6" EXTRUDED - 54"	EA
6" EXTRUDED - 60"	
9" EXTRUDED - 18"	EA
9" EXTRUDED - 24"	EA
9" EXTRUDED - 30"	EA
9" EXTRUDED - 36"	EA
9" EXTRUDED - 42"	EA
9" EXTRUDED - 48"	EA
9" EXTRUDED - 54"	EA
9" EXTRUDED - 60"	
TOTAL	

NON-LETTERED STREET NAME SIGNS

HIGH INTENSITY PRISMATIC - DOUBLE FACED

ITEM	UNIT BID PRICE
6" EXTRUDED - 18"	EA
6" EXTRUDED - 24"	EA
6" EXTRUDED - 30"	EA
6" EXTRUDED - 36"	EA
6" EXTRUDED - 42"	EA
6" EXTRUDED - 48"	EA
6" EXTRUDED - 54"	EA
6" EXTRUDED - 60"	
9" EXTRUDED - 18"	EA
9" EXTRUDED - 24"	EA
9" EXTRUDED - 30"	EA
9" EXTRUDED - 36"	EA
9" EXTRUDED - 42"	EA
9" EXTRUDED - 48"	EA
9" EXTRUDED - 54"	EA
9" EXTRUDED - 60"	
TOTAL	

ITEM	UNIT BID PRICE
8" FLAT BLADE - 18"	EA
8" FLAT BLADE - 24"	EA
8" FLAT BLADE - 30"	EA
8" FLAT BLADE - 36"	EA
8" FLAT BLADE - 42"	EA
8" FLAT BLADE - 48"	EA
8" FLAT BLADE - 54"	EA

8" FLAT BLADE – 60"	
12" FLAT BLADE - 18"	EA
12" FLAT BLADE - 24"	EA
12" FLAT BLADE - 30"	EA
12" FLAT BLADE - 36"	EA
12" FLAT BLADE - 42"	EA
12" FLAT BLADE - 48"	EA
12" FLAT BLADE - 54"	EA
12" FLAT BLADE – 60"	
18" FLAT BLADE - 18"	
18" FLAT BLADE - 24"	
18" FLAT BLADE - 30"	
18" FLAT BLADE - 36"	
18" FLAT BLADE - 42"	
18" FLAT BLADE - 48"	
18" FLAT BLADE - 54"	
18" FLAT BLADE - 60"	
TOTAL	

BRACKETS

EXTRUDED BRACKETS	UNIT BID PRICE
U-CHANNEL POST MOUNT - 91UX	EA
U-CHANNEL POST MOUNT - 91UF	
TUBULAR POST MOUNT - 922X	EA
TUBULAR POST MOUNT – 922F	
CROSS PIECES - 990X	EA
CROSS PIECES – 990F	
ADJUSTABLE CROSS PIECE - VST-6 PLUS	EA
ADJUSTABLE U-CHANNEL CAP - VST-6 PLUS	EA
ADJUSTABLE U-CHANNEL CAP - VST-12 PLUS	EA
ADJUSTABLE CROSS PIECE - VST-12	EA
TUBULAR POST CLAMPS - 2-3/8 OR 2½ O.D. POST	EA
TUBULAR POST CLOSURE CAPS - CLOSURE CAP FOR 2-3/8 O.D. POST - DOME SHAPED	EA
CABLE MOUNT SIGN BRACKET	
CHEVRON ADJUSTABLE BRACKETS (DUAL)	EA
VS-Swinger	
TOTAL	

DIE CUT LETTERS & NUMBERS

SIZE AND SERIES	1-24 PKS	25-99 PKS	100+ PKS
2" B-SERIES UPPER CASE			
2" B-SERIES LOWER CASE			
3" C-SERIES UPPER CASE			
3" C-SERIES LOWER CASE			
4" B-SERIES UPPER CASE			
4" B-SERIES LOWER CASE			
4" C-SERIES UPPER CASE			
4" C-SERIES UPPER CASE			
6" C-SERIES UPPER CASE			
6" C-SERIES LOWER CASE			
8" C-SERIES UPPER CASE			
8" C-SERIES LOWER CASE			

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 9, 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, 2019, to-wit:

ITEM #16 UNIFORMS FOR THE HATTIESBURG POLICE DEPARTMENT

ITEM #16A SPORTS SHIRTS FOR THE HATTIESBURG POLICE 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, the 7th day of February, 2017

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #16: UNIFORMS FOR THE HATTIESBURG POLICE DEPARTMENT

Bidder shall bid on furnishing Uniforms for the Hattiesburg Police Department, which meets or exceeds the following specifications, to-wit:

UNIFORM ITEMS

JACKET

Horace Small #HS3350 jacket or equal
100% Nylon
Washable
Two Way Zipper
Elastic Cuff
Waterproof
Zip out liner
Front pockets, silver or gold "p" buttons
Elastic waistband
Equipment access side zippers
Color: Dark Navy

SHIRTS (LONG SLEEVES)

Color navy blue. 100% Dacron polyester. Fast color guaranteed and washable. Permanent press shirt with zipper and collar band. Tapered form fit. Stitched in military creases. Dress style collar. Zipper to be concealed under center flap. Zipper to be a separating zipper with nylon coil, coordinating color for all components, all molded plastic. Inside sling type badge holder inside left front of shirt. Two button hole eyelets to be spaced at the proper interval. To be long sleeve cut straight. Ligne pearlized buttons. Each pocket to engage the tape on the flaps when they are buttoned. Shoulder straps shall be boxed stitched to shoulders with a row of cross stitching. Buttons attached to yokes. Button holes at pointed end, same color as shirt.

Xlarge sizes and above shall have long tails.

SHIRTS (SHORT SLEEVES)

Same specifications as long sleeve but to be short sleeve style.

SHOULDER PATCHES FOR LONG AND SHORT SLEEVED SHIRTS AND JACKETS

Patches will be supplied by the Hattiesburg Police Department. There shall be one patch for each shoulder to be sewn on 1" from the top of the shoulder seam. Patches are to be sewn on left and right shoulder. To be sewn on by the manufacturer or the vendor. There shall be no charge to sew on patches for shirts and jackets

TROUSERS

Flying Cross by Fechhemier #F1 32247 trousers. No substitutions

Color: French Blue

Side Stripe: 3/8" navy stripe sewn on each trouser leg

Fabric: 55% polyester/45% wool

Waistband: must contain Ban-Rol or equal to prevent roll over

Sizes:

Regular Rise: 28-52

Short Rise: 28-40

Long Rise: 32-46

BDU PANTS

Military Style

65% Polyester/35% Cotton Ripstock

Color: Navy Blue, Woodland Camo, Black

FOUL WEATHER GEAR - RAINWEAR

1. Raincoat, vented, yellow. Urethane coated nylon. Full length with slash packets and badge tab. Machine washable.

NOTE: 4" Black block letters screened on rear of raincoat - HATTIESBURG POLICE

MOTORCYCLE BREECHES

Tek's Police 5-Way Stretch Police Breeches - 97% Nylon, 3% Spandex, No substitution

Color: Air Force Blue

Side Striping: 1" Navy Blue

MISCELLANEOUS ITEMS

Ties, French blue, clip and regular tie and extra long. 100% Polyester and washable.

Cap-Summer. Meets specifications of 5 Star summer cap. Military style, round, frame band of all nylon. Color: Navy Blue.

Cap Cover-Summer. Vinyl hat cover/protector, clear, for round style caps

Cap-Dress. Meet specifications of 5 Star command cap. Military style, round, with black velvet band with 2% gold bullion embroidered visor. Color: Navy Blue.

Jackets, Polar Fleece, Black

T-Shirts -100% cotton

Color: Black, White

Sizes Small to XXXLarge.

Turtleneck Shirts - 100% cotton

Color: Black

Long Sleeve

ACCESSORY ITEMS

BOOTS

1. Men's Hi-Tech Magnum Stealth Model 5220 boot - NO SUBSTITUTES
2. Men's Hi-Tech Magnum Mid Cut Model 5248 boot - NO SUBSTITUTES
3. Ladies Hi-Tech Magnum Stealth Model 5151 boot - NO SUBSTITUTES

PACKING AND SHIPPING

Each order to be individually bagged or boxed with officer's name on outside of bag or box

Bag or box is to contain a packing slip to show items shipped or backordered.

WARRANTY

Manufacturer agrees to warrant to the original purchaser that the product will be free from defects in materials and workmanship for a period of one (1) year from date of purchase. The manufacturer agrees to repair or replace at its option any item determined to be defective. This warranty does not cover normal wear and tear, improper cleaning, and damage from chemicals, fire, misuse, accident or negligence. A complete copy of the manufacturer's warranty will be available upon request.

IMPORTANT: The City of Hattiesburg reserves the right to award separate bids for uniform items, motorcycle gear and accessory items as listed herein. All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of bids received, vendors shall bid only on specified item(s) in unit(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. 1 Government Plaza, Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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 THE HATTIESBURG POLICE DEPARTMENT, ITEM #16

SUBMITTED BY THURSDAY, 10:00 A.M. MARCH 9, 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 7th day of February A. D., 2017.

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:



HATTIESBURG POLICE DEPARTMENT

ITEM #16 - UNIFORMS FOR THE HATTIESBURG POLICE DEPARTMENT

UNIFORM ITEMS	COST/EACH
JACKET – AS SPECIFIED	
SMALL TO XLARGE	
XXLARGE TO XXXXLARGE	
SHIRTS (LONG SLEEVE)	
SMALL TO XLARGE	
XXLARGE TO XXXXLARGE	
SHIRTS (SHORT SLEEVE)	
SMALL TO XLARGE	
XXLARGE TO XXXXLARGE	
TROUSERS – AS SPECIFIED	
BDU PANTS	
RAINCOAT-VENTED, YELLOW, URETHANE COATED NYLON	
TIES-FRENCH BLUE, TIE ON	
TIES-FRENCH BLUE, CLIP ON	
CAP (SUMMER) - MILITARY STYLE, NAVY BLUE	
CAP COVER (SUMMER) - CLEAR, ROUND STYLE	
CAP (DRESS) - MILITARY STYLE, NAVY BLUE	
JACKET, POLAR FLEECE, BLACK	
T-SHIRTS – BLACK	
SMALL TO XLARGE	
XXLARGE	
XXXLARGE TO XXXXLARGE	
T-SHIRTS - WHITE	
SMALL TO XLARGE	
XXLARGE	
XXXLARGE TO XXXXLARGE	
TURLENECK SHIRTS-BLACK LONG SLEEVE	
MOTORCYCLE BREECHES	

ACCESSORY ITEMS	COST/EACH
BOOTS (MEN) HI-TECH MAGNUM STEALTH, MODEL 5220	
BOOTS (MEN) HI-TECH MAGNUM MID CUT, MODEL 5248	
BOOTS (LADIES) HI-TECH MAGNUM STEALTH, MODEL 5151	
TOTAL BID PRICE	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

ITEM 16A SPECIFICATIONS FOR: SPORTS SHIRTS FOR THE HATTIESBURG POLICE DEPARTMENT

Bidder shall bid on furnishing Sports Shirts for the Hattiesburg Police Department, which meet or exceed the following specifications, to-wit:

SHORT SLEEVE SHIRTS

Cornerstone #CS410 tactical shirt - no substitutions

Colors: Navy blue and black

Pen slot on left sleeve

Microphone clips at bottom of button placket and on left and right shoulders

Thread colors: Silver and gold and will be specified on order

Embroidery on front of shirt

Thermal Imaging on read

100% cotton shirts are not acceptable

Department will furnish sample shirts with names and lettering to the vendor.

LONG SLEEVE SHIRTS

Cornerstone #CS41OLS tactical shirts. No substitutions.

Same specifications as the short sleeve shirts

PACKING AND SHIPPING

Each order to be individually bagged or boxed with officer's name on outside of bag or box

Bag or box is to contain a packing slip to show items shipped or backordered.

WARRANTY

Manufacturer agrees to warrant to the original purchaser that the product will be free from defects in materials and workmanship for a period of one (1) year from date of purchase. The manufacturer agrees to repair or replace at its option any item determined to be defective. This warranty does not cover normal wear and tear, improper cleaning, and damage from chemicals, fire, misuse, accident or negligence. A complete copy of the manufacturer's warranty will be available upon request.

IMPORTANT: The City of Hattiesburg reserves the right to award separate bids for uniform items as listed herein. All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of bids received, vendors shall bid only on specified item(s) in unit(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be **FIRM** for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. 1 Government Plaza, Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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

ITEM #16A SPORTS SHIRTS FOR THE HATTIESBURG POLICE DEPARTMENT

SUBMITTED BY THURSDAY 10:00 A.M. MARCH 9, 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 7th day of February A. D., 2017.

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:

A handwritten signature in cursive script, appearing to read "Anthony P. Paul", is written over a horizontal line.

HATTIESBURG POLICE DEPARTMENT

SPORT SHIRTS FOR THE HATTIESBURG POLICE DEPARTMENT

SPORT SHIRTS (SHORT SLEEVE) PER SPECS - NO SUBSTITUTIONS	
SPORT SHIRTS (LONG SLEEVE) PER SPECS - NO SUBSTITUTIONS	
SMALL TO XLARGE	
XXLARGE	
XXXLARGE TO XXXXLARGE	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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, 2019, to-wit:

ITEM #25 CONCRETE & BRICK TRANSPORTATION STRUCTURES

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

BY:

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #25: CONCRETE & BRICK TRANSPORTATION STRUCTURES FOR
THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing materials, labor, forms and equipment to install concrete & brick transportation structures for the Engineering Department, which meets or exceeds Mississippi Highway Standard Specifications for Roads & Bridge Construction, 2004, together with all provisions and/or addendums to the standards, amendments and/or special duty approved and adopted.

Bid prices include excavation & subgrade preparation necessary for construction of bid items. Temporary traffic control for construction zones shall be included in bid price and subject to referenced specifications. . Contractor shall follow the Manual on Uniform Traffic Control Devices.

Bidder shall use Street Bond system or approved equal when stamping asphalt. Bidder shall match existing asphalt stamping which is a Street Bond "terra cotta ". Bidder shall include all equipment, paint and other items necessary to properly stamp asphalt.

Sidewalk construction and curb ramps shall meet current ADA Design Guidelines. Appurtenances associated with accessible design, such as detectable warning strips, shall be included in pay item bid prices.

Work performed under the terms of this contract which provides new installation of sanitary and storm sewer shall not exceed one hundred and fifty thousand dollars (\$150,000.00) per project as provided by state law. The City of Hattiesburg reserves the right to bid any and all projects, as determined by the City Engineer and/or Public Works Director, on an individual basis and have said work performed by the successful bidder, or have work performed under this contract, whichever is in the City's best interest.

Pursuant to Section 31-5-51 of the Mississippi Code (Amended) which requires certain vendors have liability insurance, the successful bidder shall furnish to the City of Hattiesburg, before entering into any such contract, proof of general liability insurance coverage in the amount not less than one million dollars

(\$1,000,000.00) for bodily injury and property damage.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning on April 1, 2017, and ending March 31, 2019, 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.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and/or receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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

ITEM #25 CONCRETE & BRICK TRANSPORTATION STRUCTURES

SUBMITTED BY 10:00 A.M. THURSDAY, MARCH 9, 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 7th day of February, 2017.

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:



ENGINEERING DEPARTMENT



PUBLIC WORKS DEPARTMENT

**BID FORM FOR ITEM #25 - CONCRETE AND BRICK TRANSPORTATION STRUCTURES FOR
THE CITY OF HATTIESBURG**

PAY ITEM	UNITS	UNIT PRICE
4" Concrete Sidewalk, Without Reinforcement	S.Y.	
6" Concrete Sidewalk, Without Reinforcement	S.Y.	
Concrete Curb, Header	L.F.	
Combination Concrete Curb & Gutter	L.F.	
Stamping Asphalt	S.Y.	
Roadway Brick Paving Repair, Including 4" Concrete Base & Dry Sand Bedding and Joint Fill; Bricks Provided by Contractor	S.Y.	
Roadway Brick Paving Repair, Including 4" Concrete Base & Dry Sand Bedding and Joint Fill; Bricks Provided by City	S.Y.	
Concrete Driveway, Without Reinforcement	S.Y.	
Concrete Median and/or Island Pavement, 6"	S.Y.	
Imprinted Aggregate Reinforced Preformed Thermoplastic Pavement Markers	S.F.	
Demolition of Curbs	L.F.	
Demolition of Sidewalks	S.Y.	
ADA Ramps(include Truncated dome)	S.Y.	
Select Fill	C.Y.	

Removal of Conc. Structures	SY	
Removal of Concrete curb	L.F.	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & EMAIL

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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 #32 UNIFORM RENTAL SERVICE FOR CITY OF HATTIESBURG
HUB CITY TRANSIT BUS DRIVERS**

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #32: UNIFORM RENTAL SERVICE FOR CITY OF HATTIESBURG
HUB CITY TRANSIT BUS DRIVERS**

Bidder shall bid on furnishing Uniform Rental Service for City of Hattiesburg Hub City Transit Bus Drivers, to include ten (10) employees with eleven (11) sets of uniforms each (pants and shirts) and two (2) jackets each, as listed herein, which meet or exceed the following specifications, to-wit:

UNIFORM PANTS SPECIFICATIONS:

- 65/35 poly/cotton pants – both men's and women's sizes
- Reinforced hook & eye closure with fully functional French Fly tab
- Brass metal memory lock zipper for longer life
- Deep pockets
- Lined belt loops for appearance and added durability
- Color (Navy)

Bidders shall list all sizes available in their bid

UNIFORM SHIRTS SPECIFICATIONS:

- 65/35 poly/cotton shirt (Class A) with epaulette shoulder strap
- Form fitted tailored look designed to fit comfortably
- Pleated pockets with scalloped flaps & Velcro closures
- Five (5) permanent sewn in creases, two in front and three in back
- Seven (7) button placket front
- Durable, double stitched shoulder straps and pocket flaps
- Full badge sling
- Short/Long Sleeves (seasonal)
- Color (Medium Blue or Grey)

Bidders shall list all sizes available in their bid

UNIFORM JACKET SPECIFICATIONS:

- 65% Polyester 35% cotton lined panel front jacket
- Full zipper front
- Heavy brass zipper
- Straight set pockets

Permanent quilted lining with polyurethane fill
Color (Navy)

Bidders shall list all sized available in their bid

GENERAL REQUIREMENTS:

Shirts and jackets must have a total of two (2) patches sewn on each sleeve at no cost to the City. Patches will be supplied by the City.

Weekly laundry pickup, delivery, and uniform maintenance service shall be required for approximately nine (9) employees located within the City of Hattiesburg Hub City Transit Department:

Hub City Transit
1001 South Tipton St
Hattiesburg, MS 39401

The successful vendor shall be responsible for obtaining all sizes of employees covered under this contract as determined by the Division Manager. During this period measurements will be obtained from each employee. The City will not be charged a set up fee.

Replacement of damaged garments shall be at the discretion of the Division Manager. Uniform items returned by the vendor which are determined by the 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 vendor shall be responsible for scheduling deliveries during the weeks in which all holidays are observed by the City, and during additional holidays proclaimed by the Governor.

Each bidder shall submit bid prices utilizing this form. Bidder shall submit prices on a weekly rate only.

UNIFORMS

Uniforms shall be supplied for approximately nine (9) employees.

Weekly Rental Rate - Pants	\$ _____
Weekly Rental Rate - Shirts	\$ _____
Weekly Rental Rate - Jacket	\$ _____

Cost for Non-returned Garments

Pants	\$ _____
Shirts	\$ _____
Jackets	\$ _____

NAME OF COMPANY

STREET/PO ADDRESS

CITY/STATE AND ZIP CODE

PHONE NUMBER AND FAX NUMBER

DATE OF BID

OFFICIAL'S NAME AND TITLE

OFFICIAL'S SIGNATURE

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 bidder's principal legal address, including the City, County, and State.

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.

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.

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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.

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

UNIFORM RENTAL SERVICE FOR CITY OF HATTIESBURG

HUB CITY TRANSIT BUS DRIVERS, ITEM #32

SUBMITTED BY 10:00 A.M. THURSDAY MARCH 9, 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 7th day of February, 2017.

BY: _____

CITY CLERK

SPECIFICATIONS APPROVED BY:


FEDERAL & STATE PROGRAMS

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 9, 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

ITEM #33 CRUSHED CONCRETE

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

**SPECIFICATIONS FOR ITEM #33: CRUSHED CONCRETE
FOR THE CITY OF HATTIESBURG**

Bidder shall bid on furnishing Crushed Concrete for the City of Hattiesburg.

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

PRICES shall be FIRM for a period beginning April 1, 2017, and ending March 31, 2019, 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.

DELIVERY: F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

PAYMENT TERMS: Remittance within forty-five (45) days from satisfactory delivery of goods and receipt of invoice(s).

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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
CRUSHED CONCRETE -
CITY OF HATTIESBURG, ITEM #33
SUBMITTED BY THURSDAY, 10:00 A.M. MARCH 9, 2017**

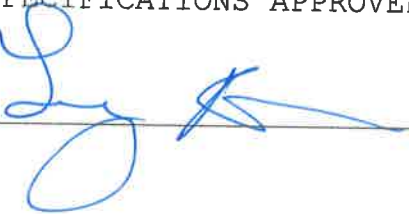
The lowest and best bid received will be accepted, subject to the provisions of Section 31-7-13 of the Mississippi Code of 1972, Annotated as Amended, and other applicable State law; but the Council reserves the right to reject any and all bids received and to waive informalities.

APPROVED on this, the 7TH day of February, 2017.

CITY OF HATTIESBURG

BY: _____
CITY CLERK

SPECIFICATIONS APPROVED BY:

 _____

ITEM #33 - CRUSHED CONCRETE FOR THE PUBLIC SERVICES DEPARTMENT

ITEM	PRICE PER TON
Crushed Concrete	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

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 9, 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, 2019, to-wit:

ITEM #35 TRAFFIC SAFETY ITEMS

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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM #35: TRAFFIC SAFETY ITEMS

Bidder shall bid on furnishing various traffic safety items, which meets or exceeds the following specifications, to-wit:

TRAFFIC CONES

- Flexible Bright Fluorescent Orange PVC
- Size: 18" – 3 lbs.
- Black Base

CHANNELIZER DRUM and TIRE BASE

- Plasticade Econocade II Brand
- High Density Plastic
- 6" Tall High Intensity Orange and White Reflective Stripes
- 8 lbs. – 40.02" H x 22.94" W
- Tire Locking Ring
- Comfort Grip Handle for Secure, Easy Pick-up
- Innovative "Light Ledge" Keeps Light Upright
- 25 lb. Recycled Tire Base (Order Separately)

CHANNELIZER CONE

- Plasticade Navicade Brand
- High Density Polyethylene
- 4" Tall High Intensity Orange and White Reflective Stripes
- 3 lbs. – 49.25 H x 7.6" W
- 16 lb. Recycled Rubber Base Included
- Molded-in Holes for Mounting Lights and Signs

BARRICADE LIGHTS

- Type A, C and 3-way
- Flasher, Steady Burn and Off
- Photo Cell
- Incandescent Bulb
- 6 Volt Battery (Order Separately)

BARRICADE SHEETING

- 50 Yd. Rolls
- 8" Widths
- 6" Stripes (Left and Right)
- Orange and White
- High Intensity Prismatic

INVERTED TIP MARKING PAINT

- Standard and Fluorescent Colors
- Rust-Oleum Industrial Grade Precision Line
- Water-based
- 17-20 oz. Cans
- 12 Cans/Case
- Mix-n-Match Colors in Case
- 34" Marking Wand (Order Separately)

IMPORTANT: All bids shall be submitted utilizing the enclosed bid form furnished by the City of Hattiesburg. To ensure continuity of all bids received, vendors shall bid only on specified item(s) in units(s) of measure listed. Failure to comply will automatically disqualify bid from consideration by the City.

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, 2019, 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.

DELIVERY: Within 7 (seven) to 14 (fourteen) days after issuance of purchase order, F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid.

SEALED bids will be received until 10:00 A.M., Thursday, March 9, 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 items. 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

ITEM #35: TRAFFIC SAFETY ITEMS

SUBMITTED BY 10:00 A.M. MARCH 9, 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 7th day of February, 2017.

CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK

SPECIFICATIONS APPROVED BY:



ITEM #35 - TRAFFIC SAFETY ITEMS

ITEM	UNIT BID PRICE
TRAFFIC CONES	
CHANNELIZER DRUM AND TIRE BASE	
CHANNELIZER CONE	
BARRICAD LIGHTS	
BARRICADE SHEETING	
INVERTED TIP MARKING PAINT	

Name of Company _____

Company Address _____

Company Phone/Fax _____

Company Representative _____
(printed)Company Representative _____
(signature)

Date _____



City of Hattiesburg, MS

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

FILE NUMBER: 2017-182

MEETING DATE: 02/07/2017

MINUTE BOOK NUMBER:

Brief Title: Approve and authorize issuance of manual check for

Title: Approve and authorize issuance of manual check for CDBG Program Claim per the attached memorandum. {Entitlement CDBG}

Type: Action Item

Drafter: Kevin Jordan

In Control: City Council

Reference: La'Keylah
White

Attachments: Manual Check for Millennium Construction - 414 Dumas
Avenue 01.25.17

File
Created: 01/25/2017

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 CDBG Program claims

DATE: January 19, 2017

The following request for payment is being submitted for approval during the City Council's February 7, 2017 meeting. Please authorize and approve issuance of manual check for the claim listed below:

Recipient:	Millennium Construction
Activity:	Substantial Rehabilitation
Program:	CDBG
Project Site:	414 Dumas Avenue
Amount Requested:	\$55,400.00
Purpose of Request:	Final Payment Request
Work Provided by:	Millennium Construction

Hattiesburg-Dumas Ave

Name: Kevin Jordan	Date: 1/1/2017
Address:	Residential Construction
City: Hattiesburg	Phone Number: 228-331-161
Project Address: Dumas Ave	Fax Number: 866-396-3317

Millennium Construction is please to submit the following invoice for furnishing labor, materials and equipment required to complete the below listed items of work.

[illegible]

On behalf of Millennium Construction, we sincerely appreciate the opportunity to provide you with our services. Please contact our office with questions and take the time to review our company.

Reliability Intergrity Knowledgeable Experience Trustworthy

Payment on this invoice is due upon receipt and unless otherwise noted is subject to correction or amendments. This invoice is for completing the job as described above or within attached documentation. It is based on pre agreed upon pricing which may not have included material price increases or additional labor and materials which may be required for unforeseen problems or adverse weather conditions. Any alteration or deviation from previously determined specifications could result in an extra cost. All work will have a 1 year workmanship warranty.

3254 Mallet Road Suite C: D'Iberiville, Mississippi 39540 - Office: (228) 331-1616 - Fax: (866) 396-3317



CITY OF HATTIESBURG

DOCKET OF CLAIMS

Date - 01/27/17

PERIOD ENDING JANUARY 31, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
GENERAL FUND							
00001 A A A AMBULANCE SERVICE	16-64775	HAL	00167367	16002602 SRV 11/18/16 HALL PRISONER	01/31/17	255330	303.60-
A A A AMBULANCE SERVICE							
Sum							303.60-
00001 A 1 FIRE EQUIPMENT	2179		00165404	16002441 FIREFIGHTER SAFETY GEAR	01/31/17	255331	5,026.20-
00001 A 1 FIRE EQUIPMENT	2183		00167056	16002442 FIREFIGHTER BOOTS	01/31/17	255331	245.00-
A 1 FIRE EQUIPMENT							
Sum							5,271.20-
00001 AAMCO TRANS/AUTOMOTIVE S	133869		00165505	16002431 REPRS U#17804 POLICE	01/31/17	255332	316.75-
AAMCO TRANS/AUTOMOTIVE S							
Sum							316.75-
00001 ADAMS NURSERY	804828		00167009	16002584 L'SCAPE MATLS TEMP POLICE DEP	01/31/17	255333	882.00-
ADAMS NURSERY							
Sum							882.00-
00001 AFFORDABLE EMERGENCY LIG	949		00167372	16002670 REPRS VARI POLICE UNITS	01/31/17	255334	425.00-
00001 AFFORDABLE EMERGENCY LIG	942		00167045	16002756 INSTALL BODY CAMERA VARI UNITS	01/31/17	255334	3,315.00-
AFFORDABLE EMERGENCY LIG							
Sum							3,740.00-
00001 ALLBRITTON CHAIN SAW & L	47909		00167319	16002713 EDGER BLADES STREET DEPT	01/31/17	255337	106.00-
00001 ALLBRITTON CHAIN SAW & L	PO#167407 1/		00167407	16002736 SAW CHAINS TORNADO 2017	01/31/17	255337	285.30-
ALLBRITTON CHAIN SAW & L							
Sum							391.30-
00001 AMERICAN PUBLIC WORKS AS	781393	MCKIN	00167387	16002645 DUES MCKINLEY 2/17-1/18	01/31/17	255339	190.00-
AMERICAN PUBLIC WORKS AS							
Sum							190.00-
00001 ANOINTED HANDS SERVICES,	2861		00167386	16002630 SERVS 1/17 EMP MED CLINIC	01/31/17	255341	280.00-
ANOINTED HANDS SERVICES,							
Sum							280.00-
00001 AREA DEVELOPMENT PARTNER	4116	COLEMAN	00167405	16002635 REG COLEMAN LEGISLATIVE DAY	01/31/17	255342	40.00-
AREA DEVELOPMENT PARTNER							
Sum							40.00-
00001 AT&T	601M26684200		00167254	16002417 INTERACT SOFTWARE SUPPORT	01/31/17	255344	6,151.00-
00001 AT&T	601M26491400		00167254	16002418 INTERACT SOFTWARE SUPPORT	01/31/17	255344	47.00-
AT&T							
Sum							6,198.00-
00001 AT&T CAPITAL SERVICES	3002526		00167159	16002361 INTERACT SOFTWARE FOR POLICE	01/31/17	255345	12,556.56-

AT&T CAPITAL SERVICES							
Sum							12,556.56-
00001 AT&T MOBILITY	287273578351	00167470	16002692	WIRELESS BILLING 11-12/16	01/31/17	255346	10,314.19-

AT&T MOBILITY							
Sum							10,314.19-
00001 AUDIO VIDEO SPECIALIST	7502	00166291	16002472	CAMERA SYS TEMP POLICE BLDG	01/31/17	255347	9,710.24-

AUDIO VIDEO SPECIALIST							
Sum							9,710.24-
00001 AUTO ARMATURE SERVICE IN	08567	00167176	16002389	STARTER U#16238 CEMETERY	01/31/17	255348	99.95-
00001 AUTO ARMATURE SERVICE IN	08151	00166618	16002432	BATTERY U#13065 POLICE	01/31/17	255348	132.95-
00001 AUTO ARMATURE SERVICE IN	08433	00166924	16002433	BATTERY U#19704 POLICE	01/31/17	255348	166.95-
00001 AUTO ARMATURE SERVICE IN	08501	00166988	16002434	BATTERY U#19703 POLICE	01/31/17	255348	166.95-

AUTO ARMATURE SERVICE IN							
Sum							566.80-
00001 B CLEAN LLC	3155	00167084	16002764	CHEMICALS DUMPSTERS/SANIT	01/31/17	255349	60.00-

B CLEAN LLC							
Sum							60.00-
00001 BARNEY'S OF LAFAYETTE	22981	00165186	16002440	MAGAZINES FOR OFFICE WEAPONS	01/31/17	255352	973.00-

BARNEY'S OF LAFAYETTE							
Sum							973.00-
00001 BATTERIES PLUS BULBS #63	634-114202	00167268	16002550	STREAMLIGHT BATTERIES	01/31/17	255355	119.96-

BATTERIES PLUS BULBS #63							
Sum							119.96-
00001 BEECH, JANET	TRAV ADVANCE	00167389	16002634	TRAV ADV M/T PROCUREMENT CLS	01/31/17	255357	882.00-

BEECH, JANET							
Sum							882.00-
00001 BENNETT'S LOCK & KEY SHO	65116	00167357	16002703	LOCKS/LATCH PROTECT DISPATCH	01/31/17	255358	130.50-

BENNETT'S LOCK & KEY SHO							
Sum							130.50-
00001 BERNARDO, DEBRA	TRAVEL REIMB	00167422	16002660	EXPNS NIPG CONTRACT ADM CRSE	01/31/17	255359	637.52-

BERNARDO, DEBRA							
Sum							637.52-
00001 BLOSSMAN GAS INC	PO#167099 1/	00167099	16002685	GAS BOTTLES FOR HEAT GUN	01/31/17	255361	99.90-

BLOSSMAN GAS INC							
Sum							99.90-
00001 BOAM	2017 MBRSH	00167540	16002797	2017 MBRSH MITCHELL	01/31/17	255362	300.00-

BOAM							
Sum							300.00-
00001 BODY TECH INC	4750 PO#1668	00166804	16002435	REPRS U#19817 POLICE	01/31/17	255363	2,770.50-
00001 BODY TECH INC	4750 PO#1669	00166947	16002436	REPRS U#19817 POLICE	01/31/17	255363	284.89-

00001 BODY TECH INC	4750 PO#1669	00166991	16002437	REPRS U#18317	POLICE	01/31/17	255363	1,554.14-

BODY TECH INC								
Sum								4,609.53-
00001 BROWNELLS INC	13508396.00	00167113	16002589	GUN CLEANING KITS		01/31/17	255371	178.45-

BROWNELLS INC								
Sum								178.45-
00001 C SPIRE (MEGAGATE)	1011143	00167253	16002416	INTERNET/NETWORK SERV		01/31/17	255373	35,920.61-

C SPIRE (MEGAGATE)								
Sum								35,920.61-
00001 CANON FINANCIAL SERVICES	16914930	00167376	16002616	COPIER 1/1-31/17	PURCHASING	01/31/17	255375	115.00-

CANON FINANCIAL SERVICES								
Sum								115.00-
00001 CANON SOLUTIONS AMERICA	4021138986	00167259	16002412	COPIER MAINT	PURCHASING DEPT	01/31/17	255376	31.62-

CANON SOLUTIONS AMERICA								
Sum								31.62-
00001 CARQUEST AUTO PARTS STOR	14758-82415	00166724	16002373	REPR PTS U#14406	SANIT	01/31/17	255379	50.06-
00001 CARQUEST AUTO PARTS STOR	14758-82417	00166724	16002374	REPR PTS U#14497	TRAFFIC	01/31/17	255379	185.80-
00001 CARQUEST AUTO PARTS STOR	14758-82451	00167049	16002377	REPR PTS U#11302/18907/SHOP		01/31/17	255379	252.81-
00001 CARQUEST AUTO PARTS STOR	14758-82232	00166842	16002382	REPR PTS U#14406/13062	SANIT	01/31/17	255379	90.38-
00001 CARQUEST AUTO PARTS STOR	14758-81510	00165496	16002475	REPR PTS POLICE UNITS/STOCK		01/31/17	255379	575.89-
00001 CARQUEST AUTO PARTS STOR	14758-81504	00165837	16002476	REPR PTS U#18328	POLICE	01/31/17	255379	355.22-
00001 CARQUEST AUTO PARTS STOR	14758-81505	00165841	16002477	REPR PTS VARI POLICE UNITS		01/31/17	255379	677.52-
00001 CARQUEST AUTO PARTS STOR	14758-82982	00166342	16002478	REPR PTS POLICE STOCK		01/31/17	255379	206.96-
00001 CARQUEST AUTO PARTS STOR	14758-82981	00166923	16002479	REPR PTS POLICE STOCK		01/31/17	255379	230.64-
00001 CARQUEST AUTO PARTS STOR	14758-82760	00166994	16002480	REPR PTS POLICE STOCK		01/31/17	255379	143.30-
00001 CARQUEST AUTO PARTS STOR	14758-82463	00167093	16002481	REPR PTS U#19008/STOCK		01/31/17	255379	442.94-
00001 CARQUEST AUTO PARTS STOR	14758-82376	00166163	16002534	REPRS U#14714	HEALTH	01/31/17	255379	386.92-
00001 CARQUEST AUTO PARTS STOR	14758-82938	00167294	16002535	REPR PTS VARI HEALTH UNITS		01/31/17	255379	248.08-
00001 CARQUEST AUTO PARTS STOR	14758-82376	00166163	16002536	REPR PTS U#14714	HEALTH	01/31/17	255379	124.10-
00001 CARQUEST AUTO PARTS STOR	14758-83108	00167331	16002598	SUPP FOR SHOP		01/31/17	255379	33.76-
00001 CARQUEST AUTO PARTS STOR	14758-82593	00167044	16002708	REPR PTS U#14497	TRAFFIC	01/31/17	255379	164.63-
00001 CARQUEST AUTO PARTS STOR	14758-82641	00167044	16002709	GRINDER/BUFF WHEEL SHOP		01/31/17	255379	53.97-
00001 CARQUEST AUTO PARTS STOR	14758-83154	00167043	16002715	REPR PTS U#14515	STREET	01/31/17	255379	303.86-
00001 CARQUEST AUTO PARTS STOR	14758-83146	00167209	16002716	REPR PTS U#13048	STREET	01/31/17	255379	28.72-
00001 CARQUEST AUTO PARTS STOR	14758-83149	00167209	16002717	REPR PTS U#13048	STREET	01/31/17	255379	24.57-
00001 CARQUEST AUTO PARTS STOR	14758-83150	00167209	16002718	REPR PTS SANIT STOCK		01/31/17	255379	195.92-
00001 CARQUEST AUTO PARTS STOR	14758-83153	00167209	16002719	REPR PTS U#19755	SANIT	01/31/17	255379	118.32-
00001 CARQUEST AUTO PARTS STOR	14758-83159	00167218	16002720	REPR PTS U#16081	STREET	01/31/17	255379	17.34-
00001 CARQUEST AUTO PARTS STOR	14758-83158	00167218	16002721	REPR PTS U#9169	STREET	01/31/17	255379	44.72-
00001 CARQUEST AUTO PARTS STOR	14758-83157	00167218	16002722	REPR PTS U#12688	STREET	01/31/17	255379	18.70-
00001 CARQUEST AUTO PARTS STOR	14758-83349	00167469	16002734	SHOP/STOCK SUPP	CEMETERY	01/31/17	255379	49.86-
CARQUEST AUTO PARTS STOR								
Sum								5,024.99-
00001 CARR, RIGGS & INGRAM	16173448	00167529	16002745	PROGRESS BILLING FY '15	AUDIT	01/31/17	255380	25,000.00-

CARR, RIGGS & INGRAM								

Sum							25,000.00-
00001	CERTIFIED LABORATORIES	2558342	00166565	16002556	FUEL ADDITIVES FOR SHOP	01/31/17	255382 4,667.25-
00001	CERTIFIED LABORATORIES	2560746	00166619	16002582	MOTOR OIL POLICE STOCK	01/31/17	255382 1,086.25-
00001	CERTIFIED LABORATORIES	2505823	00165434	16002656	PENETRATING OIL FOR SHOP	01/31/17	255382 414.00-

CERTIFIED LABORATORIES							
Sum							6,167.50-
00001	CHIEF LAW ENFORCEMENT SU	385248	00167110	16002430	NARCOTIC FIELD TEST KITS	01/31/17	255383 223.55-

CHIEF LAW ENFORCEMENT SU							
Sum							223.55-
00001	CITY OF HATTIESBURG FUND TRF 2ND 1/17	02017215	16002407	TRF 2ND 1/17	PAYROLL	01/18/17	111514 1,178,741.86-

CITY OF HATTIESBURG FUND							
Sum							1,178,741.86-
00001	CLEMTS HARDWARE	116872	00167316	16002686	SHOVELS STREET DEPT	01/31/17	255384 339.80-

CLEMTS HARDWARE							
Sum							339.80-
00001	COBURN'S SUPPLY CO INC	609673241	00167011	16002443	HEATER REPLACEMENT FIRE ADM	01/31/17	255386 3,019.21-

COBURN'S SUPPLY CO INC							
Sum							3,019.21-
00001	COMCAST CABLEVISION OF H	095777455960	00167392	16002620	CABLE SERV 1/17 CITY HALL	01/31/17	255387 38.75-
00001	COMCAST CABLEVISION OF H	957762093904	00167417	16002631	INTERNET EMP MED CLINIC	01/31/17	255387 153.70-

COMCAST CABLEVISION OF H							
Sum							192.45-
00001	COMMERCIAL STATIONERY CO	390580-0	00163290	16002483	OFFICE SUPP P/F ACADEMY	01/31/17	255388 398.55-
00001	COMMERCIAL STATIONERY CO	390580-1	00163290	16002484	OFFICE SUPP P/F ACADEMY	01/31/17	255388 49.99-
00001	COMMERCIAL STATIONERY CO	390812-0	00163471	16002485	OFFICE SUPP P/F ACADEMY	01/31/17	255388 119.75-
00001	COMMERCIAL STATIONERY CO	393508-0	00165341	16002486	OFFICE SUPP P/F ACADEMY	01/31/17	255388 275.20-
00001	COMMERCIAL STATIONERY CO	393508-1	00165341	16002487	OFFICE SUPP P/F ACADEMY	01/31/17	255388 51.13-
00001	COMMERCIAL STATIONERY CO	393868-0	00165597	16002488	OFFICE SUPP P/F ACADEMY	01/31/17	255388 101.88-
00001	COMMERCIAL STATIONERY CO	393868-1	00165597	16002489	OFFICE SUPP P/F ACADEMY	01/31/17	255388 52.38-
00001	COMMERCIAL STATIONERY CO	C 390580-0	00163290	16002507	CREDIT	01/31/17	255388 139.39
00001	COMMERCIAL STATIONERY CO	396420-0	00167365	16002615	1099 MISC ENVELOPES ACCTG	01/31/17	255388 104.31-
00001	COMMERCIAL STATIONERY CO	384018-0	00158300	16002737	OFFICE SUPP P/F ACADEMY	01/31/17	255388 165.52-

COMMERCIAL STATIONERY CO							
Sum							1,179.32-
00001	COMPREHENSIVE RADIOLOGY	ICRS68348 AN	00167371	16002603	SRV 11/23/16 ANDERSON PRISONR	01/31/17	255389 209.00-
00001	COMPREHENSIVE RADIOLOGY	ICRS181053 B	00167371	16002604	SRV 11/22/16 BOYKINS PRISONER	01/31/17	255389 44.00-
00001	COMPREHENSIVE RADIOLOGY	23138 GALES	00167371	16002605	SRV 8/16/16 GALES PRISONER	01/31/17	255389 1,096.00-

COMPREHENSIVE RADIOLOGY							
Sum							1,349.00-
00001	COMSOUTH	185440	00167471	16002758	RADIO BATTERIES TRAFFIC DEPT	01/31/17	255390 1,619.25-

COMSOUTH							
Sum							1,619.25-
00001	COPELAND, CHARLES	TRAV ADVANCE	00167549	16002791	TRAV ADV MACE CONF MERIDIAN	01/31/17	255393 92.00-

COPELAND, CHARLES							
Sum							92.00-
00001	COURT PROGRAMS INC	#28	00167487 16002694	ANKLE MONITORS	01/31/17	255395	4,465.00-

COURT PROGRAMS INC							
Sum							4,465.00-
00001	COURTESY MOTORS INC	453751	00165212 16002482	REPR PTS U#17321 POLICE	01/31/17	255396	103.90-

COURTESY MOTORS INC							
Sum							103.90-
00001	COURTNEY'S RESTAURANT EQ	11030	00167162 16002444	ICEMAKER REPR #1 FIRE STA	01/31/17	255397	291.75-

COURTNEY'S RESTAURANT EQ							
Sum							291.75-
00001	COVERT TRACK GROUP, INC	20058	00166397 16002364	TRACKING DEVICES POLICE DEPT	01/31/17	255398	1,605.00-

COVERT TRACK GROUP, INC							
Sum							1,605.00-
00001	CUSTOM PRODUCTS CORP	284379	00167142 16002644	BARRICADES TRAFFIC DEPT	01/31/17	255399	4,993.04-

CUSTOM PRODUCTS CORP							
Sum							4,993.04-
00001	D P S CRIME LAB	90057705	00167341 16002522	FIRE SCENE EVIDENCE ANALYSIS	01/31/17	255401	60.00-
00001	D P S CRIME LAB	90057706	00167356 16002587	ANALYTICAL FEES	01/31/17	255401	1,140.00-

D P S CRIME LAB							
Sum							1,200.00-
00001	DATALINE ASSOCIATES	PCM32482	00167244 16002619	PRINTER SUPP INFO TECH	01/31/17	255402	1,008.36-

DATALINE ASSOCIATES							
Sum							1,008.36-
00001	DUNBAR MONROE PA	16108	00167388 16002621	CABLE FRANCHISE MEET/TRAVEL	01/31/17	255408	2,816.94-

DUNBAR MONROE PA							
Sum							2,816.94-
00001	DUPREE, JOHNNY MAYOR	TRAVEL REIMB	00167501 16002747	EXPNS MAYORS CONF WASHINGTON	01/31/17	255410	416.86-

DUPREE, JOHNNY MAYOR							
Sum							416.86-
00001	ECONOMY SUPPLY CO	264870	00167057 16002362	DOOR CLOSURE CITY HALL FRONT	01/31/17	255411	49.95-
00001	ECONOMY SUPPLY CO	265024	00167175 16002379	A/C SUPP CONSTR DEPT TRUCK	01/31/17	255411	50.35-
00001	ECONOMY SUPPLY CO	264930	00167165 16002386	DOORS/DEADBOLTS KEITH'S BLDG	01/31/17	255411	311.50-
00001	ECONOMY SUPPLY CO	265038	00167204 16002456	DOOR HANDLE/LOCK PINE ST GARG	01/31/17	255411	52.95-
00001	ECONOMY SUPPLY CO	264648	00167134 16002498	LOCKS PUB WORKS-WOOD DOG PARK	01/31/17	255411	145.08-
00001	ECONOMY SUPPLY CO	264793	00167030 16002646	BLDG MATLS ELEC OFFICE CONSTR	01/31/17	255411	681.50-
00001	ECONOMY SUPPLY CO	265497	00167423 16002664	BLDG SUPP M TRANS TORNADO '17	01/31/17	255411	850.13-
00001	ECONOMY SUPPLY CO	265220	00165959 16002680	DESK REPR SUPP MUHAMMAD LDC	01/31/17	255411	126.45-
00001	ECONOMY SUPPLY CO	265346	00167401 16002704	MARKING PAINT TORNADO 2017	01/31/17	255411	118.80-
00001	ECONOMY SUPPLY CO	265759	00167465 16002724	WINDOW P/W DISPATCH TORNADO	01/31/17	255411	93.00-
00001	ECONOMY SUPPLY CO	265678	00167427 16002729	MATLS BOYS/GIRLS CLUB TORNADO	01/31/17	255411	44.78-

ECONOMY SUPPLY CO

Sum									2,524.49-
00001	EMERGENCY EQUIPMENT PROF 424420	00166625	16002491	FIREFIGHTER HELMET BADGES	01/31/17	255413			158.56-
00001	EMERGENCY EQUIPMENT PROF 424480	00166340	16002637	FIREFIGHTER HELMET FRONT	01/31/17	255413			39.64-
00001	EMERGENCY EQUIPMENT PROF 424633	00167352	16002640	REPR PTS U#13933 FIRE DEPT	01/31/17	255413			267.89-

EMERGENCY EQUIPMENT PROF

Sum									466.09-
00001	EMPIRE TRUCK SALES (H'BU CE006118046:	00167089	16002496	REPR PTS U#20503 STREET	01/31/17	255414			75.06-
00001	EMPIRE TRUCK SALES (H'BU CE006118093:	00167212	16002599	REPR PTS U#20091 SANIT	01/31/17	255414			95.86-
00001	EMPIRE TRUCK SALES (H'BU CE006118359:	00167320	16002600	REPR PTS U#19947 SANIT	01/31/17	255414			59.04-

EMPIRE TRUCK SALES (H'BU

Sum									229.96-
00001	ENERGY SYSTEMS SOUTHEASE 0145026-IN	00164629	16002611	GENERATOR AT DEPOT	01/31/17	255415			15,591.00-

ENERGY SYSTEMS SOUTHEASE

Sum									15,591.00-
00001	EQUIFAX INFORMATION SERV 4086969	00167342	16002520	OLINE INVESTIGATIONS POLICE	01/31/17	255416			42.48-

EQUIFAX INFORMATION SERV

Sum									42.48-
00001	EVANS, TERESA WILLIAMS PETTY CASH 1	00167453	16002730	PETTY CASH CONSTR DEPT	01/31/17	255417			519.20-

EVANS, TERESA WILLIAMS

Sum									519.20-
00001	F B I NATIONAL ACADEMY A 31599 SIMS 2	00167364	16002588	MBRSHP DUES SIMS 2017	01/31/17	255418			90.00-

F B I NATIONAL ACADEMY A

Sum									90.00-
00001	FASTENAL COMPANY MSHAT196165	00166936	16002448	WASHERS/NUTS TRAFFIC RESTOCK	01/31/17	255420			163.20-
00001	FASTENAL COMPANY MSHAT196062	00166940	16002453	WORK GLOVES/FLAGGING TAPE	01/31/17	255420			40.60-
00001	FASTENAL COMPANY MSHAT196164	00167038	16002492	REPR PTS VARI FIRE UNITS	01/31/17	255420			61.17-

FASTENAL COMPANY

Sum									264.97-
00001	FEDERAL EXPRESS 5-678-82362	00167474	16002726	SERV 1/9,1/12/17 ENGR DEPT	01/31/17	255421			44.49-

FEDERAL EXPRESS

Sum									44.49-
00001	FEDEX OFFICE AND PRINT S 5-627-84492	00167483	16002697	SERV 11/22/16 FED/STATE PROG	01/31/17	255422			61.96-

FEDEX OFFICE AND PRINT S

Sum									61.96-
00001	FERGUSON ENTERPRISES INC 6407253	00166999	16002380	PLUMB SUPP CONSTR DEPT	01/31/17	255425			70.98-

FERGUSON ENTERPRISES INC

Sum									70.98-
00001	FIRE STORE(WITMER ASSOC 1750074	00167123	16002675	TURNOUT GEAR BAG	01/31/17	255426			63.58-

FIRE STORE(WITMER ASSOC

Sum									63.58-
00001	FORREST CTY SUPERVISORS	JAIL 11/16 E	00167366	16002609	JAIL 11/16 EXPENSES	01/31/17	255427	39,800.00-	
00001	FORREST CTY SUPERVISORS	JAIL 11/16 M	00167366	16002610	JAIL 11/16 MEDICAL	01/31/17	255427	932.52-	

FORREST CTY SUPERVISORS									
Sum									40,732.52-
00001	FORREST GENERAL HOSPITAL	H90066460101	00167368	16002606	SRV 11/23/16 ANDERSON PRISONR	01/31/17	255428	2,555.25-	

FORREST GENERAL HOSPITAL									
Sum									2,555.25-
00001	FV RECYCLING	2017-0011	00167282	16002499	RECYCLE FEE 1/17 SANIT	01/31/17	255430	44.25-	
00001	FV RECYCLING	2017-0012	00167282	16002500	RECYCLE FEE 1/17 SANIT	01/31/17	255430	38.75-	
00001	FV RECYCLING	2017-0003	00167282	16002501	RECYCLE FEE 1/17 SANIT	01/31/17	255430	54.00-	
00001	FV RECYCLING	2017-0004	00167282	16002502	RECYCLE FEE 1/17 SANIT	01/31/17	255430	54.75-	
00001	FV RECYCLING	2017-0002	00167282	16002503	RECYCLE FEE 1/17 SANIT	01/31/17	255430	81.50-	
00001	FV RECYCLING	2016-3871	00167282	16002504	RECYCLE FEE 1/16 SANIT	01/31/17	255430	66.00-	
00001	FV RECYCLING	2016-3872	00167282	16002505	RECYCLE FEE 1/16 SANIT	01/31/17	255430	75.75-	
00001	FV RECYCLING	2017-0064	00167494	16002766	RECYCLE FEES 1/17	01/31/17	255430	158.25-	
00001	FV RECYCLING	2017-0074	00167494	16002767	RECYCLE FEES 1/17	01/31/17	255430	25.50-	

FV RECYCLING									
Sum									598.75-
00001	G & K SERVICES	1035798701	00167202	16002394	UNIFORMS 1/09 TRAFFIC	01/31/17	255436	23.40-	
00001	G & K SERVICES	1035798700	00167202	16002395	UNIFORMSF 1/09 CONSTR	01/31/17	255436	56.91-	
00001	G & K SERVICES	1035798714	00167202	16002396	UNIFORMS 1/09 PUBLIC WORKS	01/31/17	255436	70.20-	
00001	G & K SERVICES	1035798711	00167202	16002397	UNIFORMS 1/09 PUBLIC WORKS	01/31/17	255436	27.30-	
00001	G & K SERVICES	1035798713	00167202	16002398	UNIFORMS 1/09 PUBLIC WORKS	01/31/17	255436	64.53-	
00001	G & K SERVICES	1035798715	00167202	16002399	UNIFORMS 1/09 SHOP	01/31/17	255436	48.40-	
00001	G & K SERVICES	1035798712	00167202	16002400	UNIFORMS 1/09 SANIT	01/31/17	255436	171.10-	
00001	G & K SERVICES	1035798716	00167202	16002401	UNIFORMS 1/09 HEALTH	01/31/17	255436	64.55-	
00001	G & K SERVICES	1035798702	00167203	16002402	MATS 1/09 TRAFFIC	01/31/17	255436	6.40-	
00001	G & K SERVICES	1035798717	00167203	16002403	MOP/MAT 1/09 PUBLIC WORKS	01/31/17	255436	24.80-	
00001	G & K SERVICES	1035798718	00167203	16002404	MOP/MAT 1/09 SANIT	01/31/17	255436	26.65-	
00001	G & K SERVICES	1035798719	00167203	16002405	MATS 1/09 AIRPORT	01/31/17	255436	4.70-	
00001	G & K SERVICES	1035800830	00167338	16002537	UNIFORMS 1/16 TRAFFIC	01/31/17	255436	27.11-	
00001	G & K SERVICES	1035800829	00167338	16002538	UNIFORMS 1/16 CONSTR	01/31/17	255436	77.91-	
00001	G & K SERVICES	1035800843	00167338	16002539	UNIFORMS 1/16 PUBLIC WORKS	01/31/17	255436	77.20-	
00001	G & K SERVICES	1035800840	00167338	16002540	UNIFORMS 1/16 PUBLIC WORKS	01/31/17	255436	27.30-	
00001	G & K SERVICES	1035800842	00167338	16002541	UNIFORMS 1/16 PUBLIC WORKS	01/31/17	255436	64.53-	
00001	G & K SERVICES	1035800844	00167338	16002542	UNIFORMS 1/16 SHOP	01/31/17	255436	48.40-	
00001	G & K SERVICES	1035800841	00167338	16002543	UNIFORMS 1/16 SANIT	01/31/17	255436	171.10-	
00001	G & K SERVICES	1035800845	00167338	16002544	UNIFORMS 1/16 HEALTH	01/31/17	255436	64.55-	
00001	G & K SERVICES	1035800831	00167339	16002545	MATS 1/16 TRAFFIC	01/31/17	255436	6.40-	
00001	G & K SERVICES	1035800846	00167339	16002546	MOP/MAT 1/16 GO&FS	01/31/17	255436	24.80-	
00001	G & K SERVICES	1035800847	00167339	16002547	MOP/MAT 1/16 SANIT	01/31/17	255436	26.65-	
00001	G & K SERVICES	1035800848	00167339	16002548	MATS 1/16 AIRPORT	01/31/17	255436	4.70-	
00001	G & K SERVICES	1035962557	00164109	16002580	FOYER MAT CITY HALL	01/31/17	255436	150.00-	
00001	G & K SERVICES	1035802963	00167525	16002774	UNIFORMS 1/23 PUBLIC WORKS	01/31/17	255436	70.20-	
00001	G & K SERVICES	1035802960	00167525	16002775	UNIFORMS 1/23 PUBLIC WORKS	01/31/17	255436	27.30-	
00001	G & K SERVICES	1035802962	00167525	16002776	UNIFORMS 1/23 PUBLIC WORKS	01/31/17	255436	64.53-	
00001	G & K SERVICES	1035802964	00167525	16002777	UNIFORMS 1/23 SHOP	01/31/17	255436	48.40-	
00001	G & K SERVICES	1035802961	00167525	16002778	UNIFORMS 1/23 SANIT	01/31/17	255436	171.10-	

00001 G & K SERVICES	1035802950	00167525 16002779 UNIFORMS 1/23 SANIT	01/31/17	255436	27.11-
00001 G & K SERVICES	1035802949	00167525 16002780 UNIFORMS 1/22 SANIT	01/31/17	255436	56.91-
00001 G & K SERVICES	1035802965	00167525 16002781 UNIFORMS 1/23 HEALTH	01/31/17	255436	64.55-
00001 G & K SERVICES	1035802951	00167526 16002782 MATS 1/23 TRAFFIC	01/31/17	255436	6.40-
00001 G & K SERVICES	1035802966	00167526 16002783 MOP/MAT 1/23 GO&FS	01/31/17	255436	24.80-
00001 G & K SERVICES	1035802967	00167526 16002784 MOP/MAT 1/23 SANIT	01/31/17	255436	26.65-
00001 G & K SERVICES	1035802968	00167526 16002785 MATS 1/23 AIRPORT	01/31/17	255436	4.70-

G & K SERVICES					
Sum					1,952.24-
00001 GARNER LUMLEY ELECTRIC S	532588	00166961 16002597 ELEC SUPP KAMPER PK BRIDGE	01/31/17	255438	312.13-

GARNER LUMLEY ELECTRIC S					
Sum					312.13-
00001 GEDDIE TREE SERVICE	102	00167476 16002727 DEBRIS REMOVAL 1/21 TORNADO	01/31/17	255439	13,720.00-

GEDDIE TREE SERVICE					
Sum					13,720.00-
00001 GILKEY ELECTRIC SUPPLY C	282332	00165962 16002410 LIGHT BULBS MUN COURT	01/31/17	255440	202.75-

GILKEY ELECTRIC SUPPLY C					
Sum					202.75-
00001 GILLILANDS ELECTRONICS S	63377	00167197 16002358 REPLACE ALARM BATTERIES MAYOR	01/31/17	255443	106.70-

GILLILANDS ELECTRONICS S					
Sum					106.70-
00001 GOV CONNECTION INC	54433225	00166975 16002359 IPAD PRO KEYBOARD CASES	01/31/17	255444	250.70-
00001 GOV CONNECTION INC	54429559	00166931 16002360 NETGEAR SWITCHES	01/31/17	255444	1,844.22-

GOV CONNECTION INC					
Sum					2,094.92-
00001 GRAVES, ROBERT M	372035	00167234 16002682 LOT CLEARING (6) LAND CODE	01/31/17	255445	900.00-

GRAVES, ROBERT M					
Sum					900.00-
00001 GREAT SOUTHERN NATL BANK INV 2016-354		00167313 16002468 PURCHASE CHURCH @ 601 E PINE	01/18/17	111515	70,000.00-

GREAT SOUTHERN NATL BANK					
Sum					70,000.00-
00001 GREEN FOREST NURSERY INC	26956	00167160 16002585 L'SCAPE MATLS TEMP POLICE DEP	01/31/17	255446	3,280.50-

GREEN FOREST NURSERY INC					
Sum					3,280.50-
00001 GULF COAST OFFICE PRODUC	27599-0	00167178 16002426 PAPER/OFFICE SUPP POLICE DEPT	01/31/17	255448	429.48-
00001 GULF COAST OFFICE PRODUC	27594-0	00167179 16002494 OFFICE SUPP LAND CODE	01/31/17	255448	38.82-
00001 GULF COAST OFFICE PRODUC	27616-0	00167235 16002549 MONITOR FILTERS PURCH MANAGER	01/31/17	255448	240.42-
00001 GULF COAST OFFICE PRODUC	27667-0	00167391 16002748 FIRST AID KITS PURCHASING	01/31/17	255448	47.15-
00001 GULF COAST OFFICE PRODUC	27667-1	00167391 16002749 STORAGE CASE PURCHASING	01/31/17	255448	21.40-
00001 GULF COAST OFFICE PRODUC	27668-0	00167394 16002762 OFFICE SUPP ENGR DEPT	01/31/17	255448	403.87-

GULF COAST OFFICE PRODUC					

Sum												1,181.14-
00001	H'BURG CLINIC PA (ACCT#2	4354871		00167169	16002365	PSY TESTS REID/BURSE LATERALS		01/31/17	255449			550.00-

H'BURG CLINIC PA (ACCT#2												
Sum											550.00-	
00001	H'BURG DOWNTOWN ASSN	585126128	WH	00167261	16002420	REG WHITE LUNCHEON 1/19/17		01/31/17	255450		16.37-	
00001	H'BURG DOWNTOWN ASSN	585126128	RU	00167261	16002421	REG RUSSELL LUNCHEON 1/19/17		01/31/17	255450		16.37-	
00001	H'BURG DOWNTOWN ASSN	585126128	WI	00167261	16002422	REG WILLIAMS LUNCHEON 1/19/17		01/31/17	255450		16.37-	
00001	H'BURG DOWNTOWN ASSN	586929900	NE	00167261	16002423	REG NELMS LUNCHEON 1/19/17		01/31/17	255450		16.37-	
00001	H'BURG DOWNTOWN ASSN	585126128	CO	00167261	16002424	REG COLEMAN LUNCHEON 1/19/17		01/31/17	255450		16.37-	
00001	H'BURG DOWNTOWN ASSN	585126128	BR	00167261	16002425	REG BRATCHER LUNCHEON 1/19/17		01/31/17	255450		16.37-	

H'BURG DOWNTOWN ASSN												
Sum											98.22-	
00001	H'BURG HISTORIC NEIGHBOR	2016 CANDLE		00167306	16002474	DOWNTOWN LUMNARIES 2016		01/31/17	255451		1,013.54-	

H'BURG HISTORIC NEIGHBOR												
Sum											1,013.54-	
00001	H'BURG HYDRAULICS INC	67467		00166722	16002383	REPR PTS U#15892 SANIT		01/31/17	255452		247.73-	
00001	H'BURG HYDRAULICS INC	67718		00167408	16002735	REPR PTS U#145856 TORNADO '17		01/31/17	255452		98.10-	

H'BURG HYDRAULICS INC												
Sum											345.83-	
00001	HALL, LAKESHIA		TRAV ADVANCE	00167548	16002792	TRAV ADV MACE CONF MERIDIAN		01/31/17	255454		92.00-	

HALL, LAKESHIA												
Sum											92.00-	
00001	HALL'S ALIGNMENT SERVICE	PO#167255	1/	00167255	16002592	ROTATE/BALANCE TIRES U#15773		01/31/17	255455		80.00-	
HALL'S ALIGNMENT SERVICE												
Sum											80.00-	
00001	HANCOCK BANK TRUST & FIN	1/24/17 DUE		02017259	16002743	MDB 2001 BONDS 12/22/08		01/27/17	111562		2,172.28-	

HANCOCK BANK TRUST & FIN												
Sum											2,172.28-	
00001	HARPER, PATRINA		PETTY CASH 1	00167535	16002752	PETTY CASH POLICE/COURT		01/31/17	255457		39.99-	

HARPER, PATRINA												
Sum											39.99-	
00001	HAVARD PEST CONTROL INC	1088371		02017253	16002771	SRV 1/17 POLICE COMPLEX		01/31/17	255459		125.00-	
00001	HAVARD PEST CONTROL INC	1088381		02017253	16002772	SRV 1/17 #8 FIRE STA		01/31/17	255459		48.00-	
00001	HAVARD PEST CONTROL INC	1088401		02017253	16002773	SRV 1/17 TRAIN DEPOT		01/31/17	255459		85.00-	

HAVARD PEST CONTROL INC												
Sum											258.00-	
00001	HEALTHWORKS LLC	20088210		00167395	16002628	POST ACCIDENT DRUG SCREEN		01/31/17	255460		72.00-	

HEALTHWORKS LLC												
Sum											72.00-	
00001	HILL, LEROY COFFEE CO IN	698089		00167500	16002746	COFFEE SERV M/ADM		01/31/17	255461		68.48-	

HILL, LEROY COFFEE CO IN												

Sum							68.48-
00001 HOLLINGER METAL EDGE	H72044	00166895 16002409 STORAGE BAGS MUN COURT	01/31/17	255463		22.80-	

HOLLINGER METAL EDGE							
Sum							22.80-
00001 HOME DEPOT	5974047	00166825 16002567 WASHING MACHINE #4 FIRE STA	01/31/17	255464		476.10-	
00001 HOME DEPOT	7973898	00166581 16002568 CEILING TILES #1 FIRE STA	01/31/17	255464		224.25-	
00001 HOME DEPOT	8974117	00166898 16002569 WET/DRY VACS TRAFFIC DEPT	01/31/17	255464		297.00-	
00001 HOME DEPOT	1973829	00166519 16002570 PORTABLE HEATERS CONSTR DEPT	01/31/17	255464		99.94-	
00001 HOME DEPOT	8044416	00166630 16002571 PORTABLE HEATERS CONSTR DEPT	01/31/17	255464		199.88-	

HOME DEPOT							
Sum							1,297.17-
00001 HONDA SPORTS CENTER	83238	00167143 16002497 GENERATOR FUEL TANK CONSTR	01/31/17	255465		92.68-	

HONDA SPORTS CENTER							
Sum							92.68-
00001 HUB REFRIGERATION & FIXT	18546	00166993 16002553 REPLACE VENT FANS #1 FIRE STA	01/31/17	255466		429.00-	

HUB REFRIGERATION & FIXT							
Sum							429.00-
00001 HUGHES SUPPLY	S149267947.0	00167191 16002639 AC/HEAT REPR PTS FIRE ADM OFC	01/31/17	255467		114.50-	

HUGHES SUPPLY							
Sum							114.50-
00001 ID SHOP	74635	00167399 16002788 ID BADGE PRINTER RIBBONS	01/31/17	255468		176.30-	

ID SHOP							
Sum							176.30-
00001 INDOFF INC	2903748	00166852 16002366 OFFICE SUPP FIRE DEPT	01/31/17	255470		123.96-	
00001 INDOFF INC	2903750	00166862 16002367 OFFICE SUPP FIRE DEPT	01/31/17	255470		173.98-	
00001 INDOFF INC	2903870	00166934 16002381 OFFICE SUPP SANIT DEPT	01/31/17	255470		489.07-	
00001 INDOFF INC	2903755	00166840 16002385 BINDING SYS RECYCLING PROGRAM	01/31/17	255470		452.41-	
00001 INDOFF INC	2905980	00167008 16002490 JANIT SUPP FIRE DEPT	01/31/17	255470		767.86-	
00001 INDOFF INC	2907069	00167119 16002590 OFFICE SUPP FIRE DEPT	01/31/17	255470		140.83-	
00001 INDOFF INC	2908254	00167193 16002647 OFFICE SUPP CEMETERY	01/31/17	255470		116.33-	

INDOFF INC							
Sum							2,264.44-
00001 INGRAM EQUIPMENT CO LLC	0028854-IN	00166169 16002654 REPR PTS U#13982 STREET	01/31/17	255471		2,342.02-	
00001 INGRAM EQUIPMENT CO LLC	0042405-IN	00166169 16002655 REPR PTS U#13982 STREET	01/31/17	255471		610.33-	

INGRAM EQUIPMENT CO LLC							
Sum							2,952.35-
00001 INTAPOL INDUSTRIES, INC	03120	00165707 16002427 M/C HELMET/BOOTS POLICE	01/31/17	255472		564.97-	
00001 INTAPOL INDUSTRIES, INC	03126	00165707 16002428 M/C BOOTS POLICE	01/31/17	255472		279.99-	

INTAPOL INDUSTRIES, INC							
Sum							844.96-
00001 INTERFACE SECURITY SYSTE	18613089	00167437 16002690 SECURITY 2/17 HILND CEMETERY	01/31/17	255473		33.02-	
00001 INTERFACE SECURITY SYSTE	18622291	00167437 16002691 SECURITY 2/17 SOUTH HILL CEM	01/31/17	255473		29.95-	

INTERFACE SECURITY SYSTE

Sum								62.97-
00001 IRBY, STUART C CO	S009777916.0	00164892	16002508	MATLS LIFE BLDG PROJECT	01/31/17	255474		150.00-
00001 IRBY, STUART C CO	S009778192.0	00164892	16002509	MATLS LIFE BLDG PROJECT	01/31/17	255474		2,221.33-
00001 IRBY, STUART C CO	S009778192.0	00164892	16002510	MATLS LIFE BLDG PROJECT	01/31/17	255474		3,822.00-
00001 IRBY, STUART C CO	S009778192.0	00164892	16002511	MATLS LIFE BLDG PROJECT	01/31/17	255474		28.80-
00001 IRBY, STUART C CO	S009778192.0	00164892	16002512	MATLS LIFE BLDG PROJECT	01/31/17	255474		11.40-
00001 IRBY, STUART C CO	S009778192.0	00164892	16002513	MATLS LIFE BLDG PROJECT	01/31/17	255474		256.00-
00001 IRBY, STUART C CO	S009787700.0	00164892	16002514	MATLS LIFE BLDG PROJECT	01/31/17	255474		1,021.54-
00001 IRBY, STUART C CO	S009787700.0	00164892	16002515	MATLS LIFE BLDG PROJECT	01/31/17	255474		1,546.32-
00001 IRBY, STUART C CO	S009787700.0	00164892	16002516	MATLS LIFE BLDG PROJECT	01/31/17	255474		95.00-
00001 IRBY, STUART C CO	S009983498.0	00167029	16002555	TRAFFIC SIGNAL REPR PTS	01/31/17	255474		926.52-
00001 IRBY, STUART C CO	S009929632.0	00166203	16002659	ELEC SUPP TEMP DISPATCH OFFICE	01/31/17	255474		37.31-

IRBY, STUART C CO

Sum								10,116.22-
00001 J M H GRAPHICS	10254	00166421	16002650	CAPS RECRUIT CLASS #34	01/31/17	255475		138.00-

J M H GRAPHICS

Sum								138.00-
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00001 JACKSON, LEMANDA (REFUND DAMAGE DEP R 02017264	16002741	DAMAGE DEPOSIT REFUND	01/31/17	255478		100.00-
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JACKSON, LEMANDA (REFUND

Sum								100.00-
00001 JORDAN, MARK	TRAV ADVANCE	00167551	16002793	TRAV ADV MACE CONF MERIDIAN	01/31/17	255483		92.00-

JORDAN, MARK

Sum								92.00-
00001 K & K SYSTEMS INC	9347	00167085	16002447	SIGNAL FLASHING BEACONS	01/31/17	255484		973.40-

K & K SYSTEMS INC

Sum								973.40-
00001 KIDD, TYWAN	TRAV ADVANCE	00167550	16002794	TRAV ADV MACE CONF MERIDIAN	01/31/17	255488		92.00-

KIDD, TYWAN

Sum								92.00-
00001 KNOWLES MATERIAL CO.	67293(B)	00166370	16002653	ADDL AMT DUE PO#166082 FRT	01/31/17	255490		155.50-
00001 KNOWLES MATERIAL CO.	67293(A)	00166082	16002657	STRAW BLANKETS/STAPLES P/WRKS	01/31/17	255490		320.00-

KNOWLES MATERIAL CO.

Sum								475.50-
00001 KONE INC (MONTGOMERY KON	949511606	00167304	16002473	MAINT 1-3/17 CITY HALL	01/31/17	255491		1,175.97-

KONE INC (MONTGOMERY KON

Sum								1,175.97-
00001 KRONOS INCORPORATED	11109651-3	00167322	16002518	KRONOS IMPLEMENTATION	01/31/17	255492		9,001.80-

KRONOS INCORPORATED

Sum								9,001.80-
00001 L & A CONTRACTING CO	495-001	00167466	16002728	DEBRIS PUSH BACK 1/21 TORNADO	01/31/17	255493		11,185.75-

L & A CONTRACTING CO

Sum							11,185.75-
00001 LAMAR CTY SHERIFF	JAIL 12/16	00167321	16002530	JAIL 12/16 EXPENSES	01/31/17	255494	140.00-

LAMAR CTY SHERIFF

Sum							140.00-
00001 LARRY'S WRECKER SERVICE	2637	00167448	16002669	TOWING U#19708 TORNADO 2017	01/31/17	255497	55.00-

LARRY'S WRECKER SERVICE

Sum							55.00-
00001 LIBERTY FLAG & SPECIALTY	11160060	00165696	16002750	REPLACE FLAGS TRAIN DEPOT	01/31/17	255499	542.45-

LIBERTY FLAG & SPECIALTY

Sum							542.45-
00001 MCELHANEY PLUMBING INC	252240	00167026	16002387	PLUMB SUPP CEMETERY BREAKROOM	01/31/17	255504	40.00-
00001 MCELHANEY PLUMBING INC	252340	00167105	16002388	PLUMB SUPP CEMETERY BREAKROOM	01/31/17	255504	128.21-
00001 MCELHANEY PLUMBING INC	252348	00167109	16002392	PLUMB SUPP PINE ST GARAGE	01/31/17	255504	96.80-
00001 MCELHANEY PLUMBING INC	252605	00167245	16002454	WASHRACK SUPP SANIT TRUCKS	01/31/17	255504	164.19-

MCELHANEY PLUMBING INC

Sum							429.20-
00001 MCKINLEY, ALLEN	GAS PURCHASE	00167497	16002761	GAS PURCHASE 1/21 TORNADO	01/31/17	255505	47.07-

MCKINLEY, ALLEN

Sum							47.07-
00001 MCMULLAN EQUIPMENT CO	169077P	00166925	16002754	KEY FOB U#17741 POLICE	01/31/17	255506	123.00-
00001 MCMULLAN EQUIPMENT CO	3732351C	00166925	16002755	REPRS U#18330 POLICE	01/31/17	255506	112.69-

MCMULLAN EQUIPMENT CO

Sum							235.69-
00001 MEDICAL ANALYSIS-GHV	10206	00167418	16002632	MANAGEMENT/STAFF EMP CLINIC	01/31/17	255507	29,000.00-
00001 MEDICAL ANALYSIS-GHV	9167457962	00167418	16002633	LAB FEES EMP CLINIC	01/31/17	255507	2,286.87-
00001 MEDICAL ANALYSIS-GHV	10215	00167493	16002698	MANAGEMENT/STAFF EMP CLINIC	01/31/17	255507	29,000.00-
00001 MEDICAL ANALYSIS-GHV	9167919393	00167493	16002699	LAB FEES EMP CLINIC	01/31/17	255507	1,936.26-
00001 MEDICAL ANALYSIS-GHV	91599257	00167493	16002700	SERUMS/VACCINATION EMP CLINIC	01/31/17	255507	85.77-

MEDICAL ANALYSIS-GHV

Sum							62,308.90-
00001 MID SOUTH UNIFORM & SUPP	557014	00166541	16002363	UNIFORM JACKETS/SHIRTS	01/31/17	255510	1,430.00-
00001 MID SOUTH UNIFORM & SUPP	557370	00166718	16002583	UNIFORM SHIRTS VARI POLICE	01/31/17	255510	195.00-

MID SOUTH UNIFORM & SUPP

Sum							1,625.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP JORDA	00167333	16002523	MBRSHP JORDAN 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP MUHUM	00167333	16002524	MBRSHP MUHUMMAD 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP RUSSE	00167333	16002525	MBRSHP RUSSELL 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP HALL	00167333	16002526	MBRSHP HALL 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP COPEL	00167333	16002527	MBRSHP COPELAND 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP KIDD	00167333	16002528	MBRSHP KIDD 3/17-2/18	01/31/17	255515	50.00-
00001 MS ASSN OF CODE ENFORCEM	MBRSHP MYERS	00167333	16002529	MBRSHP MYERS 3/17-2/18	01/31/17	255515	50.00-

MS ASSN OF CODE ENFORCEM

Sum								350.00-
00001 MS EMBROIDERY COMPANY	E 11624	00163016	16002429	CAPS FOR TRAFFIC DEPT	01/31/17	255516		150.01-

MS EMBROIDERY COMPANY								
Sum								150.01-
00001 MS GRASS NURSERY	28262	00166785	16002559	GRASS SOD CEMETERIES	01/31/17	255517		130.00-
00001 MS GRASS NURSERY	28275	00166785	16002560	GRASS SOD CEMETERIES	01/31/17	255517		130.00-

MS GRASS NURSERY								
Sum								260.00-
00001 MS POWER COMPANY	71821-83005	00167182	16002354	ELEC SERV 200 2 PINE COURT	01/31/17	255522		2,399.04-
00001 MS POWER COMPANY	1/14 GENERAL	00020178	16002740	MNTHLY ELEC-GENERAL	01/31/17	255523		100,565.14-
MS POWER COMPANY								
Sum								102,964.18-
00001 MS STATE/DEPT OF HEALTH/	17-116900 GE	00167527	16002744	BOILER INSPECTIONS CITY WIDE	01/31/17	255524		930.00-
00001 MS STATE/DEPT OF HEALTH/	17-116889	00167553	16002787	BOILER INSPECTION A/A MUSEUM	01/31/17	255524		60.00-

MS STATE/DEPT OF HEALTH/								
Sum								990.00-
00001 MS STATE/EMP SECURITY CO	9200131000 1	00167480	16002693	UNEMP CLAIMS 4TH QTR 2016	01/31/17	255525		1,622.35-

MS STATE/EMP SECURITY CO								
Sum								1,622.35-
00001 MS STEAM CLEANING SERVIC	PO#166368 1/	00166368	16002446	HOOD SYS MAINT 6 FIRE STA	01/31/17	255526		1,170.00-

MS STEAM CLEANING SERVIC								
Sum								1,170.00-
00001 MUHAMMAD, AKWETE	TRAV ADVANCE	00167552	16002795	TRAV ADV MACE CONF MERIDIIAN	01/31/17	255527		92.00-

MUHAMMAD, AKWETE								
Sum								92.00-
00001 MULTITECH OFFICE MACHINE	17010389	00167163	16002415	PRINTER SUPP INFO TECH	01/31/17	255528		779.50-
00001 MULTITECH OFFICE MACHINE	17011116	00167442	16002790	PRINTER SUPP INFO TECH	01/31/17	255528		779.60-

MULTITECH OFFICE MACHINE								
Sum								1,559.10-
00001 NAPA AUTO PARTS	556428	00167034	16002493	MAINT SUPP FIRE MECHANIC SHOP	01/31/17	255529		4,834.91-
00001 NAPA AUTO PARTS	557031	00167400	16002705	GENERATOR PTS TORNADO #7 FIRE	01/31/17	255529		336.39-
00001 NAPA AUTO PARTS	557029	00167398	16002731	GREASE CONTROL HANDLE	01/31/17	255529		159.83-

NAPA AUTO PARTS								
Sum								5,331.13-
00001 NATL ASSN OF TOWN WATCH	NNO3674	00167266	16002413	CITY ANNUAL MEMBERSHIP	01/31/17	255531		35.00-

NATL ASSN OF TOWN WATCH								
Sum								35.00-
00001 NATL FIRE PROTECTION ASS	ID#2117041 6	00167228	16002370	ANNUAL MBRSHP FIRE DEPT	01/31/17	255532		175.00-

NATL FIRE PROTECTION ASS								
Sum								175.00-
00001 NEEL-SCHAFFER INC	1042198	00167274	16002452	MS4 PROGRAM MANAGEMENT 2016	01/31/17	255533		5,500.00-

NEEL-SCHAFER INC								-----		
Sum								5,500.00-		
00001	NEIGHBORHOODS USA (NUSA)	MBRSH	COLEM	00167279	16002414	MBRSH	COLEMAN 7/16-6/17	01/31/17	255534	100.00-

NEIGHBORHOODS USA (NUSA)										
Sum								100.00-		
00001	NEWELL PAPER COMPANY	889437		00167092	16002593	RESTROOM SUPP	PUBLIC WORKS	01/31/17	255536	261.47-
00001	NEWELL PAPER COMPANY	889868		00167092	16002594	RESTROOM SUPP	PUBLIC WORKS	01/31/17	255536	32.77-
00001	NEWELL PAPER COMPANY	889986		00167284	16002596	FLOOR STRIPPING	SUPP LIFE CTR	01/31/17	255536	442.73-
00001	NEWELL PAPER COMPANY	884812		00164141	16002612	JANIT SUPP	POLICE DEPT	01/31/17	255536	233.97-
00001	NEWELL PAPER COMPANY	890364		00167402	16002799	PLOTTER PAPER	ENGR DEPT	01/31/17	255536	54.28-

NEWELL PAPER COMPANY										
Sum								1,025.22-		
00001	NORFOLK SOUTHERN CORP	90262802		00167305	16002506	2/17 LEASE	RR ST PK LOT	01/31/17	255539	1,900.00-

NORFOLK SOUTHERN CORP										
Sum								1,900.00-		
00001	OFFICE DEPOT INC	2023590497		00166882	16002355	OFFICE SUPP	PURCHASING DEPT	01/31/17	255540	41.66-
00001	OFFICE DEPOT INC	2014220227		00165402	16002521	OFFICE SUPP	P/F ACADEMY	01/31/17	255540	89.91-
00001	OFFICE DEPOT INC	2008302631		00165551	16002573	OFFICE SUPP	MUN COURT	01/31/17	255540	257.15-
00001	OFFICE DEPOT INC	2008302632		00165983	16002574	DESKS/CHAIRS	CRT ROOM STAFF	01/31/17	255540	934.95-
00001	OFFICE DEPOT INC	2026731530		00167174	16002579	OFFICE SUPP	INFO TECH	01/31/17	255540	194.10-
00001	OFFICE DEPOT INC	1995175307		00164935	16002581	COPY PAPER/OFFICE	SUPP POLICE	01/31/17	255540	433.97-

OFFICE DEPOT INC										
Sum								1,951.74-		
00001	OVERHEAD DOOR CO OF HBUR	79261		00167199	16002643	BAY DOOR REPR	#7 FIRE STA	01/31/17	255542	229.75-

OVERHEAD DOOR CO OF HBUR										
Sum								229.75-		
00001	PALM PROPERTY DEVELOPMEN	MB#2014/198/	02017238	16002406	DL RENEWAL	STATION LEASE	PYMT	01/31/17	255544	1,100.00-

PALM PROPERTY DEVELOPMEN										
Sum								1,100.00-		
00001	PARISH TRACTOR	01-31164		00165905	16002714	REPR PTS U#6248	STREET	01/31/17	255545	1,418.40-
00001	PARISH TRACTOR	01-31719		00165576	16002723	REPRS U#20373	STREET	01/31/17	255545	6,290.66-

PARISH TRACTOR										
Sum								7,709.06-		
00001	PARKER, ANDY (USE 83107-	PETTY CASH 1	00167443	16002688	PETTY CASH	CEMETERY		01/31/17	255546	22.16-

PARKER, ANDY (USE 83107-										
Sum								22.16-		
00001	PAUL ANDERSON ENVIRONMEN	PACOH11817	00167311	16002495	ASBESTOS	INSPECTIONS (5)		01/31/17	255548	2,250.00-

PAUL ANDERSON ENVIRONMEN										
Sum								2,250.00-		
00001	PEARL RIVER VALLEY EPA (	1/17 GENERAL	00020178	16002768	MNTHLY 1/17	PUBLIC SERVICES		01/31/17	255549	1,318.62-

PEARL RIVER VALLEY EPA (										

Sum								1,318.62-
00001	PETAL SHOE SHOP	PO#166725	00166725	16002595	SAFETY BOOTS	01/31/17	255550	150.00-

PETAL SHOE SHOP								
Sum								150.00-
00001	PHILLIPS CAR CARE CENTER 4033		00167310	16002618	REPRS JEEP LIBERTY PLANNING	01/31/17	255552	293.09-

PHILLIPS CAR CARE CENTER								
Sum								293.09-
00001	PINE BELT READY MIX CONC	499072	00165785	16002457	CONCRETE CITY WIDE USE	01/31/17	255554	410.00-
00001	PINE BELT READY MIX CONC	499080	00165785	16002458	CONCRETE CITY WIDE USE	01/31/17	255554	717.50-
00001	PINE BELT READY MIX CONC	500437	00165785	16002459	CONCRETE CITY WIDE USE	01/31/17	255554	2,101.25-
00001	PINE BELT READY MIX CONC	501382	00165785	16002460	CONCRETE CITY WIDE USE	01/31/17	255554	512.50-
00001	PINE BELT READY MIX CONC	501393	00165785	16002461	CONCRETE CITY WIDE USE	01/31/17	255554	205.00-
00001	PINE BELT READY MIX CONC	502009	00165785	16002462	CONCRETE CITY WIDE USE	01/31/17	255554	410.00-
00001	PINE BELT READY MIX CONC	502326	00165785	16002463	CONCRETE CITY WIDE USE	01/31/17	255554	922.50-
00001	PINE BELT READY MIX CONC	502332	00165785	16002464	CONCRETE CITY WIDE USE	01/31/17	255554	410.00-
00001	PINE BELT READY MIX CONC	502564	00165785	16002465	CONCRETE CITY WIDE USE	01/31/17	255554	922.50-
00001	PINE BELT READY MIX CONC	502685	00165785	16002466	CONCRETE CITY WIDE USE	01/31/17	255554	1,486.25-
00001	PINE BELT READY MIX CONC	502904	00165785	16002467	CONCRETE CITY WIDE USE	01/31/17	255554	307.50-
00001	PINE BELT READY MIX CONC	493046	00167513	16002763	ADDL AMT DUE PO#164213	01/31/17	255554	461.25-

PINE BELT READY MIX CONC								
Sum								8,866.25-
00001	PINE BELT REGIONAL SOLID	100006 12/16	00167505	16002765	REFUSE DISPOSAL 12/16 SANIT	01/31/17	255555	38,591.09-

PINE BELT REGIONAL SOLID								
Sum								38,591.09-
00001	PINEBELT DOOR & HARDWARE	12364	00166394	16002368	SECURITY LOCK #6 FIRE STA	01/31/17	255556	555.00-

PINEBELT DOOR & HARDWARE								
Sum								555.00-
00001	POWER PLUS INC	50708	00165984	16002676	CHAINSAW REPR #6 FIRE STA	01/31/17	255561	34.91-

POWER PLUS INC								
Sum								34.91-
00001	PRECISION DELTA CORP	7208	00164580	16002651	TRAINING AMMUNITION P/F ACDMY	01/31/17	255562	2,330.00-
00001	PRECISION DELTA CORP	7894	00164580	16002652	TRAINING AMMUNITION P/F ACDMY	01/31/17	255562	1,137.00-

PRECISION DELTA CORP								
Sum								3,467.00-
00001	PRESLEY, PAUL E	PETTY CASH 6	00167439	16002674	PETTY CASH FIRE DEPT	01/31/17	255563	333.99-

PRESLEY, PAUL E								
Sum								333.99-
00001	PRO TRAVEL INC	DL/HVZ09T BE	00166762	16002408	TKT BERNARDO 5/21-24 IIMC CNF	01/31/17	255564	530.51-

PRO TRAVEL INC								
Sum								530.51-
00001	PUCKETT RENTS	P05C5618348	00167380	16002760	FUEL CAP U#18035 STREET	01/31/17	255566	71.02-

PUCKETT RENTS

Sum								71.02-	
00001	PYLE, MILLS & DYE PA	1292.0006	#2	00167393	16002622	SRVS CITY OF PETAL VS H'BURG	01/31/17	255567	636.75-
00001	PYLE, MILLS & DYE PA	1292.007	#27	00167393	16002623	SRVS FAIRLEY VS CITY	01/31/17	255567	169.00-
00001	PYLE, MILLS & DYE PA	1292.0010	#1	00167393	16002624	SERVS 2015 ANNEXATION	01/31/17	255567	3,040.72-
00001	PYLE, MILLS & DYE PA	1292.0011	#1	00167393	16002625	SERVS SEWER CONTRACTS	01/31/17	255567	813.75-
00001	PYLE, MILLS & DYE PA	1292.0012	#5	00167393	16002626	SERVS 2016 ANNEXATION	01/31/17	255567	26,265.81-
00001	PYLE, MILLS & DYE PA	1292.0013	#5	00167393	16002627	SERVS PETAL 2016 ANNEXATION	01/31/17	255567	748.50-

PYLE, MILLS & DYE PA

Sum									31,674.53-
00001	REGIONS BANK (SANITATION	001-0000902-	02017243	16002393	GARB TRK LEASE DUE 1/17		01/17/17	111513	41,376.52-

REGIONS BANK (SANITATION

Sum									41,376.52-
00001	RICOH CORP	5046382050		00167180	16002356	COPIER 12/1-31/16 HUMAN RES	01/31/17	255568	280.84-
00001	RICOH CORP	5046217450	G	00167318	16002519	PRODUCTION PRINTER CHARGES	01/31/17	255568	377.02-
00001	RICOH CORP	5045846800		00167428	16002677	COPIER 11/1-30/16 LAND CODE	01/31/17	255568	113.75-
00001	RICOH CORP	5045378122		00167431	16002678	COPIER 10/1-30/16 LAND CODE	01/31/17	255568	135.76-
00001	RICOH CORP	5046381332		00167434	16002679	COPIER 12/1-31/16 LAND CODE	01/31/17	255568	104.02-
00001	RICOH CORP	22370285		00167433	16002684	COPIER 2/1-28/17 LAND CODE	01/31/17	255568	110.00-
00001	RICOH CORP	5045846277		00167555	16002789	COPIER 11/1-30/16 HUMAN RES	01/31/17	255568	28.89-

RICOH CORP

Sum									1,150.28-
00001	RJ YOUNG COMPANY	INV1675457		00167295	16002470	COPIER 11/25-12/24/16 COURT	01/31/17	255569	433.56-
00001	RJ YOUNG COMPANY	INV1688282		00167314	16002471	COPIER 12/6-1/5/17 PLANNING	01/31/17	255569	369.00-
00001	RJ YOUNG COMPANY	INV1699847		00167449	16002661	COPIER 12/14-1/13/17 CITY CLK	01/31/17	255569	298.00-
00001	RJ YOUNG COMPANY	INV1697276		00167440	16002687	COPIER 12/14-1/13/17 ENGR	01/31/17	255569	318.00-

RJ YOUNG COMPANY

Sum									1,418.56-
00001	ROGERS, KEVIN & ASSOCIAT	TITLE OPINIO	00167177	16002371	TITLE OPINION LAND CODE		01/31/17	255571	250.00-
00001	ROGERS, KEVIN & ASSOCIAT	TITLE OPINIO	00167430	16002681	TITLE OPINIONS (2) LAND CODE		01/31/17	255571	500.00-

ROGERS, KEVIN & ASSOCIAT

Sum									750.00-
00001	RUSSELL, TRACIE	TRAV ADVANCE	00167547	16002796	TRAV ADV MACE CONF MERIDIAN		01/31/17	255573	92.00-

RUSSELL, TRACIE

Sum									92.00-
00001	RYAN MOTORS INC	253180		00166121	16002668	REPRS U#16754 POLICE	01/31/17	255574	2,629.45-
00001	RYAN MOTORS INC	254077		00166719	16002671	REPRS U#16754 POLICE	01/31/17	255574	246.25-

RYAN MOTORS INC

Sum									2,875.70-
00001	SACKS OUTDOOR SUPPLY	20005		00167358	16002667	SHOES FOR DARYL IN THE SHOP	01/31/17	255576	169.97-

SACKS OUTDOOR SUPPLY

Sum									169.97-
00001	SANSOM EQUIPMENT CO	50018		00166742	16002455	REPRS U#12745 SANIT	01/31/17	255578	3,441.09-

00001 SANSOM EQUIPMENT CO	49992	00166742 16002738 REPRS U#12745 SANIT	01/31/17	255578	3,554.35-
00001 SANSOM EQUIPMENT CO	50017	00166742 16002739 CREDIT	01/31/17	255578	3,554.35-

SANSOM EQUIPMENT CO					
Sum					3,441.09-
00001 SCOTTS HYDRAULIC SERVICE	28005	00167265 16002532 REPRS U#19887 SANIT	01/31/17	255581	1,103.14-
00001 SCOTTS HYDRAULIC SERVICE	28020	00167326 16002601 REPRS U#14409 SANIT	01/31/17	255581	222.00-

SCOTTS HYDRAULIC SERVICE					
Sum					1,325.14-
00001 SETCOM CORPORATION	28265	00165203 16002438 REPR MTRCYCLE HELMETS	01/31/17	255582	255.16-

SETCOM CORPORATION					
Sum					255.16-
00001 SEMPEN, MICHAEL J PLLC	PRO TEM SERV	00167296 16002469 PRO TEM PROSECUTOR MUN COURT	01/31/17	255583	339.66-

SEMPEN, MICHAEL J PLLC					
Sum					339.66-
00001 SIGNS FIRST	H-55973	00164077 16002648 PUBLIC HEARING SIGNS	01/31/17	255588	250.00-
00001 SIGNS FIRST	H-55974	00164077 16002649 PUBLIC HEARING SIGNS	01/31/17	255588	250.00-

SIGNS FIRST					
Sum					500.00-
00001 SOLAR SUPPLY INC	3487739	00167463 16002725 TRANSFORMER PTS SHOP TORNADO	01/31/17	255591	110.99-

SOLAR SUPPLY INC					
Sum					110.99-
00001 SOUTH MS EMERGENCY PHYSI	29764869 BRI	00167369 16002607 SRV 8/18/16 BRISCO PRISONER	01/31/17	255593	841.00-
00001 SOUTH MS EMERGENCY PHYSI	178581371/27	00167369 16002608 SRV 11/29/16 JACKSON PRISONER	01/31/17	255593	585.00-

SOUTH MS EMERGENCY PHYSI					
Sum					1,426.00-
00001 SOUTH MS MARINE (FORMERLY	PO#161290 5/	00161290 16002673 CARTS FOR OUTBOARD MOTORS	01/31/17	255594	185.98-

SOUTH MS MARINE (FORMERLY					
Sum					185.98-
00001 SOUTHERN FINANCIAL SYSTE	CMCHAT2 1/01	02017255 16002613 POLICE FINES COLL.FEE	01/31/17	255595	119.98-
00001 SOUTHERN FINANCIAL SYSTE	CMCHAT3 1/1-	02017256 16002614 POLICE FINES COLL.FEE	01/31/17	255595	1,176.20-

SOUTHERN FINANCIAL SYSTE					
Sum					1,296.18-
00001 SOUTHERN PINE ELECTRIC P	1/17 GENERAL	00020178 16002769 MNTHLY 1/17 PUBLIC SERVICES	01/31/17	255597	1,275.66-

SOUTHERN PINE ELECTRIC P					
Sum					1,275.66-
00001 SOUTHERN PIPE & SUPPLY C	9526324-00	00166546 16002658 CREDIT PO#155309	01/31/17	255598	111.24

SOUTHERN PIPE & SUPPLY C					
Sum					111.24
00001 SOUTHERN TIRE MART #9 (M	9016259	00166418 16002683 FLAT REPR U#14682 LAND CODE	01/31/17	255599	19.95-
00001 SOUTHERN TIRE MART #9 (M	9017436	00167332 16002732 REPR PTS U#18555 SANIT	01/31/17	255599	564.01-

SOUTHERN TIRE MART #9 (M								-----
Sum								583.96-
00001	SOUTHERN TIRE MART LLC	11123498	00167079	16002390	TIRES U#14690 CEMETERY	01/31/17	255600	247.10-
00001	SOUTHERN TIRE MART LLC	11123599	00167126	16002391	TIRE/FLAT REPR U#7868 CEM	01/31/17	255600	52.72-
00001	SOUTHERN TIRE MART LLC	9017389	00167301	16002531	TIRES U#18555 STREET	01/31/17	255600	941.50-
00001	SOUTHERN TIRE MART LLC	11123781	00167291	16002533	TIRES VARI SANIT UNITS	01/31/17	255600	2,850.00-
00001	SOUTHERN TIRE MART LLC	9017104	00166990	16002586	TIRES U#17804 POLICE	01/31/17	255600	932.64-
00001	SOUTHERN TIRE MART LLC	9016477	00166488	16002672	ALIGNMENT/TIRES FOR STOCK	01/31/17	255600	3,024.67-
SOUTHERN TIRE MART LLC								-----
Sum								8,048.63-
00001	SOUTHGROUP (HATTIESBURG	HATTIES-03 1	00167435	16002663	RNWL BOND COMMERCIAL	01/31/17	255601	1,081.00-
00001	SOUTHGROUP (HATTIESBURG	HATTIES-02 1	00167492	16002701	POSITION BOND V JOHNSON	01/31/17	255601	103.00-
SOUTHGROUP (HATTIESBURG								-----
Sum								1,184.00-
00001	STANDARD OFFICE SUPPLY C	0067304-001	00167210	16002372	DESK CALENDARS TRAFF/CONST/PW	01/31/17	255602	53.88-
00001	STANDARD OFFICE SUPPLY C	0066584-001	00166420	16002662	DESK HEATERS CITY CLERKS	01/31/17	255602	179.96-
00001	STANDARD OFFICE SUPPLY C	0066352-001	00166167	16002665	OFFICE SUPP POLICE DEPT	01/31/17	255602	210.37-
00001	STANDARD OFFICE SUPPLY C	0067375-001	00167275	16002666	OFFICE SUPP FOR LIFE	01/31/17	255602	257.64-
00001	STANDARD OFFICE SUPPLY C	0067102-001	00166977	16002695	OFFICE SUPP RISK MGMT	01/31/17	255602	56.79-
00001	STANDARD OFFICE SUPPLY C	0067443-001	00166977	16002696	OFFICE SUPP RISK MGMT	01/31/17	255602	24.49-
STANDARD OFFICE SUPPLY C								-----
Sum								783.13-
00001	STRIBLING EQUIPMENT CO L	CS006083834:	00157186	16002798	REPR PTS U#20152 STREET	01/31/17	255606	97.65-
STRIBLING EQUIPMENT CO L								-----
Sum								97.65-
00001	SUNBELT FIRE INC	302275	00167024	16002445	REPRS U#15064 FIRE DEPT	01/31/17	255608	847.65-
00001	SUNBELT FIRE INC	302457	00167237	16002554	REPR PTS U#15064 FIRE DEPT	01/31/17	255608	162.57-
00001	SUNBELT FIRE INC	109452	00167237	16002561	BAL STMT	01/31/17	255608	341.78-
00001	SUNBELT FIRE INC	110521	00167237	16002562	BAL STMT	01/31/17	255608	341.78
SUNBELT FIRE INC								-----
Sum								1,010.22-
00001	TAW POWER SYSTEMS, INC	26106219	00167459	16002707	GENERATOR REPR TORNADO #7FIRE	01/31/17	255609	677.48-
TAW POWER SYSTEMS, INC								-----
Sum								677.48-
00001	TEMPLE INC	INV0159990	00167054	16002757	TRAFFIC LIGHT BULBS	01/31/17	255610	2,100.00-
TEMPLE INC								-----
Sum								2,100.00-
00001	TRUCKPRO INC	039-0621210	00167185	16002384	REPR PTS VARI SANIT UNITS	01/31/17	255614	1,657.30-
TRUCKPRO INC								-----
Sum								1,657.30-
00001	TRUCKS PLUS AUTO ACCESSO	34391	00167164	16002558	REPR PTS U#15963 HEALTH	01/31/17	255615	79.00-
TRUCKS PLUS AUTO ACCESSO								-----

Sum									79.00-
00001	TRUSTMARK BUSINESS CARD	2010 DUPREE	00167359 16002575	REG LEGISLATIVE DAY 1/5/17	01/31/17	255616			40.00-
00001	TRUSTMARK BUSINESS CARD	2010 DUPREE	00167359 16002576	FUEL 12/12/16 & 12/17/16	01/31/17	255616			40.00-
00001	TRUSTMARK BUSINESS CARD	2010 DUPREE	00167359 16002577	REG NLC 3/11-15/17 WASHINGTON	01/31/17	255616			480.00-
00001	TRUSTMARK BUSINESS CARD	2010 DUPREE	00167359 16002578	FINANCE CHARGE	01/31/17	255616			10.84-

TRUSTMARK BUSINESS CARD									
Sum									570.84-
00001	TYLER TECHNOLOGIES INC	025-178453	00167258 16002419	IG WORKFORCE SUPPORT/MAINT	01/31/17	255617			1,258.95-

TYLER TECHNOLOGIES INC									
Sum									1,258.95-
00001	U P S STORE, THE (HATTIE PO#167224 1/		00167224 16002411	SHIP H'BURG READS ED BOOKS	01/31/17	255618			193.82-

U P S STORE, THE (HATTIE									
Sum									193.82-
00001	ULINE	83680546	00167343 16002753	EVIDENCE BOXES	01/31/17	255619			577.35-

ULINE									
Sum									577.35-
00001	UNDERWOOD OUTDOOR POWER, 36880		00167256 16002591	REPR PTS U#11929 FIRE DEPT	01/31/17	255620			72.39-
00001	UNDERWOOD OUTDOOR POWER, 36973		00167397 16002706	GENERATOR REPR PTS TORNADO	01/31/17	255620			102.28-

UNDERWOOD OUTDOOR POWER,									
Sum									174.67-
00001	UNITED FENCE COMPANY	00017909	00166297 16002557	FENCE GATE REMOTES	01/31/17	255621			60.00-

UNITED FENCE COMPANY									
Sum									60.00-
00001	UNITED PARCEL SERVICE IN 00008E1Y1501		00167252 16002439	LATE PAYMENT FEE	01/31/17	255622			1.43-

UNITED PARCEL SERVICE IN									
Sum									1.43-
00001	UNIVERSITY TIRE & SERVIC 501836		00167042 16002378	TIRES U#17017 STREET	01/31/17	255623			273.84-

UNIVERSITY TIRE & SERVIC									
Sum									273.84-
00001	VERIZON WIRELESS	9778743008	00167534 16002751	SERV 12/16-1/15 FED/STATE	01/31/17	255626			40.01-

VERIZON WIRELESS									
Sum									40.01-
00001	VERMEER MIDSOUTH INC "c 00302993		00167181 16002689	REPR PTS U#20316 CLIPPER	01/31/17	255627			152.25-

VERMEER MIDSOUTH INC "c									
Sum									152.25-
00001	VERONICA CREATIVE DESIGN #0004		00164738 16002786	VIDEO CITY PROMO USM GAMES	01/31/17	255628			200.00-

VERONICA CREATIVE DESIGN									
Sum									200.00-
00001	VULCAN MATERIALS CO	50250221	00166957 16002710	RIP RAP PUBLIC WORKS	01/31/17	255629			658.80-
00001	VULCAN MATERIALS CO	50252407(A)	00166957 16002711	RIP RAP PUBLIC WORKS	01/31/17	255629			3,741.20-

00001 VULCAN MATERIALS CO	50252407(B)	00167429 16002712 ADDL AMT DUE PO#166957	01/31/17	255629	54.10-
00001 VULCAN MATERIALS CO	50245301	00166582 16002759 LIMESTONE PUBLIC WORKS	01/31/17	255629	3,391.50-

VULCAN MATERIALS CO					
Sum					7,845.60-
00001 WAL-MART STORES INC	003779	00166897 16002564 JANIT SUPP CITY HALL	01/31/17	255630	63.63-
00001 WAL-MART STORES INC	006875	00166623 16002565 OFFICE SUPP POLICE DEPT	01/31/17	255630	140.46-
00001 WAL-MART STORES INC	005553	00167027 16002566 PHONE SYSTEM #7 FIRE STA	01/31/17	255630	119.00-
00001 WAL-MART STORES INC	003780	00166896 16002572 JANIT SUPP/FRIDGE PK GARAGES	01/31/17	255630	141.72-
00001 WAL-MART STORES INC	007582	00166583 16002636 REFRESHMNTS FIRE RECRUIT CLS	01/31/17	255630	95.73-

WAL-MART STORES INC					
Sum					560.54-
00001 WANSLEY'S MACHINE & DRIV	38056	00167198 16002451 REPR PTS U#14715 STREET	01/31/17	255631	75.00-

WANSLEY'S MACHINE & DRIV					
Sum					75.00-
00001 WARREN PAVING INC	25961MB	00166588 16002376 CRUSHED CONCRETE STREET DEPT	01/31/17	255632	2,661.12-

WARREN PAVING INC					
Sum					2,661.12-
00001 WASTE MANAGEMENT OF SOUT	0009561-2562	00167489 16002733 WASTE DISPOSAL SANIT DEPT	01/31/17	255634	5,756.74-

WASTE MANAGEMENT OF SOUT					
Sum					5,756.74-
00001 WATCH GUARD VIDEO	SRINV0014649	00162680 16002551 SYS REPR/EXTRACTION U#18330	01/31/17	255635	274.00-
00001 WATCH GUARD VIDEO	SRINV0015315	00165210 16002552 SYSTEM REPR U#19345 POLICE	01/31/17	255635	125.00-
00001 WATCH GUARD VIDEO	BCMINV000245	00162302 16002563 VIDEO SYSTEMS/VISTA HD POLICE	01/31/17	255635	113,280.00-

WATCH GUARD VIDEO					
Sum					113,679.00-
00001 WHEELER'S JANITORIAL SUP	040219	00167090 16002375 PAPER TOWELS RESTROOMS	01/31/17	255639	72.40-
00001 WHEELER'S JANITORIAL SUP	040217	00167166 16002449 PAPER TOWEL DISPENSERS	01/31/17	255639	60.00-
00001 WHEELER'S JANITORIAL SUP	040218	00167217 16002450 ADDL PAPER TOWEL DISPENSERS	01/31/17	255639	60.00-

WHEELER'S JANITORIAL SUP					
Sum					192.40-
00001 WHITE LENOIR, LA'KEYLAH	TRAVEL REIMB	00167482 16002702 EXPNS MBCLEO CONF JACKSON	01/31/17	255640	203.52-

WHITE LENOIR, LA'KEYLAH					
Sum					203.52-
00001 WILLMUT GAS & OIL COMPAN	1/17 GENERAL	00020178 16002770 MNTHLY GAS-GENERAL	01/31/17	255643	2,874.87-

WILLMUT GAS & OIL COMPAN					
Sum					2,874.87-
00001 WORKWELL SERVICES (NEW V	31258	00167189 16002369 PHYSICAL FIRE RECRUIT	01/31/17	255645	275.00-
00001 WORKWELL SERVICES (NEW V	31339	00167396 16002629 POST ACCIDENT DRUG SCREEN	01/31/17	255645	83.00-

WORKWELL SERVICES (NEW V					
Sum					358.00-
00001 WRITEGUARD BUSINESS SYST	00161761	00167404 16002617 W-2 TAX FORMS HUMAN RESOURCES	01/31/17	255646	246.00-

WRITEGUARD BUSINESS SYST
Sum

246.00-

2,038,483.75-

Sum

CITY OF HATTIESBURG

DOCKET OF CLAIMS

PERIOD ENDING JANUARY 31, 2017

Date - 01/27/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
PARKS & RECREATION FUND							
00002 A & R FARM AND GARDEN	320749	00167315	16000481	FIRE ANT POISON CITY WIDE USE	01/31/17	255329	336.00-
A & R FARM AND GARDEN							
Sum							336.00-
00002 AGRI-AFC LLC	5300196	00167239	16000439	WEED KILLER LANDSCAPE CREWS	01/31/17	255335	192.00-
AGRI-AFC LLC							
Sum							192.00-
00002 ALLBRITTON CHAIN SAW & L	47726	00166902	16000430	CARBURATORS FOR BLOWERS	01/31/17	255337	221.20-
ALLBRITTON CHAIN SAW & L							
Sum							221.20-
00002 ANDERSON RETAIL INC	124615	00165450	16000415	RECEPTION FURNITURE REC OFFC	01/31/17	255340	850.00-
ANDERSON RETAIL INC							
Sum							850.00-
00002 AT&T MOBILITY	287273578351	00167470	16000443	WIRELESS BILLING 11-12/16	01/31/17	255346	550.19-
AT&T MOBILITY							
Sum							550.19-
00002 AUTO ARMATURE SERVICE IN	08339	00166834	16000416	BATTERY U#18474 TRACTOR	01/31/17	255348	117.65-
00002 AUTO ARMATURE SERVICE IN	08646	00167219	16000431	BATTERY U#18478	01/31/17	255348	54.95-
AUTO ARMATURE SERVICE IN							
Sum							172.60-
00002 B S N SPORTS	98646885	00166930	16000448	NETS/PADS TATUM/TMBRTN TENNIS	01/31/17	255350	4,573.68-
B S N SPORTS							
Sum							4,573.68-
00002 BRACKMAN MOWER WAREHOUSE	22616	00167240	16000425	MOTOR OIL FOR MOWERS	01/31/17	255366	153.00-
00002 BRACKMAN MOWER WAREHOUSE	22524	00167096	16000432	WEDEATER STRING	01/31/17	255366	311.60-
00002 BRACKMAN MOWER WAREHOUSE	22537	00167097	16000433	REPRS U#14980 MOWER	01/31/17	255366	816.90-
BRACKMAN MOWER WAREHOUSE							
Sum							1,281.50-
00002 BROWN, BRAXTON	SPORTS SERV	02017268	16000472	SPORTS SUPPORT SERVICES	01/31/17	255369	96.00-
BROWN, BRAXTON							
Sum							96.00-
00002 CARQUEST AUTO PARTS STOR	14758-82876	00167241	16000426	TUBE GREASE FOR EQUIPMENT	01/31/17	255379	42.90-
CARQUEST AUTO PARTS STOR							
Sum							42.90-
00002 CITY OF HATTIESBURG FUND TRF 2ND 1/17	02017215	16000420	TRF 2ND 1/17	PAYROLL	01/18/17	311252	64,621.45-

CITY OF HATTIESBURG FUND

Sum							64,621.45-
00002 CONNER, TOBARRA	SPORTS SERVS	02017268	16000473	SPORTS SUPPORT SERVICES	01/31/17	255391	60.00-

CONNER, TOBARRA							60.00-
Sum							216.75-
00002 COURTNEY'S RESTAURANT EQ	11046	00167263	16000427	ICE MACHINE REPR TATUM GRNDS	01/31/17	255397	-----
COURTNEY'S RESTAURANT EQ							216.75-
Sum							266.17-
00002 ELKINS WHOLESALE INC	301914-00	00167238	16000424	JANIT SUPP GRNDS MAINT	01/31/17	255412	-----
ELKINS WHOLESALE INC							266.17-
Sum							109.06-
00002 FERGUSON ENTERPRISES INC	6429091	00167222	16000442	WTR COOLER PTS TATUM SOCCER	01/31/17	255425	-----
FERGUSON ENTERPRISES INC							109.06-
Sum							5.10-
00002 G & K SERVICES	1035794438	00167533	16000462	MATS 12/26 GRNDS MAINT	01/31/17	255436	5.10-
00002 G & K SERVICES	1035796605	00167533	16000463	MATS 1/02 GRNDS MAINT	01/31/17	255436	5.10-
00002 G & K SERVICES	1035798731	00167533	16000464	MATS 1/09 GRNDS MAINT	01/31/17	255436	5.10-
00002 G & K SERVICES	1035802980	00167533	16000465	MATS 1/23 GRNDS MAINT	01/31/17	255436	5.10-
00002 G & K SERVICES	1035794437	00167533	16000466	UNIFORMS 12/26 GRNDS MAINT	01/31/17	255436	123.37-
00002 G & K SERVICES	1035796604	00167533	16000467	UNIFORMS 1/02 GRNDS MAINT	01/31/17	255436	109.37-
00002 G & K SERVICES	1035798730	00167533	16000468	UNIFORMS 1/09 GRNDS MAINT	01/31/17	255436	123.37-
00002 G & K SERVICES	1035802979	00167533	16000469	UNIFORMS 1/23 GRNDS MAINT	01/31/17	255436	109.37-

G & K SERVICES							485.88-
Sum							48.00-
00002 HAVARD PEST CONTROL INC	1088417	02017253	16000459	SSRV 1/17 MAINT BLDG	01/31/17	255459	48.00-
00002 HAVARD PEST CONTROL INC	1088418	02017253	16000460	SRV 1/17 CARPENTER SHOP	01/31/17	255459	48.00-
00002 HAVARD PEST CONTROL INC	1088382	02017253	16000461	SRV 1/17 DAHMER POOL	01/31/17	255459	48.00-

HAVARD PEST CONTROL INC							144.00-
Sum							383.85-
00002 INDOFF INC	2905213	00167002	16000445	PRINTER SUPP GRNDS MAINT	01/31/17	255470	-----
INDOFF INC							383.85-
Sum							3,245.00-
00002 JACKSON, ROOSEVELT III	120196	00167076	16000435	PAINT BLDG/RESTRM TATUM TENNS	01/31/17	255479	2,765.00-
00002 JACKSON, ROOSEVELT III	120197	00167286	16000436	WASH/TOUCHUP TATUM SOCCER PAV	01/31/17	255479	-----
JACKSON, ROOSEVELT III							6,010.00-
Sum							565.25-
00002 JERRY'S AUTOMOTIVE REPAI	18287	00167220	16000428	REPRS U#18569	01/31/17	255481	52.80-
00002 JERRY'S AUTOMOTIVE REPAI	18288	00167236	16000429	REPR PTS U#18569	01/31/17	255481	-----
JERRY'S AUTOMOTIVE REPAI							618.05-
Sum							64.00-
00002 JORDAN, DEXTER JR	SPORTS SERVS	02017268	16000474	SPORTS SUPPORT SERVICES	01/31/17	255482	

JORDAN, DEXTER JR							
Sum							64.00-
00002	KEELING COMPANY (HATTIES	S3111025.001	00165632	16000422	SPRINKLER HEADS TATUM SOFTBAL	01/31/17 255485	640.94-

KEELING COMPANY (HATTIES							
Sum							640.94-
00002	KETTLEY, ANNETTE		SPORTS SERVS	02017268	16000475	SPORTS SUPPORT SERVICES	01/31/17 255486 52.00-

KETTLEY, ANNETTE							
Sum							52.00-
00002	KETTLEY, VERONICA		SPORTS SERVS	02017268	16000476	SPORTS SUPPORT SERVICES	01/31/17 255487 52.00-

KETTLEY, VERONICA							
Sum							52.00-
00002	KINSEY WELDING	4936		00167508	16000456	SOCCER GOALS TATUM TORNADO	01/31/17 255489 780.00-

KINSEY WELDING							
Sum							780.00-
00002	LARRY'S WRECKER SERVICE	1383		00167452	16000453	TOWING U#8647	01/31/17 255497 65.00-

LARRY'S WRECKER SERVICE							
Sum							65.00-
00002	LIBERTY FLAG & SPECIALTY	12160080		00166690	16000440	HATTIESBURG FLAGS	01/31/17 255499 996.02-
00002	LIBERTY FLAG & SPECIALTY	12160080	FRT	00167346	16000441	FREIGHT CHG OVERAGE PO#166690	01/31/17 255499 24.95-

LIBERTY FLAG & SPECIALTY							
Sum							1,020.97-
00002	MCMULLAN EQUIPMENT CO	169074P		00167196	16000449	REPR PTS U#18569	01/31/17 255506 199.76-

MCMULLAN EQUIPMENT CO							
Sum							199.76-
00002	MID SOUTH GLASS INC	0043527		00167221	16000450	LEXAN WINDOWS TMBRTN/TATUM	01/31/17 255509 2,014.00-

MID SOUTH GLASS INC							
Sum							2,014.00-
00002	MS POWER COMPANY	1/17	PKS/REC	00020178	16000454	MNTHLY ELEC-PARKS & REC	01/31/17 255520 12,115.73-

MS POWER COMPANY							
Sum							12,115.73-
00002	MS STATE/DEPT OF HEALTH/	17-116900	PA	00167527	16000455	BOILER INSPECTIONS VARI LOC	01/31/17 255524 180.00-
00002	MS STATE/DEPT OF HEALTH/	17-116920		00167532	16000457	BOILER INSPECTIONS V DAHMER	01/31/17 255524 60.00-

MS STATE/DEPT OF HEALTH/							
Sum							240.00-
00002	MS STATE/EMP SECURITY CO	9200131000	1	00167480	16000444	UNEMP CLAIMS 4TH QTR 2016	01/31/17 255525 2,860.00-

MS STATE/EMP SECURITY CO							
Sum							2,860.00-
00002	NATIONAL INTRAMURAL ACTI	1002		00167225	16000419	MIBL PLAYER MEMBER FEES	01/31/17 255530 894.00-

NATIONAL INTRAMURAL ACTI									
Sum									894.00-
00002	NEWELL PAPER COMPANY	889603	00167150	16000437	FLOOR WAX REC OFFICE	01/31/17	255536	82.22-	

NEWELL PAPER COMPANY									
Sum									82.22-
00002	PINE BELT READY MIX CONC	498138/49875	00167223	16000421	CONCRETE OVERAGE DOG PARK	01/31/17	255554	901.75-	

PINE BELT READY MIX CONC									
Sum									901.75-
00002	PIONEER MANUFACTURING CO	INV606841	00167283	16000423	ADDL AMT DUE PO#159663	01/31/17	255558	62.50-	
00002	PIONEER MANUFACTURING CO	INV623863	00166624	16000434	PAINT STRIPER REPR PTS	01/31/17	255558	208.90-	

PIONEER MANUFACTURING CO									
Sum									271.40-
00002	PLAY IT AGAIN SPORTS	PO#165892 12	00165892	16000418	JERSEYS YTH BASKETBALL MCNAIR	01/31/17	255559	5,000.00-	

PLAY IT AGAIN SPORTS									
Sum									5,000.00-
00002	POWELL, RANDY	SPORTS SERVS	02017268	16000477	SPORTS SUPPORT SERVICES	01/31/17	255560	52.00-	

POWELL, RANDY									
Sum									52.00-
00002	SANFORD, JOHN L JR INC	49528	00166854	16000446	TOPSOIL DOG PARK	01/31/17	255577	400.00-	
00002	SANFORD, JOHN L JR INC	49529	00167144	16000447	TOPSOIL DOG PARK	01/31/17	255577	800.00-	

SANFORD, JOHN L JR INC									
Sum									1,200.00-
00002	SOUTHERN TIRE MART #9 (M	9017550	00167381	16000482	TIRE/REPR U#9905 GRNDS MAINT	01/31/17	255599	621.73-	

SOUTHERN TIRE MART #9 (M									
Sum									621.73-
00002	STEWART, LARRY	SPORTS SERVS	02017268	16000478	SPORTS SUPPORT SERVICES	01/31/17	255604	428.00-	

STEWART, LARRY									
Sum									428.00-
00002	TAW POWER SYSTEMS, INC	26106284(A)	00167457	16000451	GENERATOR REPR MCNAIR TORNADO	01/31/17	255609	677.48-	
00002	TAW POWER SYSTEMS, INC	26106284(B)	00167514	16000452	ADDL AMT DUE PO#167457	01/31/17	255609	223.70-	

TAW POWER SYSTEMS, INC									
Sum									901.18-
00002	THOMAS, BRYCEN K	SPORTS SERVS	02017268	16000479	SPORTS SUPPORT SERVICES	01/31/17	255612	32.00-	

THOMAS, BRYCEN K									
Sum									32.00-
00002	UNITED FENCE COMPANY	00017928	00165085	16000417	FENCE TATUM REC OFFICE	01/31/17	255621	27,186.00-	

UNITED FENCE COMPANY									
Sum									27,186.00-
00002	VARNADO, ALEXANDRIA	SPORTS SERVS	02017268	16000480	SPORTS SUPPORT SERVICES	01/31/17	255624	52.00-	

Sum								52.00-
00002 VAUGHN, MORAN A	OFFICIAL 1/3	02017267	16000470	OFFICIAL-YOUTH BASKETBALL	01/31/17	255625	80.00-	

VAUGHN, MORAN A								
Sum							80.00-	
00002 WAL-MART STORES INC	006053	00166542	16000438	FOOD/SUPP SENIOR CTR PARTIES	01/31/17	255630	157.01-	

WAL-MART STORES INC								
Sum							157.01-	
00002 WASHINGTON, TYLER ROYCE	OFFICIAL 1/3	02017267	16000471	OFFICIAL-YOUTH BASKETBALL	01/31/17	255633	80.00-	

WASHINGTON, TYLER ROYCE								
Sum							80.00-	
00002 WILLMUT GAS & OIL COMPAN	1/17 PKS/REC	00020178	16000458	MNTHLY GAS-PARKS & REC	01/31/17	255643	504.64-	

WILLMUT GAS & OIL COMPAN								
Sum							504.64-	

Sum							139,779.61-	

PERIOD ENDING JANUARY 31, 2017

Date - 01/27/17

Vendor

Invoice
Number

Purchase Order

Claims
Number

Item	Description
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Check
Date

Check
No.

Check
Amount

HATT.MUNICIPAL FIRE PROTECTION

00005 MOTOROLA CUSTOMER CONNEC 13145546

00166681 16000016 REPLACEMENT RADIOS FIRE DEPT

01/31/17

255514

19,886.00-

MOTOROLA CUSTOMER CONNEC

Sum

19,886.00-

Sum

19,886.00-

Date - 01/27/17

Check Date	Check No.	Check Amount
01/23/17	111553	182.08-
01/23/17	111539	182.08- 16.14-
		16.14-
		198.22-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

PERIOD ENDING JANUARY 31, 2017

Date - 01/27/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER OPERATION/MAINT.							
00009 ARNOLD LINE WATER ASSN I	SEWER BILLIN	00167303	16000455	SEWER BILLING 7/16-12/16	01/31/17	255343	810.00-

ARNOLD LINE WATER ASSN I							810.00-
Sum							
00009 AT&T MOBILITY	287273578351	00167470	16000481	WIRELESS BILLING 11-12/16	01/31/17	255346	700.80-

AT&T MOBILITY							700.80-
Sum							
00009 BONNER ANALYTICAL TESTIN	62419	00167317	16000464	NPDES MONITORING LAGOONS	01/31/17	255365	1,163.57-
00009 BONNER ANALYTICAL TESTIN	62443	00167454	16000488	TESTING 1/17 SOUTH LAGOON	01/31/17	255365	238.75-

BONNER ANALYTICAL TESTIN							1,402.32-
Sum							
00009 BURKETT RADIATOR SHOP	64796	00167020	16000447	AC/HEAT REPR U#15667 LAGOONS	01/31/17	255372	1,250.00-
00009 BURKETT RADIATOR SHOP	64797	00167208	16000448	ADDL AMT DUE PO#167020	01/31/17	255372	282.00-

BURKETT RADIATOR SHOP							1,532.00-
Sum							
00009 CARQUEST AUTO PARTS STOR	14758-82304	00166958	16000440	REPR PTS U#14164 TRANS	01/31/17	255379	611.30-

CARQUEST AUTO PARTS STOR							611.30-
Sum							
00009 CENTRAL PIPE SUPPLY INC	S100082512.0	00167108	16000458	PLUMB SUPP TRANS DEPT	01/31/17	255381	4,411.00-

CENTRAL PIPE SUPPLY INC							4,411.00-
Sum							
00009 CERTIFIED LABORATORIES	2582891	00167018	16000454	CHEMICALS LAGOONS	01/31/17	255382	16,594.00-
00009 CERTIFIED LABORATORIES	2563464	00166692	16000480	GEAR OIL SOUTH LAGOON	01/31/17	255382	4,200.00-

CERTIFIED LABORATORIES							20,794.00-
Sum							
00009 CITY OF HATTIESBURG FUND	TRF 2ND 1/17	02017215	16000450	TRF 2ND 1/17 PAYROLL	01/18/17	22001	113,806.37-

CITY OF HATTIESBURG FUND							113,806.37-
Sum							
00009 COBURN'S SUPPLY CO INC	609673244	00167014	16000463	PLUMB SUPP TRANS DEPT	01/31/17	255386	744.04-

COBURN'S SUPPLY CO INC							744.04-
Sum							
00009 CONTROL SYSTEMS INC	53391	00166507	16000461	COMPUTER WTR PLT #1	01/31/17	255392	3,700.00-

CONTROL SYSTEMS INC							3,700.00-
Sum							
00009 D P C ENTERPRISES LP	212000028-17	00166848	16000441	CHEMICALS WTR PLT #2	01/31/17	255400	1,143.00-
00009 D P C ENTERPRISES LP	212000029-17	00166848	16000442	CHEMICALS WTR PLT #1	01/31/17	255400	1,143.00-

00009 D P C ENTERPRISES LP	212000053-17	00166984	16000459	CHEMICALS FORREST GEN TANK	01/31/17	255400	1,379.93-
D P C ENTERPRISES LP							
Sum							3,665.93-
00009 DIXIE COMMUNITY UTILITY	SEWER BILLIN	00167302	16000456	SEWER BILLING 12/16	01/31/17	255404	387.00-

DIXIE COMMUNITY UTILITY							
Sum							387.00-
00009 ECONOMY SUPPLY CO	264595	00167012	16000491	ENTRY DOORS BOBBY WEST CMLPX	01/31/17	255411	1,508.00-

ECONOMY SUPPLY CO							
Sum							1,508.00-
00009 G & K SERVICES	1035787941	00167461	16000482	UNIFORMS 12/05 WTR BILLING	01/31/17	255436	23.40-
00009 G & K SERVICES	1035790116	00167461	16000483	UNIFORMS 12/12 WTR BILLING	01/31/17	255436	23.40-
00009 G & K SERVICES	1035792288	00167461	16000484	UNIFORMS 12/19 WTR BILLING	01/31/17	255436	23.40-
00009 G & K SERVICES	1035794444	00167461	16000485	UNIFORMS 12/26 WTR BILLING	01/31/17	255436	23.40-
00009 G & K SERVICES	1035796611	00167461	16000486	UNIFORMS 1/02 WTR BILLING	01/31/17	255436	23.40-
00009 G & K SERVICES	1035798738	00167461	16000487	UNIFORMS 1/09 WTR BILLING	01/31/17	255436	23.40-

G & K SERVICES							
Sum							140.40-
00009 HACH COMPANY	10264165	00166985	16000443	CHEMICALS WTR PLANT	01/31/17	255453	1,455.94-

HACH COMPANY							
Sum							1,455.94-
00009 HAVARD PEST CONTROL INC	1088412	02017253	16000497	SRV 1/17 E LAUREL SWR LIFT	01/31/17	255459	40.00-
00009 HAVARD PEST CONTROL INC	1088413	02017253	16000498	SRV 1/17 N LAGOON LIFT PLT	01/31/17	255459	40.00-

HAVARD PEST CONTROL INC							
Sum							80.00-
00009 IRBY, STUART C CO	S009969552.0	00167029	16000465	CREDIT	01/31/17	255474	92.81

IRBY, STUART C CO							
Sum							92.81
00009 L & A CONTRACTING CO	483-073	00167289	16000460	AERATOR MNT 1/1-15/17 LAGOONS	01/31/17	255493	34,837.21-

L & A CONTRACTING CO							
Sum							34,837.21-
00009 MS POWER COMPANY	1/17 W&SO&M	00020178	16000489	MNTHLY ELEC-W&SO&M	01/31/17	255521	86,872.82-

MS POWER COMPANY							
Sum							86,872.82-
00009 MS STATE/DEPT OF HEALTH/	17-116900 W&	00167527	16000490	BOILER INSPECTIONS VARI LOC	01/31/17	255524	120.00-

MS STATE/DEPT OF HEALTH/							
Sum							120.00-
00009 PEARL RIVER VALLEY EPA (	1/17 W&SO&M	00020178	16000494	MNTHLY 1/17 PUBLIC SERVICES	01/31/17	255549	399.32-

PEARL RIVER VALLEY EPA (							
Sum							399.32-
00009 POWER PLUS INC	50570	00165708	16000477	WEEDEATER MAINT SUPP PLANT	01/31/17	255561	257.38-
00009 POWER PLUS INC	50660	00165791	16000478	WEEDEATER PTS WTR PLANT	01/31/17	255561	131.00-

00009 POWER PLUS INC	50759	00166178 16000479 STIHL CHAINS/FUEL CAP WTR PLT	01/31/17	255561	211.20-

POWER PLUS INC					
Sum					599.58-
00009 PUCKETT RENTS	579141-0001	00166405 16000471 HAND TOOLS RAIN JACKETS SEWER	01/31/17	255566	490.90-

PUCKETT RENTS					
Sum					490.90-
00009 RICOH CORP	5046217450 W	00167318 16000462 PRODUCTION PRINTER CHARGES	01/31/17	255568	25.49-

RICOH CORP					
Sum					25.49-
00009 RJM MCQUEEN CONTRACTING	1186	00167201 16000444 ROAD REPR TILTREE/S 34TH AVE	01/31/17	255570	5,071.55-
00009 RJM MCQUEEN CONTRACTING	1187	00167201 16000445 SEWER SERV TILTREE/S 34TH	01/31/17	255570	13,826.15-
00009 RJM MCQUEEN CONTRACTING	1188	00167201 16000446 SEWER SERV ROBY/DUKE	01/31/17	255570	12,900.30-
00009 RJM MCQUEEN CONTRACTING	1189	00167412 16000469 SEWER REPR CEDAR/SHELTON	01/31/17	255570	23,357.60-
00009 RJM MCQUEEN CONTRACTING	1190	00167412 16000470 SWR REPR FAIRMONT/HEATHERWOOD	01/31/17	255570	4,777.00-

RJM MCQUEEN CONTRACTING					
Sum					59,932.60-
00009 SCOGGINS PUMP REPAIR	10509	00167167 16000449 PUMP REPR WES-PAK LIFT STA	01/31/17	255580	3,899.72-

SCOGGINS PUMP REPAIR					
Sum					3,899.72-
00009 SOUTHERN GAS & SUPPLY OF	33136325	00165964 16000457 WIRE BRUSHES TRANS DEPT	01/31/17	255596	54.00-

SOUTHERN GAS & SUPPLY OF					
Sum					54.00-
00009 SOUTHERN PINE ELECTRIC P	1/17 W&SO&M	00020178 16000495 MNTHLY 1/17 PUBLIC SERVICES	01/31/17	255597	1,752.24-

SOUTHERN PINE ELECTRIC P					
Sum					1,752.24-
00009 SOUTHERN PIPE & SUPPLY C	2434996	00165981 16000472 PLUMB SUPP SEWER DEPT	01/31/17	255598	484.79-
00009 SOUTHERN PIPE & SUPPLY C	260905-00	00166546 16000473 PLUMB SUPP PO#165981 ADDL	01/31/17	255598	136.00-

SOUTHERN PIPE & SUPPLY C					
Sum					620.79-
00009 SOUTHERN TIRE MART #9 (M	9017405	00167308 16000467 TIRES U#19777 LAGOON	01/31/17	255599	844.74-
00009 SOUTHERN TIRE MART #9 (M	9017543	00167438 16000476 TIRE U#20027 PLT GEN MGR	01/31/17	255599	162.80-

SOUTHERN TIRE MART #9 (M					
Sum					1,007.54-
00009 STANDARD OFFICE SUPPLY C	0066361-001	00166204 16000474 OFFICE SUPP WTR BILLING	01/31/17	255602	381.95-

00009 STANDARD OFFICE SUPPLY C	0067049-001	00166889 16000475 OFFICE SUPP WTR BILLING	01/31/17	255602	250.80-

STANDARD OFFICE SUPPLY C					
Sum					632.75-
00009 TRUSTMARK BUSINESS CARD	9827 5/04/16	00167247 16000453 TKT MCNEASE 4/5-7/16 EPA MEET	01/31/17	255616	517.47-

TRUSTMARK BUSINESS CARD					
Sum					517.47-

00009 UNIVERSITY TIRE & SERVIC 501693	00166956 16000451 TIRES U#14165 TRANS	01/31/17	255623	262.48-
00009 UNIVERSITY TIRE & SERVIC 501696	00166956 16000452 ALIGNMENT U#14165 TRANS	01/31/17	255623	79.99-

UNIVERSITY TIRE & SERVIC				
Sum				342.47-
00009 WARREN PAVING INC 26159MB	00166063 16000466 HOT ASPHALT MIX PUBLIC WORKS	01/31/17	255632	2,425.26-
00009 WARREN PAVING INC 26226MB	00166063 16000468 HOT ASPHALT MIX PUBLIC WORKS	01/31/17	255632	682.26-

WARREN PAVING INC				
Sum				3,107.52-
00009 WATKINS & EAGAR 376628	00167515 16000492 SRV GRNDWORX VS BLANTON/CITY	01/31/17	255637	15,756.28-
00009 WATKINS & EAGAR 376627	00167515 16000493 SRV GULF RESTORATION VS CITY	01/31/17	255637	25,682.73-

WATKINS & EAGAR				
Sum				41,439.01-
00009 WILLMUT GAS & OIL COMPAN 1/17 W&SO&M	00020178 16000496 MNTHLY GAS-W&SO&M	01/31/17	255643	1,030.98-

WILLMUT GAS & OIL COMPAN				
Sum				1,030.98-

Sum				393,338.70-

Date - 01/27/17

Vendor

Invoice
Number

Purchase Order

Claims
Number

Item	Description
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Check
Date

Check
No.

Check
Amount

WATER & SEWER B & I

00010 TRUSTMARK NATIONAL BANK/ 2/1/17 ISSUE 02017222 16000003 2/1/17 ISSUE #7589

01/25/17

111559

51,616.67-

TRUSTMARK NATIONAL BANK/

Sum

51,616.67-

Sum

51,616.67-

Date - 01/27/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
WATER & SEWER FUND							
00011 ALEXANDER, LATONNA	METER DEP RF	02017266	16000308	METER DEP RFD	01/31/17	255336	9.80-
ALEXANDER, LATONNA							
Sum							9.80-
00011 BAILEY, ERIC	METER DEP RF	02017242	16000283	METER DEP RFD	01/31/17	255351	75.00-
BAILEY, ERIC							
Sum							75.00-
00011 BASKINS, FELICIA W	WTR OVRPMT R	02017249	16000249	WTR OVRPMT RFD	01/31/17	255353	16.32-
BASKINS, FELICIA W							
Sum							16.32-
00011 BASS CLEANERS 316	METER DEP RF	02017242	16000259	METER DEP RFD	01/31/17	255354	75.00-
BASS CLEANERS 316							
Sum							75.00-
00011 BAXTER, MILTON	METER DEP RF	02017242	16000288	METER DEP RFD	01/31/17	255356	75.00-
BAXTER, MILTON							
Sum							75.00-
00011 BEVILL, KELSEY SUZANNE	WTR OVRPMT R	02017241	16000253	WTR OVRPMT RFD	01/31/17	255360	30.00-
00011 BEVILL, KELSEY SUZANNE	METER DEP RF	02017242	16000274	METER DEP RFD	01/31/17	255360	75.00-
BEVILL, KELSEY SUZANNE							
Sum							105.00-
00011 BONEY, FRANCINA M	METER DEP RF	02017242	16000276	METER DEP RFD	01/31/17	255364	26.00-
BONEY, FRANCINA M							
Sum							26.00-
00011 BRENT, CHARLES R	METER DEP RF	02017242	16000254	METER DEP RFD	01/31/17	255367	30.00-
BRENT, CHARLES R							
Sum							30.00-
00011 BRENT, FATIMA	METER DEP RF	02017266	16000306	METER DEP RFD	01/31/17	255368	75.00-
BRENT, FATIMA							
Sum							75.00-
00011 BROWN, JONATHAN M	METER DEP RF	02017266	16000301	METER DEP RFD	01/31/17	255370	26.00-
BROWN, JONATHAN M							
Sum							26.00-
00011 CANIZARO, JAMES	METER DEP RF	02017242	16000285	METER DEP RFD	01/31/17	255374	26.00-
CANIZARO, JAMES							
Sum							26.00-

00011 CLOY, SAMANTHA C	METER DEP RF 02017242 16000266 METER DEP RFD	01/31/17	255385	75.00-

CLOY, SAMANTHA C				75.00-
Sum				40.00-
00011 DENHAM, DOT	METER DEP RF 02017242 16000255 40.00	01/31/17	255403	40.00-

DENHAM, DOT				40.00-
Sum				49.00-
00011 DIXON, ALEXIS	WTR OVRPMT R 02017241 16000252 WTR OVRPMT RFD	01/31/17	255405	49.00-

DIXON, ALEXIS				49.00-
Sum				75.00-
00011 DONNELL & COMPANY, PA	METER DEP RF 02017242 16000260 METER DEP RFD	01/31/17	255406	75.00-

DONNELL & COMPANY, PA				75.00-
Sum				35.50-
00011 DOWNS, MICHAEL	METER DEP RF 02017266 16000303 METER DEP RFD	01/31/17	255407	35.50-

DOWNS, MICHAEL				35.50-
Sum				26.00-
00011 DUNBAR, JOY W	METER DEP RF 02017242 16000265 METER DEP RFD	01/31/17	255409	26.00-

DUNBAR, JOY W				26.00-
Sum				26.00-
00011 FARRIOR, RHONDA	METER DEP RF 02017266 16000305 METER DEP RFD	01/31/17	255419	26.00-

FARRIOR, RHONDA				26.00-
Sum				49.85-
00011 FEERER, LANCE	METER DEP RF 02017242 16000279 METER DEP RFD	01/31/17	255423	49.85-

FEERER, LANCE				49.85-
Sum				75.00-
00011 FUENTES, MIRIAM	METER DEP RF 02017242 16000271 METER DEP RFD	01/31/17	255429	75.00-

FUENTES, MIRIAM				75.00-
Sum				40.00-
00011 GAMMILL, STEWART	METER DEP RF 02017242 16000258 METER DEP RFD	01/31/17	255437	40.00-

GAMMILL, STEWART				40.00-
Sum				75.00-
00011 GILL, CURRIE B	METER DEP RF 02017242 16000269 METER DEP RFD	01/31/17	255441	75.00-

GILL, CURRIE B				75.00-
Sum				2,800.00-
00011 HANCOCK BANK CORP TRUST	24378 02017251 16000248 MDB 2013 MDBHATT1213	01/24/17	311256	2,800.00-

HANCOCK BANK CORP TRUST				26.00-
Sum				
00011 HART, DONNA	METER DEP RF 02017266 16000304 METER DEP RFD	01/31/17	255458	

HART, DONNA				

Sum						26.00-
00011 HOLDER, DONALD W	METER DEP RF 02017242 16000263	METER DEP RFD	01/31/17	255462		26.00-

HOLDER, DONALD W						
Sum						26.00-
00011 INDIAN DELIGHT2	METER DEP RF 02017242 16000280	METER DEP RFD	01/31/17	255469		100.00-

INDIAN DELIGHT2						
Sum						100.00-
00011 LANSING, MARY J	METER DEP RF 02017266 16000298	METER DEP RFD	01/31/17	255496		40.00-

LANSING, MARY J						
Sum						40.00-
00011 LINTON, STEPHANIE S	METER DEP RF 02017266 16000299	METER DEP RFD	01/31/17	255500		26.00-

LINTON, STEPHANIE S						
Sum						26.00-
00011 LONDON & STETELMAN	METER DEP RF 02017242 16000284	METER DEP RFD	01/31/17	255501		75.00-

LONDON & STETELMAN						
Sum						75.00-
00011 MANN, ALLEN G	METER DEP RF 02017242 16000293	METER DEP RFD	01/31/17	255502		19.44-

MANN, ALLEN G						
Sum						19.44-
00011 MELLOW SYNDEE	METER DEP RF 02017242 16000289	METER DEP RFD	01/31/17	255508		75.00-

MELLOW SYNDEE						
Sum						75.00-
00011 MILLER, ANDREA B	WTR OVRPMT R 02017244 16000250	WTR OVRPMT RFD	01/31/17	255511		13.46-

MILLER, ANDREA B						
Sum						13.46-
00011 MOODY, JEWELL	METER DEP RF 02017242 16000278	METER DEP RFD	01/31/17	255513		75.00-

MOODY, JEWELL						
Sum						75.00-
00011 NEWELL JR , CLARENCE E	METER DEP RF 02017242 16000272	METER DEP RFD	01/31/17	255535		1.32-

NEWELL JR , CLARENCE E						
Sum						1.32-
00011 NEWSOM, KELLIE JO	METER DEP RF 02017242 16000290	METER DEP RFD	01/31/17	255537		26.00-

NEWSOM, KELLIE JO						
Sum						26.00-
00011 OSTER, PATRICK	METER DEP RF 02017242 16000282	METER DEP RFD	01/31/17	255541		16.88-

OSTER, PATRICK						
Sum						16.88-
00011 PARKER, GAGE M	METER DEP RF 02017242 16000267	METER DEP RFD	01/31/17	255547		26.00-

Sum									26.00-
00011 PINN, JULIE	METER DEP RF 02017242	16000262	METER DEP RFD		01/31/17	255557		75.00-	

PINN, JULIE								75.00-	
Sum								26.00-	
00011 PROVISION ASSETS, LLC	METER DEP RF 02017266	16000307	METER DEP RFD		01/31/17	255565		26.00-	

PROVISION ASSETS, LLC								26.00-	
Sum								75.00-	
00011 RUSSELL, HELEN	METER DEP RF 02017242	16000277	METER DEP RFD		01/31/17	255572		75.00-	

RUSSELL, HELEN								75.00-	
Sum								4.84-	
00011 RYDER, JODI	METER DEP RF 02017242	16000264	METER DEP RFD		01/31/17	255575		4.84-	

RYDER, JODI								4.84-	
Sum								75.00-	
00011 SCHUBERTH, THOMAS G	METER DEP RF 02017242	16000292	METER DEP RFD		01/31/17	255579		75.00-	

SCHUBERTH, THOMAS G								75.00-	
Sum								75.00-	
00011 SHOEMAKER PROPERTIES	METER DEP RF 02017266	16000309	METER DEP RFD		01/31/17	255584		75.00-	
00011 SHOEMAKER PROPERTIES	METER DEP RF 02017242	16000286	METER DEP RFD		01/31/17	255585		26.00-	

SHOEMAKER PROPERTIES								101.00-	
Sum								26.00-	
00011 SHOEMAKER PROPERTIES200	METER DEP RF 02017242	16000291	METER DEP RFD		01/31/17	255586		26.00-	

SHOEMAKER PROPERTIES200								26.00-	
Sum								75.00-	
00011 SLOVAK, DWIGHT	METER DEP RF 02017242	16000281	METER DEP RFD		01/31/17	255589		75.00-	

SLOVAK, DWIGHT								75.00-	
Sum								229.74-	
00011 SMITH, KEITH	WTR OVRPMT R 02017241	16000251	WTR OVRPMT RFD		01/31/17	255590		229.74-	
00011 SMITH, KEITH	METER DEP RF 02017242	16000257	METER DEP RFD		01/31/17	255590		40.00-	

SMITH, KEITH								269.74-	
Sum								26.00-	
00011 STEEN, CELA	METER DEP RF 02017242	16000273	METER DEP RFD		01/31/17	255603		26.00-	

STEEN, CELA								26.00-	
Sum								26.00-	
00011 STEWART, ROBERT REGIONAL	METER DEP RF 02017266	16000300	METER DEP RFD		01/31/17	255605		26.00-	

STEWART, ROBERT REGIONAL								26.00-	
Sum								25.99-	
00011 STUART, MARLA2	METER DEP RF 02017242	16000287	METER DEP RFD		01/31/17	255607		25.99-	

STUART, MARLA2								25.99-	
Sum								25.99-	

00011 THOMAS, ANZETTE B	METER DEP RF 02017242 16000256 METER DEP RFD	01/31/17	255611	40.00-

THOMAS, ANZETTE B				40.00-
Sum				75.00-
00011 TRIPLETT, KAITLIN	METER DEP RF 02017242 16000275 METER DEP RFD	01/31/17	255613	75.00-

TRIPLETT, KAITLIN				75.00-
Sum				207.61-
00011 WATTS, LIZ	WTR OVRPMT R 02017261 16000294 WTR OVRPMT RFD	01/31/17	255638	207.61-

WATTS, LIZ				207.61-
Sum				16.88-
00011 WILLIAMS, LOUISE R	METER DEP RF 02017266 16000302 METER DEP RFD	01/31/17	255642	16.88-

WILLIAMS, LOUISE R				16.88-
Sum				116.88-
00011 WILLY T'S SPORTS GRILL	METER DEP RF 02017242 16000261 METER DEP RFD	01/31/17	255644	116.88-

WILLY T'S SPORTS GRILL				116.88-
Sum				5,713.51-

Date - 01/27/17

Check
Amount

750.00-

750.00-

750.00-

Date - 01/27/17

Invoice Number	Purchase Order	Claims Number	Item Description
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Check Date	Check No.	Check Amount
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BCMINV000278 00166088 16000022 VISTA HD

01/31/17	255635	12,000.00-
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12,000.00-

12,000.00-

Date - 01/27/17

Date - 01/27/17

CITY OF HATTIESBURG

DOCKET OF CLAIMS

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PERIOD ENDING JANUARY 31, 2017

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
AIRPORT IMPROVEMENT FUND							
00039 JACKSON & ARRINGTON (LEG	61315	00167216	16000008	SRVS BOBBY CHAIN AIRPORT	01/31/17	255476	375.00-
JACKSON & ARRINGTON (LEG							
Sum							375.00-
Sum							375.00-

CITY OF HATTIESBURG

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Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
MASS TRANSIT FUND							
00073 AMERICAN PRINTING & OFFI	7028	00167031	16000176	REFLECTIVE VINYL VARI BUSES	01/31/17	255338	120.00-
00073 AMERICAN PRINTING & OFFI	7039	00167135	16000179	REMOVE/INSTALL LOGOS U#15648	01/31/17	255338	210.00-

AMERICAN PRINTING & OFFI							
Sum							330.00-
00073 AT&T MOBILITY	287273578351	00167470	16000186	WIRELESS BILLING 11-12/16	01/31/17	255346	216.94-

AT&T MOBILITY							
Sum							216.94-
00073 BEECH, JANET	TRAV ADV 3/7	00167389	16000183	TRAV ADV M/T PROCUREMENT CLS	01/31/17	255357	882.00-

BEECH, JANET							
Sum							882.00-
00073 CITY OF HATTIESBURG FUND	TRF 2ND 1/17	02017215	16000175	TRF 2ND 1/17 PAYROLL	01/18/17	111514	30,659.46-

CITY OF HATTIESBURG FUND							
Sum							30,659.46-
00073 COPY CATS PRINTING	405666	00167125	16000180	BUS PASSES	01/31/17	255394	185.00-

COPY CATS PRINTING							
Sum							185.00-
00073 G & K SERVICES	1035787911	00167229	16000163	UNIFORMS 12/05 DRIVERS	01/31/17	255436	42.90-
00073 G & K SERVICES	1035790088	00167229	16000164	UNIFORMS 12/12 DRIVERS	01/31/17	255436	42.90-
00073 G & K SERVICES	1035792258	00167229	16000165	UNIFORMS 12/19 DRIVERS	01/31/17	255436	43.08-
00073 G & K SERVICES	1035794416	00167229	16000166	UNIFORMS 12/26 DRIVERS	01/31/17	255436	43.08-
00073 G & K SERVICES	1035787909	00167230	16000167	UNIFORMS 12/05 MECHANICS	01/31/17	255436	11.70-
00073 G & K SERVICES	1035790086	00167230	16000168	UNIFORMS 12/12 MECHANICS	01/31/17	255436	7.80-
00073 G & K SERVICES	1035792256	00167230	16000169	UNIFORMS 12/19 MECHANICS	01/31/17	255436	10.65-
00073 G & K SERVICES	1035794414	00167230	16000170	UNIFORMS 12/26 MECHANICS	01/31/17	255436	10.65-
00073 G & K SERVICES	1035787910	00167231	16000171	MATS 12/05	01/31/17	255436	5.10-
00073 G & K SERVICES	1035790087	00167231	16000172	MATS 12/12	01/31/17	255436	5.10-
00073 G & K SERVICES	1035792257	00167231	16000173	MATS 12/19	01/31/17	255436	5.10-
00073 G & K SERVICES	1035794415	00167231	16000174	MATS 12/26	01/31/17	255436	5.10-

G & K SERVICES							
Sum							233.16-
00073 GARNER LUMLEY ELECTRIC S	530866	00165794	16000158	ELEC SUPP	01/31/17	255438	360.00-

GARNER LUMLEY ELECTRIC S							
Sum							360.00-
00073 GILLIG LLC	40274860	00165213	16000159	REPR PTS GILLIG BUSES	01/31/17	255442	2,164.38-
00073 GILLIG LLC	40277695	00165213	16000160	REPR PTS GILLIG BUSES	01/31/17	255442	144.17-
00073 GILLIG LLC	40287576	00166312	16000161	REPR PTS U#16234 BUS	01/31/17	255442	1,234.54-
00073 GILLIG LLC	40285194	00166101	16000177	REPR PTS U#16234	01/31/17	255442	389.21-
00073 GILLIG LLC	40287072	00166101	16000178	REPR PTS U#16235	01/31/17	255442	389.21-

00073 GILLIG LLC	40284162	00166081 16000184 REPR PTS U#16235	01/31/17	255442	345.01-

GILLIG LLC					
Sum					4,666.52-
00073 GILLILANDS ELECTRONICS S 63376		00167001 16000162 NEW PHONE SYSTEM	01/31/17	255443	3,489.95-

GILLILANDS ELECTRONICS S					
Sum					3,489.95-
00073 GROVE TRANSIT	JARC TRIPS 6	00167460 16000188 JARC TRIPS 6/12-10/16/16	01/31/17	255447	31,682.00-

GROVE TRANSIT					
Sum					31,682.00-
00073 MS POWER COMPANY	1/17 M TRANS	00020178 16000189 MNTHLY ELEC-MASS TRANSIT	01/31/17	255519	1,301.09-

MS POWER COMPANY					
Sum					1,301.09-
00073 MS STATE/DEPT OF HEALTH/ 17-116900 MA		00167527 16000190 BOILER INSPECTION	01/31/17	255524	60.00-

MS STATE/DEPT OF HEALTH/					
Sum					60.00-
00073 MS STATE/EMP SECURITY CO 9200131000 1		00167480 16000187 UNEMP CLAIMS 4TH QTR 2016	01/31/17	255525	3,055.00-

MS STATE/EMP SECURITY CO					
Sum					3,055.00-
00073 NEWELL PAPER COMPANY	889351	00167073 16000157 JANIT SUPP SHOP/BUSES	01/31/17	255536	392.14-

NEWELL PAPER COMPANY					
Sum					392.14-
00073 OFFICE DEPOT INC	894229548001	00167138 16000181 OFFICE SUPP	01/31/17	255540	923.67-
00073 OFFICE DEPOT INC	894229549001	00167138 16000182 OFFICE SUPP	01/31/17	255540	15.58-

OFFICE DEPOT INC					
Sum					939.25-
00073 VERIZON WIRELESS	9778411725	00167512 16000191 PARATRANSIT GPS 1/11-2/10/17	01/31/17	255626	200.05-

VERIZON WIRELESS					
Sum					200.05-
00073 WATERS INTERNATIONAL TRU 812506		00167426 16000185 REPRS U#18572 BUS	01/31/17	255636	1,910.75-

WATERS INTERNATIONAL TRU					
Sum					1,910.75-

Sum					80,563.31-

CITY OF HATTIESBURG

DOCKET OF CLAIMS

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WATER&SEWER CONSTRUCTION FUND							
00075 LAMAR PARK WATER & SEWER	SEWER BILLIN	00167455	16000037	SEWER BILLING 7/16-12/16	01/31/17	255495	5,350.00-

LAMAR PARK WATER & SEWER							
Sum							5,350.00-
00075 RJM MCQUEEN CONTRACTING	1191	00167415	16000035	SWR REPR CONCORT/S 14TH PH I	01/31/17	255570	139,159.30-
00075 RJM MCQUEEN CONTRACTING	1192	00167415	16000036	SWR REPR CONCORT/S 14TH PH 2	01/31/17	255570	47,163.45-

RJM MCQUEEN CONTRACTING							
Sum							186,322.75-

Sum							191,672.75-

00077 MILLER, LATOYA (REFUNDS CE ROY CENTE 02017265 16000163 DAMAGE DEPOSIT REFUND	01/31/17	255512	100.00-

MILLER, LATOYA (REFUNDS			100.00-
Sum			
00077 MS POWER COMPANY 1/17 COMM CN 00020178 16000152 MNTHLY ELEC-COMM CNTRS	01/31/17	255518	2,513.31-

MS POWER COMPANY			2,513.31-
Sum			
00077 MS STATE/DEPT OF HEALTH/ 17-116900 CO 00167527 16000165 BOILER INSPECTION CULTURAL CN	01/31/17	255524	30.00-

MS STATE/DEPT OF HEALTH/			30.00-
Sum			
00077 NEWELL PAPER COMPANY 889797 00166998 16000148 PAD HOLDER	01/31/17	255536	86.63-

NEWELL PAPER COMPANY			86.63-
Sum			
00077 NEWSOME, CHARMELL (REFU SHERRILL CEN 02017265 16000157 DAMAGE DEPOSIT REFUND	01/31/17	255538	100.00-

NEWSOME, CHARMELL (REFU			100.00-
Sum			
00077 OFFICE DEPOT INC 2026731530(B 00167174 16000147 PRINTER COMM CNTRS	01/31/17	255540	179.99-

OFFICE DEPOT INC			179.99-
Sum			
00077 PACE ROOFING 1798 00167421 16000151 ROOF REPR CE ROY CENTER	01/31/17	255543	375.00-

PACE ROOFING			375.00-
Sum			
00077 PHI BETA SIGMA FRATERNIT CULTURAL CEN 02017265 16000153 DAMAGE DEPOSIT REFUND	01/31/17	255551	250.00-
00077 PHI BETA SIGMA FRATERNIT CULTURAL CEN 02017265 16000154 DAMAGE DEPOSIT REFUND	01/31/17	255551	250.00-

PHI BETA SIGMA FRATERNIT			500.00-
Sum			
00077 SOUTH MS ART ASSN (REFUN CULTURAL CEN 02017265 16000156 DAMAGE DEPOSIT REFUND	01/31/17	255592	250.00-

SOUTH MS ART ASSN (REFUN			250.00-
Sum			
00077 UNIVERSITY TIRE & SERVIC 501725 00166992 16000149 TIRES U#10999 COMM CNTRS	01/31/17	255623	224.18-

UNIVERSITY TIRE & SERVIC			224.18-
Sum			
00077 WILLIAMS, KENYATTA (REFU SIGLER CENTE 02017265 16000159 DAMAGE DEPOSIT REFUND	01/31/17	255641	100.00-

WILLIAMS, KENYATTA (REFU			100.00-
Sum			
00077 WILLMUT GAS & OIL COMPAN 1/17 COMM CN 00020178 16000166 MNTHLY GAS-COMM CNTRS	01/31/17	255643	440.37-
WILLMUT GAS & OIL COMPAN			440.37-
Sum			

Sum			29,793.18-

Date - 01/27/17

Check Date	Check No.	Check Amount
01/20/17	311255	67,680.94-
01/18/17	311253	67,680.94- 7,441.42-
		7,441.42-
		75,122.36-

Date - 01/27/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
INDUSTRIAL PARK DEVELOPMENT							
00087 SEMP, MICHAEL J PLLC	2130	00167507	16000014	SRV IND PARK GENERAL MATTERS	01/31/17	255583	2,500.00-
SEMP, MICHAEL J PLLC							
Sum							2,500.00-
Sum							2,500.00-

Date - 01/27/17

Vendor	Invoice Number	Purchase Order	Claims Number	Item Description	Check Date	Check No.	Check Amount
SPECIAL SALES TAX-T&A							
00107 H'BURG CONVENTION COMMIS	FOOD/BEVERAG	02017247	16000008	FOOD/BEVERAGE TAX 12/16	01/19/17	111517	381,326.09-
H'BURG CONVENTION COMMIS							
Sum							381,326.09-
00107 H'BURG TOURISM COMMISSIO	MOTEL SALES	02017246	16000007	MOTEL SALES TAX 12/16	01/19/17	111516	43,793.92-
H'BURG TOURISM COMMISSIO							
Sum							43,793.92-
Sum							425,120.01-
Grand Total Level							
Sum							6,721,624.72-