Revised *Revised*

Tuesday, August 18, 2026 | **City Council** | **Council Chambers**
5:00 PM | **Tuesday Meeting Agenda** | **200 Forrest Street**

Call to Order

Prayer and Pledge of Allegiance

Presentation Agenda

Confirmation or Adjustment of the Agenda

Agenda Adjustments – Revise Routine Item #6 as follows:

R#6. 2026-745 Set a public hearing on the proposed budget and proposed tax levies for Fiscal Year 2027 for 5:00 p.m. Tuesday, September 8, 2026, in Council Chambers at City Hall; and authorize the City Clerk, upon receipt of the finalized budget and tax levy information, to prepare and publish the applicable Notice of Public Hearing in accordance with Mississippi Code Sections 21-35-5 and 27-39-203.

POLICY AGENDA

1. 2026-665 Adopt a Resolution setting Public Hearing on Monday, September 21st, 2026 at 4:00 p.m. in the City Council Chambers located at City Hall to determine if certain properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provision of MS Code 1972, Section 21-19-11.

2. 2026-710 Accept the Board of Adjustment's recommendation to approve a variance request from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

3. 2026-711 Accept the Board of Adjustment's recommendation to approve a variance request from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

4.	**2026-713**	Accept the Board of Adjustment's recommendation to approve a variance request from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for an I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).
5.	**2026-713**	Accept the Planning Commission's recommendation to approve a conditional use request for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).
6.	**2026-714**	Accept the Planning Commission's recommendation to approve a conditional use request for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue (PPIN 26743, Forrest County, Ward 2).
7.	**2026-715**	Accept the Planning Commission's recommendation to approve a request for an extension to the major subdivision plat approval to be known as Lincoln Legacy Development, for properties located along Lincoln Road Extension (PPIN 17642, 17643, 18020, 24814, 29025, 29843, Lamar County, Ward 3).
8.	**2026-716**	Accept for perpetual maintenance the final street improvements for Hattiesburg Marketplace Subdivision and authorize the release of the performance bond associated with the development.
9.	**2026-717**	Approve amended Professional Services Agreement with Shows, Dearman and Waits, Inc. for engineering services related to 2027 SRLF-Katie-John-Dabbs, Hattiesburg High PH II and East Jerusalem PH I and III Projects and authorize the Mayor to execute in duplicate.
10.	**2026-717**	Approve Contract Change Order No. 1 with R & J Construction, for the Grace Ave Sidewalk Project for a contract increase of $17,770.00 and Authorize the Mayor to execute in duplicate.
11.	**2026-720**	Adopt the August 18th, 2026 Amendments to the budget for the City of Hattiesburg for fiscal year ending September 30, 2026 and adopt Resolution authorizing publication for funds in excess of 10% of the originally appropriated fund balance.
12.	**2026-719**	Approve Agreement between the City of Hattiesburg and Southern Pines Animal Shelter for management and services for a term beginning October 1, 2026, through September 30, 2027, and authorize the Mayor to execute.
13.	**2026-721**	Approve Contractor and Owner Agreements according to the Minor Housing Repair Program Guidelines and authorize the Mayor to execute in duplicate.

14.	**2026-658**	Approve Contractor and Owner Agreements according to the Emergency Roof Repair Initiative Manual and authorize the Mayor to execute in duplicate.
15.	**2026-707**	Approve the Contract for Purchase and Sale of Real Property between Forrest County Industrial Park Commission and MMC Materials, INC., effective August 2026.
16.	**2026-722**	Approve Agreement between the City of Hattiesburg and the Art Makes Art, Inc. (Abigail Allen) to provide art and theater outreach programming for the City of Hattiesburg and authorize the Mayor to execute and authorize issuance of manual check for the same.
17.	**2026-663**	Approve two-quote purchase to replace the roof of the employee clinic and authorize award of bid to Gable Roofing in the amount of $49,680.00.
18.	**2026-725**	Approve two-quote bid to replace roof at 601 East Pine Street building and authorize award of bid to Eddie Pearson Roofing, LLC, in the amount of $22,734.10.
19.	**2026-657**	Designate the Feel the Beat of Midtown event, to be held Saturday, August 22, 2026, at Midtown Green Park, as a city-approved event for the purposes described in Ordinance No. 3402.
20.	**2026-654**	Authorize the acceptance of the FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program Award from the US Department of Justice in the amount of $25,595.00.
21.	**2026-708**	Authorize the submission of a grant application to FY27 Visit Hattiesburg's Tourism Grant Program to support Midnight on Front Street.
22.	**2026-655**	Ratify submission of a grant application to the Leary Firefighters Foundation in the amount of $25,000 to purchase new radios for the Hattiesburg Fire Department. No match is required.
23.	**2026-726**	Ratify and Confirm the Mayor's appointment of Samone Wilson to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2031.
24.	**2026-727**	Ratify and confirm the Mayor's appointment of Kent Oliver to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2026.

ROUTINE AGENDA

1.	**2026-664**	Acknowledge receipt of Notice of Adoption of the Motor Vehicle Assessment Schedule received from the Mississippi Department of Revenue and adopt same for the City of Hattiesburg for the fiscal year beginning October 1, 2026, and ending September 30, 2027; authorize publication of public notice setting a hearing for September 21, 2026, before the City Council to hear complaints or objections to the adoption of the Motor Vehicle Assessment Schedule.
2.	**2026-706**	Approve the Revised Minor Housing Repair Program Guidelines Manual {CDBG Entitlement}.
3.	**2026-707**	Approve an amendment to the City of Hattiesburg's Community Development Residential Anti-Displacement and Relocation Assistance Plan (RARAP) for the CDBG and HOME Programs.
4.	**2026-656**	Approve and authorize issuance of manual checks for CDBG/HOME Claims per attached.
5.	**2026-709**	Approve Specifications and Authorize publication of an advertisement for term bids for items #11, 20 & 26 for the City of Hattiesburg Water Department.
6.	**2026-731**	Set a public hearing on the proposed budget and proposed tax levies for fiscal year 2027 for 5:00 p.m. Tuesday, September 8, 2026, in Council Chambers at City Hall; Authorize publication of Notice of Public Hearing.
7.	**2026-730**	Approve the sale of grave spaces per attached receipts.
8.	**2026-724**	Approve claims docket for the period ending August 14, 2026.

In Memoriam:

- Mrs. Wanda Little
- Mrs. Jere Johnson Clark
- Ms. Deandera Marie Clavo
- Mr. Charles Turner

Meeting Adjourn

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Whit Sanguinetti, Division Manager**

Date: **Tuesday, August 18, 2026**

Re: **Adopt a Resolution setting Public Hearing on Monday, September 21, 2026 at 4:00 p.m. in the City Council Chambers located at City Hall to determine if certain properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provision of MS Code 1972, Section 21-19-11.**
File Number: 2026-665
Minute Book #

Summary
Set Public Hearing 09 21 2026, Unsafe Properties

Recommendation Statement
I recommend the setting of a Public Hearing to consider the state of the listed attached properties to determine if these properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provision of MS Code 1972, Section 21-19-11.

Please place this on the August 18, 2026 City Council meeting for consideration.

MAYOR
Toby Barker

COUNCIL - WARD ONE
Jeffrey George

COUNCIL - WARD TWO
Eric Boney

COUNCIL - WARD THREE
LeAnn Vance

COUNCIL - WARD FOUR
Dave Ware

COUNCIL - WARD FIVE
Nicholas Brown

MEMORANDUM

TO: Mayor and City Council

FROM: Wiley Quinn, Urban Development Director

DATE: August 18, 2026

RE: Set Public Hearing

The Code Enforcement Division requests that the City Council hold a Public Hearing on Monday, September 21, 2026 to determine if the following properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community, according to the provisions of MS Code 1972, Section 21-19-11.

	Address	**PPIN**	**Ward**	**Violations**	**Proposed Actions**	**Estimated Cost**	**Estimated Penalty**
1.	108 Graham Street	21360	5	AB, DB, OGL	Cut, Clean, Demo	$7,300	$1,500
2.	112 Magnolia Avenue	13544	5	AB, DB, GAR/RUB, OGL	Cut, Clean, Demo	$9,800	$1,500
3.	123 May Avenue	22565	5	AB, DB, OGL	Cut, Clean, Demo	$11,200	$1,500
4.	314 Barkley Road	40766	5	AB, DB, US, OGL	Cut, Clean, Demo	$10,300	$1,500
5.	804 Barkley Road	06921	5	AB, DB, US, OGL	Cut, Clean, Demo	$16,000	$1,500

6.	1747 Edwards Street	10485	5	AB, DB, US, DS, AV, OGL	Cut, Clean, Tow, Demo	$4,300	$1,500
7.	310 Geneva Street	20691 20692	2	VS, US, DS, DB, OS, AV, GAR/RUB, OGL	Cut, Clean, Tow, Demo	$25,000	$1,500
8.	715 Memphis Street	25758	2	VS, GAR/RUB, OGL	Cut & Clean	$2,000	$1,500
9.	717 Memphis Street	25757	2	VS, GAR/RUB, OGL	Cut & Clean	$2,000	$1,500
10.	719 Memphis Street	25756	2	VS, GAR/RUB, OGL	Cut & Clean	$2,000	$1,500
11.	903 James Street	38705	2	VS, US, DS, DB, GAR/RUB, OGL	Cut, Clean, Demo	$14,500	$1,500
12.	337 Emerson Drive	22766	4	VS, OGL, ROE	Clean, Close, Secure	$5,000	$1,500

Garbage & Rubbish=GAR/RUB
Dilapidated Building=DB
Dangerous Structure=DS
Imminent Danger=ID
Overgrown Lot=OGL
Open Storage=OS
Unsafe Structure=US
Abandoned Vehicle=AV
Abandoned Structure=AS
Vacant Structure=VS
Owner Responsibility=OR

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

WHEREAS, complaint has been made to the City of Hattiesburg, Mississippi, that the following properties to wit:

	Address	PPIN	Ward	Violations
1.	108 Graham Street	21360	5	AB, DB, OGL
2.	112 Magnolia Avenue	13544	5	AB, DB, GAR/RUB, OGL
3.	123 May Avenue	22565	5	AB, DB, OGL
4.	314 Barkley Road	40766	5	AB, DB, US, OGL
5.	804 Barkley Road	06921	5	AB, DB, US, OGL
6.	1747 Edwards Street	10485	5	AB, DB, US, DS, AV, OGL
7.	310 Geneva Street	20691 20692	2	VS, US, DS, DB, OS, AV, GAR/RUB, OGL
8.	715 Memphis Street	25758	2	VS, GAR/RUB, OGL
9.	717 Memphis Street	25757	2	VS, GAR/RUB, OGL
10.	719 Memphis Street	25756	2	VS, GAR/RUB, OGL
11.	903 James Street	38705	2	VS, US, DS, DB, GAR/RUB, OGL
12.	337 Emerson Drive	22766	4	VS, OGL, ROE

are in such a state of uncleanliness so as to be a menace to the health and safety of the community; and

WHEREAS, it is in the public interest that the City Council, on its own motion, hold hearings as provided by Section 21-19-11 of the Mississippi Code of 1972, as annotated and amended, to determine whether or not the above properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Hattiesburg, Mississippi, that the owners of the above-described properties be notified, as provided by law, of a hearing to be held by the City Council in the City Council Chambers located at City Hall in Hattiesburg, Mississippi, at 4:00 p.m. on Monday, September 21, 2026, to determine whether or not the above-described properties are in such a state of uncleanliness so as to be a menace to the health and safety of the community.

The above and foregoing Resolution, 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 President thereby declared the motion carried and the resolution adopted, this the 18th day of August, 2026.

(SEAL)

ATTEST: ADOPTED:

_____ _____
CLERK OF COUNCIL PRESIDENT

The above and foregoing Resolution, having been submitted to and approved by the Mayor, this the 18th day of August, 2026.

ATTEST: APPROVED:

_____ _____
CITY CLERK MAYOR

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Board of Adjustment's recommendation to approve a variance request from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).**
File Number: 2026-710
Minute Book #

Summary

Accept the Board of Adjustment's recommendation to approve a variance request from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

Recommendation Statement

Board of Adjustment recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Quick Facts:

Applicant:

Larry Albert

Address:

701 Adeline Street

Zoning:

R-1A (Single-Family Residential)

Future Land Use:

Neighborhood Conservation District 1

Historic District:

Oaks Historic

Overlay District(s):

N/A

Flood Zone:

X

Ward:

4

County:

Forrest

PPIN Number(s):

19452

Parcel Number(s):

2-029N-09-131.00

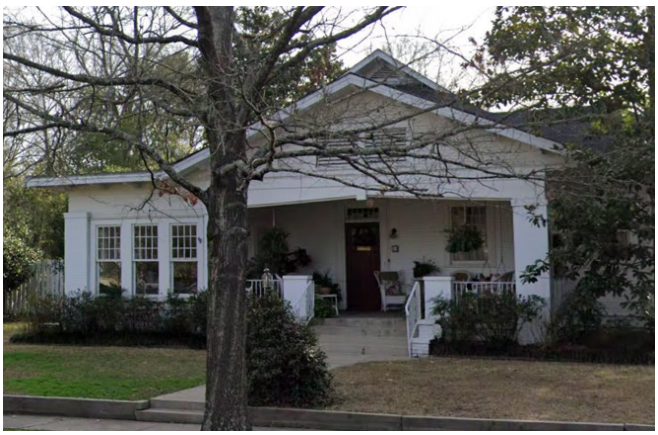
Hattiesburg Board of Adjustment
Planning Division
Item A - Staff Report
August 5th, 2026

Property Image- From Adeline Street

Applicant's Requests:
Larry Albert, Applicant, requests a variance from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

Property Image- From 2nd Avenue

Background and History



Surrounding Area Image

The staff met with the applicant in a pre-application meeting to discuss the proposed project for an addition onto the existing home that would make the home more ADA accessible. The applicants knew that the garage was encroaching into the side setback minimum and wanted to get information on the next steps for the process to move forward. The staff advised the applicants that they could apply for a variance from the minimum side setback. The applicants also have completed the Certificate of Appropriateness process with the Hattiesburg Historic Conservation Commission, where they received approval on the project contingent upon the approval of the variance request for the side setback minimum requirement.

Future Land Use:

Neighborhood Conservation District 1 – Downtown/Historic Neighborhoods: This Neighborhood Conservation District is primarily a residential district located adjacent to Downtown Hattiesburg and in older, established neighborhoods east of U.S. Highway 49. In this district, predominantly residential land uses may be found that exhibit certain types of development patterns.

Surrounding Area Image

District Characteristics: The characteristics of this district include the following: moderate-density single-family residences or residential lands along the city's original street system; certain two-family and multi-family uses constructed to the character of the surrounding neighborhood; buildings with shallow front and side yards; certain neighborhood business land uses that are compatible in design to the surrounding residential areas; and a higher overall density of development than modern or suburban neighborhoods.

District Land Uses: The following land uses should be found in this district: single-family residential uses; certain two–family and multi-family residences, subject to use, density, and design guidelines;

public and quasi-public uses, such as churches and schools; and small offices and retail uses clustered along collector streets or at the edges of neighborhoods and constructed to the same character as the surrounding residences.

Codes and Regulations

SECTION 5: Use Regulations

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

SECTION 6: Dimensional Standards

Table 6.1 Dimensional Standards

District	Minimum Lot Size in SF/ Width at Setback	Max. Dwelling Units	Max. Floor Area Ratio	Setbacks in feet				Max. Height*	Max. Impervious Surface Lot Coverage	Buffer in Feet
				Min. Front	Max. Front	Min. Side	Min. Rear			
A-1	130,680 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	35%	-
A-2	43,560 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	50%	-
R-1A	10,000/ 50	1 per lot	-	30	-	10	25	35 feet or 3 stories	50%	-

Considerations and Basis for Approval

Option:

Recommend approval or denial of a variance from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

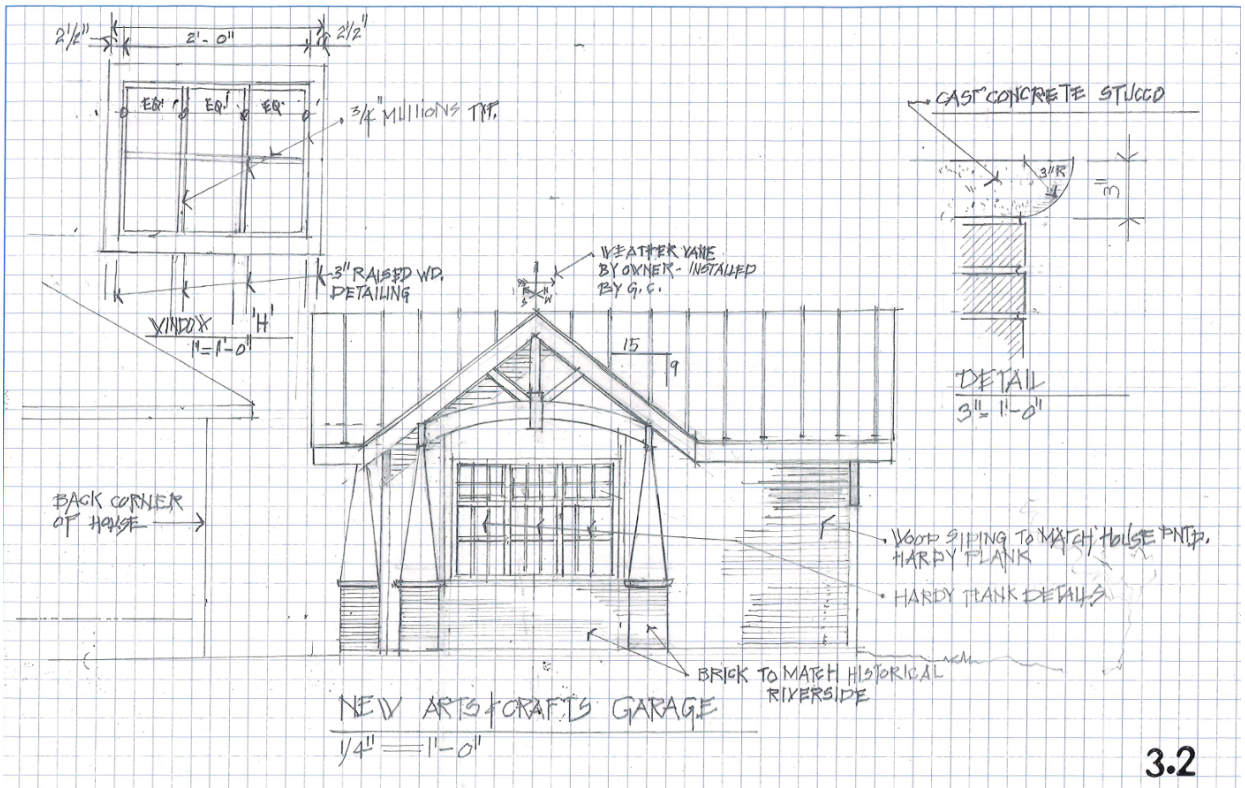
Basis for Approval:

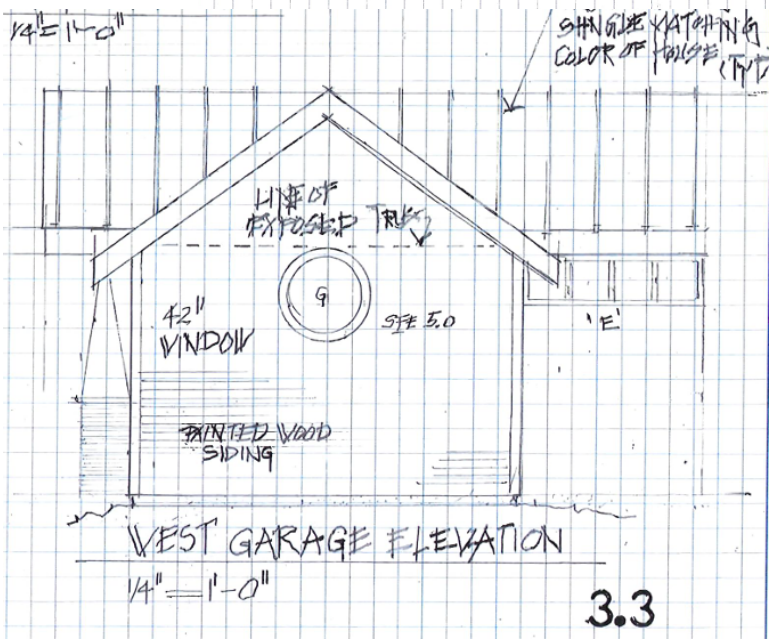
1. Hardship.
    a. The hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant.
    b. There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.
2. Special Privilege.

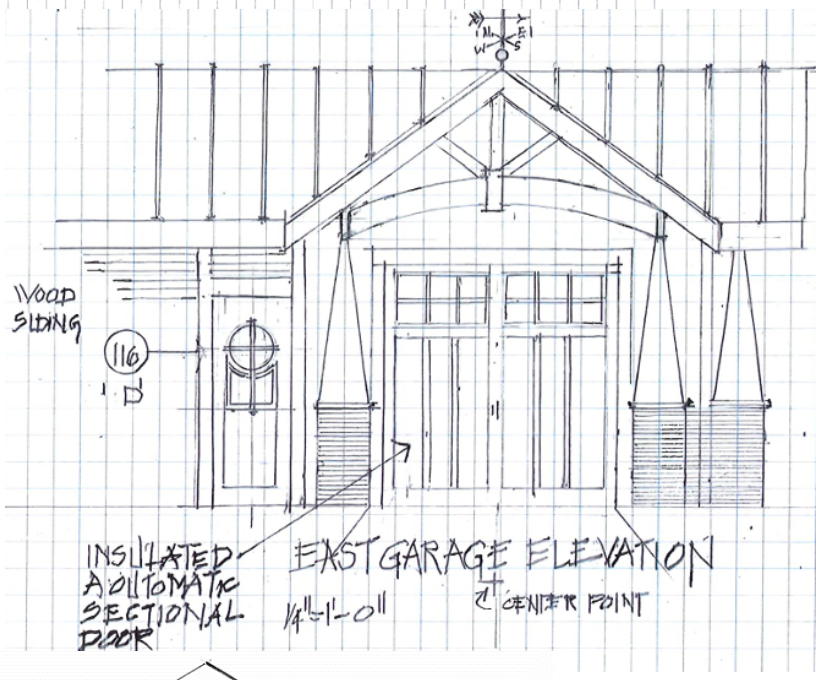
a. A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.

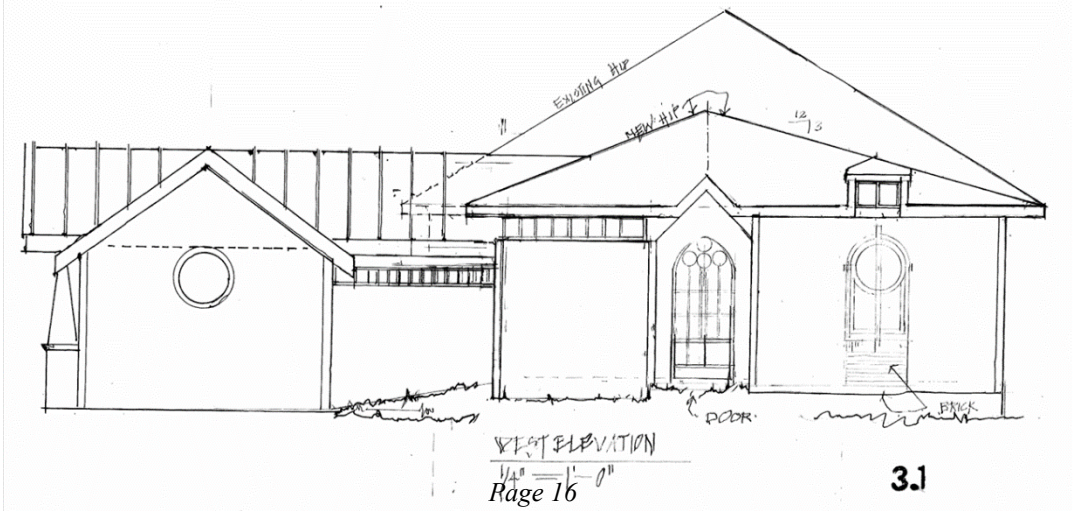
3. Literal Interpretation.
   a. The literal interpretation of the provisions of the regulations would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant
4. Reasonable Use.
   a. The applicant cannot make reasonable use of the property without the requested variance.
5. Minimum Required.
   a. The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.
6. Conformance with the Purposes of this Code.
   a. The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

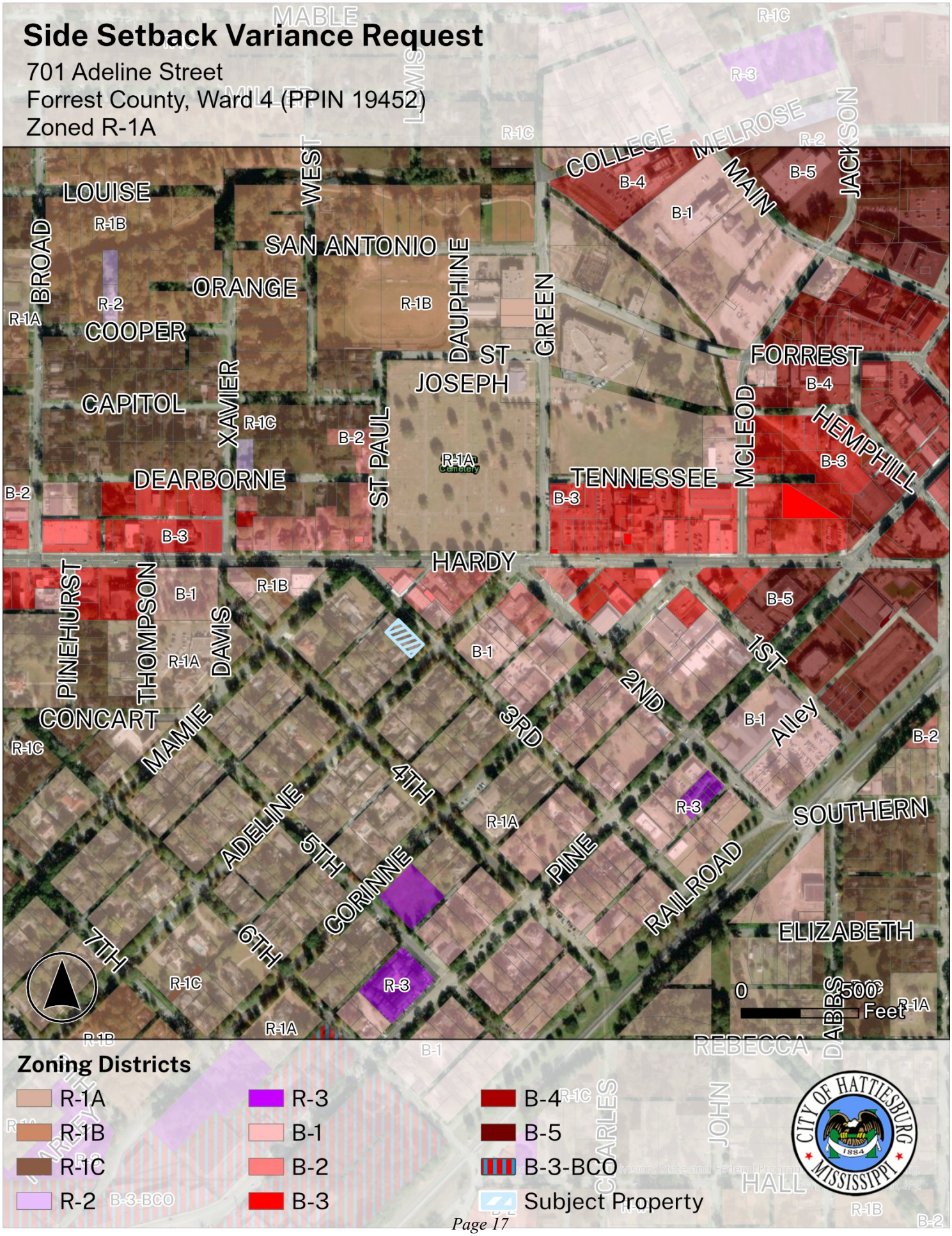
Landarc Consulting Group, Inc. Landscape Architecture & Site Planning 601 582-1198
May, 2026
Albert Residence
Adeline Street
Hattiesburg, Mississippi
Site Plan
Scale: 1" = 16'
Alley (20')
N 44° 48' 08" E 75' (APS)
N 45° 06' 06" W 50.11' (APS)
50.04' (APS)
GUEST HOUSE
AC
Shed
Ex. Gazebo (To be Removed)
PP
70.6'
38.6'
3.37'
15.19'
Carport
Ex. 42" Live Oak
N 44° 42' 40" W 149.86' (APS)
AC
RESIDENCE
New Conc. Drive
Ex. Oak
14'
N 45° 07' 00" E 200.17' (APS)
Ex. Drive
15.32'
38.52'
Bco
S 44° 57' 48" W 75.2' (APS)
Ex. Oak
Ex. Oak
30'
30'
Sight Triangle
WM
3rd Avenue
ADELINE STREET
Legend
Existing Building
Proposed Addition
Addition contingent on Variance
Walk
Renovate/Addition
NOTE:
Site Plan generated from a Boundary Survey performed by:
Shows Dearman & Waits, Engineering
301 2nd Avenue
Hattiesburg, MS
PH 601 544-1821
Looking West from 3rd Avenue
Looking Southeast from Guest House

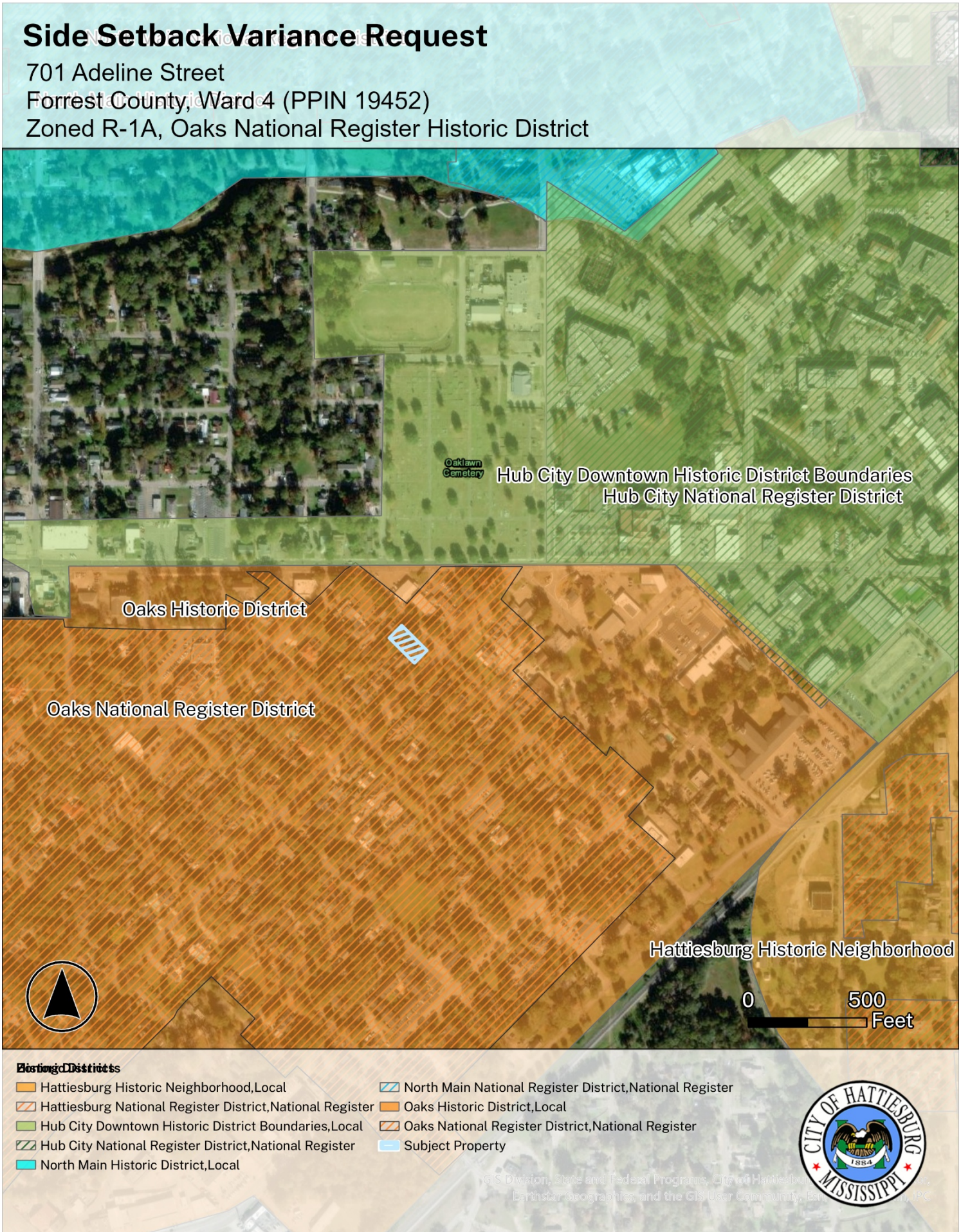

2½"
2'-0"
2½"
EQ.
EQ.
EQ.
3/4" MULLIONS TYP.
3" RAISED WD. DETAILING
WINDOW 'H' 1"=1'-0"
WEATHER VANE BY OWNER - INSTALLED BY G.C.
15
9
CAST CONCRETE STUCCO
3" R
DETAIL 3"=1'-0"
BACK CORNER OF HOUSE
WOOD SIDING TO MATCH HOUSE PNTD. HARDY PLANK
HARDY PLANK DETAILS
BRICK TO MATCH HISTORICAL RIVERSIDE
NEW ARTS+CRAFTS GARAGE
1/4"=1'-0"
3.2

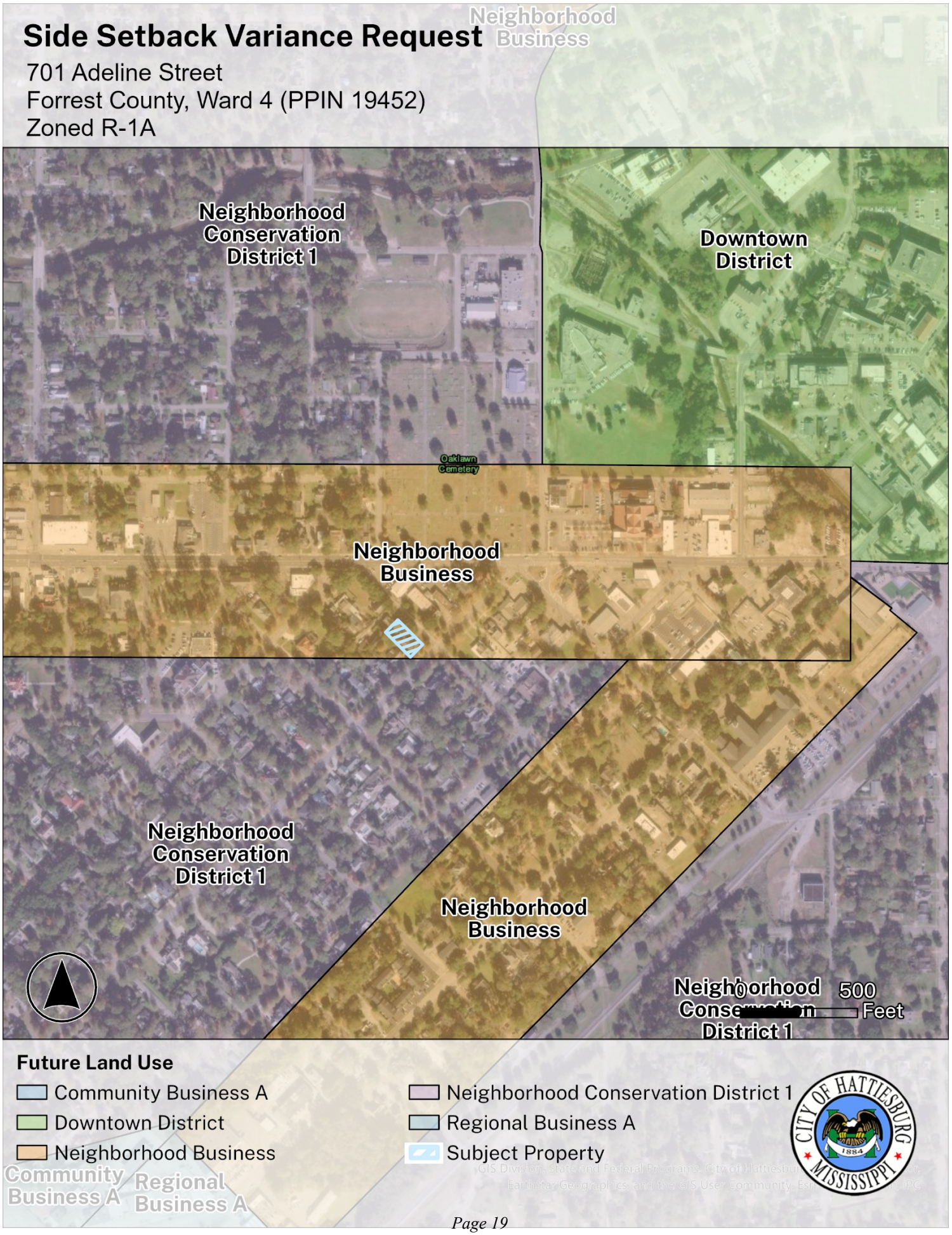

1/4"=1'-0"
SHINGLE MATCHING COLOR OF HOUSE (TYP.)
LINE OF EXPOSED TRUSS
9
42" WINDOW
SEE 5.0
'E'
PAINTED WOOD SIDING
WEST GARAGE ELEVATION
1/4"=1'-0"
3.3


WOOD SIDING
116
B
INSULATED AUTOMATIC SECTIONAL DOOR
EAST GARAGE ELEVATION
1/4"=1'-0"
CENTER POINT


EXISTING HIP
NEW HIP
12/3
DOOR
BRICK
WEST ELEVATION
1/4"=1'-0"
3.1


Side Setback Variance Request
701 Adeline Street
Forrest County, Ward 4 (PPIN 19452)
Zoned R-1A
LOUISE
BROAD
WEST
SAN ANTONIO
ORANGE
COOPER
CAPITOL
XAVIER
DAUPHINE
GREEN
ST JOSEPH
ST PAUL
COLLEGE
MELROSE
MAIN
JACKSON
FORREST
HEMPHILL
MCLEOD
TENNESSEE
DEARBORNE
HARDY
PINEHURST
THOMPSON
DAVIS
CONCART
MAMIE
ADELINE
4TH
5TH
6TH
7TH
CORINNE
1ST
2ND
3RD
Alley
PINE
RAILROAD
SOUTHERN
ELIZABETH
REBECCA
DABBS
0
500
Feet
Zoning Districts
R-1A
R-1B
R-1C
R-2
R-3
B-1
B-2
B-3
B-4
B-5
B-3-BCO
Subject Property
CITY OF HATTIESBURG
MISSISSIPPI
1884


Side Setback Variance Request
701 Adeline Street
Forrest County, Ward 4 (PPIN 19452)
Zoned R-1A, Oaks National Register Historic District
Oaklawn Cemetery
Hub City Downtown Historic District Boundaries
Hub City National Register District
Oaks Historic District
Oaks National Register District
Hattiesburg Historic Neighborhood
0
500
Feet
Hattiesburg Historic Neighborhood,Local
Hattiesburg National Register District,National Register
Hub City Downtown Historic District Boundaries,Local
Hub City National Register District,National Register
North Main Historic District,Local
North Main National Register District,National Register
Oaks Historic District,Local
Oaks National Register District,National Register
Subject Property
CITY OF HATTIESBURG
1884
MISSISSIPPI


Side Setback Variance Request
701 Adeline Street
Forrest County, Ward 4 (PPIN 19452)
Zoned R-1A
Neighborhood Business
Neighborhood Conservation District 1
Downtown District
Oaklawn Cemetery
Neighborhood Business
Neighborhood Conservation District 1
Neighborhood Business
Neighborhood Conservation District 1
0
500
Feet
Future Land Use
Community Business A
Downtown District
Neighborhood Business
Neighborhood Conservation District 1
Regional Business A
Subject Property
CITY OF HATTIESBURG
1884
MISSISSIPPI
Community Business A
Regional Business A

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

NOTE:

- **Fill this application out IN FULL with what applies to your application**
- Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code

Applicant Information

Name Applicant: LARRY A Albert **Project Name:** Resident

Municipal Address of Site: 701 ADELINE ST. **PPIN #:** 19452

Parcel Number(s): 2-029N-09-131.00

Type of Public Hearing	Additional Information Needed:
☑ Variance	☐ Sign ☑ Setback ☐ Off-Site Parking ☐ Lot Width ☐ Lot Coverage Area ☐ Buffer ☐ Open Space ☐ Other: _____
☐ Rezoning	Existing Zoning: _____ Proposed Zoning: _____
☐ Conditional Use	☐ Automotive Filling Station ☐ Digital Billboard, New ☐ Digital Billboard, Replacement ☐ Telecommunications ☐ Restaurant ☐ Solar Farm ☐ Other: _____
Other Application types: ☐ Subdividing of lot, Parcel, or Tract ☐ Street or Alley Renaming ☐ Vacating Street or Alley	☐ Minor/Major Subdivision ☐ Overlay District ☐ Planned Mixed-Use District (PMU)

For Staff Only:			
Zoning:	**Historic District:**	**Flood Zone:**	**Ward:** ☐1 ☐2 ☐3 ☐4 ☐5
Project Number:		**Received:**	
PPIN # or Parcel #:			

Updated Version 12/04/24

Application for Site Plan Review

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

The following fees are an excerpt from Ordinance No. 2977, adopted January 22, 2008, as amended.

Public Hearing Fees	
Public Hearing Type	Fees Associated
Variance Variance applications include one Concept Site Plan Review and one Variance request	**$175.00** per application. **$50.00** for each additional variance.
Street / Alley Naming or Re-Naming	**$300.00** per application. **$100.00** per required street name sign if approved* (*Fees for replacement street signs shall be paid after City Council approval but prior to the effective date.)
Street / Alley Closing	**$300.00** per application.
Conditional Use	**$200.00** per application.
Zoning Change	**$400.00** per application. *see PUD or PRD & zoning package rate)
Planned Unit Development (PUD) or Planned Residential Development (PRD) with zoning change package	**$600.00** per package.
Subdivision of Land (Preliminary Plats) Note: Final Plats should be submitted to the governing body for approval within 12 months of approval of preliminary plats.	**$225.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Planned Unit Development (PUD) or Planned Residential Development with Subdivision of Land Package**	**$500.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Change in Land Development Code Text	**$200.00** per application.
Appeal Fees for Proponent or Opponent appeals to City Council *Exempt from fees – Established Neighborhood Association*	**$50.00** per appeal.
Cancellation/Re-notification fee on any public hearing process (Planning Commission or City Council) that is tabled or cancelled at the owner/developer's Request	**$50.00** (per each 100 mailing labels)

OTHER PROCESSES MAY HAVE ADDITIONAL FEES
Make all checks payable to the City of Hattiesburg

I hereby certify that I have completed and attached the above-required documents, information, and fees.

Print Name: _____ **Signature:** _____

Updated Version 05/22/2025

OWNER AFFIDAVIT PAGE

THIS PAGE MUST BE SIGNED IN FRONT OF A NOTARY, BY THE OWNER(S) OF THE SUBJECT PROPERTY

WITNESS THE SIGNATURES of the **OWNER(s)** of the subject property located at

701 ATHELINE ST. HATTIESBURG MS.

Street Address City State

on this the 29 day of JUNE, 2026.

In the matter of this request, the property owner further authorizes the following named person(s) to represent them at the public hearing on this petition.

SALLY HUGHES

on this the 29 day of JUNE, 2026

LARRY S. ALBERTALS

Property Owner (Print)

Property Owner (Signature)

STATE OF Mississippi

COUNTY OF Forrest

Personally came and appeared before me, the within named

Larry Albert,

who signed and delivered the above and foregoing instrument as and for their free act and deed on the day and year therein mentioned, and who acknowledge to me that they are the owner(s) of the subject property as described in this Public Hearing Application.

GIVEN UNDER MY HAND AND OFFICIAL SEAL OF OFFICE, this the 29 day of June, 2026.

NOTARY PUBLIC

My Commission Expires:

March 10, 2028

STATE OF MISSISSIPPI NOTARY PUBLIC ID # 198695 KIMBERLY ATKINS Commission Expires March 10, 2028 FORREST COUNTY

FOR VARIANCE APPLICANTS:

The Board of Adjustment has the responsibility to hear and make recommendation on requests for variances to the requirements of this Code (per Section 11.4). Section 12.4.1 Variances are departures from the standards of the Land Development Code, except land use, which will not be contrary to the public interest and where, owing to conditions peculiar to the property and not as a result of the action of the applicant, a literal enforcement of this Code would result in unnecessary and undue hardship.

The following conditions must be met before a variance can be recommended.

Approval Criteria.
A variance is not a right, but a privilege that property owners meeting the following criteria may request. These criteria are to be used to consider all variance requests. It shall be the burden of the applicant to prove that the request meets these criteria. Use this worksheet or format your own to demonstrate the following criteria.

1. **Hardship.** (a) the hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant. (b) There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.

   MAKING MY HOUSE ADA ACCESSIBLE AND PROVIDE SAFETY WITH A CLOSED-IN GARAGE

2. **Special Privilege.** A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.

   THE HOUSE ON THE CORNER OF ADELINE & 3RD HAS A GARAGE CLOSER TO 3RD AVE THAN WE HAVE PLANED

3. **Literal Interpretation.** The literal interpretation of the provision of the regulation would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant.

   YES, THERE ARE MANY HOUSES IN THE OAKS DISTRICT WITH GARAGES CLOSE TO THE STREET OUR GARAGE WILL BE 30' FROM 3RD WITH THIS VARIANCE

4. **Reasonable Use.** The applicant cannot make reasonable use of the property without the requested variance.

   See Sheet 8a

5. **Minimum Required.** The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.

See Sheet 8a

6. **Conformance with Purpose of this Code.** The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

See Sheet 8a

12.4.1.2 Conditions of Approval. In recommending the granting of a variance, the Board of Adjustment may require appropriate conditions and safeguards in conformity with this Code. Violation of such conditions and safeguards, when made a part of the terms under which a variance is granted, shall be deemed a violation of the Code. The recommendation of the Board Adjustment shall be presented to the City Council for final action.

4. Reasonable Use. The applicant cannot make reasonable use of the property without the requested variance.

The requested variance is necessary to accommodate the property owner's accessibility needs while maintaining reasonable use of the property within the context of the surrounding neighborhood. The owner is handicapped and requires a detached garage placement that allows safe, convenient, and weather-protected access between the residence and garage. Locating the garage closer to the side property line minimizes the travel distance exposed to rain and other weather conditions, which is an important consideration for the owner's mobility and personal safety.

The zoning ordinance requires accessory structures to maintain a minimum 10-foot side setback; however, strict application of this requirement creates an unnecessary hardship in this specific case due to the functional accessibility needs of the homeowner. The requested variance would permit the garage to be located approximately 1 foot from the side property line.

5. Minimum Required. The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.

The request is therefore both reasonable and minimal in nature, representing the least variance necessary to provide the owner with safe and practical accessibility accommodations while remaining compatible with the historic residential character of the neighborhood.

6. Conformance with Purpose of this Code. The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

Importantly, the adjoining public right-of-way along this side of the property is approximately 81 feet in width, which is substantially wider than the typical rights-of-way found throughout the surrounding residential areas and approximately 21 feet wider than the city standard commonly present in similar neighborhoods. As a result, the reduced setback will not create the same visual or spatial impact that might otherwise occur on a typical residential lot. The unusually wide right-of-way preserves open space, maintains neighborhood character, and lessens any potential adverse effect on adjacent properties.

URBAN DEVELOPMENT
PLANNING DIVISION

PRE-APPLICATION MEETING SUMMARY NOTES
Meeting Date: Thursday, May 21, 2026
Pre-App Number: 0426-1158

Staff Present: Nathan Satcher (Senior Planner), Kevin Bates (Building Official), Nick Bishop (Fire Inspector), Jerald Little (Engineering Technician), Meridian McDaniel (Planner I), Noah Gower (Engineering Technician), Russell Archer (Historic Planner)

STATUS: **SUBMIT PUBLIC HEARING APPLICATIONS (BOARD OF ADJUSTMENT AND HISTORIC)**

Project: ADU

Address: 701 Adeline Street

Presented by: Larry Albert and Sally Hughes

Use Designation: Single Family Residential

PPIN: 19452

Flood Zone: X

Historic District: Oaks Historic

Elevation Certificate Required: No

County: Forrest

Ward: 4

Construction type: Addition

Zoning: R-1A

Estimated Cost: $100,000

Project Summary:

- Applicant Summary
  - Wanting to widen the driveway so it is easier to make the turn. Also creating an addition on the side of the home to make it more accessible.
  - Wanting to collapse both parcels into one.
- Planning
  - Historic
    - Addition will require a public hearing with the Hattiesburg Historic Conservation Commission
      - June Hearing Date- June 10th, 2026 at 12:00 pm
      - June Application Deadline- June 1st, 2026 at 5:00 pm
    - Historic Guidelines
      - Placement is good
      - Exterior finishes will need to be complementary to the existing home
  - Side setback
    - LDC 6.3.2
      - Setbacks in Historic Districts. "Setback requirements for dwellings shall not apply on any lot in a designated historic district where the average setback of existing buildings located on the same side of the street in the same block and, in the case of rear setbacks, on lots abutting rear lot lines, is less or greater than the minimum required setback. In such cases, the setbacks on such lot shall be established as the average of the setbacks of the existing buildings but in no case shall be less than five feet."
    - Minimum side setback required is 10ft
    - Garage is encroaching on the setback

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

- Will require a variance with the Board of Adjustment
    - July Hearing Information
        - July Hearing Date- July 1st, 2026 at 3:30 pm
        - Just Application Deadline: May 26th, 2026 at 5:00 pm
- Building
    - No comments at this meeting.
- Engineering
    - No comments at this meeting.
- Fire
    - No comments at this meeting.

NEXT STEPS:

- Additional information
    - Board of Adjustment: July Hearing Information
        - July Hearing Date- July 1st, 2026, at 3:30 pm
        - Just Application Deadline: May 26th, 2026, at 5:00 pm
    - Historic Conservation Commission
        - June Hearing Date- June 10th, 2026, at 12:00 pm
        - June Application Deadline- June 1st, 2026, at 5:00 pm
- Permits
    - Apply for permits indicated below

APPLICATIONS REQUIRED:

☐	Site Plan Review Checklist and Application	☐	Conditional Use Application
☒	Public Hearing Application	☐	Street/Alley Closing
☒	Variance Application	☐	Major Subdivision
☐	Rezone Application	☐	Minor Subdivision
☒	Certificate of Appropriateness (Historic)	☐	Building Permit Application
☐	Privilege Tax License	☐	Sign Permit

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

ALBERT & ASSOCIATES ARCHITECTS

Gall Albert [redacted]

Garage project

1 message

Griffith, Dr Charles [redacted]
To: [redacted]

Sun, Jun 28, 2026 at 10:16 AM

To whom it may concern:

I have been informed that Larry and Gall Albert have petitioned the city to build a garage on their Adeline property on the third Avenue side. I am very happy to support them in this project and have no concerns related to my own property or the neighborhood in general. I am at 102 Mamie St. Feel free to reach out to me directly if there is anything further I need to clarify. My cell is 601-[redacted]

Respectfully,
Charles R. Griffith, MD

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG BOARD OF ADJUSTMENT

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Sandi Boykins
2. John Eye
3. Shawn Harris, Chair
4. Stacey Ready, Secretary
5. Richard Conville
6. Ronda Norris
7. Herman Dungan

Members Absent:

1. Brandon Williams
2. Jessica Cathey
3. James Hughes
4. Bernard Green, Vice Chair

Staff Present:

1. Wiley Quinn, Director of Urban Development
2. Cory Long, Planning Manager
3. Nathan Satcher, Senior Planner
4. Meridian McDaniel, Planner I

Shawn Harris, Chair, declared the Hattiesburg Board of Adjustment meeting open and in session at 3:34 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Herman Dungan motioned to approve the agenda.

Second:

Stacey Ready.

Vote:

Board Member	Yea	Nay	Other

Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

MINUTES REVIEW

The minutes from the May and June meetings were reviewed.

Motion:

Herman Dungan motioned to approve both May and June's minutes.

Second:

Sandi Boykins.

Vote:

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT

Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

BUSINESS MEETING

1. Planning Report:
2. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Board of Adjustment

Item A: Larry Albert, Applicant, requests a variance from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Sally Hughes

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris		X	
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

Item B: Clearpoint Engineers, Applicant, request a variance from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Eric Davis
- Sarah Newton

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval of the request.

Second:

Sandy Boykins

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye			ABSTAIN
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 6-0-1 vote.

Item C: Laron Smith, Applicant, requests a variance from the residential buffer requirement of 30ft to allow for 0ft for a B-3 (BCO) zoned property located at 1209 Corrine Street (PPIN21809 & 21810, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Laron Smith
- Jammeciq Godfrey

Proponents:

- None

Opponents:

- Kate Smith, President of the Oaks Historic Neighborhood Association
    a. Exhibit C-2
- Jacque Pace
- John McMahan, Farmers Village
- Mary Dryden
- Lee Cook
- Wendi Hill
    a. Exhibit C-3

General Comments:

- Terry Smith
- Chris Vineyard

Motion:

Herman Dungan motioned to recommend denial of the request.

Second:

John Eye.

Board Member	Yea	Nay	Other
Sandi Boykins		X	
Jessica Cathey			ABSENT
Richard Conville		X	
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready			ABSTAIN
Brandon Williams			ABSENT

The motion to recommend denial passed with a 4-2-1 vote.

Item D: United Fence, Applicant, request a variance from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for a I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Johnny Box
- James Davis

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris		X	
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		

Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

BUSINESS MEETING

- Discussion of upcoming text amendment requests.

Quorum was lost at 4:48 pm.

_____

Stacey Ready, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones, Chief Administrative Officer**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Board of Adjustment's recommendation to approve a variance request from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).**
File Number: 2026-711
Minute Book #

Summary
Accept the Board of Adjustment's recommendation to approve a variance request from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1). Board of Adjustment recommended approval on August 5th, 2026.

Recommendation Statement
Board of Adjustment recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Quick Facts:

Applicant:

Clearpoint Engineers and the USM Wesley Foundation

Address:

3200 Montague Blvd

Zoning:

R-3 (Multi-Family Residential)

Future Land Use:

University/College District

Historic District:

N/A

Overlay District(s):

N/A

Flood Zone:

X

Ward:

1

County:

Forrest

PPIN Number(s):

22975 & 22976

Parcel Number(s):

2-028K-07-004.00 & 2-028K-07-005.00

Hattiesburg Board of Adjustment
Planning Division
Item B - Staff Report
August 5th, 2026

Property Image

Applicant's Requests:
Clearpoint Engineers, Applicant, request a variance from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

Background and History

The applicants met with staff in various pre-application and site plan review meetings to discuss their plans to demolish the existing Wesley Foundation building and construct a new Wesley Foundation facility at 3200 Montague Boulevard on the University of Southern Mississippi campus. The proposed development is a mixed-use building that includes dwelling units, a coffee shop, and a place of assembly. During the pre-application process, staff informed the applicants that the property's R-3 zoning district did not permit mixed-use development or a coffee shop as proposed and that amendments to the Land Development Code would be necessary. Staff also explored options for incorporating the coffee shop as an accessory use to the primary place of assembly.

Following those discussions, in November of 2025, the applicants pursued a text amendment to the Land Development Code to allow cafés/coffee shops as an accessory use to a "Place of Assembly," recognizing that coffee shops are commonly integrated into similar institutional and religious facilities. The Planning Commission and City Council subsequently approved the requested Land Development Code text amendment, allowing the proposed use. The applicants also received conditional use approval for the mixed-use development and place of assembly. The property also had previously received a variance in February 2018 permitting up to 69% impervious surface coverage, an increase from the code's maximum of 50%. As the project design evolved, the applicants requested an additional variance to allow for 80% impervious surface coverage. Because variances run with the land, the previously approved variance remained in effect but was insufficient to accommodate the revised site plan. The requested variance for 80% impervious surface coverage has since been approved, allowing the proposed development to proceed as designed.

Following approval of the Land Development Code text amendment, conditional use permits, and impervious surface variance, the applicants proceeded through the Site Plan Review process with staff. During review of the site plan, staff identified that the proposed development contains nine (9) dwelling units. The Land Development Code limits mixed-use developments in the R-3 zoning district to a maximum of seven (7) dwelling units for their property size (17 per acre), since the lot is approximately 0.41 acres. To accommodate the proposed site design, the applicants are requesting a variance to increase the maximum

Surrounding Area Image

Surrounding Area Image

number of permitted dwelling units from seven (7) to nine (9). The remainder of the proposed development remains consistent with the plans previously approved by the Planning Commission and City Council.

Future Land Use:

University Districts This includes properties owned or controlled by colleges or universities, both public and private.

Codes and Regulations

SECTION 6: Dimensional Standards and Measurements

Table 6.1 Dimensional Standards

District	Minimum Lot Size in SF/ Width at Setback	Max. Dwelling Units	Max. Floor Area Ratio	Setbacks in feet				Max. Height*	Max. Impervious Surface Lot Coverage	Buffer in Feet
				Min. Front	Max. Front	Min. Side	Min. Rear			
A-1	130,680 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	35%	-
A-2	43,560 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	50%	-
R-1A	10,000/ 50	1 per lot	-	30	-	10	25	35 feet or 3 stories	50%	-
R-1B	7,500/ 50	1 per lot	-	25	-	10	25	35 feet or 3 stories	50%	-
R-1C	5,000/ 50	1 per lot	-	20	-	10	25	35 feet or 3 stories	50%	-
R-2	4,000/ 40	2 per lot	-	20	-	10	20	35 feet or 3 stories	50%	-
R-3	7,500/ 40	17 per acre	-	20	-	5	20	35 feet or 3 stories	50%	-

Considerations and Basis for Approval

Option:

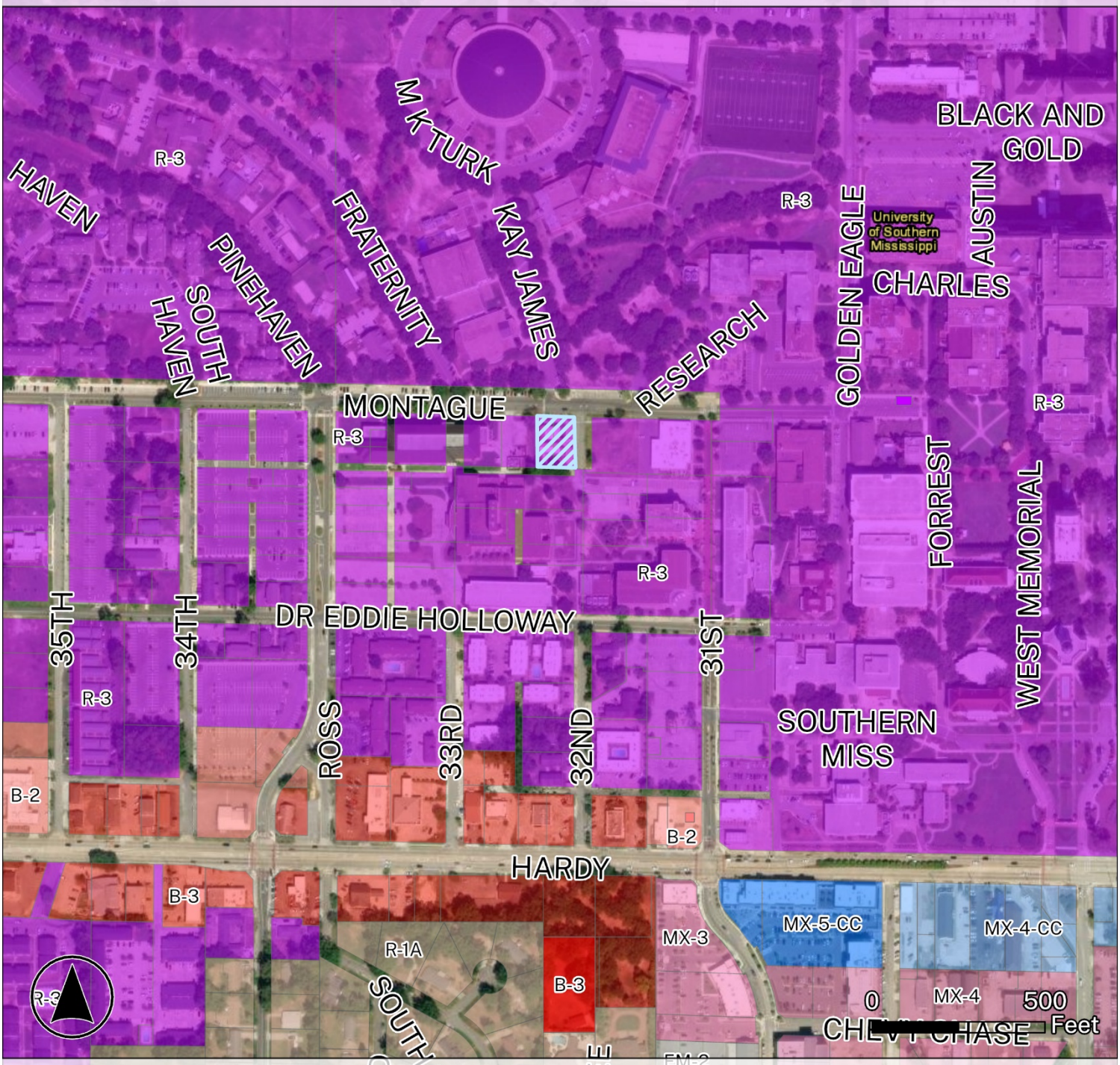
Recommend approval or denial of a variance from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

Basis for Approval:

1. Hardship.
    a. The hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant.
    b. There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.
2. Special Privilege.
    a. A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.
3. Literal Interpretation.
    a. The literal interpretation of the provisions of the regulations would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant
4. Reasonable Use.
    a. The applicant cannot make reasonable use of the property without the requested variance.
5. Minimum Required.
    a. The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.
6. Conformance with the Purposes of this Code.
    a. The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

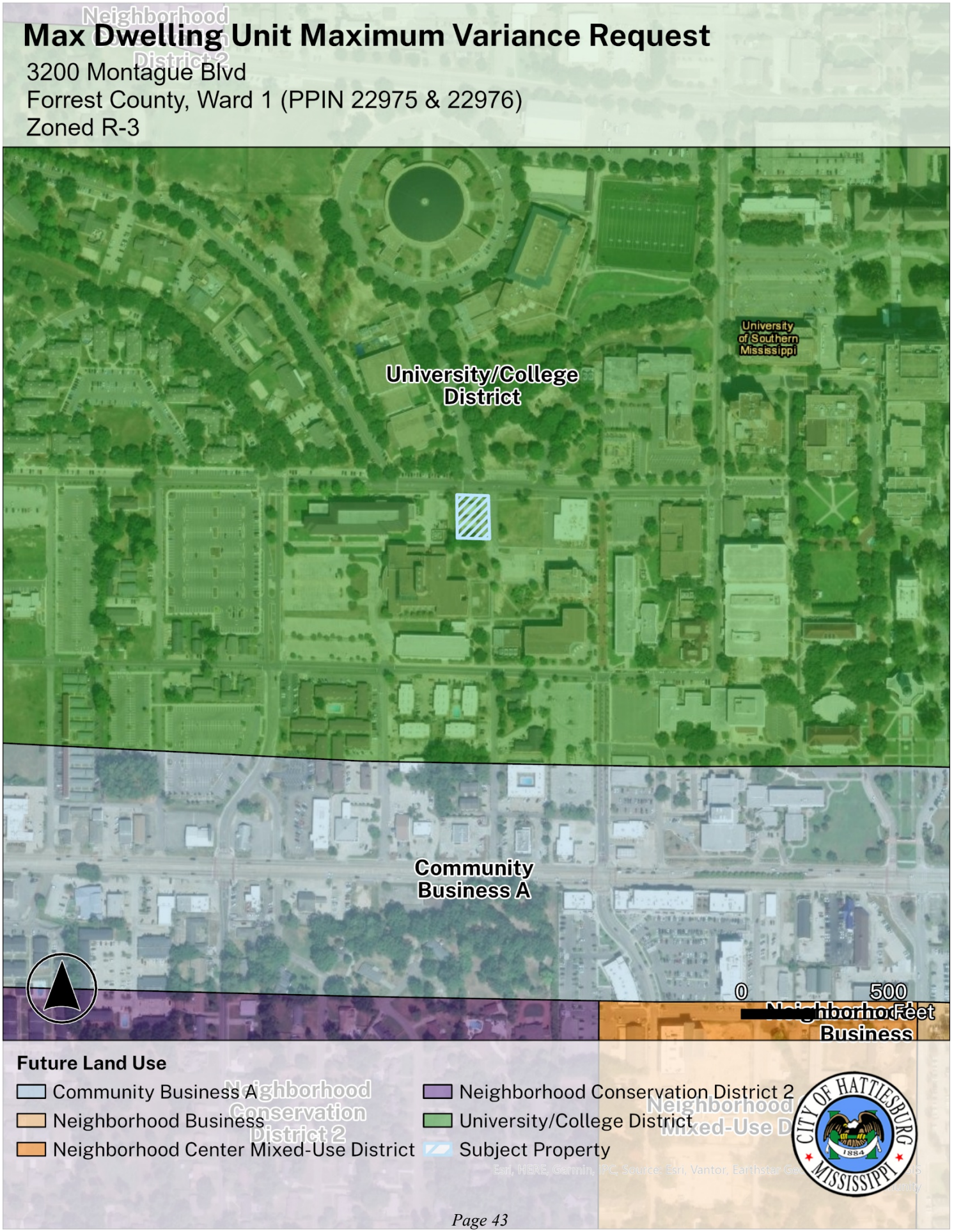
Max Dwelling Unit Maximum Variance Request

3200 Montague Blvd
Forrest County, Ward 1 (PPIN 22975 & 22976)
Zoned R-3



Zoning Districts

- R-1A
- R-1B
- R-2
- R-3
- B-2
- B-3
- RD-2
- RA-3
- MX-3
- MX-4
- MX-4-CC
- MX-5-CC
- EM-2
- OS
- Subject Property


Max Dwelling Unit Maximum Variance Request
3200 Montague Blvd
Forrest County, Ward 1 (PPIN 22975 & 22976)
Zoned R-3
University of Southern Mississippi
University/College District
Community Business A
0
500
Feet
Future Land Use
Community Business A
Neighborhood Business
Neighborhood Center Mixed-Use District
Neighborhood Conservation District 2
University/College District
Subject Property
CITY OF HATTIESBURG
1884
MISSISSIPPI

Site Aerial

Ross Blvd
Pearl St
Montague Blvd
Pinehaven Cir
Fraternity Dr
Kay James Dr
Research Dr
Montague Blvd @ CuBard School
N 32nd Ave
N 31st Ave
Golden Eagle Ave

NOTE: Submit application today Mon 6/29/26, to meet submittal deadline, per Nathan.
$175.00 fee to be dropped off before the hearing date.

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

NOTE:

- **Fill this application out IN FULL with what applies to your application**
- Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code

Applicant Information

Name Applicant: Clearpoint Engineers- John Anglin/Shelby Murray **Project Name:** NEW USM WESLEY FOUNDATION BUILDING

Municipal Address of Site: 3200 Montague Blvd, Hattiesburg (on USM campus) **PPIN #:** 22975 / 22976

Parcel Number(s): 2-08K-004 / 2-028K-005

Type of Public Hearing	Additional Information Needed:
■ Variance (fill out pages 7 & 8)	☐ Sign ☐ Setback ☐ Off-Site Parking ☐ Lot Width ☐ Lot Coverage Area ☐ Buffer ☐ Open Space ■ Other: Number of residential units allowance
☐ Rezoning (fill out page 11)	Existing Zoning: _____ Proposed Zoning: _____
☐ Conditional Use (fill out pages 9 & 10)	☐ Automotive Filling Station ☐ Digital Billboard, New ☐ Digital Billboard, Replacement ☐ Telecommunications ☐ Restaurant ☐ Solar Farm ☐ Other: _____

Other Application types:

☐ Subdividing of a lot, Parcel, or Tract (fill out page 12)
☐ Street or Alley Renaming (fill out pages 13 & 14)
☐ Vacating Street or Alley (fill out pages 13 & 14)
☐ Text Amendment
☐ Overlay District
☐ Planned Mixed-Use District (PMU)

For Staff Only:			
Zoning:	**Historic District:**	**Flood Zone:**	**Ward:** ☐1 ☐2 ☐3 ☐4 ☐5
Project Number:		**Received:**	
PPIN # or Parcel #:			

Updated Version 05/22/25

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

Public Hearing Petitioner Information:

Deadline for applicant to file petition: Mon, June 29, 2026
Hattiesburg Planning Commission Meeting Date: Wed, Aug 5, 2026
Hattiesburg Board of Adjustment Meeting Date: _____
City Council Agenda Review Date – (you or your representative should attend): _____
City Council Meeting (Vote) Date – (you or your representative may attend): _____

- There is a 10-day appeal period, required by State Law, between the Planning Commission Meeting and/or Board of Adjustment Meeting and the City Council Meeting – appeals must be filed within this 10-day period.
    - There is an additional 10-day appeal period, required by State Law, after the City Council Meeting, for all Variances and Conditional Use Permit which ends _____ and a 30-day wait period for Zoning or Street closing/re-naming, PMUs, PRDs, PUDs which ends _____.
- So, if approved by the City, no final site plan review approvals or building permits could be issued prior to these dates.

*Dates and times are subject to change. If an appeal is filed or the petition is tabled for any reason at any stage, the above-listed dates would need to be revised. *

Public Hearing Application Checklist

The following paperwork MUST be attached to this application:

☐ Site Diagram (11" x 17" preferred size): Drawing to scale prepared by professional engineer/surveyor showing lot dimensions, existing/proposed building, signs, parking areas, etc. (Different standards may be accepted only per approval from staff)
☐ Site & Design Review Committee, if needed
☐ Copy of entire Warranty Deed (filed and recorded at the courthouse) with legal description granting title to the current owner. (If the Warranty Deed covers a larger piece of property than the current project, a legal description for this project site only may also be required)
☐ Electronic/Digital copy of legal description REQUIRED for all public notices, saved as Word or text document OR emailed to planning@hattiesburgms.com
☐ An affidavit (pages 3 & 4) attesting that the applicant or representing party (if other than the owner) is acting on behalf of the owner(s) of record. The affidavit must be sworn to before a notary public or other appropriate official. (Included in owners signature page, or may be a separate document).
☐ **Variance application only:** A letter of approval/denial from all adjoining property owners must be obtained and submitted with the application
☐ Other documents needed (if relevant):
☐ Maps of digital billboard removal sites
☐ Maps of digital billboard replacement sites
☐ Documentation on measurements
☐ Other: _____
☐ Payment to the City of Hattiesburg for filing a public hearing application in the amount of $_____

Application for Site Plan Review

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

The following fees are an excerpt from Ordinance No. 2977, adopted January 22, 2008, as amended.

Public Hearing Fees	
Public Hearing Type	Fees Associated
Variance Variance applications include one Concept Site Plan Review and one Variance request	**$175.00** per application. **$50.00** for each additional variance.
Street / Alley Naming or Re-Naming	**$300.00** per application. **$100.00** per required street name sign if approved* (*Fees for replacement street signs shall be paid after City Council approval but prior to the effective date.)
Street / Alley Closing	**$300.00** per application.
Conditional Use	**$200.00** per application.
Zoning Change	**$400.00** per application. *see PUD or PRD & zoning package rate)
Planned Unit Development (PUD) or Planned Residential Development (PRD) with zoning change package	**$600.00** per package.
Subdivision of Land (Preliminary Plats) Note: Final Plats should be submitted to the governing body for approval within 12 months of approval of preliminary plats.	**$225.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Planned Unit Development (PUD) or Planned Residential Development with Subdivision of Land Package**	**$500.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Change in Land Development Code Text	**$200.00** per application.
Appeal Fees for Proponent or Opponent appeals to City Council *Exempt from fees – Established Neighborhood Association*	**$50.00** per appeal.
Cancellation/Re-notification fee on any public hearing process (Planning Commission or City Council) that is tabled or cancelled at the owner/developer's Request	**$50.00** (per each 100 mailing labels)

OTHER PROCESSES MAY HAVE ADDITIONAL FEES
Make all checks payable to the City of Hattiesburg

I hereby certify that I have completed and attached the above-required documents, information, and fees.

Print Name: Stacey Odom, Admin _____ **Signature:** _____

Updated Version 05/22/2025

FOR VARIANCE APPLICANTS:

The Board of Adjustment has the responsibility to hear and make recommendation on requests for variances to the requirements of this Code (per Section 11.4). Section 12.4.1 Variances are departures from the standards of the Land Development Code, except land use, which will not be contrary to the public interest and where, owing to conditions peculiar to the property and not as a result of the action of the applicant, a literal enforcement of this Code would result in unnecessary and undue hardship.

The following conditions must be met before a variance can be recommended.

Approval Criteria.
A variance is not a right, but a privilege that property owners meeting the following criteria may request. These criteria are to be used to consider all variance requests. It shall be the burden of the applicant to prove that the request meets these criteria. Use this worksheet or format your own to demonstrate the following criteria.

1. **Hardship**. (a) the hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant. (b) There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.

2. **Special Privilege.** A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.

   This should not cause any special privilege due to the fact that there are now residential units in the current building and there are no other dwellings in close proximity which are comparable.

3. **Literal Interpretation**. The literal interpretation of the provision of the regulation would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant.

   The majority of the site plan would need to be revised and completely redrawn to remedy the 8 unit allowance as opposed to the 9 units. All other provisions have been provided with parking to accommodate for each resident.

4. **Reasonable Use.** The applicant cannot make reasonable use of the property without the requested variance.

   Reasonable use, again, has been substantiated in the previous submitted site plan drawings. Ample site layout and parking have been equally provided

5. **Minimum Required.** The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.

Granting this variance makes sense, in that the use of this structure reaches full utilization of the second floor square footage for the requested units. This also leaves substantial living space for the ADA unit on the first floor.

6. **Conformance with Purpose of this Code.** The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

It is unclear what intent is being fulfilled in omitting a full unit. It seems that the option of consolidating to 8 units, yet keeping all beds, would not remedy the square footage per acre issue since the usable space would be the same.

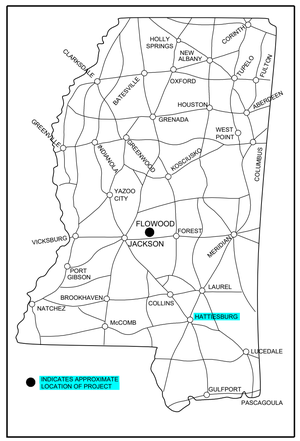
12.4.1.2 Conditions of Approval. In recommending the granting of a variance, the Board of Adjustment may require appropriate conditions and safeguards in conformity with this Code. Violation of such conditions and safeguards, when made a part of the terms under which a variance is granted, shall be deemed a violation of the Code. The recommendation of the Board Adjustment shall be presented to the City Council for final action.

USM WESLEY FOUNDATION
MIXED USE BUILDING
3200 MONTAGUE BLVD

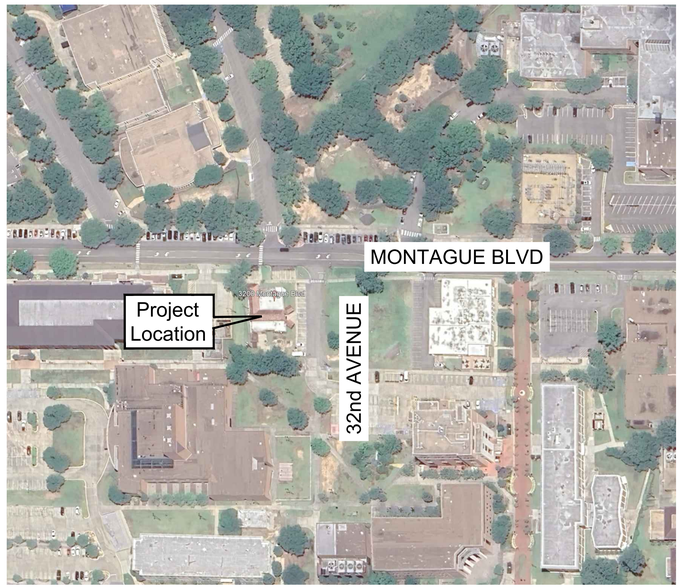
For

Vertikal Collaboration
Hattiesburg, MS

June 4, 2026



LOCATION MAP



VICINITY MAP

NOT TO SCALE

DRAWING INDEX	
Sheet No.	Description
C1.0	Title Sheet
C1.1	Notes, Legend, and Abbreviations
C2.1	Erosion Control Plan
C2.2	Site Plan
C2.3	Grading and Drainage Plan
C2.4	Utility Plan
C3.1	Erosion Control Details
C3.2	Site Details
C3.3	Water Details
C3.4	Sewer Details
C3.5	Storm Details

DRAFT FOR REVIEW

811

Utility Notes:

- The location of utilities are approximate only. Excavation near utilities shown should be done with caution. The Mississippi One-Call Network (1-800-227-6477) should be notified prior to commencing with excavation activities.
- Additional underground utilities may exist. Lacking excavation, however, the exact location of underground utilities cannot be accurately, completely, and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary.

REVISIONS			
NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

Title Sheet

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C1.0

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 11-7-25

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

GENERAL NOTES:

1. The location of utilities shown is based on field surveys of utility markings and/or information provided by utility company personnel. Their location should be considered as approximate only, and other utilities may exist that are not shown on these drawings. Excavation near utilities shown should be done with caution. Prior to construction operations, the Contractor shall verify the location of existing utilities on the project site, and at the Contractor's expense, shall promptly repair those which are damaged by his construction operations. The Mississippi One-Call Network (1-800-227-5477) should be notified prior to commencing with excavation activities.

2. Specifications for all materials and construction methods for street, driveway, or parking lot construction shall conform to the applicable provisions of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, Latest Edition.

3. The Contractor must have written approval from the City Engineer and/or Project Engineer of record before any change in the design is made.

4. All requirements specified in the technical specifications, the Storm Water Pollution Prevention Plan (SWPPP), all MDOT permit(s), and the geotechnical report shall be considered to be included within the Contractor's scope of work for the project, and the Contractor shall be responsible for full compliance therein.

5. The Contractor shall warrant all materials and labor for a period of one (1) year for all work performed by the Contractor and Sub-contractor(s).

6. Contractor shall provide a minimum 24 hour notice to the engineer prior to commencing any construction operations, sampling, or testing.

7. Contractor shall provide all necessary fittings and appurtenances necessary for complete installation of all items whether specifically indicated or not.

8. Any local, state, or federal permitting required for construction shall be the responsibility of the Contractor to obtain.

9. CONSTRUCTION SAFETY IS A PROJECT REQUIREMENT. The Contractor shall be responsible for providing safety equipment and/or methods necessary for the safe prosecution of the work by his personnel and the personnel of any Sub-contractors, as well as providing safe access and site conditions to all elements of the project for the Owner, Engineer and their representatives. Such safety requirement shall meet OSHA guidelines.

10. The Contractor shall assign a competent, experienced, and employed superintendent to be on site at all times during all phases of construction. Work on the project site shall cease if the superintendent is not on site for an extended period of time.

11. It is the responsibility of the Contractor to protect existing structures and utilities that are to remain such as pipes, inlets, paved ditches, gas pipelines, water mains, sewer mains, underground power/fiber, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the Contract. No payment to Contractor will be made for replacement or repair of damaged items.

12. All existing signs, fences, mailboxes, and other incidental structures located with the project construction limits shall be temporarily removed and reestablished as required by construction activities. Any damaged items shall be replaced at the Contractor's expense.

13. To prevent damage to adjacent properties, Contractor shall properly establish the property boundaries of the subject property site prior to any construction activities within the subject property. The Contractor shall not enter upon or cause damage to adjacent properties without written permission from adjacent property owner(s).

14. Contractor shall seed, fertilize, and mulch all areas (not proposed as paved or under roof) disturbed by construction activities and insure a complete stand of grass. Apply per seasonal limitations.

15. The Contractor shall be responsible for completing all sampling and testing of materials incorporated into the project and for submission of same to the Engineer for review. All phases of testing, including but not limited to sampling, transporting, and testing of materials, must be performed by a certified testing laboratory. Prior use test results, manufacturer's certificates, or proposed mix designs shall be submitted to the Engineer for review before incorporation into the project. This shall include embankment, back fill, seed, and all other items specified by the Engineer. Quality control/testing shall be the responsibility of the Contractor.

16. Construction staking shall be provided by the Contractor.

17. Contractor shall provide proper traffic control (signs, barricades, flagmen, etc.) when working within highway or county right-of-way. Appropriate personnel shall be notified at least 48 hours prior to commencing any construction operations within highway right-of-way. All traffic control materials and procedures shall be in full compliance with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD). Contractor shall also ensure that access to existing residences and businesses is maintained during all phases of construction, and shall be responsible for all related coordination.

18. Material submittals shall be made to the Owner through the Engineer prior to use, for approval. All materials shall be new; used materials shall not be installed.

19. The Contractor is required to remove all spoil material on a daily basis.

20. The Contractor is responsible for coordinating with existing residences or businesses regarding temporary interruption of access and/or utility service, if required, and shall sequence construction operations as necessary to ensure that said interruption of access and/or utility service is kept to a minimum.

21. The Contractor is responsible for coordinating with the power company regarding establishment of temporary and permanent power, and shall include all required connection and meter fees in their bid.

22. No construction activities shall commence until all approvals and permits have been obtained from governing authorities, including but not limited to those required by the City, County, MS Department of Health, MS Department of Environmental Quality, Mississippi Department of Transportation (MDOT), Corps of Engineers, Utility Associations). Any work performed prior to obtaining said permits and approvals shall occur at the risk of the Contractor and/or Owner.

23. Contractor shall provide minimum 48 hours to M.D.O.T. personnel prior to performing any working within highway right-of-way. Contractor shall keep a copy of the MDOT permit on site at all times (if required).

24. All costs associated with dewatering (if required) shall be absorbed by the Contractor. Contractor shall employ dewatering methods as required for complete installation of storm drainage and utilities. Prior to bid, it is the Contractor's responsibility to consult the geotechnical report and make site visits necessary in order to determine costs required for dewatering effort.

25. At project completion, the Contractor shall provide as-built "markup" drawings to the Engineer, based on field measurements, that accurately show the location of all subsurface utility and drainage improvements (i.e. roof drain/downspout collection, water mains/service lines, sewer service lines, sewer force mains, irrigation, power, communication, gas, etc.).

26. Existing conditions and topography shown on these construction drawings are representative of conditions on October 17, 2023, and may not be representative of existing conditions as of the date of these drawings. Prior to execution of a contract, the Contractor is responsible for visiting the site to determine the scope of work.

27. Prior to construction layout of proposed building(s), the architectural drawings shall be used to verify the building dimensions shown on civil drawings. Should discrepancies exist between architectural drawings and civil drawings, then architectural drawings shall control.

SEWER NOTES:

1. Construction and materials for sanitary sewer improvements shall conform to the specifications of the Mississippi Department of Environmental Quality and the local sewer service provider.

2. All sanitary sewer mains and services shall be PVC SDR-26. Sewer services shall be 6" in diameter, and shall be installed on a minimum 1% slope.

3. Bedding material shall be required beneath all sanitary sewer mains, and beneath all sanitary sewer services located under roadways and paved areas. Bedding material shall be a gravel-sand mixture, all of which passes a 1 1/2 inch sieve, not more than 30 percent of which passes a No. 4 sieve, and not more than 5 percent of which passes a No. 200 sieve.

4. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill sewer pipe trenches.

5. A manhole drop connection is required if the vertical distance between an influent sanitary sewer main or service and the bottom of the manhole exceeds two feet.

6. Sewer mains and services must be buried a minimum of 36" below finished grade.

7. Locator wire (14 gage copper) shall be placed along and attached to all new sewer mains.

8. The Contractor shall verify location, size, and invert elevation of existing sewer mains and/or manholes prior to commencing connection operations. The Contractor shall coordinate with the Engineer regarding any necessary adjustments to new sewer lines as necessary to allow for proper connection and installation.

9. Contractor shall refer to mechanical / plumbing drawings to verify locations and sizes of sewer services prior to installation. Adjustments to sewer service location(s) and invert elevation(s); and grease trap locations (if required) shown on these drawings shall be made as necessary through coordination with the Project Engineer. For sewer services, the scope of these drawings terminates at a location five feet (5') outside of the exterior building wall. Refer to mechanical / plumbing drawings for continuation into the building.

10. The Contractor is responsible for coordinating with the utility service provider prior to connecting to existing sewer or relocation of existing sewer (if required). The Contractor is responsible for ensuring that utility service personnel are present during critical phases of installation (i.e. connection, relocation, testing, etc.). Cost of connection fees shall be responsibility of the Contractor.

11. Prior to being placed into service, all new sewer mains must be tested according to the specifications.

12. The Contractor shall be responsible for providing minimum 48 hours notice to the sewer service provider during critical phases of sewer installation (i.e. connections, relocations, pressure tests, etc.) to allow opportunity for on-site observation.

GRADING AND DRAINAGE NOTES:

1. All available topsoil within the construction limits shall be stripped, stockpiled in a designated area to be approved by the Engineer, and replaced on slopes or as directed by the Engineer. Upon completion of grading, the Contractor shall place a sufficient quantity of topsoil (4" minimum) to insure grass growth on the designated area. Topsoil shall be used to achieve final grades on roadway slopes and on slopes outside of paving limits. Any excess topsoil shall remain stockpiled for future use by the Owner.

2. Finished contours are intended to show a general representation of drainage patterns and slopes after paving, grading, replacement of topsoil, and/or placement of sod. Regardless of the level of grading detail shown on these drawings, Contractor shall take whatever steps necessary to ensure that positive drainage occurs on all areas of project site, specifically away from buildings. Prior to final grading, Contractor shall make allowances for placement of sod and landscape beds to ensure final design grades are achieved and that these areas are free of debris. Contractor shall coordinate with landscaping personnel to ensure that landscape beds are placed sufficiently below building finished floor elevations and that they do not trap water against buildings. Where roof drains are discharged onto the surface, Contractor shall extend downspouts along finished grade beyond landscape areas as needed for free discharge.

3. At the expense of the Contractor, the Contractor shall maintain existing drainage patterns and construct temporary structures, embankments, and culverts as required to maintain the drainage system and capacity in the work area. Any and all temporary structures, embankments, and culverts constructed during the progress of work shall be removed and the area restored to its original condition.

4. The Contractor shall furnish, place, and maintain all sheeting, shoring, and bracing required to support the sides of the required trench excavations. The Contractor shall be responsible for the sufficiency of any such supports to prevent any movement which can in any way damage or delay the work; endanger or cause damage to adjacent pavements, buildings, or other structures; or create undue hazards to workmen.

5. Existing ground elevations are a general representation of existing ground topography prior to demolition operations.

6. In cases where adjacent grades are higher than the building finished floor elevations, then Contractor shall coordinate with the architect regarding special design accommodations and waterproofing.

7. Contractor shall notify Engineer of any conflicts between civil drawings and architectural drawings regarding proposed grading at doorways and entrances.

8. Spot elevations shown adjacent to curb and gutter and/or adjacent to sidewalk are referenced to edge of pavement. Where shown along edge of sidewalks, add 6" for adjacent top of sidewalk elevation.

9. A.D.A. REQUIREMENTS:
- For handicap spaces and aisles, finished grade slopes shall not exceed 1.5% in any direction.
- Longitudinal slopes along sidewalks and handicap accessible routes shall not exceed 4.5%.
- Transverse slopes across sidewalks and handicap accessible routes shall not exceed 1.5%.

10. A geotechnical report for the project has been prepared by W GEOTECHNICAL AND TESTING, INC. DATED MAY 15, 2024. Refer to said report for a description of in-situ soils and all phases of site preparation and testing requirements. It is highly recommended that a representative of Terracon Consultants be present during earthwork operations to ensure the buffer requirements are met and to ensure proper compaction of backfill. If any discrepancies are found between previously mentioned GEOTECHNICAL REPORT and construction plans, the geotechnical report shall govern.

11. Structural design of retaining walls, including backfill and drainage requirements, is not included within the scope of these construction drawings. Structural design of retaining walls shall be provided by the Contractor, and the Contractor is responsible for coordinating with the Owner and Landscape Architect regarding colors, block styles, etc. Retaining wall design shall be performed by a Professional Engineer registered in the State of Mississippi.

12. See sheet C3.5 for bedding requirements for High Performance (HP) storm drainage pipe.

13. With the exception of curb inlet tops, drainage structures may be pre-cast or cast-in-place. Brick or block inlets are not allowed. Curb inlet or grate inlet tops shall conform to the longitudinal top of curb grade and must be cast-in-place. Precast curb inlet tops are not permitted. For curb inlets on longitudinal grade, precast tops are not permitted. Curb inlet top elevations shown are referenced to the top of curb elevation at the center of the curb inlet box. Where located adjacent to curb and gutter, grate inlet tops shall be set equal to flowline elevation of gutter.

14. All sizes of flared end sections may be furnished with either bell and spigot or tongue and groove joints.

15. The Contractor shall verify location, size, and invert elevation of existing storm drainage pipes, structures, and ditches prior to commencing connection operations. The Contractor shall provide necessary adjustments to new storm drainage lines as necessary to allow for connection and installation.

16. Any accumulated sediment inside new or existing storm drain lines within project construction limits shall be flushed prior to completion of project.

17. No slopes shall be constructed steeper than 3:1, unless specifically noted on drawings.

18. Prior to placement of fill and sub-base course, areas which are at final subgrade or are to receive fill should be proof-rolled with a loaded tandem axle truck to demonstrate stability.

19. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill storm drainage trenches.

20. The Contractor is responsible for field-verifying existing invert elevations or existing ground elevations prior to connecting to existing drainage structures, existing drainage pipes, or existing ground.

WATER NOTES:

1. Construction and materials for the water distribution system shall conform to the specifications of the Mississippi Department of Health and the local water service provider.

2. Water mains and services shall be installed at least 10 feet horizontally and 18 inches vertically from any sewer main or service or sewer manhole. The bottom of the water pipe shall be at least 18 inches from the top of the sewer pipe. Water mains/services shall always be constructed above sewer mains/services. Where local conditions prevent adequate horizontal and vertical separation, the Bureau of Water Supply may allow the water main/service to be laid closer to the sewer main/service if supported by adequate design data from the design engineer. Each situation will be reviewed by the Bureau of Water Supply on a case by case basis. A detailed drawing shall be included in the plans for water line construction submitted to the Bureau of Water Supply for review and approval. Where adequate horizontal and/or vertical separation cannot be maintained, the following requirements shall apply:

- If the 10 foot horizontal separation between water and sewer pipes cannot be maintained then the water pipe should be ductile iron with the water pipe joints located at the maximum distance possible from sewer pipe joints. PVC pipe may be used if it is protected by steel casing. Also, the water and sewer pipes must be in separate trenches with adequate space for maintenance. In some cases, special sewer pipe construction procedures may be required.
- Where the 10 foot horizontal and 18 inch vertical separation cannot be maintained, condition 1 above must be met and the sewer pipe shall be constructed according to water main standards.
- NOTE: Where water pipes cross sewer pipes, the above requirements will be waived if pipe segments are centered to provide a maximum spacing of the joints of both water and sewer pipes and a vertical separation of at least 18 inches (water over sewer) is maintained.

3. Location and size of existing water mains are based on information provided by others and by MS One-Call. The Contractor shall verify location and size of existing water mains prior to commencing boring or connection operations, and shall provide necessary adjustments to both new and existing water lines to allow for connection and installation.

4. Contractor shall refer to mechanical / plumbing drawings to verify locations and sizes of fire and domestic services prior to installation. Adjustments to fire services; domestic services and post indicator valves; and remote fire department connections shown on these drawings shall be made as necessary through coordination with the Project Engineer. For domestic and fire services, the scope of these drawings terminates at a location five feet (5') outside of the exterior building wall. Refer to mechanical / plumbing drawings for continuation into the building.

5. Water mains and services must be buried a minimum of 36" below finished grade.

6. All water pipe shall be PVC C-900, Class 235 (DR 18) pipe, and all service pipe shall be C.T.S. tubing. All fittings shall be ductile iron mechanical joint (MJ) fittings. Concrete thrust blocking and Megalug fittings are required at all bends and tees. All water mains and services located under roadways shall be encased in Schedule 40 PVC casing.

7. All items shown on water lines (i.e. hydrants, valves, fittings) are shown in general locations only and may be slightly adjusted in the field as warranted by installation requirements. Where possible, valves and hydrants are to be installed in unpaved locations.

8. Locator wire (12 gage copper) shall be placed along and attached to all new water mains. Tracer wire to be a minimum of 3 feet in all valve boxes.

9. A ductile iron cap is required at the end of all water mains.

10. Backflow prevention measures for fire services are to be installed within the buildings (see architectural / mechanical drawings).

11. The Contractor is responsible for coordinating with the utility service provider prior to connecting to existing water or relocation of existing water (if required). The Contractor is responsible for ensuring that utility service personnel are present during critical phases of installation (i.e. connection, relocation, testing, etc.). Cost of connection fees and meters shall be responsibility of the Contractor.

12. Prior to being placed into service, all new water mains must be pressure tested and disinfected according to the specifications. A pressure test shall be conducted using a minimum of 150 psi or 1.5 times the working pressure, whichever greater, for two (2) hours under the inspection of an Engineer's representative. Using samples obtained by the water service provider 24 hours apart, two (2) consecutive bacteriological tests are required to be determined as satisfactory by a laboratory certified by the Mississippi State Department of Health.

13. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill water pipe trenches.

ABBREVIATIONS

AC	ACRES	F.G.	FINISHED GROUND	PM	PLAN MEASURE
AEA	AVERAGE END AREA	FL	FLOW LINE	PMH	PROPOSED MANHOLE
AH	ABSORBED HAUL	FM	FINAL MEASURE	POB	POINT OF BEGINNING
APR	AS PER RECORD	FME	FINAL MEASURE EMBANKMENT	POC	POINT OF COMMENCEMENT
APS	AS PER SURVEY	GA	GAUGE	PRC	POINT OF REVERSE CURVATURE
BC-1	BRANCH CONNECTION	GP	GROUP	PROP.	PROPOSED
C.B.	CHORD BEARING	H.D.	HEAVY DUTY	PT	POINT OF TANGENCY
C.L.	CHORD LENGTH	HP	HIGH POINT	R	CURVE RADIUS
CL	CLASS	HYD	HYDRANT	R.D.	ROOF DRAIN
CMP	CORRUGATED METAL PIPE	INV.	INVERT	R.O.W.	RIGHT-OF-WAY
CONT.	CONTINUOUS	IPF	IRON PIN FOUND	RCAP	REINFORCED CONCRETE ARCH PIPE
CP	CONTROL POINT	IPS	IRON PIN SET	RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE	L	CURVE LENGTH	REQ'D	REQUIRED
CY	CUBIC YARDS	LB	POUNDS	RT	RIGHT
DS	DOWNSTREAM	LF	LINEAR FEET	SF	SQUARE FOOT
E=	EASTING	LP	LOW POINT	STA.	STATION
E.W.	EACH WAY	LS	LUMP SUM	SY	SQUARE YARD
EA.	EACH	LT	LEFT	TEMP.	TEMPORARY
E.G.	EXISTING GROUND	MPF	METAL PIPE FOUND	T.O.C.	TOP OF CURB
ELEV.	ELEVATION	N=	NORTHING	TYP.	TYPICAL
EMH	EXISTING MANHOLE	O.A.	ON CENTER	U.G.	UNDERGROUND
EX.	EXISTING	OS	OFFSET	US	UPSTREAM
F.B.	FLAT BOTTOM	PC	POINT OF CURVATURE	V.C.	VERTICAL CURVE
FCM	FOUND CONCRETE MARKER	PC-1	PIPE COLLAR	VF	VERTICAL FOOT
FES	FLARED END SECTION	PKF	PINE KNOT FOUND	WV	WATER VALVE

LEGEND

	TEMPORARY STRAW WATTLES		SUBJECT PROPERTY BOUNDARY
	PROP. REMOTE FIRE DEPT. CONNECTION		PROP. RIGHT-OF-WAY OR EASEMENT
	PROP. FIRE HYDRANT WITH VALVE		EX. RIGHT-OF-WAY OR EASEMENT
WV	PROP. GATE VALVE		PUBLIC LAND SYSTEM (40/SECTION) LINES
	EX. FIRE HYDRANT		PROP. CENTERLINE
WV	EX. GATE VALVE		PROP. TEMPORARY SILT FENCE
WM	EX. WATER METER		CENTERLINE OF DITCH OR SWALE
PV	PROP. PUMP STATION & VALVE PIT	295	PROP. CONTOUR
S	PROP. SEWER MANHOLE	295	EX. MAJOR TOPOGRAPHIC CONTOUR
	PROP. SEWER CLEAN-OUT	294	EX. MINOR TOPOGRAPHIC CONTOUR
	PROP. GREASE TRAP		PROP. SETBACKS
W	PROP. DOMESTIC WATER SERVICE		PROP. CONSTRUCTION LIMITS
F	PROP. FIRE PROTECTION SERVICE		RAILROAD TRACKS
S	PROP. SEWER SERVICE		WOOD FENCE
PV	EX. PUMP STATION WITH VALVE PIT		EX. CHAIN LINK FENCE
S	EX. SEWER MANHOLE		EX. BARBED-WIRE FENCE
	EX. SEWER CLEAN-OUT		EX. TREE LINE
	PROP. LIGHT POLE		EX. EDGE OF PAVEMENT
	EX. LIGHT POLE		EX. 100 YEAR FLOODPLAIN BOUNDARY (*PLOTTED FROM FIRM*)
	EX. UTILITY POLE		PROP. ROADWAY DAYLIGHT LINE
	EX. GUY WIRE		PROP. STORM DRAINAGE PIPE WITH F.E.S.
T	EX. POWER TRANSFORMER		EX. STORM DRAINAGE PIPE WITH F.E.S.
	PROP. HEAVY-DUTY GRATE INLET		PROP. WATER LINE (WITH SIZE)
	PROP. LIGHT-DUTY YARD INLET		PROP. GRAVITY SEWER MAIN (WITH SIZE)
	PROP. JUNCTION BOX	4"FM / 4"FM	PROP. FORCE MAIN (WITH SIZE)
	PROP. CURB INLET WITH EXTENSION		EX. WATER MAIN (WITH SIZE)
	EX. HEAVY-DUTY GRATE INLET		EX. GRAVITY SEWER MAIN (WITH SIZE)
	EX. LIGHT-DUTY YARD INLET		EX. SEWER FORCE FORCE MAIN (WITH SIZE)
	EX. JUNCTION BOX		EX. GAS LINE (WITH SIZE)
	EX. CURB INLET WITH EXTENSION		EX. HIGH PRESSURE GAS LINE
260.40	FINISHED GRADE SPOT ELEVATION		EX. OVERHEAD POWER LINE
	DIRECTION OF SURFACE FLOW		EX. UNDERGROUND POWER LINE
	HORIZONTAL/VERTICAL CONTROL POINT		EX. OVERHEAD TELEPHONE
BFO	BURIED FIBER OPTIC MARKER		EX. UNDERGROUND TELEPHONE LINE
	BENCHMARK		EX. UNDERGROUND FIBER OPTIC LINE
	HANDICAP		EX. BURIED CABLE (UNKNOWN)
	STORM AND SEWER FLOW DIRECTION		PROP. IRRIGATION SLEEVE
	ROADWAY SIGN		HEAVY DUTY PAVEMENT
BORE	BORE HOLE		LANDSCAPED SURFACE
	CONCRETE RIGHT-OF-WAY MARKER		CONCRETE SURFACE
	PROPERTY CORNER		RIP-RAP SURFACE
	HVAC UNIT		FLEXAMAT SURFACE
	FLAG POLE		
	WHEEL STOP		

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NO.	DATE	DESCRIPTION	BY

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Notes, Legend, and Abbreviations

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C1.1

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

15" RCP
Outfall Unknown
24" RCP
Existing Drain Inlet
Top = 212.40
Inv. Out = 204.40
Existing Inlet
Existing Drain Inlet
Top = 206.10
Inv. = 203.10
12" CPP
EX. CURB INLET
EX. SIDEWALK
AIR CONDITIONERS AND CONCRETE PADS (TO BE REMOVED)
DECK (TO BE REMOVED)
N00°02'48"W 169.80' APS
SOUTH 170.1' APR
EXISTING POLE (TO BE REMOVED)
EXISTING TREE TO BE REMOVED
EXISTING TREE
IPF
EX. WATER VALVE
EXISTING POLE (TO BE REMOVED)
CONCRETE SIDEWALK (TO BE REMOVED)
ASPHALT ON CITY RIGHT OF WAY (TO BE REMOVED)
EX. SEWER SERVICE
CONCRETE (TO BE REMOVED)
WATER SERVICE (TO BE REMOVED AND RELOCATED)
GAS SERVICE (TO BE REMOVED)
CONCRETE (TO BE REMOVED)
EXISTING DRAIN INLET TOP = 211.80 INV. = 207.30 (TO BE REMOVED)
EXISTING OVERHEAD ELECTRIC (TO BE REMOVED)
SEWER CLEANOUTS (2) (TO BE REMOVED)
EX. WATER SERVICE
EX. LIGHT (TO BE REMOVED)
1 STORY BRICK (TO BE REMOVED WITH ALL RELATED ITEMS) Min. FFE= 208.34' ± Max. FFE= 212.49 ±
EXISTING STORM PIPES (TO BE REMOVED)
N88°19'59"W 110.18 APS
EAST 110.00 APR
SIDEWALK (TO BE REMOVED)
EXISTING DRAIN INLET TOP = 212.15 INV. = 211.50 (TO BE REMOVED)
8" PVC (TO BE REMOVED)
4" PVC (TO BE REMOVED)
CONCRETE SIDEWALK (TO BE REMOVED)
S88°41'46"E 110.08' APS
EAST 110.00' APR
EXISTING OVERHEAD ELECTRIC (TO BE REMOVED)
ASPHALT ON CITY RIGHT OF WAY (TO BE REMOVED)
EXISTING DRAIN INLET TOP = 211.30 INV. = 206.00 (TO BE REMOVED)
6" PVC (TO BE REMOVED)
EXISITNG SIGNS (8) (TO BE REMOVED)
EXISTING BIKE RACK (TO BE REMOVED)
CONCRETE (TO BE REMOVED)
CONCRETE (TO BE REMOVED)
EX. CONCRETE FLUME
CONCRETE PAVEMENT TO BE REMOVED
136 LINEAR FEET OF CURB TO BE REMOVED
EX. CONCRETE SIDEWALK TO BE REMOVED
REMOVE AND REPLACE EXISTING 6" PIPES
SIGN (TO BE MOVED TO CENTER ISLAND ON MONTAGUE STREET)
MONTAGUE (80' R.O.W.) (ASPHALT)
S00°04'17"E 170.69' APS
SOUTH 170.2' APR
1' WIDE ASPHALT REMOVAL SAWCUT EXISTING ASPHALT 135 LINEAR FEET OF ASPHALT TO BE REMOVED
32nd AVENUE (50' R.O.W.) (ASPHALT)
EX. FIRE HYDRANT
EX. SEWER MANHOLE
EX. DRAINAGE INLET
EX. WATER VALVE
EX. DRAINAGE INLET
NOTE: REMOVAL OF ALL ITEMS WITHIN CONSTRUCTION LIMITS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF PROPOSED IMPROVEMENTS, WHETHER SPECIFICALLY INDICATED ON THIS PLAN OR NOT.

GRAPHIC SCALE
10 0 5 10
(IN FEET)

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NO.	DATE	DESCRIPTION	BY

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Demolition Plan

USM Wesley Foundation
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Hattiesburg, MS

SHEET NO. C1.2

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

EX. CURB INLET

Existing Inlet

EX. SIDEWALK

Existing Drain Inlet
Top = 206.10
Inv. = 203.10

TEMPORARY STRAW WATTLE REQ'D

EXISTING TREE

N00°02'48"W 169.80' APS
SOUTH 170.1' APR

EX. WATER VALVE

TEMPORARY CONSTRUCTION EXIT REQ'D

FFE=209.00'

TEMPORARY STRAW WATTLE REQ'D

EX. SEWER SERVICE

STORM FLOW ARROWS (TYPICAL) REQ'D

FFE=209.00'

EX. WATER SERVICE

FFE=217.0'

SILT FENCE (TYPICAL) REQ'D

N88°19'59"W 110.18' APS
EAST 110.00' APR

S01°47'46"E 110.08' APS
EAST 110.00' APR

SILT FENCE (TYPICAL) REQ'D

EX. CONCRETE FLUME

S00°04'17"E 170.69' APS
SOUTH 170.2' APR

SILT FENCE (TYPICAL) REQ'D

EX. FIRE HYDRANT

EX. SEWER MANHOLE

EX. DRAINAGE INLET

EX. WATER VALVE

EX. DRAINAGE INLET

DRAFT FOR REVIEW

GRAPHIC SCALE
10 0 5 10
(IN FEET)

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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Erosion Control Plan

USM Wesley Foundation
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Hattiesburg, MS

SHEET NO. C2.1

PROJ. NO.: 92952001	DRAWN BY: SDM	CHECKED BY: JCA	SCALE: NONE	DATE: 7-8-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

15" RCP

Outfall Unknown

24" RCP

Existing Drain Inlet
Top = 212.40
Inv. Out = 204.40

12" CPP

REQUEST 10% VARIANCE FROM 5' BUILDING SETBACK

REQUEST 10% VARIANCE FROM 8' LANDSCAPE BUFFER

LARGE TREE REQ'D (TYP) (REFER TO LANDSCAPE PLAN)

GREEN 5=120 SF

GREEN 4=613 SQUARE FEET

N00°02'48"W 169.80' APS
SOUTH 170.1' APR

5' SIDE SETBACK

BLDG
FFE=209.0'

REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 5" THICK CONCRETE MINIMUM 4000 PSI REQ'D

5'x5' TRUNCATED DOMES ADA LANDING REQ'D

GREEN 7=320 SF

LARGE TREE REQ'D (TYP) (REFER TO LANDSCAPE PLAN)

6" CURB REQ'D

GREEN 3=2500 SQUARE FEET

20' REAR SETBACK

BLDG
(SEE ARCH.)
FFE=217.0'

GREEN 6 =138 SQUARE FEET

20' FRONT SETBACK

GREEN 2 =200 SQUARE FEET

N88°19'59"W 110.18 APS
EAST 110.00' APR

S88°47'46"E 110.08' APS
EAST 110.00' APR

REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 5" THICK CONCRETE MINIMUM 4000 PSI REQ'D

CONCRETE JOINTS AT 10' MAXIMUM SPACING REQ'D

BICYCLE RACK REQ'D (SEE ARCH.)

GREEN 1=170 SQUARE FEET

SIDEWALK CONNECTION BY USM

7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D

WHEEL STOP REQ'D

135.4'

5' SIDE SETBACK

5' SIDEWALK SEE DETAIL ON SHEET C3.2 REQ'D

GREEN 8=215 SF

S00°04'17"E 170.69' APS
SOUTH 170.2' APR

MONTAGUE BLVD. (80' R.O.W.) (ASPHALT)

LARGE TREE REQ'D (TYP) (REFER TO LANDSCAPE PLAN)

5'x5' TRUNCATED DOMES ADA LANDING REQ'D

DUMPSTER PAD 11' x 11' RAISED 4" ABOVE ADJACENT CONCRETE REQ'D

DUMPSTER ENCLOSURE (SEE ARCH.)
DUMPSTER PAD REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 8" THICK CONCRETE MINIMUM 4000 PSI REQ'D

NEW ADA SPACE, ACCESS AISLE AND SIGN REQ'D

4" WHITE PAINT STRIPE OVER EXISTING (TYPICAL) REQ'D

REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 5" THICK CONCRETE MINIMUM 4000 PSI REQ'D

32nd AVENUE (50' R.O.W.) (ASPHALT)

PROPOSED PERVIOUS AREAS SUMMARY

LOCATION	GREEN AREA (SF)
1	170
2	200
3	2500
4	613
5	120
6	138
7	320
8	215
TOTAL PERVIOUS AREAS	4,276=23%
TOTAL SITE AREA	18,742 SF
TOTAL IMPERVIOUS AREA	14,383=77%

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GRAPHIC SCALE
10 0 5 10
(IN FEET)

5" PORTLAND CEMENT CONCRETE PAVEMENT (4000 PSI)
8" MDOT SIZE NO. 610 STONE OR CRUSHED CONCRETE (COMPACTED TO 100% STD. PROCTOR DENSITY)
COMPACTED SUBGRADE (SEE GEOTECHNICAL REPORT)

SECTION FOR DUMPSTER PAD PAVING

5" PORTLAND CEMENT CONCRETE PAVEMENT (4000 PSI)
8" MDOT SIZE NO. 610 STONE OR CRUSHED CONCRETE (COMPACTED TO 100% STD. PROCTOR DENSITY)
COMPACTED SUBGRADE (SEE GEOTECHNICAL REPORT)

SECTION FOR CONCRETE PAVING

NOTE: CRUSHED STONE SUBBASE SHALL EXTEND 12" BEYOND BACK OF CURB.

REFER TO GEOTECHNICAL REPORT FOR CONCRETE STRENGTH, MIX DESIGN, AND JOINT CONSTRUCTION.

REVISIONS

NO.	DATE	DESCRIPTION	BY

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Site Plan

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C2.2

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 7-10-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

DRAFT FOR REVIEW

15" RCP

Outfall Unknown

24" RCP

Existing Drain Inlet
Top = 212.40
Inv. Out = 204.40

Existing Inlet

Existing Drain Inlet
Top = 206.10
Inv. = 203.10

12" CPP

EX. INLET

EX. SIDEWALK

PRIOR TO CONTRACTOR PLACING STORM DRAIN PIPE ON ADJACENT PROPERTY AND CONNECTING TO EXISTING DRAIN INLET, AN EASEMENT SHALL BE OBTAINED BY OWNER FOR A 15" HP STORM DRAIN PIPE (20 LINEAR FEET) FOR FOUNDATION DRAINAGE (SEE ARCH.) TO TIE TO THE INLET SHOWN ON UNIVERSITY PROPERTY

COORDINATE WITH ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR STORM DRAINAGE PIPE CONNECTION AT BUILDING

CONTRACTOR SHALL TAKE ALL PRECAUTION TO PROTECT THE EXISTING DRAIN INLET AND STORM PIPE DURING CONSTRUCTION AND PREVENT ANY SEDIMENT FROM ENTERING THE EXISTING STORM PIPES

TIE 15" STORM PIPE TO EXISTING INLET 2" ABOVE EXISTING INVERT

24" NYLOPLAST DRAIN BASIN
TOP=212.5'
15" INV.=209.0

24" NYLOPLAST DRAIN BASIN
TOP=206.7'
15" INV.=204.0'

STAINLESS STEEL PLATE IN SIDEWALK FOR UNDERDRAIN REQ'D (SEE DETAIL C3.2)

24" HIGH BERM REQ'D WITH TOE DITCH ALONG HIGH SIDE GRADE AS REQ'D REQ'D FOR SOUTH OFFSITE DRAINAGE TO BYPASS SOUTHERN EDGE OF SITE

24" NYLOPLAST DRAIN BASIN
TOP=209.7'
15" INV.=205.5

FFE=209.00'

8' x 5' LANDING ELEVATION=207.9' REQ'D

ADA RAMP, WALLS, AND RAILS HERE 8.0% SLOPE (SEE ARCH.)

4' x 4' LANDING ELEVATION=207.0' REQ'D

4 RISERS (SEE ARCH.) REQ'D

FFE=209.00'

25 L.F. VERTICAL TRANSITION REQ'D

EX. SEWER SERVICE

ADA RAMP AND RAILS HERE 8.0% SLOPE

5' SIDEWALK FLUSH WITH GRASS AREA REQ'D

EX. WATER SERVICE

STORM FLOW ARROWS (TYPICAL) REQ'D

5' SIDEWALK FLUSH CONNECTION REQ'D

FFE=217.0'

5' SIDEWALK SEE DETAIL ON SHEET C3.2 REQ'D

5' x5' LANDING ELEVATION=216.0' REQ'D

TIERED PLANTER WALLS (SEE ARCHITECTURAL)

CONCRETE LANDING PAD 215.3' REQ'D

STAIRS REQ'D SEE ARCH.

5' x5' LANDING ELEVATION=215.5' REQ'D

5' x 5' LANDING ELEVATION=214.9' REQ'D

5' x 5' LANDING ELEVATION=209.0' REQ'D

STAINLESS STEEL PLATE IN SIDEWALK FOR UNDERDRAIN REQ'D (SEE DETAIL C3.2)

7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D

EX. CONCRETE FLUME

BEGIN TRANSITION TO FULL DEPTH SIDEWALK

END TRANSITION TO FULL DEPTH SIDEWALK

5' SIDEWALK SEE DETAIL ON SHEET C3.2 REQ'D

SIDEWALK FLUSH WITH ADA AND ACCESS AISLE REQ'D

MONTAGUE BLVD. (80' R.O.W.) (ASPHALT)

EX. FIRE HYDRANT

EX. SEWER MANHOLE

EX. DRAINAGE INLET

EX. WATER VALVE

EX. DRAINAGE INLET

24" NYLOPAST DRAIN BASIN
TOP=214.65'
6" INV.=210.0'
REQ'D

32nd AVENUE (50' R.O.W.) (ASPHALT)

DRAFT FOR REVIEW

N

GRAPHIC SCALE
10 0 5 10
(IN FEET)

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NO.	DATE	DESCRIPTION	BY

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Grading Plan

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C2.3

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 7-8-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

EX. CURB INLET

Existing Inlet

EX. SIDEWALK

Existing Drain Inlet
Top = 206.10
Inv. = 203.10

EXISTING TREE

GREASE WASTE INTERCEPTOR
MIN. 500 GALLON
(SEE PLUMBING PLAN) REQ'D

EX. WATER VALVE

N00°02'48"W 169.80' APS
SOUTH 170.1' APR

6" PVC SDR-26 SEWER SERVICE
@1.0% MINIMUM SERVICE TIE TO
EXISTING SEWER SERVICE
(CONTRACTOR TO VERIFY EXISTING
SEWER SERVICE LOCATION)
REQ'D

EX. SEWER SERVICE

SEE PLUMBING
DRAWINGS FOR
CONTINUATION

SEWER
CLEANOUT
INV.=204.0'
REQ'D

2" DOMESTIC WATER METER AND BYPASS ASSEMBLY
2" IRRIGATION METER
8" FIRE SERVICE
TO BE PROVIDED BY CITY OF HATTIESBURG CONTACT
CITY FOR PRICING AND COORDINATION
TIE TO EXISTING WATER LINE (CONTRACTOR TO
VERIFY WATER SERVICE LOCATION)

3" C-900, CL235 PVC
DOMESTIC SERVICE REQ'D
(SEE PLUMBING DRAWINGS
FOR CONTINUATION)

EX. WATER SERVICE

YARD-TYPE POST
INDICATOR
VALVE REQ'D

6" PVC SDR-26 SEWER SERVICE
@1.0% MINIMUM SERVICE
REQ'D

REMOTE FIRE DEPARTMENT
CONNECTION REQ'D

SEE PLUMBING
DRAWINGS FOR
CONTINUATION

6" C-900, CL235 PVC
FIRE SERVICE REQ'D

4" C-900, CL235 PVC
DRY LINE REQ'D
FOR REMOTE FIRE DEPT CONNECTION
(SEE PLUMBING DRAWINGS
FOR CONTINUATION)

N88°19'59"W 110.18' APS
EAST 110.00' APR

S88°47'46"E 110.08' APS
EAST 110.00' APR

¾"SCHEDULE 40 PVC WATER
SERVICE (HOT) REQ'D

¾"SCHEDULE 40 PVC WATER
SERVICE (COLD) REQ'D

6" C-900, CL235 PVC
FIRE SERVICE REQ'D

4" C-900, CL235 PVC
FIRE SERVICE REQ'D

4" C-900, CL235 PVC
FIRE SERVICE REQ'D

EX. CONCRETE
FLUME

6" PVC SDR-26 SEWER SERVICE
@1.0% MINIMUM SERVICE
REQ'D

SEWER MANHOLE
RIM=209.0'
INV.=205.0'
REQ'D

S00°04'17"E 170.69' APS
SOUTH 170.2' APR

18" NYLOPAST DRAIN BASIN
TOP=214.7'
6" INV.=210.0'
REQ'D

EX. FIRE
HYDRANT

EX. SEWER
MANHOLE

EX. DRAINAGE
INLET

EX. WATER
VALVE

EX. DRAINAGE
INLET

GRAPHIC SCALE
10 0 5 10
(IN FEET)

DRAFT FOR REVIEW

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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Utility Plan

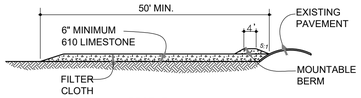
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C2.4

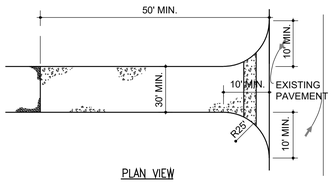
PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 7-8-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

610 LIMESTONE IS NOT REQUIRED
FOR CONSTRUCTION EXIT



PROFILE

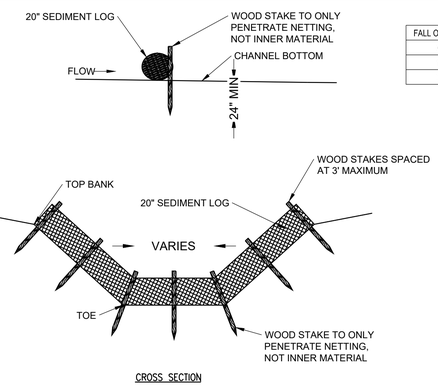


PLAN VIEW

STABILIZED CONSTRUCTION EXIT

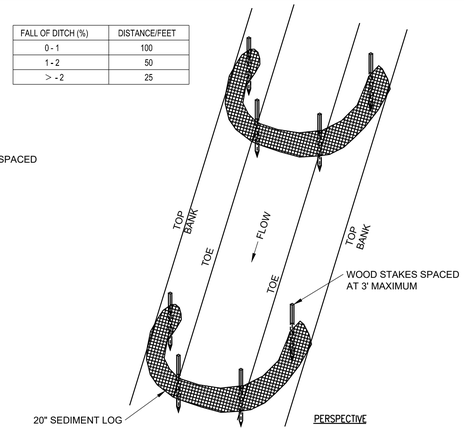
1. STONE SIZE - USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. DEPTH - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - THIRTY (30) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 TEMPORARY CONSTRUCTION EXIT
SCALE: NOT TO SCALE



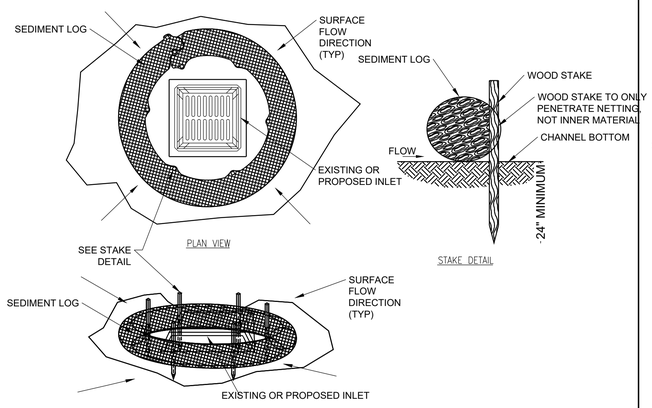
CROSS SECTION

FALL OF DITCH (%)	DISTANCE/FEET
0 - 1	100
1 - 2	50
> - 2	25



PERSPECTIVE

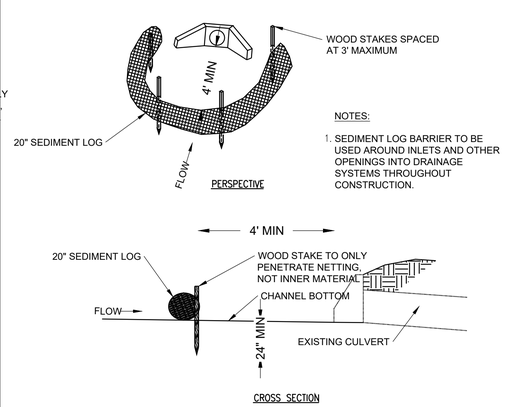
2 SEDIMENT LOG DITCH CHECK
SCALE: NOT TO SCALE



PLAN VIEW

STAKE DETAIL

3 SEDIMENT LOG INLET PROTECTION
SCALE: NOT TO SCALE



PERSPECTIVE

CROSS SECTION

NOTES:

1. SEDIMENT LOG BARRIER TO BE USED AROUND INLETS AND OTHER OPENINGS INTO DRAINAGE SYSTEMS THROUGHOUT CONSTRUCTION.

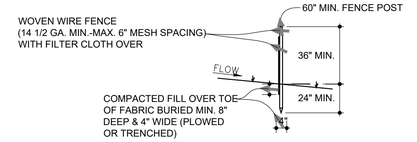
4 SEDIMENT LOG CULVERT SEDIMENT BARRIER
SCALE: NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

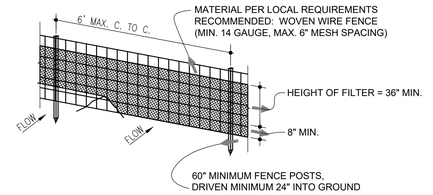
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO SILT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY (6) INCHES AND FOLDED.
4. LOCATE POSTS DOWNSLOPE OF FABRIC FOR FENCE SUPPORT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

   POSTS: STEEL EITHER "T" OR "U" TYPE
   POSTS: LOCATED MAXIMUM 6' O. C.
   FENCE: PER LOCAL REQUIREMENTS OR WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
   FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL.
   PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

6. INDICATED ON EROSION CONTROL PLANS AS "—SF——SF—"



WIRE BACKING NOT REQUIRED ON SILT FENCE.



7 SILT FENCE EROSION PROTECTION
SCALE: NOT TO SCALE

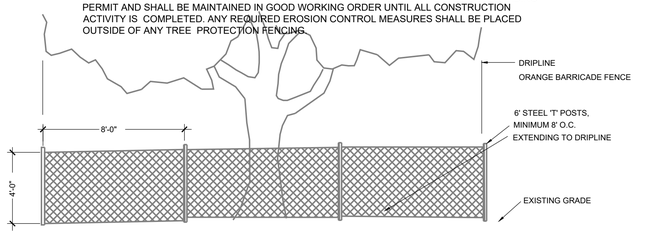
1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
2. SILT FENCES AND HAY BALES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND/OR HAY BALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
6. PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
7. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
8. CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD IS NOT ADEQUATELY REMOVED FROM VEHICLES AT THE STABILIZED CONSTRUCTION EXITS.
9. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORMWATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
10. CONTRACTOR WILL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
12. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
13. CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT MEETS OR EXCEEDS 0.5 INCHES OF RAINFALL IN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED ONCE EVERY 14 CALENDAR DAYS. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS. REMOVE ALL SEDIMENT IF IT ACCUMULATES TO 1/3 THE HEIGHT OF THE SILT FENCE.
14. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT, NO SEPARATE PAY.
15. CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
16. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
17. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEMS BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
18. CONTRACTOR SHALL SOLID SOD DISTURBED AREAS IMMEDIATELY AFTER REACHING FINAL GRADE.

5 EROSION CONTROL NOTES
SCALE: NOT TO SCALE

TREE PROTECTION NOTES:
1. THE CRITICAL ROOT AREA OF THE TREES THAT ARE INDICATED TO REMAIN MUST BE PROTECTED, AT A MINIMUM, BY A PROTECTIVE FENCE LOCATED AT A RADIUS MEASURED 1.25 FEET FOR EVERY INCH IN DIAMETER OF THE TREE, OR AT THE DRIP LINE, WHICHEVER IS GREATER. FOR A GROUP OF TREES, A PROTECTIVE FENCE SHALL BE PLACED OUTSIDE THE CRITICAL ROOT RADIUS OF ALL TREES IN THE GROUP.

2. AFTER THE AREAS TO BE SELECTIVELY CLEARED ARE COMPLETED, THE CONTRACTOR SHALL INSTALL THE TREE BARRIER AS INDICATED AROUND THOSE AREAS.

3. ALL TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE ISSUANCE OF A GRADING PERMIT AND SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED. ANY REQUIRED EROSION CONTROL MEASURES SHALL BE PLACED OUTSIDE OF ANY TREE PROTECTION FENCING.



6 TREE PROTECTION - ORANGE BARRIER DETAIL
SCALE: NOT TO SCALE

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

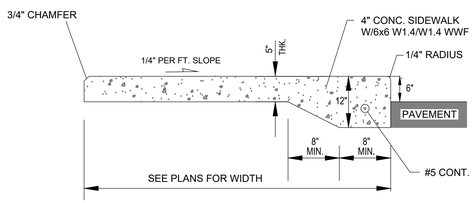
Erosion Control Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.1

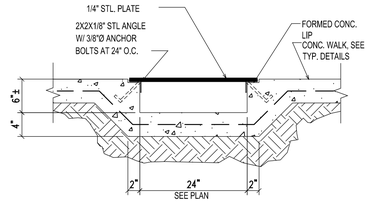
PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg



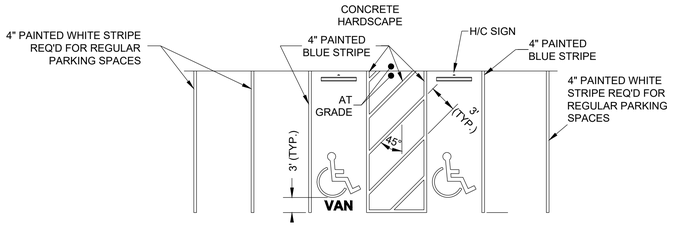
NOTES:
1. PROVIDE CONTRACTION JOINTS AT 5'-0" O.C. MAX
2. ALL SIDEWALK SLOPES AND WIDTHS SHALL MEET ADA REQUIREMENTS

SIDEWALK DETAIL



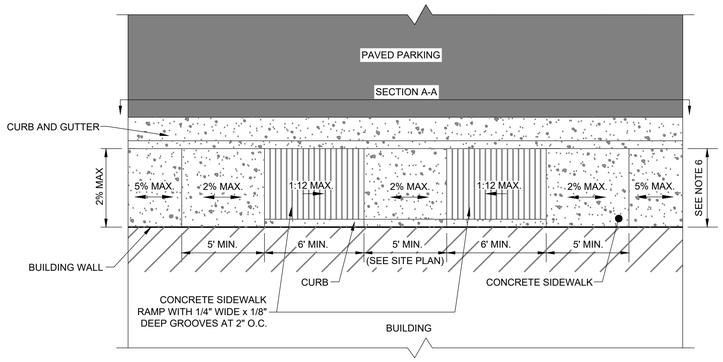
STAINLESS STEEL SIDEWALK DRAIN

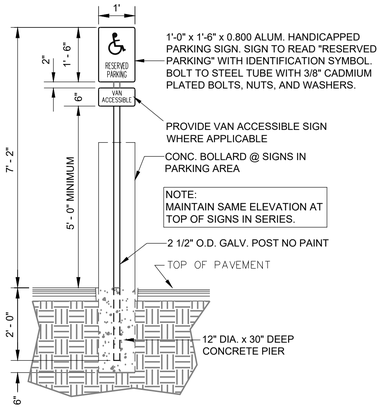
NOTE:
1. FOR HANDICAP SPACES AND AISLES, FINISHED GRADE SLOPES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
2. SEE PLAN FOR PARKING SPACE DIMENSIONS.



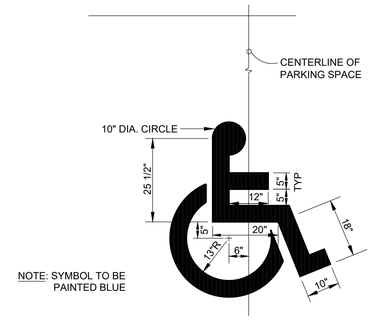
TYPICAL PARKING STRIPING DETAIL

NOTES:
1. LOCATIONS AND TYPES OF CURB RAMPS SHALL BE AS SHOWN ON CIVIL/SITE PLANS.
2. THE CURB RAMP SHALL BE PAID FOR AS SIDEWALK.
3. THE THICKNESS OF THE CURB RAMP SHALL MATCH THAT OF THE SURROUNDING SIDEWALK (SEE DETAIL).
4. ALL RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1 FOR A MAXIMUM ELEVATION INCREASE OF 0.5 FEET.
5. HANDICAP RAMPS CONNECTING TO PUBLIC STREETS SHALL HAVE TRUNCATED DOME SURFACE IN ACCORDANCE WITH ADA REGULATIONS.
6. CURB RAMP WIDTH SHALL CONFORM TO SIDEWALK WIDTH SHOWN ON SITE PLAN.



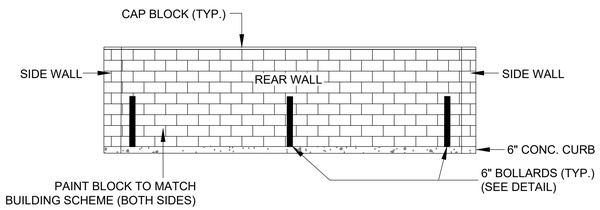


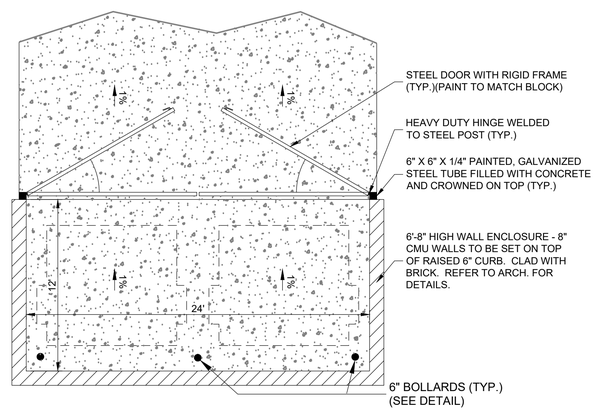
HANDICAP PARKING SIGN DETAIL



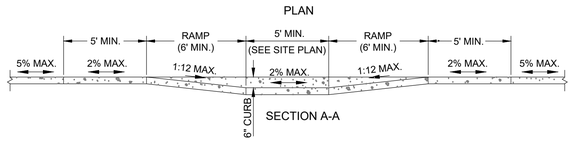
NOTE: SYMBOL TO BE PAINTED BLUE

INTERNATIONAL SYMBOL OF ACCESS

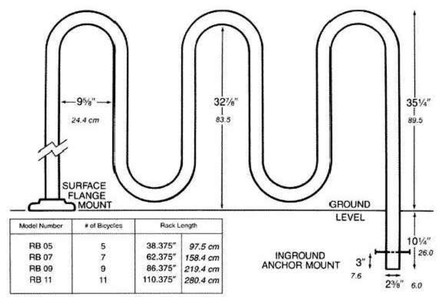




DUMPSTER ENCLOSURE DETAIL
(REFER TO ARCH. DRAWINGS FOR DETAILS)

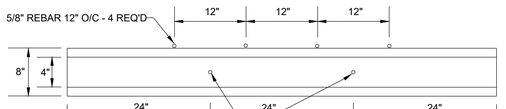


HANDICAP SIDEWALK RAMP DETAIL

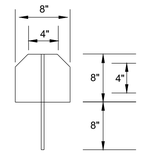


Model Number	# of Bicycles	Rack Length	
RB 05	5	38.375"	97.5 cm
RB 07	7	62.375"	158.4 cm
RB 09	9	86.375"	219.4 cm
RB 11	11	110.375"	280.4 cm

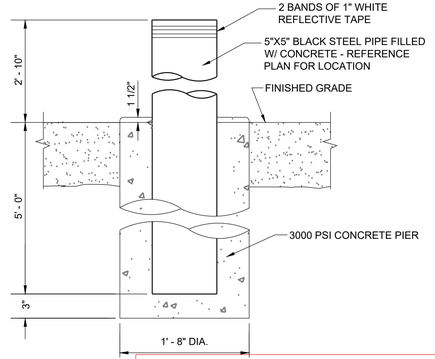
BICYCLE PARKING RACK DETAIL



CONCRETE WHEEL STOP (PLAN VIEW)
(6'L X 8"W X 6"H)



(PROFILE VIEW)
(6'L X 8"W X 6"H)



EXTERIOR PIPE BOLLARD DETAIL

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

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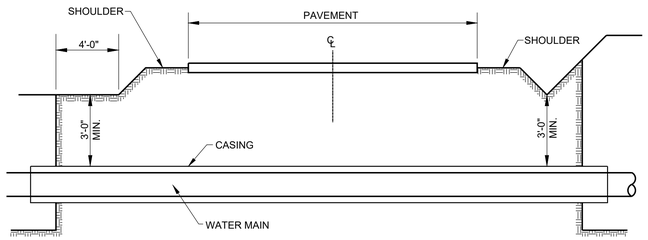
Site Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.2

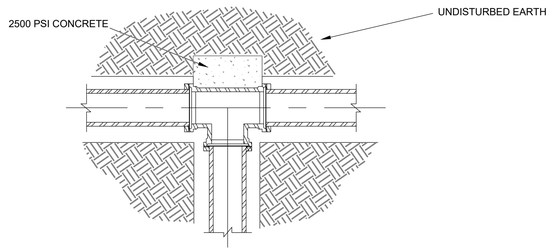
PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

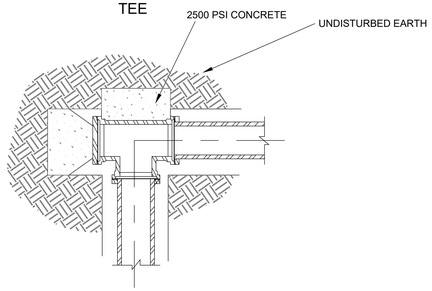


**SEE PLAN FOR WATER MAIN & CASING MATERIAL AND SIZES.

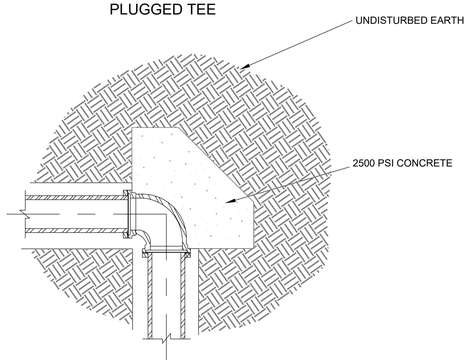
BORED & CASED WATER MAIN



TEE

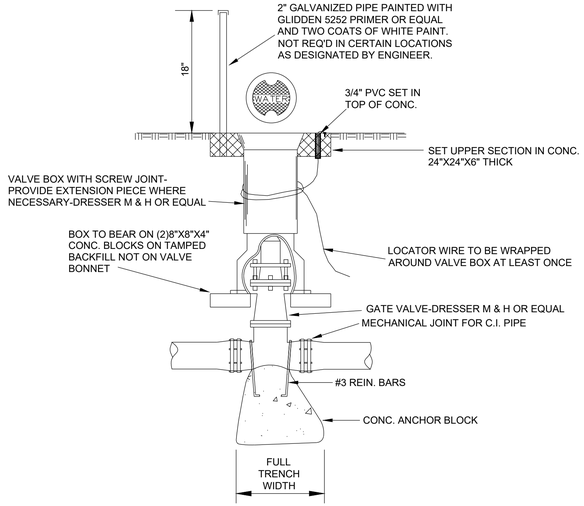


PLUGGED TEE

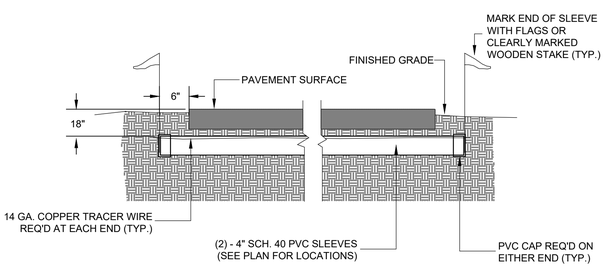


90° BEND

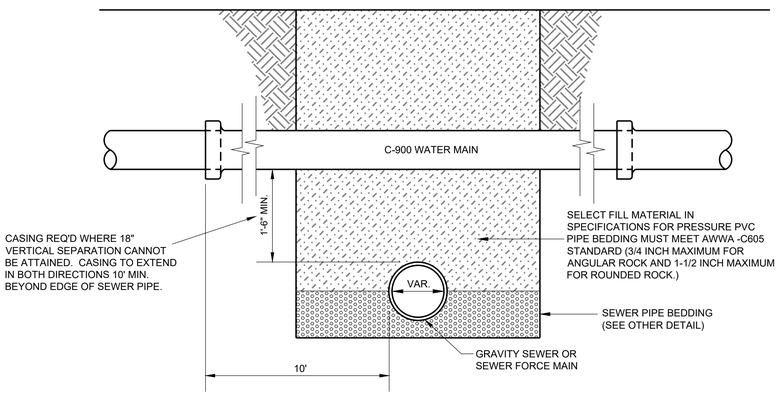
TYPICAL BLOCKING DETAILS



GATE VALVE DETAIL FOR MAINS 2" DIA. & OVER



IRRIGATION SLEEVING DETAIL



WATER-SEWER SEPARATION

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

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1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

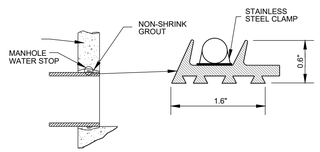
Water Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

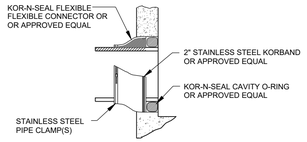
SHEET NO. C3.3

PROJ. NO.: 92952001	DRAWN BY: SDM	CHECKED BY: JCA	SCALE: NONE	DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg



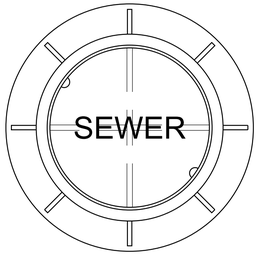
WATERSTOP CONNECTION (EXISTING AND STRADDLE MANHOLES)

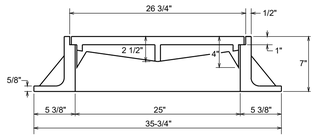


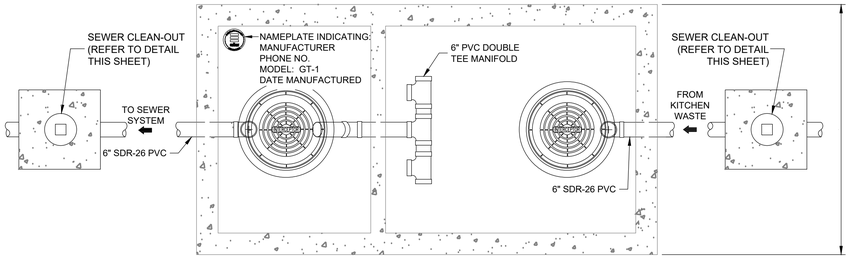
FLEXIBLE CONNECTION (NEW MANHOLES)

PIPE CONNECTION TO MANHOLE DETAILS

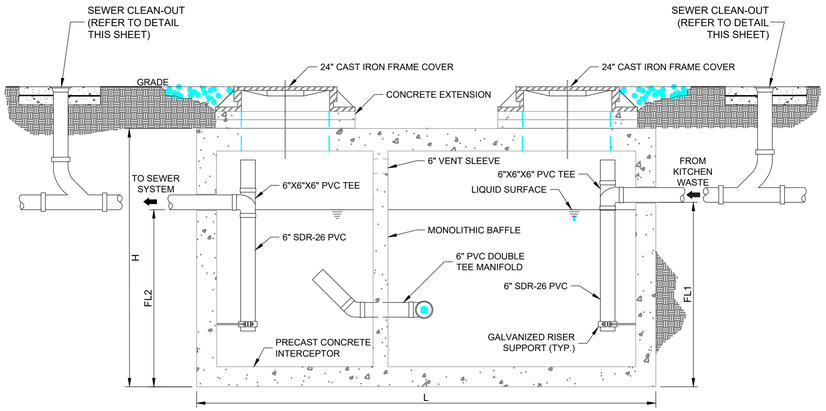
NOTE: MANHOLE RING & COVER TO RATED FOR HEAVY DUTY TRAFFIC LOADING AND SHALL CONFORM TO LOCAL MUNICIPALITY STANDARDS.







PLAN VIEW

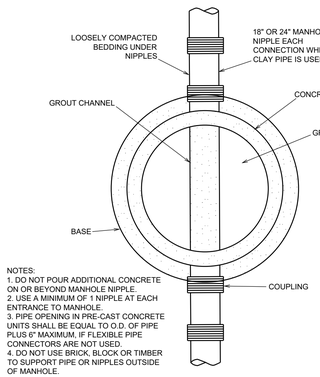


ELEVATION VIEW

GREASE INTERCEPTOR SCHEDULE								
I.D.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-1	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"

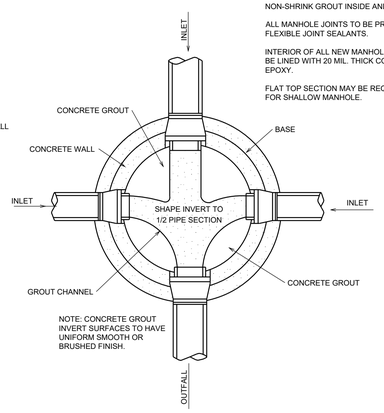
GREASE TRAP DETAIL

DRAFT FOR REVIEW



NOTES:
1. DO NOT POUR ADDITIONAL CONCRETE ON OR BEYOND MANHOLE NIPPLE.
2. USE A MINIMUM OF 1 NIPPLE AT EACH ENTRANCE TO MANHOLE.
3. PIPE OPENING IN PRE-CAST CONCRETE UNITS SHALL BE EQUAL TO O.D. OF PIPE PLUS 6" MAXIMUM, IF FLEXIBLE PIPE CONNECTORS ARE NOT USED.
4. DO NOT USE BRICK, BLOCK OR TIMBER TO SUPPORT PIPE OR NIPPLES OUTSIDE OF MANHOLE.

TYPICAL PIPE CONNECTION TO MANHOLE



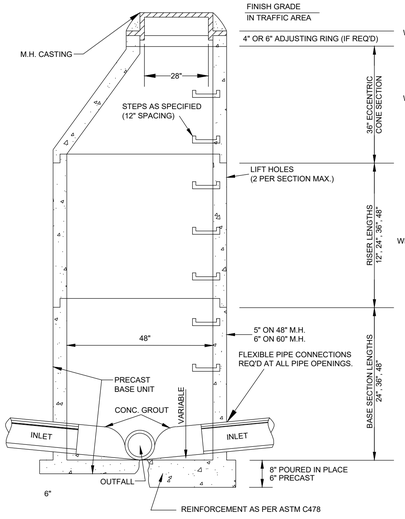
NOTES:
ALL LIFT HOLES ON EACH SECTION SHALL BE SEALED WATERTIGHT WITH NON-SHRINK GROUT INSIDE AND OUTSIDE.

ALL MANHOLE JOINTS TO BE PREFORMED FLEXIBLE JOINT SEALANTS.

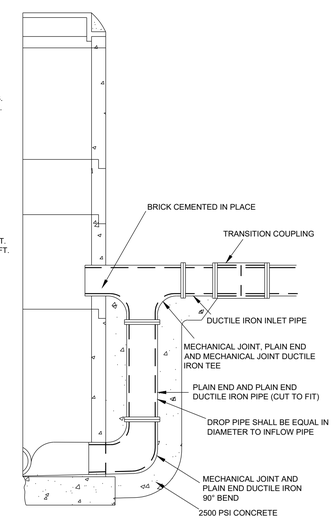
INTERIOR OF ALL NEW MANHOLES SHALL BE LINED WITH 20 MIL. THICK COAL TAR EPOXY.

FLAT TOP SECTION MAY BE REQUIRED FOR SHALLOW MANHOLE.

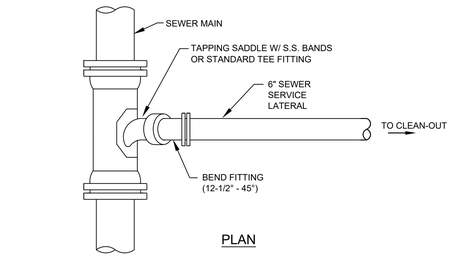
MANHOLE FLOW CHANNELS DETAIL



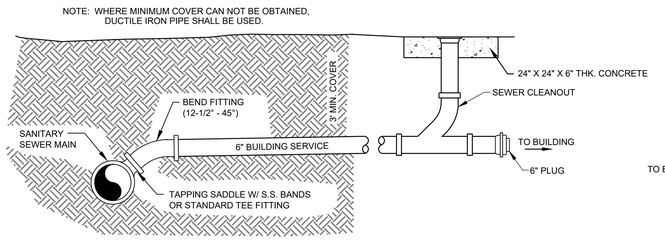
PRECAST CONCRETE MANHOLE



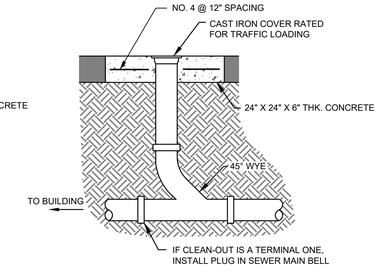
MANHOLE WITH DROP CONNECTION



PLAN

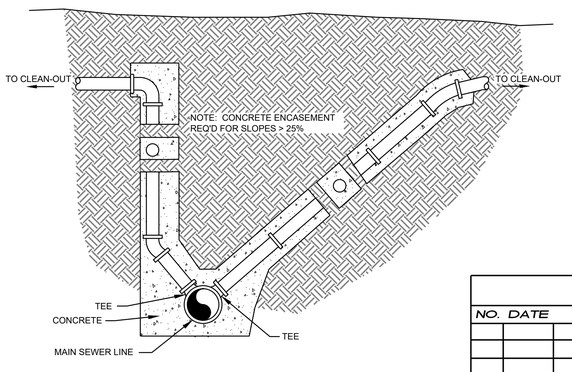


SEWER SERVICE CONNECTION DETAILS



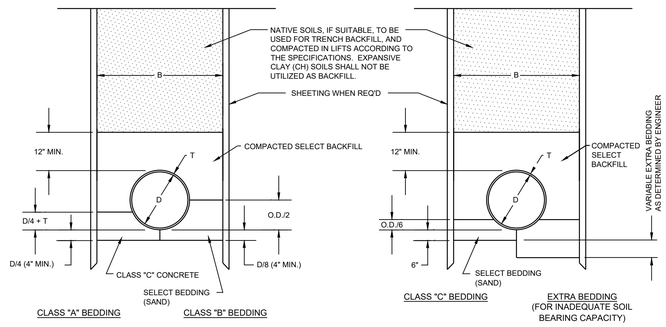
SEWER CLEAN-OUT DETAILS

N.T.S.



SEWER SERVICE DETAILS FOR DEEP SEWERS

MANHOLE CASTING DETAILS



PIPE BEDDING DETAILS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

Sewer Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.4

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

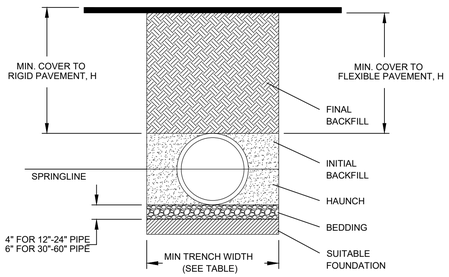
Table 5-2
Classes of Embedment and Backfill Materials

ASTM D2321(A) (CSA B182.11) Class Description		ASTM D2487 Notation	ASTM D2487 Description	AASHTO M43 Notation	AASHTO M145 Notation	BNQ 2560	ASTM Dm 2321 (A) (CSA B182.11) Percentage Passing Sieve Sizes 1 ½ in. (40mm)	3/8" (9.5mm)	No. 4 (4.75mm)	No. 200 (0.075 mm)	Atterberg Limits LL	PI	Coefficients Cu	Cc
I(B)	Crushed rock, angular	N/A	Angular crushed stone or rock, crushed gravel, crushed slag; large voids with little or no fines	5, 56, 57(D), 6, 67(D)	N/A		100%	≤25%	≤15%	<12%	Non Plastic		N/A	
II	Clean, coarse-grained soils	GW	Well-graded gravel, gravel-sand mixtures; little or no fines	5, 6	A1, A3	CG-14 , MG-20	100%		<50% of "Coarse Fraction"	<5%	Non Plastic		>4	1 to 3
		GP	Poorly-graded gravels, gravel-sand mixtures; little or no fines	56, 57, 67									<4	<1 or >3
		SW	Well-graded sands, gravelly sands; little or no fines						>50% of "Coarse Fraction"				>6	1 to 3
		SPF	Poorly-graded sands, gravelly sands; little or no fines										<6	<1 or >3
	Coarse- Grained Soils, borderline clean to w/fines	GW- GC, SP-SM	Sands and gravels which are borderline between clean and with fines	N/A			100%		Varies	5% to 12%	Non Plastic		Same as for GW, GP, SW and SP	
III	Coarse-grained soils with fines	GM	Silty gravels, gravel-sand-silt mixtures	Gravel & sand with <10% fines	A-2-4, A-2-5, A-2-6, or A-4 or A-6 soils with more than 30% retained on #200 sieve		100%		<50% of "Coarse Fraction"	12% to 50%	N/A	<4 or <"A" Line	N/A	
		GC	Clayey gravels, gravel-sand-clay mixtures									<7 & >"A" Line		
		SM	Silty sands, sand-silt mixtures						>50% of "Coarse Fraction"			>4 or <"A" Line		
		SC	Clayey sands, sand- clay mixtures									>7 & >"A" Line		
	Inorganic fine-grained soils	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, silts with slight plasticity						100%	> 30% (Retained)	<50	<4 or <"A" Line		
		CL	Inorganic clays of low to medium plasticity; gravelly, sandy, or silty clays; lean clays							> 30% (Retained)		>7 & >"A" Line		
IV(E)	Inorganic fine-grained soils	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, silts with slight plasticity	N/A	A-2-7 or A-4 or A-6 soils with 30% or less retained on #200 sieve		100%		100%	< 30% (Retained)	<50	<4 or <"A" Line	N/A	
		CL	Inorganic clays of low to medium plasticity; gravelly, sandy, or silty clays; lean clays	N/A								>7 & >"A" Line		
V (G)	Inorganic fine-grained soils	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	N/A	A5, A7		100%		100%	>50%	>50	<"A" Line	N/A	
		CH	Inorganic clays of high plasticity, fat clays	N/A								>"A" Line		
	Organic soils or Highly organic soils	OL	Organic silts and organic silty clays of low plasticity	N/A			100%		100%	>50%	<50	<4 or <"A" Line	N/A	
		OH	Organic clays of medium to high plasticity, organic silts	N/A							>50	<"A" Line		
		PT	Peat and other high organic soils	N/A										

ADS, Inc. Drainage Handbook

Notes:
A) Refer to ASTM D2321 / CSA B182.11/ BNQ 2560 for more complete soil descriptions.
B) Class I materials allow for a broader range of fines than previous versions of D2321 / B182.11. When specifying class I material for infiltration systems, the engineering shall include a requirement for an acceptable level of fines.
C) All particle faces shall be fractured.
D) Assumes less than 25% passes the 3/8" sieve.
E) Class IV materials require a geotechnical evaluation prior to use and should only be used as backfill under the guidance of a qualified engineer.
F) Uniform fine sands (SP) with more than 50% passing a 100 sieve behave like silts and should be treated as Class III soils if allowed.
G) Class V materials shall not be permitted as bedding and backfill material.

ADS, Inc., August 2016



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 85% SPD AND CLASS III COMPACTED TO 90% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN TRENCH WIDTH
12" (300mm)	30" (750mm)
15" (375mm)	34" (860mm)
18" (450mm)	39" (990mm)
24" (600mm)	48" (1200mm)
30" (750mm)	56" (1420mm)
36" (900mm)	64" (1620mm)
42" (1050mm)	72" (1830mm)
48" (1200mm)	80" (2030mm)
60" (1500mm)	96" (2440mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12" (300mm)	48" (1200mm)
60" (1500mm)	24" (600mm)	60" (1500mm)

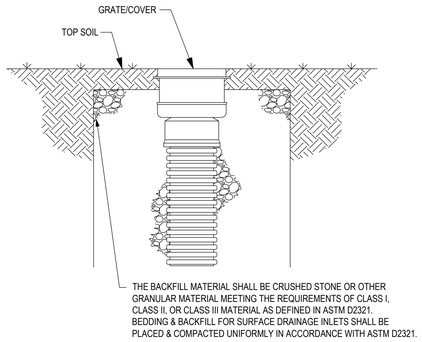
* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

	CLASS I	CLASS II			CLASS III		CLASS IV
PIPE DIA	COMPACTED	95%	90%	85%	95%	90%	95%
12" (300mm)	41 (12.5m)	29 (8.8m)	21 (6.4m)	10 (3.0m)	22 (6.7m)	12 (3.7m)	11 (3.4m)
15" (375mm)	44 (13.4m)	30 (9.1m)	22 (6.7m)	10 (3.0m)	23 (7.0m)	13 (4.0m)	12 (3.7m)
18" (450mm)	38 (11.6m)	26 (7.9m)	19 (5.8m)	9 (2.7m)	20 (6.1m)	12 (3.7m)	11 (3.4m)
24" (600mm)	32 (9.8m)	23 (7.0m)	16 (4.9)	9 (2.7m)	17 (5.2m)	11 (3.4m)	10 (3.0m)
30" (750mm)	35 (10.7m)	25 (7.6m)	18 (5.5m)	9 (2.7m)	18 (5.5m)	12 (3.7m)	11 (3.4m)
36" (900mm)	31 (9.5m)	22 (6.7m)	15 (4.6m)	9 (2.7m)	16 (4.9m)	11 (3.4m)	10 (3.0m)
42" (1050mm)	33 (10.1m)	23 (7.0m)	17 (5.2m)	8 (2.4m)	17 (5.2m)	11 (3.4m)	10 (3.0m)
48" (1200mm)	31 (9.5m)	22 (6.7m)	15 (4.6m)	8 (2.4m)	16 (4.9m)	11 (3.4m)	10 (3.0m)
60" (1500mm)	36 (11.0m)	25 (7.6m)	17 (5.2m)	8 (2.4m)	18 (5.5m)	11 (3.4m)	10 (3.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

HIGH PERFORMANCE (H.P.) STORM PIPE BEDDING DETAILS & SPECIFICATIONS



NON-TRAFFIC INLINE DRAIN INSTALLATION

Section 2722

Engineered Surface Drainage Products

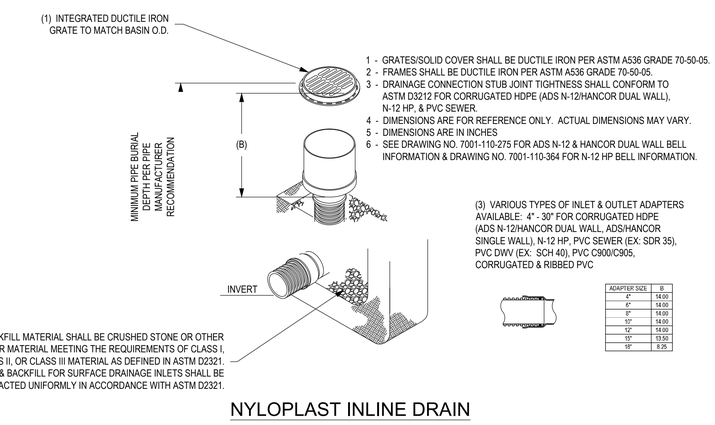
GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

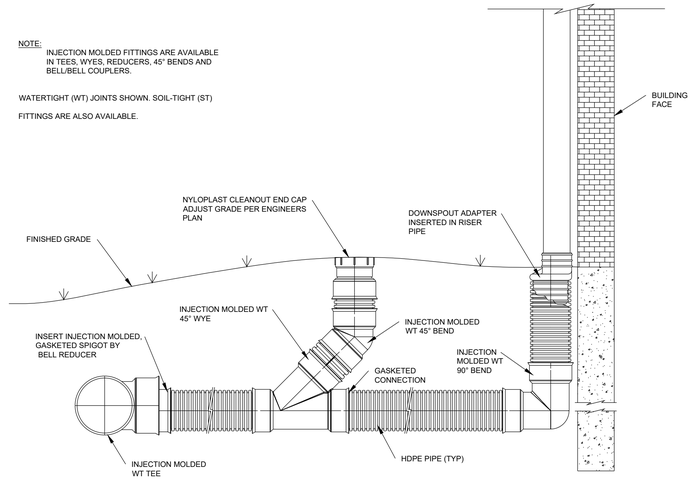
INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

8 IN - 30 IN INLINE DRAIN SPECIFICATIONS



ADAPTER SIZE	B
4"	14.00
6"	14.00
8"	14.00
10"	14.00
12"	14.00
15"	13.50
18"	8.25

NYLOPLAST INLINE DRAIN



ROOF DRAIN INLET DETAIL

DRAFT FOR REVIEW

REVISIONS NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

STORM Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.5

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: S:\92952001\DWG\92952001-Civil.dwg

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

G002	CODE REVIEW, PROJECT INFO, EGRESS PLANS, & GENERAL NOTES
G011	ABBREVIATIONS AND ACCESSIBILITY NOTES
G012	STANDARD ACCESSIBILITY REFERENCE DIAGRAMS
G013	STANDARD ACCESSIBILITY REFERENCE DIAGRAMS
G014	STANDARD ACCESSIBILITY REFERENCE DIAGRAMS
G015	STANDARD ACCESSIBILITY REFERENCE DIAGRAMS
G101	ARCHITECTURAL SPECIFICATIONS
G102	ARCHITECTURAL SPECIFICATIONS
G103	ARCHITECTURAL SPECIFICATIONS
G104	ARCHITECTURAL SPECIFICATIONS
G105	ARCHITECTURAL SPECIFICATIONS
G106	ARCHITECTURAL SPECIFICATIONS
G107	ARCHITECTURAL SPECIFICATIONS
G108	ARCHITECTURAL SPECIFICATIONS
G109	ARCHITECTURAL SPECIFICATIONS
C1.1	NOTES, LEGEND, AND ABBREVIATIONS
C1.2	DEMOLITION PLAN
C2.1	EROSION CONTROL PLAN
C2.2	SITE PLAN
C2.3	GRADING PLAN
C2.4	UTILITY PLAN
C3.1	EROSION CONTROL DETAILS
C3.2	SITE DETAILS
C3.3	WATER DETAILS
C3.4	SEWER DETAILS
C3.5	STORM DETAILS
LS.1	LANDSCAPE PLAN
LS.2	LANDSCAPE DETAILS & VEGETATION SCHEDULE
S0.1	NOTES
S0.2	3D VIEWS
S0.3	3D VIEWS
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S1.2	FOUNDATION PLAN - LOWER LEVEL
S1.3	1ST FLOOR FRAMING PLAN
S1.4	2ND FLOOR FRAMING PLAN
S1.5	ROOF FRAMING PLAN
S2.1	BUILDING ELEVATIONS
S2.2	BUILDING ELEVATIONS
S2.3	BUILDING ELEVATIONS
S2.4	BUILDING ELEVATIONS
S2.5	BUILDING SECTIONS
S2.6	BUILDING SECTIONS
S2.7	BUILDING SECTION
S3.1	FOUNDATION DETAILS
S3.2	FOUNDATION DETAILS
S3.3	FOUNDATION DETAILS
S3.4	DETAILS
S3.5	2ND FLOOR DETAILS
S3.6	ROOF DETAILS
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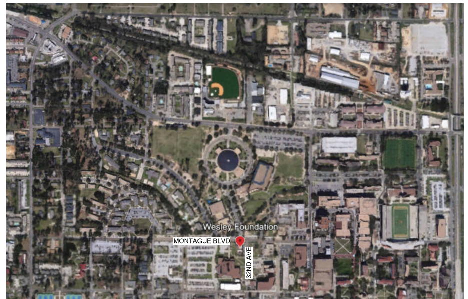
S4.2	SPECIFICATIONS
A001	ARCHITECTURAL SITE PLAN
A002	ARCHITECTURAL SITE DETAILS
A101	FLOOR PLAN - LEVEL 1
A102	FLOOR PLAN - LEVEL 2
A121	REFLECTED CEILING PLAN - LEVEL 1
A122	REFLECTED CEILING PLAN - LEVEL 2
A151	ROOF PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A321	WALL SECTIONS
A322	WALL SECTIONS
A323	WALL SECTIONS
A324	WALL SECTIONS
A351	VERTICAL CIRCULATION
A352	VERTICAL CIRCULATION
A401	ENLARGED PLANS & ELEVATIONS
A402	ENLARGED PLANS & ELEVATIONS
A421	ENLARGED UNIT PLANS & ELEVATIONS - 1 BED
A422	ENLARGED UNIT PLANS & ELEVATIONS - 2 BED
A423	ENLARGED UNIT PLANS & ELEVATIONS - 1 BED - TYPE A
A451	INTERIOR ELEVATIONS
A452	INTERIOR DETAILS
A501	EXTERIOR DETAILS
A502	EXTERIOR DETAILS
A503	EXTERIOR DETAILS
A504	EXTERIOR DETAILS
A505	EXTERIOR DETAILS
A511	PLAN DETAILS
A601	WALL TYPES
A602	HORIZONTAL ASSEMBLIES
A610	FINISH FLOOR PLANS
A612	FINISH INDEX & FINISH SCHEDULE
A631	DOOR SCHEDULE, FRAMES AND TYPES
A632	DOOR DETAILS
A651	INTERIOR GLAZING ELEVATIONS
A652	STOREFRONT AND WINDOW ELEVATIONS
A653	STOREFRONT DETAILS
A654	WINDOW DETAILS
M001	MECHANICAL LEGEND, ABBREVIATIONS & NOTES
M002	MECHANICAL SPECIFICATIONS
M003	MECHANICAL SPECIFICATIONS
M004	MECHANICAL SPECIFICATIONS
MZ101	FIRST FLOOR HVAC ZONING PLAN
MZ102	SECOND FLOOR HVAC ZONING PLAN
M101	OVERALL FIRST FLOOR AND MAIL ROOM HVAC PLAN
M102	OVERALL SECOND FLOOR HVAC PLAN
M103	OVERALL ROOF HVAC PLAN
M104	OVERALL FIRST FLOOR AND MAIL ROOM REFRIGERANT PIPING PLAN
M105	OVERALL SECOND FLOOR REFRIGERANT PIPING PLAN
M106	OVERALL ROOF REFRIGERANT PIPING PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
E000	ELECTRICAL LEGEND
E001	ELECTRICAL ONE LINE
E002	ELECTRICAL SITE PLAN
E003	ELECTRICAL PANEL SCHEDULES
E004	ELECTRICAL PANEL SCHEDULES
E005	ELECTRICAL SPECS
E006	ELECTRICAL SPECS
E007	ELECTRICAL SPECS
E008	ELECTRICAL SPECS
E009	ELECTRICAL SPECS
E100	ELECTRICAL LIGHTING PLAN
E101	ELECTRICAL LIGHTING PLAN
E200	ELECTRICAL POWER PLAN
E201	ELECTRICAL POWER PLAN
E202	ELECTRICAL POWER PLAN
E203	ELECTRICAL POWER PLAN
E300	ELECTRICAL MECHANICAL PLAN
E301	ELECTRICAL MECHANICAL PLAN
E302	ELECTRICAL MECHANICAL PLAN
P001	PLUMBING LEGEND, ABBREVIATIONS & NOTES
P002	PLUMBING SPECIFICATIONS
P003	PLUMBING SPECIFICATIONS
P101	FIRST FLOOR SANITARY PLUMBING PLAN
P102	SECOND FLOOR SANITARY PLUMBING PLAN
P103	ROOF SANITARY PLUMBING PLAN
P104	FIRST FLOOR SUPPLY PLUMBING PLAN
P105	SECOND FLOOR SUPPLY PLUMBING PLAN
P106	ROOF SUPPLY PLUMBING PLAN
P501	PLUMBING DETAILS
P502	PLUMBING DETAILS
P503	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P602	PLUMBING SCHEDULES
FP001	FIRE PROTECTION LEGEND, ABBREVIATIONS & NOTES
FP002	FIRE PROTECTION SPECIFICATIONS
FP003	FIRE PROTECTION SPECIFICATIONS
FP101	FIRST FLOOR FIRE PROTECTION PLAN
FP102	SECOND FLOOR FIRE PROTECTION PLAN
FP501	FIRE PROTECTION DETAILS
FP601	FIRE PROTECTION SCHEDULES

RENDERING (FOR REFERENCE ONLY)



LOCATION MAP

A. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR ANY EXIST CONDITIONS - INCLUDING THE EXIST STRUCT, SITE CONDITIONS OR OTHER EXIST CONST ELEMENTS (WHEN AVAILABLE) AND FOR ANY DWGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT WHICH DO NOT BEAR THE ARCHITECT'S SEAL AND SIGNATURE. SERVICES ARE PROHIBITED SOLELY FOR THE ARCHITECT'S CLIENT - NO OBLIGATION OR RESPONSIBILITY IS ASSUMED FOR THE BENEFIT OF ANY OTHER ENTITY INVOLVED IN THE CONST WORK.
B. PROVIDE (FURNISH & INSTALL) ALL PRODUCTS, MATERIALS, EQUIP OR ACCESSORIES REQD FOR PROPER OPERATION AND USE, IN ACCORDANCE W/ MANUF REQS, EXCEPT AS NOTED. OTHER RELATED DOCUMENTS AFFECTING THE WORK DESCRIBED IN THESE DWGS MAY INCLUDE GEOTECHNICAL RECOMMENDATIONS, MANUF PRODUCT DATA AND INSTALL REQS, SHOP DWGS AND COORD DWGS.
C. STUDY AND COMPARE THE CDS AND OTHER RELATED DOCUMENTS W/ THE EXIST CONDITIONS AND VERIFY EXIST DIMS BEFORE STARTING CONST WORK. REPORT ERRORS, INCONSISTENCIES OR OMMISSIONS DISCOVERED FOR CLARIFICATION. WHILE PREPARED W/ DUE CARE AND DILIGENCE, PERFECTION IS NOT POSSIBLE AS EVERY POSSIBLE CONDITION OR CONTINGENCY CANNOT BE ANTICIPATED OR FULLY SHOWN W/IN THE CDS. FAILURE TO REVIEW OTHER DOCUMENTS DOES NOT AFFECT ANY CONTRACTUAL OBLIGATION TO PROVIDE COMPLETE OR OTHERWISE FUNCTIONAL AND OPERABLE BLDG COMPONENTS OR A USEABLE BLDG FACILITY.
D. COMPLY W/ LAWS, CODES & ORDINANCES OF AHJ AND W/ REQS OF THE CLIENT, OWNER, DEVELOPER OR LANDLORD AS APPLICABLE.
E. DO NOT SCALE THESE DWGS.
F. APPLICATION OF A MATERIAL OR EQUIP ITEM TO WORK INSTALLED BY OTHERS CONSTITUTES ACCEPTANCE OF THAT WORK AND ASSUMPTION OF RESPONSIBILITY FOR SATISFACTORY INSTALL.
G. PROVIDE EA SUB-CONTRACTOR W/ A COMPLETE SET OF ELECTRONIC CDS FOR THEIR USE AND REFERENCE AND VERIFY THEIR RECEIPT UPON REQUEST.
H. FILL & PATCH EXPOSED HOLES OR CRACKS IN FLR OR WALL SURFACES AND FIN LEVEL, SMOOTH AND FLUSH W/ ADJACENT SURFACES.
I. COORD AND VERIFY CLEARANCES REQD OF PRODUCTS AND EQUIP FOR DELIVERY, INSTALL USE AND OPERATION.
J. MAINTAIN DIMS INDICATED AS "HOLD" ACCURATELY AS NOTED.
K. BRACE PARTITIONS, CEILINGS, SOFFITS, PLATFORMS, SUSPENDED CONST AND SIM ELEMENTS TO STRUCT ELEMENTS - EVEN IF NOT INDICATED. DO NOT BRACE TO THE ROOF DECK, PLUMB OR SPRINKLER PIPES, DUCTWORK, ELECT CONDUITS OR SIM ELEMENTS.
L. INSTALL FRAMING AND FURRING TO AVOID CONFLICTS OR INTERFERENCES W/ CONCEALED OR RECESSED MEP OR CONTROL COMPONENTS.
M. ALIGN TOP OF NEW CONC W/ EXIST AS APPLICABLE.
N. PROVIDE SATIN-SHEEN CONC SEALER ON EXPOSED INT CONC FLRS, UNO.
O. TROWEL-FIN TOP & SIDES, COVE INSIDE CORNERS AND EASE OUTSIDE CORNERS OF CONC PADS OR EQUIP BASES.
P. VERIFY FLATNESS AND LEVELNESS OF CONC SLABS OR ELEVATED FLRS BEFORE APPLICATION OF FIN. PROVIDE SELF-LEVELING TOPPING OR UNDERLAYMENT AT NEW CONC FLRS IF TOLERANCE EXCEEDS SPECIFIED FLATNESS OR LEVELNESS REQS.
Q. RE TO FIN / MATERIAL / COLOR SCHED FOR EXPOSED FIN OF BLDG MATERIALS, WALLS, FLRS, CLG, DRS, TRIM, CASEWORK, COUNTERTOPS AND SIM CONST ELEMENTS.
R. PROVIDE CONCEALED 2x6 MIN WOOD BLOCKING W/IN DRYWALL CONST FOR SECURE ANCHORAGE OF CASEWORK CABINETS, WALL-MOUNTED SHELVES, GRAB-BARS, DR STOPS, WD FRAMES AND SIM ELEMENTS.
S. PROVIDE FIRE-RETARDANT TREATED (FRT) WD BLOCKING WHEN CONCEALED W/IN DRYWALL PARTITIONS AND WHEN CONCEALED ABOVE CLGS (NON-COMBUSTIBLE CONST).
T. PROVIDE PRESERVATIVE-TREATED WD BLOCKING WHEN IN CONTACT W/ MASONRY OR CONC OR WHEN ASSOCIATED W/ RFG OR FLASHING WORK.
U. PROVIDE MIN 3/4" THICK FIRE-RETARDANT TREATED PLYWD AT ELECT OR PHONE/DATA PNLS.
V. PROVIDE AHJ APPROVED FIRESTOPPING SYS AT TOP AND AT PENETRATIONS OF FIRE-RATED CONST.
W. PROVIDE JT SEALS TO MAINTAIN A PERMANENT, AIR-TIGHT, VERMIN AND WATERPROOF BLDG ENCLOSURE THROUGHOUT THE PROJECT. PROVIDE FIRE-SEALANTS AT FIRE-RATED PARTITIONS AND ACOUSTICAL SEALANTS AT SOUND-RATED PARTITIONS, AS APPLICABLE.
X. PROVIDE DR HARDWARE AT EA SWINGING DR TO INCLUDE 3 HINGES, LEVER LOCKSET, 3 FRAME SILENCERS AND A WALL STOP MIN, UNO.
Y. INSTALL HOLD-DOWN CLIPS AT CEILING PANELS W/IN 20' OF AN ENTRANCE OR ENTRANCE VESTIBULE DR.
Z. LOCATE FLR FIN CHANGES AND TRANSITIONS UNDER CTR OF DRS.
AA. PT FIN ALL EXPOSED SURFACES THROUGHOUT THE BLDG UNLESS PRE-FIN OR INTEGRALLY FIN OR WHERE A NATURAL FIN IS INDICATED.
AB. PT FIN ELECT & CONTROL PNLS WHEN NOT LOCATED W/IN ELECT OR MECH RMS, COLOR PER ARCHITECT.

GENERAL NOTES & REQUIREMENTS

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@ventilabo.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401
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PROJ. A_2406

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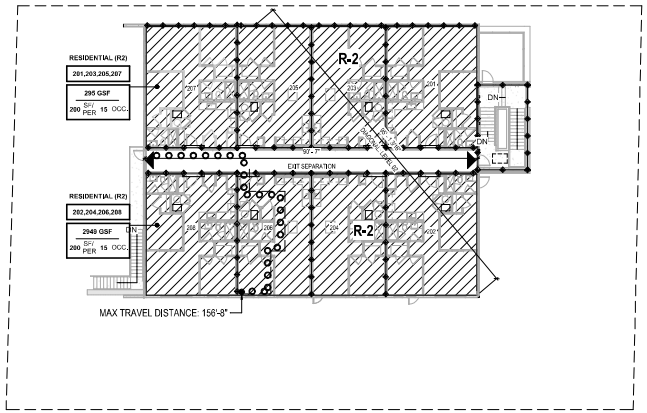

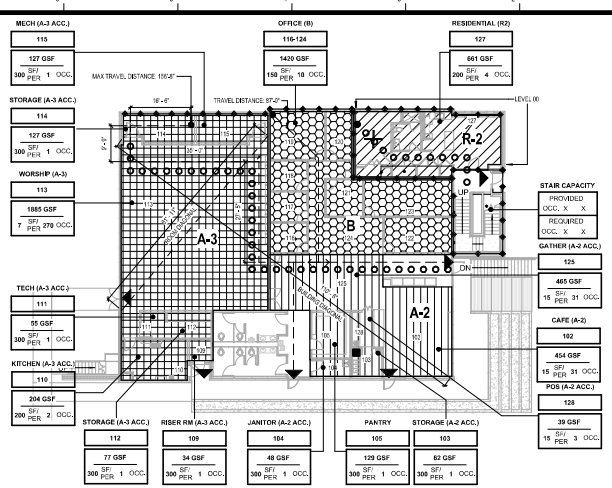

REVISION REFERENCE & DELTA
ENLARGED DETAIL REFERENCE
SIM
BUILDING SECTION
WALL SECTION
EXISTING DOOR
NEW DOOR
XXX KEY NOTE TAG
ROOM NAME 101 ROOM NAME/NUMBER
GLAZING TYPE
SPOT ELEVATION
WALL TYPE
ELEVATION
GRID REFERENCE
101 DOOR TAG
CENTERLINE

STANDARD SYMBOLS — 13E

EGRESS PLAN - LEVEL 02 — 7E
1/16" = 1'-0"

EGRESS PLAN - LEVEL 00-01 — 1E
1/16" = 1'-0"

AUTHORITY HAVING JURISDICTION:
HATTIESBURG, MISSISSIPPI

APPLICABLE CODES:
2024 IBC
2024 IEBC
2024 IFC
2024 IPC
2024 IMC
2024 IFGC
2024 IFGC
2024 IPMC
2024 IPSDC
2024 UPC
2024 NEC

PROJECT DESCRIPTION:
THE PROPOSED PROJECT IS THE NEW CONSTRUCTION OF A MIXED USE CAMPUS MINISTRY BUILDING WITH ADJOINING RETAIL AND RESIDENTIAL COMPONENTS. THE 3 STORY BUILDING INCLUDES A WORSHIP SPACE, A CAFE AND SUPPORT KITCHEN, A VARIETY OF MEETING ROOMS, AND ASSOCIATED BUILDING STORAGE AND UTILITY SPACE. THE RESIDENTIAL COMPONENT RESIDES PRIMARILY ON THE SECOND LEVEL WITH A TYPE A ACCESIBLE UNIT ON THE FIRST FIRST.

OCCUPANCY:
A-2(PRIMARY) CAFE + ACCESSORY
A-3 WORSHIP + ACCESSORY
B BUSINESS - OFFICES AND CONFERENCING
R-2 APARTMENTS

CODE APPROACH:
ONE BUILDING, 3 STORIES, NON SEPERATED MIXED USE OCCUPANCY, THE MORE RESTRICTIVE A-2 OCCUPANCY REQUIREMENTS WILL BE APPLIED THROUGHOUT THE BUILDING. 1 HR SEPARATION PROVIDED WALL AND HORIZONTAL ASSEMBLIES SEPERATING DWELLING UNITS FROM OTHER OCCUPANCIES OR ACCESSORY AREAS (PER 420.2 & 420.3), FULLY SPRINKLERED PER NFPA 13.

BUILDING AREA TABULATION:

	INTERIOR
LEVEL 1	7,193 GSF
LEVEL 2	7,105 GSF
TOTAL	14,298 GSF

TYPE OF CONSTRUCTION:
CONSTRUCTION: TYPE V-B

PRIMARY STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS
NON-BEARING WALLS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS (PER 601)
	1 HOUR PER (711.2.4.1 & 508.4)
ROOF CONSTRUCTION:	0 HOURS
SHAFT WALLS:	1 HOURS (PER 713.4)

TYPE OF CONSTRUCTION (CONT.):
MAX. ALLOWABLE AREA: 18,000 GSF — **ACTUAL:** 14,298 GSF
(SM, A-2 ASSEMBLY PER TABLE 508.2)

MAX. ALLOWABLE BULDING HEIGHT: 60' — **ACTUAL:** 33'-6"
(S. A ASSEMBLY PER TABLE 504.3)

MAX. ALLOWABLE STORIES: 2 STORIES — **ACTUAL:** 2 STORIES
(S. A-2 ASSEMBLY PER TABLE 504.4)

OCCUPANCY:
OCCUPANT LOAD FACTORS
ASSEMBLY W/OUT FIXED SEATING (UNCONC, TABLES AND CHAIRS): **15 NET**
ASSEMBLY W/OUT FIXED SEATING (CONCENTRATED): **7 NET**
BUSINESS AREA: **150 GROSS**
KITCHEN: **200 GROSS**
RESIDENTIAL: **200 GROSS**

OCCUPANT LOADS
(SEE EGRESS PLAN FOR CALCULATIONS)

	INTERIOR
LEVEL 1:	355
LEVEL 2:	30
TOTAL OCCUPANTS:	385

ACTIVE FIRE PROTECTION:
SPRINKLERED PER NFPA 13 STANDARD

EXITING:

EXITING SIZES:
STAIRWAY MINIMUM WIDTH (1005.3.1):
EGRESS FACTOR OF 0.3 INCH PER OCCUPANT, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN THE CALCULATION.

OTHER EGRESS COMPONENTS (1005.3.2):
EGRESS FACTOR OF 0.2 INCH PER OCCUPANT, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN THE CALCULATION.

WIDTH AND CAPACITY (1011.2)
MIN. WIDTH OF STAIRWAY SHALL NOT BE LESS THAN 44".
MIN. WIDTH OF STAIRWAY SERVING LESS THAN 50 OCCUPANTS SHALL NOT BE LESS THAN 36"

CODE ANALYSIS — 13A

A. RE: 2024 INTERNATIONAL FIRE CODE (IFC) SECTIONS 506.1 & 506.1.1.
B. MAIN ENTRANCES: PROVIDE FLUSH MOUNTED EMERGENCY KEY ACCESS BOX & KEY AT MAIN ENTRANCES OF EA BLDG AND DRS ACCESSING FIRE CONTROL VALVE EQUIP.
C. ELEVATORS: PROVIDE FLUSH MOUNTED EMERGENCY KEY ACCESS BOX & KEY IN THE ELEVATOR LOBBY NEXT TO THE LOWEST POINT OF FIRE DEPARTMENT ACCESS.
D. MOUNT 5'-0" ABOVE FIN GRADE / FLR, CONSULT AHJ FOR FINAL INSTALL LOCATION(S) AND NOTIFY ARCHITECT PRIOR TO INSTALL.

EMERGENCY KEY ACCESS BOX NOTES — 9C

ENERGY EFFICIENCY - CLIMATE ZONE 3

	REQUIRED	PROVIDED
ROOF		
INSULATED ABOVE DECK:	R-25 CI	POLYISO RIGID INSULATION, R-25 MIN.
WALLS ABOVE GRADE		
WOOD FRAMED	R-20	FIBERGLASS BATT INSULATION, R-20 MIN.
WALLS BELOW GRADE:		
MASS	NOT REQUIRED	N/A
FLOORS		
JOIST FRAMING	R-30	FIBERGLASS BATT INSULATION, R-30 MIN.
SLAB ON GRADE FLOORS		
UNHEATED SLABS:	NOT REQUIRED	N/A
OPAQUE DOORS		
SWINGING DOORS:	(A)1.27	METAL HOLLOW DOORS: R-16 MINIMUM
FENESTRATION (U-VALUE & SHGC)		
FIELD FENESTRATION:	(A)1.28 / SHGC=0.25	1" INSULATED ALUMINUM STOREFRONT: U = .37 / SHGC = 0.30
ENTRANCE DOORS:	(A)1.28 / SHGC=0.23	1" INSULATED ALUMINUM STOREFRONT DOORS: U = .39 / SHGC = 0.20

1. ENVELOPE REQS BASED ON 2024 IECC TABLES C402.1.2, C402.1.3 AND C402.5, CI = CONTINUOUS INSULATION
2. ALL STOREFRONTS AND DRS WILL MEET CLIMATE ZONE 3 REQS.

ENERGY EFFICIENCIES DATA — 9A

LEVEL 1
MALE: 178 OCCUPANTS

WATER CLOSET	2 REQUIRED	2 PROVIDED
LAVATORY	1 REQUIRED	2 PROVIDED
URINAL		1 PROVIDED

FEMALE: 178 OCCUPANTS

WATER CLOSET	3 REQUIRED	3 PROVIDED
LAVATORY	1 REQUIRED	2 PROVIDED

ACCESSORIES: 355 OCCUPANTS

DRINKING FOUNTAINS	1 REQUIRED	1 PROVIDED
SERVICE SINK	1 REQUIRED	1 PROVIDED

*RESIDENTIAL UNITS ON LEVELS 0 AND 2 SELF SATISFY REQUIREMENTS FOR "R" OCCUPANCY, I.E., 1 WATER CLOSET, 1 LAVATORY, 1 BATH/SUB SHOWER PER DWELLING UNIT/ SLEEPING UNIT.

PLUMBING FIXTURE COUNTS — 5C

A. URINALS MAY BE USED FOR UP TO 67% OF THE WATER CLOSETS IN ASSEMBLY OTHERWISE URINALS MAY BE USED FOR UP TO 50% OF THE WATER CLOSETS (2024 IPC SECTION 424.3.);
B. URINAL PARTITIONS REQD (2024 IPC SECTION 424.3.5);
C. THE PARTITION SHALL START AT A HT OF 12" ABOVE THE FLR AND EXTEND TO 60" ABOVE THE FLR.
D. THE PARTITION SHALL EXTEND FORM THE WALL SURFACE AT EA SIDE OF THE URINAL A MIN DISTANCE OF 18" OR 8" BEYOND THE OUTERMOST FRONT LIP OF THE URINAL MEASURED FROM THE BACK WALL SURFACE, WHICHEVER IS GREATER.
E. LOCATION OF TOILET FACILITIES - WITH BOD AND 140 DRY (IPC SECTION 403.2.3).

PLUMBING FIXTURE GENERAL NOTES — 5B

A. RE: GOOD FOR CODE ANALYSIS.
B. RE: ABH FOR WALL TYPES.
C. PLACEMENT / ALIGNMENT OF ALL DEVICES TO BE COORD W/ ARCHITECT PRIOR TO INSTALL.
D. PROVIDE FIRE EXTINGUISHER IN ADEC SINK CABINET AT KITCHEN IN ALL DWELLING UNITS AS WELL AS PROVIDE FIRE EXTINGUISHERS AND CABINETS AS INDICATED BY DWGS. FINAL LOCATIONS SHALL BE COORD W/ AHJ. INFORM ARCHITECT OF ALL FIRE MARSHAL'S LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
E. ALL SPRINKLER HEADS IN GYP BD WALLS AND HARD LID CLGS SHALL BE CONCEALED TYPE.
F. PROVIDE FIRE BLOCKING VERT AT CLG & FLR, AND HORIZ AT INTERVALS NOT EXCEEDING 10' AT UNIT DEMISING WALLS.

EGRESS PLAN GENERAL NOTES — 5A

ASSEMBLY GROUP A-2
ASSEMBLY GROUP A-3
"ACCESSORY OCCUPANCIES NOT EXCEEDING 10% OF FLOOR AREA PER 303.1.4 & 508.2
RESIDENTIAL GROUP R-2
BUSINESS GROUP B
COMMON PATH OF TRAVEL
MAXIMUM EXIT ACCESS TRAVEL DISTANCE
1-HOUR FIRE RATING
PROPERTY LINE
EXIT

EXIT WIDTH
PROVIDED X X OCC. — PROVIDED EXIT CAPACITY
REQUIRED X X OCC. — REQUIRED EXIT CAPACITY
REQUIRED EXIT WIDTH
PROVIDED EXIT WIDTH

STAIR CAPACITY
PROVIDED X X OCC. — PROVIDED STAIR CAPACITY
REQUIRED X X OCC. — REQUIRED STAIR CAPACITY
REQUIRED STAIR WIDTH
PROVIDED STAIR WIDTH

ROOM TAG — XXX — ROOM NAME / ROOM NUMBER
XXX — ROOM AREA
SF/PER X OCC. — OCCUPANT LOAD PER SPACE
OCCUPANT LOAD FACTOR

EGRESS SYMBOLS LEGEND — 1A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@dgmgroup.com
817.240.2700

STRUCTURAL
MIKE GODFREY
steve.thrower@jbconsult.net
615.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
smurray@dbcengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@mcpowersource.us
601.919.4400

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@makestudios.com
615.345.1555

DEVELOPER
WALKER TWASH
walker@venturebuilt.com
662.371.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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PROJ. A_2408

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CODE REVIEW, PROJECT INFO, EGRESS PLANS, & GENERAL NOTES

G002

GENERAL REQUIREMENTS

THE FOLLOWING NOTES ARE FOR RE ONLY AND MAY NOT BE ALL INCLUSIVE OF INDIVIDUAL PROJECT REQS. RE ALL PROJECT DWGS AND CURRENT VERSION OF ADA AND ANSI GUIDELINES FOR ADDITIONAL REQS.

MIN REQS ARE INDICATED. RE TO PROJECT DWGS FOR ACTUAL LAYOUTS AND DIMS.

COMPLY W/ THE US DOJ'S AMERICANS WITH DISABILITIES (ADA) ACT "2010 ADA STANDARDS" AND ANSI A117.1 AS RE BY THE LOCAL CODE, APPLICABLE STATE ACCESSIBILITY REQS AND AS INDICATED ON THE DWGS. IN CASE OF DISCREPANCY, THE MOST STRINGENT REQS WILL APPLY.

STATE OR LOCAL OFFICIALS ARE NOT AUTHORIZED TO ENFORCE OR WAIVE REQS OF THE ADA - AND THERE IS NO FEDERAL INSPECTION ENTITY SUCH AS AN OSHA INSPECTOR. ENFORCEMENT OF THE ADA IS PER CASE-BY-CASE LAWSUITS AND CIVIL RIGHTS ENFORCEMENT IN RESPONSE TO COMPLAINTS. STATE OR LOCAL OFFICIALS MAY WAIVE OR ALTER ACCESSIBILITY REQS OF STATE OR LOCAL ACCESSIBILITY REQS.

PUBLIC & COMMERCIAL FACILITIES: ADA'S TITLE III PROHIBITS DISCRIMINATION AGAINST PERSONS W/ DISABILITIES IN PLACES OF PUBLIC ACCOMMODATION AND COMMERCIAL FACILITIES.

PUBLIC ACCOMMODATION: A PRIVATE ENTITY THAT OWNS, OPERATES, LEASES OR LEASES TO A PLACE OF PUBLIC ACCOMMODATION, INCLUDING:
- PLACES OF LODGING (INNS, HOTELS, MOTELS) EXCEPT FOR OWNER OCCUPIED FACILITIES RENTING FEWER THAN 6 RMS.
- FACILITIES SERVING FOOD OR DRINK (RESTAURANTS OR BARS)
- EXHIBITION OR ENTERTAINMENT FACILITIES (THEATERS, CONCERT HALLS, STADIUMS)
- PUBLIC GATHERING PLACES (AUDITORIUMS, CONVENTION CENTERS, LECTURE HALLS)
- SALES OR RENTAL FACILITIES (BAKERIES, GROCERY STORES, HARDWARE STORES AND SHOPPING CENTERS)
- SERVICE ESTABLISHMENTS (LAUNDROMATS, DRY-CLEANERS, BANKS, BARBER SHOPS, TRAVEL SERVICES, FUNERAL PARLORS, GAS STATIONS, OFFICES OF ACCOUNTANTS OR LAWYERS, PHARMACIES, INSURANCE OFFICES, PROFESSIONAL OFFICES OF HEALTH CARE PROVIDERS, HOSPITALS)
- PUBLIC TRANSPORTATION TERMINALS (DEPOTS, STATIONS) - DOES NOT INCLUDE AIRPORTS
- PLACES FOR PUBLIC DISPLAY (MUSEUMS, LIBRARIES, GALLERIES)
- PLACES OF RECREATION (PARKS, ZOOS, AMUSEMENT PARKS)
- PLACES OF EDUCATION (NURSERY SCHOOLS, ELEMENTARY, SECONDARY, UNDERGRADUATE OR POSTGRADUATE PRIVATE SCHOOLS)
- SOCIAL SERVICE CENTERS (DAY CARE, SENIOR CITIZEN CENTERS, HOMELESS SHELTERS, FOOD BANKS, ADOPTION AGENCIES)
- PLACES OF EXERCISE OR RECREATION (GYMNASIUMS, HEALTH SPAS, BOWLING ALLEYS, GOLD COURSES)

EXEMPT FACILITIES INCLUDE PRIVATE CLUBS AND RELIGIOUS ORGANIZATIONS AND RESIDENTIAL PRIVATE APARTMENTS (UNO) AND HOMES UNLESS A DOCTOR'S OFFICE OR DAY CARE CENTER IS LOCATED W/IN A PRIVATE RESIDENCE - THEN THOSE PORTIONS USED FOR THAT PURPOSE MUST COMPLY.

PUBLIC ACCOMMODATIONS MUST:
- PROVIDE GOODS AND SERVICES IN AN INTEGRATED SETTING, UNLESS SEPARATE OR DIFFERENT MEASURES ARE NECESSARY TO ENSURE EQ OPPORTUNITY.
- ELIMINATE UNNECESSARY ELIGIBILITY STANDARDS OR RULES THAT DENY INDIVIDUALS W/ DISABILITIES AN EQ OPPORTUNITY TO ENJOY THE GOODS AND SERVICES OF A PLACE OF PUBLIC ACCOMMODATION.
- MAKE REASONABLE MODIFICATION IN POLICIES, PRACTICES AND PROCEDURES THAT DENY EQ ACCESS TO INDIVIDUALS W/ DISABILITIES UNLESS A FUNDAMENTAL ALTERATION WOULD RESULT IN THE NATURE OF THE GOODS AND SERVICES PROVIDED.
- ENSURE EFFECTIVE COMMUNICATION THROUGH THE USE OF AUXILIARY AIDS AND SERVICES WHEN NECESSARY UNLESS AN UNDUE BURDEN OR FUNDAMENTAL ALTERATION WOULD RESULT.
- REMOVE ARCH AND STRUCT BARRIERS IN EXIST FACILITIES WHEN READILY ACHIEVABLE AND PROVIDE GOODS AND SERVICES THROUGH ALTERNATIVE MEASURES WHEN REMOVAL OF BARRIERS IS NOT READILY ACHIEVABLE.
- MODIFY POLICIES, PRACTICES OR PROCEDURES TO PERMIT USE OF A SERVICE ANIMAL BY AN INDIVIDUAL W/ A DISABILITY (BUT NOT SUPERVISION OR CARE OF THE SERVICE ANIMAL).

ACCESSIBLE ROUTE
- PROVIDE AN ACCESSIBLE ROUTE ON ACCESSIBLE WALKING SURFACES FROM ACCESSIBLE PARKING, PASSENGER LOADING OR PUBLIC TRANSPORTATION STOPS TO BLDG ENTRANCES AND CONNECT EA TO RM, SPACES OR PORTION OF A BLDG AND ITS ACCESSIBLE ELEMENTS SUCH AS DRS, GATES, ELEVATORS, PLATFORM LIFTS AND TOILET FIXTURES.
- AN ACCESSIBLE ROUTE MAY BE LOCATED AT SIDEWALKS, AISLES, HALLWAYS, CORRIDORS OR TUNNELS.
- THE ACCESSIBLE ROUTE MAY NOT PASS THROUGH KITCHENS, STORAGE RMS, CLOSETS OR SIM SPACES.
- CONST EMPLOYEE WORK AREAS, SPACES AND ELEMENTS SO INDIVIDUALS W/ DISABILITIES ARE ABLE TO APPROACH, ENTER AND EXIT THE WORK AREA EXCEPT AS INDICATED BELOW.
- PROVIDE ACCESSIBLE ROUTES AT ALL COMMON-USE CIRCULATION PATHS W/IN EMPLOYEE WORK AREAS UNLESS THE WORK AREA IS LESS THAN 300 SF AND IS DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS.
- PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB-RAMPS (EXCLUDING THE FLARED SIDES), DRS & DRWAYS AND / OR ELEVS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXT WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS.
- ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM & SLIP-RESISTANT SURFACE FIN W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIA SPHERE - W/ LONGEST DIM PERP TO DIRECTION OF TRAVEL.
- MIN WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.

EXEMPT SPACES - AN ACCESSIBLE ROUTE AND ACCESSIBILITY ARE NOT REQD:
- SPACES W/ LIMITED MEANS OF ACCESS AND MACHINERY SPACES.
- SERVICE ONLY AREAS INCLUDING: CATWALKS, CRAWL SPACES, FREIGHT (NON-PASSENGER) ELEV, ELEV PITS, MECH OR ELECT PENTHOUSES.
- EMPLOYEE WORK AREAS OR PORTIONS THEREOF LESS THAN 300 SF AND ELEVATED ON A PLATFORM 7" OR MORE ABOVE THE GROUND OR FIN FLR WHERE THE RAISED EL IS ESSENTIAL TO THE FUNCTION OF THE SPACE.
- COMMON USE CIRCULATION PATHS W/IN EMPLOYEE WORK AREAS LESS THAN 1,000 SF AND ARE DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS ARE EXEMPT INCLUDING KITCHENS IN QUICK SERVICE RESTAURANTS, COCKTAIL BARS AND THE EMPLOYEEE SIDE OF SERVICE COUNTERS ARE TYP COVERED BY THIS EXCEPTION. IN SUCH AREAS, HANDRAILS ARE NOT REQD ON RAMPS, PROVIDED THEY CAN BE ADDED IN THE FUTURE.
- COMMON USE CIRCULATION PATHS W/IN EMPLOYEE WORK AREAS THAT ARE AN INTEGRAL COMPONENT OF EQUIP. MACHINERY AND EQUIP MAY REDUCE THE CLEAR WIDTH OF COMMON USE CIRCULATION PATHS WHEN THE REDUCTION IS ESSENTIAL TO THE FUNCTION OF THE WORK PERFORMED INCLUDING MACHINERY AND EQUIP THAT MUST BE PLACED A CERTAIN WAY TO WORK PROPERLY OR FOR ERGONOMICS OR TO PREVENT WORKPLACE INJURIES.
- COMMON USE CIRCULATION PATHS W/IN LARGE PIECES OF EQUIP IN FACTORIES, ELECT POWER PLANTS AND AMUSEMENT RIDES.
- COMMON USE CIRCULATION PATHS W/IN EXT EMPLOYEE WORK AREAS THAT ARE FULLY EXPOSED TO THE WEATHER INCLUDING FARMS, RANCHES AND OUTDOOR MAINTENANCE FACILITIES.

ACCESSIBLE BLDG ENTRANCES
- PROVIDE 60% MIN (PER IBC - 50% PER ADA) OF ALL PUBLIC BLDG ENTRANCES (EXCL LOADING OR SERVICE USE) FROM: ACCESSIBLE PARKING, PUBLIC TRANSPORTATION STOP OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) W/O STEPS OR ABRUPT CHANGES IN LEVEL.
- PROVIDE 1 MIN ACCESSIBLE BLDG ENTRANCE AT THE GROUND FLR LEVEL AND 1 MIN ACCESSIBLE ENTRANCE TO EA PROPOSED TENANT SPACE IN MULTI-TENANT BLDGS.
- PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRANCES (NOT INTENDED FOR USE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BLDG.
- MULTI-LEVEL BLDGS: PROVIDE 1 MIN ACCESSIBLE ROUTE (INCL AN ELEV OR PLATFORM TO CONNECT EA BLDG LEVEL (OR MEZZANINES) ABOVE OR BELOW THE ACCESSIBLE ENTRANCE LEVEL UNLESS THE FLR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE 5 OR MORE PLANNED MULTIPLE MERCANTILE (GROUP M) TENANTS OR THE OFFICES OF HEALTHCARE PROVIDERS.

ACCESSIBLE OPERABLE PARTS
- PROVIDE ACCESSIBLE OPERABLE PARTS AT ALL CONTROLS AND OPERATING MECHANISMS INCLUDING BUT NOT LIMITED TO: DR HARDWARE, WDW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, T-STATS, ALARM CONTROLS AND SIM ELEMENTS.
- PROVIDE AN ACCESSIBLE CLEAR FLR SPACE AT ALL OPERATIONAL PARTS.
- ACCESSIBLE OPERABLE PARTS MUST BE OPERABLE BY USE OF 1 HAND IN A SINGLE OPERATION W/O TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- MAX OPERATIONAL FORCE: 5 LBS
- ALLOWABLE HT LIMITS:
  1. MIN HT AFF OR GRADE: 15"
  2. MAX HT AFF OR GRADE: 48"

ACCESSIBLE DOOR & GATE REQS
- REVOLVING DRS OR GATES ARE NOT ACCESSIBLE.
- SECURITY & MAINTENANCE DRS (INCL SERVICE-ACCESS DRS) DO NOT NEED TO COMPLY W/ ACCESSIBILITY REQS.
- DOUBLE-LEAF DRS OR GATES: ONLY 1 LEAF MIN MUST COMPLY W/ ACCESSIBILITY REQS.
- RECESSED DRS: PROVIDE FORWARD APPROACH CLEARANCE W/ ANY OBSTRUCTION W/IN 18" OF LATCH SIDE OF DRWAY PROJECTING MORE THAN 8" BEYOND THE FACE OF DR MEASURED PERP TO FACE OF DR.
- DR SURFACES: PROVIDE SMOOTH SURFACE W/IN 10" AFF ON PUSH-SIDE EXTENDING FULL WIDTH W/ MAX 1/16" BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE). CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DRS, TEMPERED GLASS DRS W/O SIDE STILES W/ A BOT RAIL W/ ITS TOP EDGE SLOPED 60° FROM HORIZ OR MORE OR AT DRS NOT EXTENDING TO 0'-10" AFF.
- SIDELITES OR VISION LITES: AT DRS AND SIDELITES ADJACENT TO DRS W/ 1 OR MORE GLAZING PNLS PERMITTING VIEWING, PROVIDE BOT EDGE OF AT LEAST 1 PNL ON EITHER THE DR OR THE ADJACENT SIDELITE AT 43" MAX AFF, EXCEPT AT VISION LITES (ONLY) W/ THE LOWEST PART MORE THAN 66" AFF.

ACCESSIBLE AUTOMATIC DOORS OR GATES
- REFERENCED STANDARDS: COMPLY W/ ANSI / BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DRS, COMPLY W/ ANSI / BHMA A156.19 (UNLESS DRS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL).
- COMPLY W/ ACCESSIBLE CLEAR-FLR SPACE, THRESHOLD / FLR-SURFACE AND DOORS-IN-SERIES REQS.
- MANUAL CONTROLS: COMPLY W/ "OPERABLE PARTS" REQS W/ THE CLEAR FLR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DR / GATE SWING.

ACCESSIBLE WINDOWS
- PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQS W/ MIN ACCESSIBLE CLEAR-FLR SPACE ADJACENT TO THE WDW.
- SPECIAL ACCESS (PLATFORM) LIFTS (INT OR EXT): COMPLY W/ ASME A17.1 SAFETY CODE FOR ELEVS AND ESCALATORS, APPLICABLE SECTION (W/ ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS:
  1. MAX TRAVEL HT: 60"
  2. MIN CAPACITY: 400 LBS
  3. MIN PLATFORM SIZE: 30 X 52"
  4. MAX SPEED: 20 FPM

ACCESSIBLE ROUTE W/IN BLDG
- SPACES W/IN BLDGS: PROVIDE AN ACCESSIBLE ROUTE TO EA SPACE OR PORTION W/IN A BLDG, TO ACCESSIBLE BLDG ENTRANCES - NOT PASSING THROUGH KITCHENS, STORAGE ROOMS, RESTRMS CLOSETS OR SIM SPACES (IF ONLY 1 ACCESSIBLE-ROUTE IS PROVIDED).
- CONST EMPLOYEE WORK AREA, SPACES AND ELEMENTS SO INDIVIDUALS W/ DISABILITIES CAN APPROACH, ENTER AND EXIT THE WORK AREA (EXCEPT AT WORK-AREAS LESS THAN 150 SF AND ELEVATED 7" OR MORE ABOVE GROUND OR FIN FLR - WHEN THE RAISED EL IS ESSENTIAL TO THE FUNCTION OF THE WORK - AREA - PER IBC).
- PROVIDE ACCESSIBLE ROUTES AT COMMON-USE CIRC PATHS W/IN EMPLOYEE WORK AREAS UNLESS WORK AREA IS LESS THAN 300 SF AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS.
- ACCESSIBILITY NOT REQD (W/IN A BLDG): TO NON-OCCUPIABLE SPACES OR TO SERVICE-ONLY AREAS INCL CATWALKS, CRAWL-SPACES, FREIGHT (NON-PASSENGER) ELEVS, ELEV PITS OR TO MECH PENTHOUSES.

PROTRUDING OBJECTS
- DO NOT ALLOW PROTRUDING OBECTS TO REDUCE THE MIN CLEAR WIDTH REQD ALONG ACCESSIBLE ROUTES OR WALKING SURFACES.
- PROJECTION LIMIT: 4" MAX INTO CIRCULATION PATH FROM 27-80" AFF OR ABOVE GRADE EXCEPT AS FOLLOWS:
  1. HANDRAILS: 4 1/2" MAX
  2. DR CLOSERS AND STOPS: 78" MIN AFF
- PROTRUDING OBJECTS W/ THE LOWEST EDGE BELOW 27" AFF OR ABOVE GRADE MAY PROTRUDE ANY AMOUT BUT CANNOT LIMIT THE REQ WIDTH AND HT OF THE ACCESSIBLE ROUTE.
- PROVIDE GUARDS OR OTHER PERMANENT BARRIERS W/ A LEADING EDGE 27" AFF OR ABOVE GRADE WHEN PUNCHING IS NOT W/IN THE ABOVE LIMITS.

ACCESSIBLE DOOR HARDWARE
- ACCESSIBLE DR OR GATE HARDWARE: PROVIDE UNITS W/ AN EASY-TO-GRASP SHAPE FOR USE W/ 1 HAND THAT OPERATES W/ A SINGLE EFFORT - W/O TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST (LEVERS PUSH/PULLS OR PANIC DEVICES ARE ACCEPTABLE).
- ACCEPTABLE HT: BETWEEN 34-48" AFF OR GRADE.
- ACCESSIBLE SLIDING-DR HARDWARE: OPERATING UNITS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DR IS FULLY OPEN.
- ACCESSIBLE DR CLOSERS: ADJUST UNIT TO PROVIDE A 5 SECOND MIN TIME TO MOVE FROM A 90-DEG OPEN POSITION TO A 12-DEG POSITION.
- ACCESSIBLE SPRING HINGES: ADJUST TO PROVIDE A 1 1/2 SECOND MIN TIME TO MOVE DR FROM A 70-DEG OPEN POSITION TO A FULLY CLOSED POSITION.
- DR OPERATING FORCE FOR PUSHING OR PULLING DRS OR GATES OPEN (EXCEPT AT FIRE DRS WHICH ARE FIRE-CODE / AHJ REQS):
  1. 5 LBS FOR INT HINGED, SLIDING OR FOLDING DRS OR GATES.
  2. NOT APPLICABLE TO LATCH BOLT RETRACTION FORCE.
- ACCESSIBLE DR SURFACES: TO ALLOW PUSH-OPERATION OF DRS USING A CANE, CRUTCH, WALKER OR THE FOOTREST OF A WHEELCHAIR, PROVIDE A SMOOTH SURFACE W/IN 10" OF FLOOR ON THE PUSH-SIDE OF MANUAL DRS - EXTENDING THE FULL DR WIDTH (LESS 2") W/ A MAX 1/16" DIFFERNTIAL BETWEEN SURFACE PLANE BETWEEN DIFFERENT PARTS. CAP ALL CAVITIES IN SURFACE BY PROVIDING KICKPLATES EXCEPT AT THE FOLLOWING:
  1. AUTOMATIC OPERATING SWINGING DRS.
  2. SLIDING DRS.
  3. TEMPERED GLASS DRS W/O SIDE STILES AND W/ A BOT RAIL W/ THE TOP EDGE SLOPED 60-DEG FROM HORIZ OR MORE.
  4. DRS NOT EXTENDING TO 10" AFF (SUCH AS TOILET PARTITION DRS).
  5. REVOLVING DRS (WHICH ARE NOT ACCESSIBLE - A SEPARATE SWINGING DR IS REQ).
  6. AT DOUBLE-LEAF DRS & GATES - 1 LEAF MUST BE ACCESSIBLE.
  7. SECURITY AND MAINTENANCE DRS (INCL SERVICE-ACCESS DRS OR PNLS) INTENDED FOR USE BY SECURITY OR MAINTENANCE PERSONNEL ONLY.
- ACCESSIBLE DR SIDELITES & VISION LITES: AT DRS AND SIDELITES ADJACENT TO DRS W/ 1 OR MORE GLAZING PNLS PERMITTING VIEWING, PROVIDE BOT EDGE OF AT LEAST 1 PNL ON EITHER THE DR OR THE ADJACENT SIDELITE AT 43" MAX AFF, EXCEPT AT VISION LITES W/ THE LOWEST PART MORE THAN 66" AFF.

ACCESSIBLE-ROUTE W/IN BLDG
- ACCESSIBLE-ROUTES MAY CONSIST OF 1 OR MORE OF THESE COMPONENTS:
  1. WALKING SURFACES
  2. RAMPS
  3. DRS AND DOORWAYS
  4. ELEV AND PLATFORM LIFTS
- MIN CORRIDOR WIDTH: 3'-8"
- MIN WIDTH OF ACCESS AISLES: 3'-0"
- CARPETED WALKING SURFACES: BROADLOOM OR CARPET-TILE W/ FIRM CUSHION / PAD (OR W/O CUSHION & PAD) W/ LEVEL LOOP, TEXTURED LOOP, LEVEL CUT OR LEVEL CUT/UNCUT PILE TEXTURE W/ 1/2" MAX PILE-HT. SECURELY ATTACH TO SUBSTRATE AND PROVIDE BEVELED EDGE-TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE PER ABOVE.

AREA-OF-RESCUE ASSISTANCE
- PROVIDE AN "AREA-OF-RESCUE-ASSISTANCE" AT NON-ACCESSIBLE EXIT-DISCHARGE DRS - EXCEPT IN BLDGS W/ A SUPERVISED AUTOMATIC FIRE-SUPPRESSION SYS.
- MIN SIZE: PROVIDE MIN OF 2 EA 2'-6" X 4'-0" AREAS OR 1 EA PER 200 OCCUPANTS PER STORY SERVED NOT ENCROACHING ON ANY REQD EXIT WIDTH.

ACCESSIBLE TOILET ROOMS OR COMPARTMENTS
- UNI-SEX TOILET RM: PROVIDE AN ACCESSIBLE FACILITY W/ A SINGLE WATER-CLOSET AND LAVATORY IN ANY MERCANTILE OR ASSEMBLY OCCUPANCIES WHERE A TOTAL OF 6 OR MORE MALE AND FEMALE WATER-CLOSETS ARE REQD (PER IBC).
- PROVIDE UNI-SEX AND SINGLE-USE TOILET RMS W/ DR LOCKING FROM INSIDE.
- WATER-CLOSET COMPARTMENTS: PROVIDE A MIN OF 1 WHEELCHAIR-ACCESSIBLE COMPARTMENT AND WHEN OVER 6 WATER-CLOSETS + URINALS ARE PROVIDED IN A TOILET RM, PROVIDE 1 TO BE AMBULATORY-ACCESSIBLE IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE UNIT.
- SINKS: PROVIDE NO LESS THAN 1 ACCESSIBLE SINK (OR 5% OF TOTAL) WHERE PROVIDED (MOP OR SERVICE-SINKS ARE NOT REQUIRED TO BE ACCESSIBLE).

ACCESSIBLE DRINKING FOUNTAINS
- IF ONLY 1 DRINKING FOUNTAIN IS PROVIDED IN A SPACE OR BLDG, PROVIDE A "DUAL HI-LOW" TYPE UNIT ACCESSIBLE TO BOTH WHEELCHAIR USERS AND TO PERSONS W/ DIFFICULTY BENDING OR STOOPING (STANDARD HT UNIT) OR OTHER MEANS TO ACHIEVE EQUIVALENT ACCESSIBILITY FOR BOTH (PROVIDING AN ACCESSIBLE WATER COOLER, FOR EXAMPLE).
- PROVIDE DRINKING FOUNTAINS IN ALCOVE OUT OF COMMON PATH OF TRAVEL.
- SPACING BETWEEN DRINKING FOUNTAINS: 27" MIN.

ACCESSIBLE ELEVATORS
- MINIMUM CAR SIZE: DEPTH: 4'-3" TO FRONT WALL - 4'-6" TO DR.
  WIDTH: 50 OR MORE OCCUPANTS: 6'-8" MIN (STRETCHER TYPE).
  UNDER 50 OCCUPANTS: 4'-6" MIN.
- MIN DOOR WIDTH: 50 OR MORE OCCUPANTS: 3'-6" MIN.
  UNDER 50 OCCUPANTS: 2'-10" MIN.
- HANDRAIL AT REAR: LOCATE BETWEEN 2'-6" TO 2'-10" AFF.
- ELEVATOR CONTROLS: LOCATE BETWEEN 2'-11" MIN AND 4'-6" AFF MAX
  PROVIDE EMERGENCY PHONE @ 4'-0" AFF MAX W/ 2'-5" MIN CORD LENGTH.
- HALL-CALL BUTTONS: CTR AT 3'-6" AFF.
- HALL LANTERNS: 6'-0" AFF - VISUAL AND AUDIBLE.
- FLOOR INDICATOR SIGNS: 2"-H CONTRASTING LETTER SIGN W/ BRAILLE ON SIDE OF DR JAMB AT 60" AFF.

ACCESSIBLE SEATING
- WHEN PROVIDED AT FIXED OR BUILT-IN TABLES, COUNTERS OR WORK SURFACES, PROVIDE 5% MIN BUT NO LESS THAN 1 ACCESSIBLE SEATING, DISTRIBUTED THROUGHOUT.
- POINT-OF-SALE (POS) OR SERVICE COUNTERS: PROVIDE NO LESS THAN 1 UNIT TO BE ACCESSIBLE DISPERSED THROUGHOUT IF COUNTERS ARE DISPERSED.

ACCESSIBLE SIGNAGE
- REQD ACCESSIBLE SIGNS (MIN) EXCEPT AT BLDG DIRECTORIES, MENU BDS OR TEMP SIGNS PROVIDE ACCESSIBLE SIGNS AS FOLLOWS:
- ACCESSIBLE ENTRANCES: PROVIDE A 4X4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DRS CTRD AT 60" AFF.
- NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE.
- NON-ACCESSIBLE TOILET RMS: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE UNITS.
- RM (OR SPACE) SIGNS (INCL TOILET RMS): PROVIDE RAISED PICTOGRAMS, TACTILE CHARACTERS AND BRAILLE TEXT.
- ACCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE OR A COMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE-NO ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS.
- FIN & CONTRAST: NON-GLARE WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.
- ILLUMINATION LEVEL AT ACCESSIBLE SIGNS: MIN 10 FOOTCANDLES AND NAMES. INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS OR PROVIDE CLEAR FLR AREA OF 18X18" CTRD ON TACTILE CHARACTER SIGNS BEYOND ARC OF DR SWING FROM CLOSED TO 45 DEG OPEN POSITION.
- BRAILLE: CONTRACTED (GRADE 2) W/ INDICATION OF AN UPPERCASE LETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS OR ACRONYM.

ALARMS
- IF EMERGENCY WARNING SYS ARE PROVIDED, PROVIDE BOTH AUDIBLE AND VISUAL ALARMS IN ANY COMMON-USE AREAS, (INCLUDING BUT NOT LIMITED TO RESTRMS, MEETING RMS, HALLWAYS AND LOBBIES), PERMANENTLY CONNECT ALARM SYS TO THE BLDG ELECT POWER AND LIGHTING SYS AS APPROPRIATE.
- IF AUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT SOUND LEVEL OF A SPACE BY AT LEAST 15 dbA OR EXCEED ANY MAX SOUND LEVEL W/ A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER (NOT EXCEEDING 120dbA).
- IF VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQ. W/ 0.2 SECOND MAX PULSE DURATION AND MAX DUTY CYCLE OF 40%, PROVIDING A MIN BRIGHTNESS INTENSITY OF 75 CANDELA W/ A FLASH RATE BETWEEN 1 AND 3 Hz, LOCATE UNITS NO MORE THAN 6'-10" (80") AFF OR 6" BELOW CLG (WHICHEVER IS LOWER), LOCATE 50' MAX FROM ANY POINT W/IN A SPACE OR COMMON CORRIDOR OR IN LARGE SPACES OVER 100' ACROSS W/O OBSTRUCTIONS 6' AFF, LOCATE AROUND RM PERIMETER AT MAX 100' CTRS.

ACCESSIBILITY_GENERAL NOTES — 9A

ABBREVIATION	DESCRIPTION
SYMBOLS	
+/- or ±	PLUS OR MINUS
#	NUMBER / POUND
&	AND
(E)	EXISTING
@	AT
A	
A/C	AIR CONDITIONING
A/V	AUDIO / VISUAL
AB	ANCHOR BOLT
AC	ALTERNATING CURRENT
ACOUST	ACOUSTIC, ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS W/ DISABILITIES ACT
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE (ELECTRICAL)
ANOD	ANODIZED
AP	ACCESS PANEL
APROX	APPROXIMATE
ARCH	ARCHITECTURAL
AR-GWB	ABUSE RESISTANT GWB
ASPH	ASPHALT
AVG	AVERAGE
B	
BD	BOARD
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BK	BRICK
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
C	
CAB	CABINET
CB	CORNER BEAD
CC	CENTER TO CENTER
CDS	CONTRACT / CONSTRUCTION DOCUMENTS
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE (CONCRETE)
CJ	CONTROL JOINT
CKT	CIRCUIT (ELECTRICAL)
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEARANCE, CLEAR
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION / CONSTRUCTED / CONSTRUCT
COORD	COORDINATE
CDC	COLD-ROLLED CHANNEL
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR(S)	CENTER(S)
CW	COLD WATER
D	
D	DEEP
DBL	DOUBLE
DCMU	DECORATIVE CMU
DEG	DEGREES
DEPT	DEPARTMENT
DEMO	DEMOLISH
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DR(S)	DOOR(S)
DS	DOWNSPOUT
DTL	DETAIL
DWC	DRYWALL FURRING CHANNEL
DWG	DRAWING
DWR	DRAWER
E	
E	EAST
EA	EACH
EB	EXPANSION BOLT
EDF	ELECTRICAL DRINKING FOUNTAIN
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL / ELECTRONIC
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENT	ENTRY, ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FACP	FIREALARM CONTROL PANEL
FBD	FIBERBOARD
FCBD	FIBER-CEMENT BOARD
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FIXTURES, FURNITURE &EQUIPMENT
FGL	FIBER-GLASS
FH	FIRE HOUSE
FHC	FIRE HOSE CABINET
FIN	FINISH / FINISHED /FINISHING /FINISHES
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR, FLOORING
FLUOR	FLUORESCENT
FOF	FACE OF FINISH
FOS	FACE OF STUD (FRAMING)
FRM	FRAME
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FLOOR SINK
FSE	FOOD SERVICE EQUIPMENT
FT	FOOT, FEET
FTG	FOOTING
FURR	FURRING
FV	FIELD VERIFY
G	
GA	GAGE (GAUGE)
GALV	GALVANIZED
GB	GRAB BAR
GBM	GRADE BEAM
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS, GLAZING
GMGWB	GLASS MAT GWB
GPM	GALLONS PER MINUTE
GR	GUARDRAIL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAD
HDBD	HARDBOARD
H-DRYER	HAND DRYER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HANDRAIL
HT	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HYD	HYDRANT
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(ES)
INFO	INFORMATION
INSUL	INSULATION, INSULATE
INT	INTERIOR
IR-GWB	IMPACT RESISTANT GWB
J	
JAN	JANITOR
JF	JOINT FILLER
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCKOUT
KVA	KOLOVOLT-AMP(S)
KW	KILOWATT
KWH	KILO-WATT HOUR
L	
L	LONG / LENGTH
LAM	LAMINATED
LAV	LAVATORY
LB(S)	POUND(S)
LF	LIGHT FIXTURE
LKR	LOCKER
LL	LANDLORD (OR LIVE LOAD)
LT	LIGHT
LTG	LIGHTING
LVP	LUXURY VINYL PLANK
LVT	LUXURY VINYL TILE
LWC	LIGHT WEIGHT CONCRETE
M	
MGMT	MANAGEMENT
MAS	MASONRY
MAX	MAXIMUM
MB	MARKER BOARD
MDF	MEDIUM-DENSITY FIBERBOARD
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MEZZ	MEZZANINE
MANUF	MANUFACTURER, MANUFACTURED
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOULDING
MO	MASONRY OPENING
MSV	MANUFACTURED STONE VENEER
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
MTL	METAL
MUL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPS	NATIONAL PARK SERVICE
NT-DISP	FEMININ NAPKIN DISPENSER
NTS	NOT TO SCALE
NT-WR	FEMININ NAPKIN WASTE RECEPTACLE
O	
OA	OUTSIDE AIR
OA	OVERALL
OC	ON CENTER(S)
OCC	OCCUPANT(S)
OD	OUTSIDE DIAMETER / DIMENSION
OH	OVERHEAD
OPNG	OPENING
OPT	OPTIONAL
ORD	OVERFLOW (SECONDARY) DRAIN
OTS	OPEN TO STRUCTURE ABOVE
OZ	OUNCE
P	
PAR	PARALLEL
PART	PARTITION
PBD	PARTICLEBOARD
PC	PRE-CAST CONCRETE
PCP	PORTLAND CEMENT PLASTER
PDU	POWER DISTRIBUTION UNIT
PERP	PERPENDICULAR
PH	PHASE (ELECTRICAL)
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLMB	PLUMBING
PNLG	PANELING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
PT-DISP	PAPER TOWEL DISPENSER
PT-WR	COMBO PT-DISP & W-RCPT
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RISER(S)
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFELCTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE / REFER TO
RECP	RECEPTACLE
REF	REFRIGERATOR
REFL	REFLECTED, REFLECTING
REINF	REINFORCED, REINFORCING
RELOC	RELOCATE
REQD	REQUIRED
REV	REVISION / REVISED
RFC	RESILIENT FURRING CHANNEL
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RTU	ROOFTOP UNIT (MECH)
S	
S	SOUTH
S/S	STAINLESS STEEL
S4S	FINISH SURFACED ON 4 SIDES
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE / SCHEDULED
SD	SMOKE DAMPER
S-DISP	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FOOT (FEET)
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SH	SHOWER
SHPO	STATE HISTORIC PRESERVATION OFFICE
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SJ	SAWN JOINT
SM	SHEET METAL
SP	SPACING
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STO	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUSP	SUSPENDED
SY	SQUARE YARD(S)
SQ	SQUARE
SYM	SYMMETRICAL
SYS	SYSTEM
T	
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T-BAR	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPERED / TEMPORARY / TEMPERATURE
TERM	TERMINATE
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB OR STEEL
TPTN	TOILET PARTITION
TRT	TREATED (WOOD PRESERVATIVE)
TS	TUBE STEEL
TTD	TOILET TISSUE DISPENSER
TV	TELEVISION
TYP	TYPICAL
U	
UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	
V	VOLT(S)
VB	VAPOR BARRIER
VCT	VINYL COMPOSITE TILE
VENT	VENTILATION / VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	
W	WEST / WIDE / WIDTH
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE (STEEL)
WH	WALL HYDRANT
WH	WATER HEATER
WO	WALL OPENING
WP	WATERPROOF, WATERPROOFING
WRB	WEATHER-RESISTANT BARRIER
W-RCPT	WASTE RECEPTACLE
WR-GWB	WATER RESISTANT GWB
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
X	BY
Y	
YD	YARD

STANDARD ABBREVIATIONS — 1A

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertilalbo.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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ABBREVIATIONS AND ACCESSIBILITY NOTES

G011

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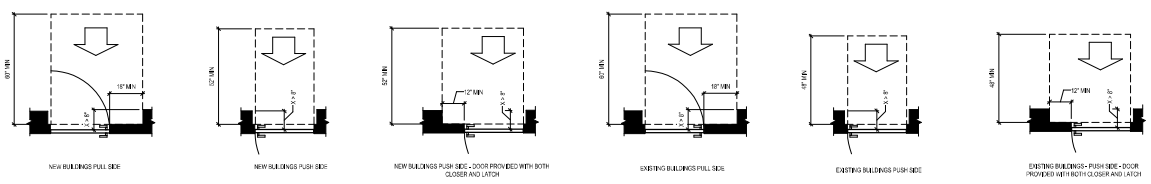
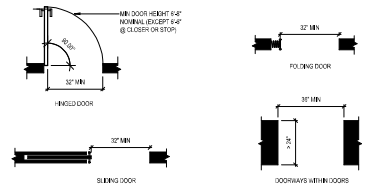
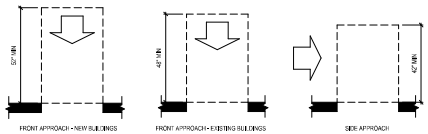


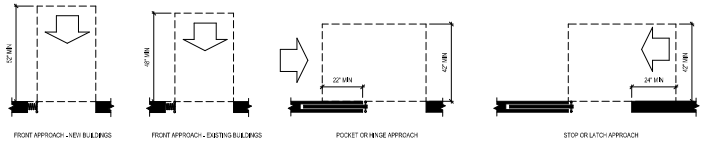
CLEARANCES AT RECESSED DOORS & GATES **6H**



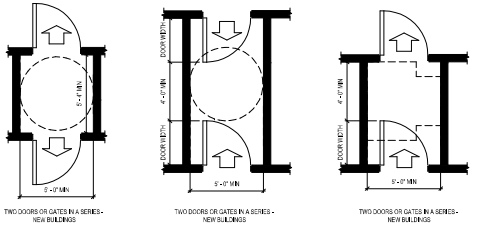
CLEAR WIDTH OF DOORWAYS **1H**



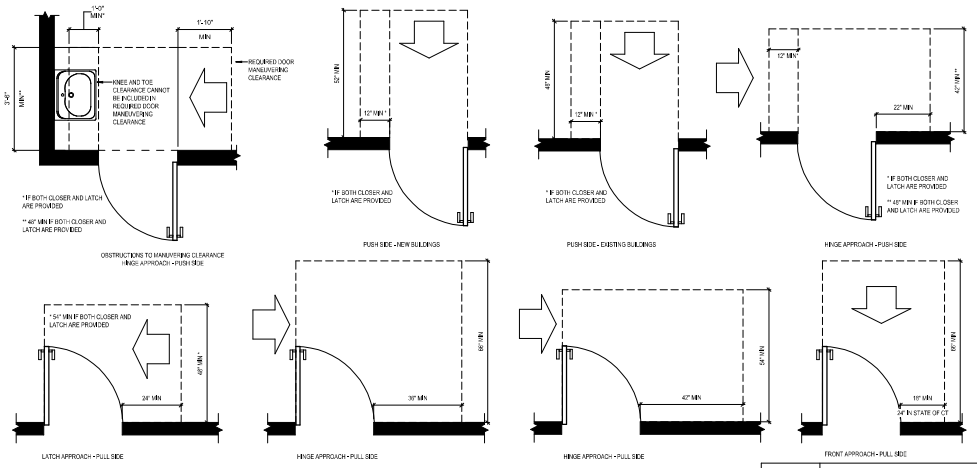
CLEARANCES FOR DOORWAYS W/O DOORS **13F**



CLEARANCES AT SLIDING & FOLDING DOORS **6F**

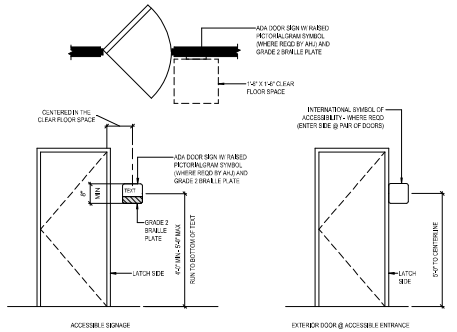


APPROACH - DOORS & GATES IN SERIES **1E**



CLEARANCES AT MANUAL SWINGING DOORS **6A**

NOTES:
A. CLEAR OPENING DOES NOT INCLUDE FRAME STOPS OR DOOR THICKNESS.
B. MANUVERING CLEARANCE AT DOORS OR GATES MUST BE ON A STABLE, FIRM AND SLIP-RESISTANT ACCESSIBLE WALKING SURFACE 'W' A TOTAL MAX SLOPE (CROSS SLOPE OF 1:48 (2%).
C. REFERENCE CLEAR SPACE REQS FOR MIN. DOOR OPENINGS WIDTHS.
D. REFERENCE CLEAR SPACE REQS FOR INTERIOR SIGNAGE.
E. AT RECESSED DOORS & GATES PROVIDE PULL OR PUSH-SIDE FORWARD APPROACH MANEUVERING CLEARANCE WHEN WALL OR OTHER OBSTRUCTIONS (INCLUDING THE DOOR FRAME) ON THE LATCH SIDE IS MORE THAN 8" DEEP.
F. AT PULL SIDE THE REQD CLEARANCE DEPTH IS 5'-0" MIN. AT PUSH SIDE THE REQD CLEARANCE DEPTH IS 4'-0" MIN.
G. AT PULL SIDE PROVIDE 2'-0" IN STATE OF CT.
H. MIN 6'-8" HIGH (NOMINAL DOOR W/ MIN CLEAR TO CLOSER OR STOP.)
I. 4" MAX HARDWARE PROJECTIONS BETWEEN 34" MIN TO 80" AFF.



DOOR SIGNAGE REQUIREMENTS **1A**

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@gmgmep.com
913.345.2700
STRUCTURAL
MIKE GODFREY
steve@hoenerstructural.net
913.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
913.381.1555
ELECTRICAL
CHRIS GREEN
cgreen@mcpowerassocs.us
913.649.4500
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@mkstudios.com
913.345.1555
DEVELOPER
WALKER THRASH
walker@vertikalkc.com
661.217.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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G012

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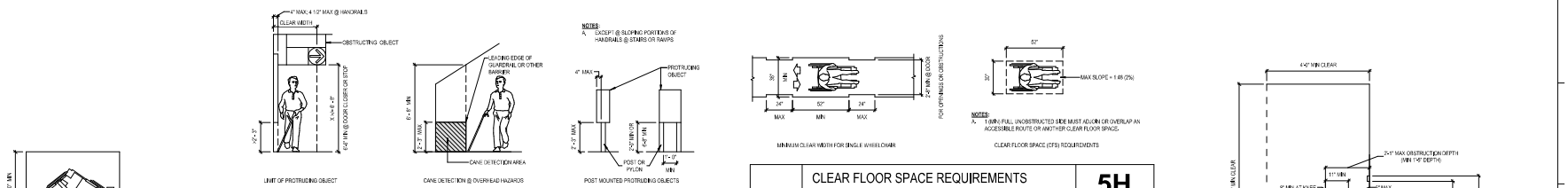
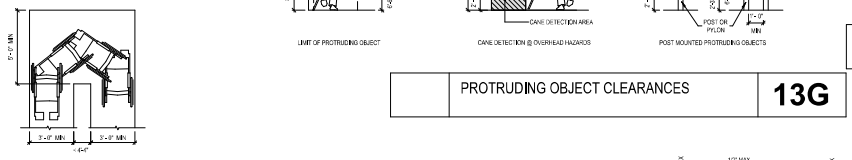
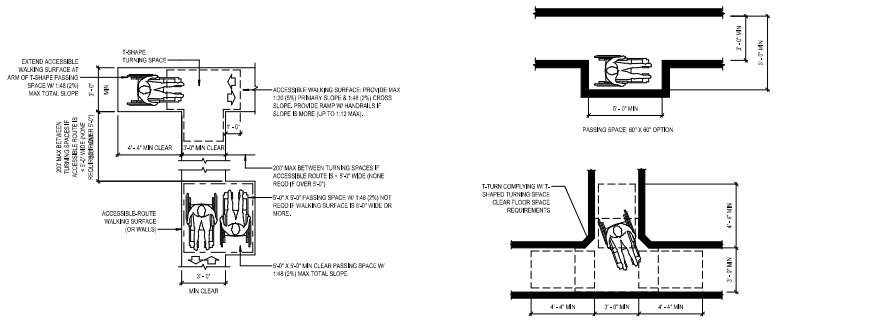


PROTRUDING OBJECT CLEARANCES 13G



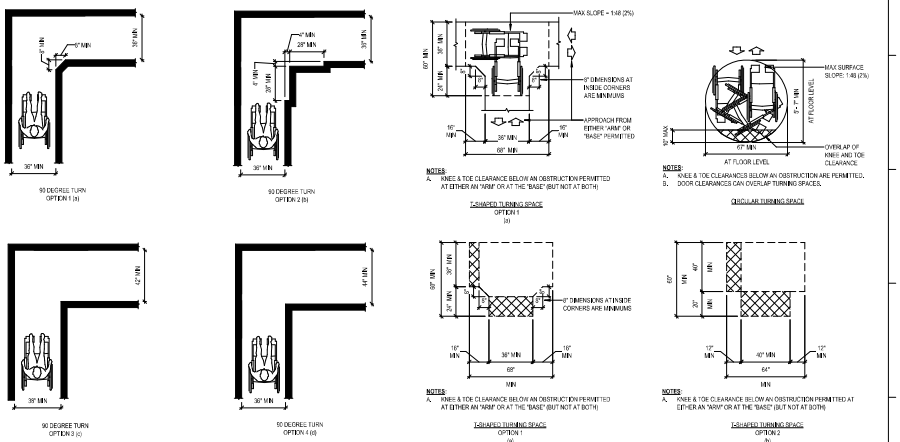
OBJECT TURNAROUND CLEARANCES 13E

MAX ALLOWABLE FLOOR LEVEL CHANGES 9E



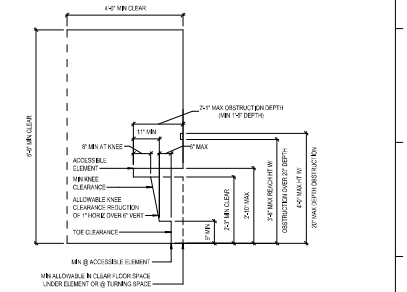
PASSING SPACES @ ACCESSIBLE ROUTE 13A

PASSING SPACE OPTIONS 9A

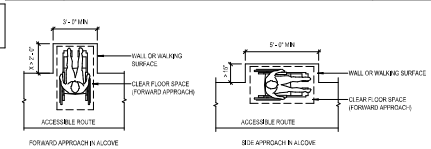


90 DEGREE TURN 5A

CLEAR TURNING SPACE REQUIREMENTS 1A



KNEE AND TOE CLEARANCES 1F



ACCESSIBLE ALCOVE APPROACHES 5F

CLEAR FLOOR SPACE REQUIREMENTS 5H

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON CROSS
jgross@gmgnu.com
913.345.2150
STRUCTURAL
MIKE GODFREY
sean@hoerner@bcmcnet.net
913.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
smurray@olsson-engineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@mcpowerassoc.us
913.649.4500
LANDSCAPE
AUSTIN LOVITT
austin.jlovitt@mikeschaffer.com
913.345.1555
DEVELOPER
WALKER THRASH
walker@carthalliance.com
662.371.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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G013

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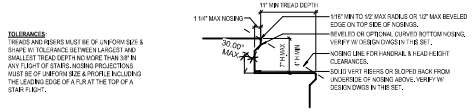
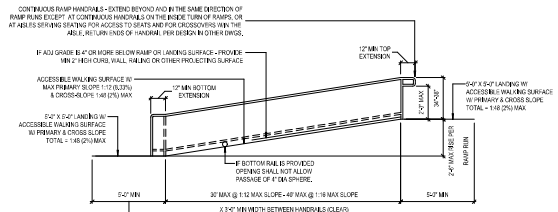


TOLERANCES:
TREADS AND RISERS MUST BE OF UNIFORM SIZE & SHAPE W/ TOLERANCE BETWEEN LARGEST AND SMALLEST TREAD DEPTH NO MORE THAN 3/8" IN ANY FLIGHT OF STAIRS. NOSING PROJECTIONS MUST BE OF UNIFORM SIZE & PROFILE INCLUDING THE LEADING EDGE OF A FLR AT THE TOP OF A STAIR FLIGHT.

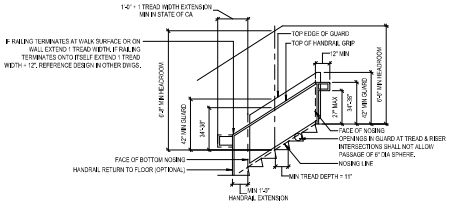
NOTES:
A. INT OR EX - FOR COMMERCIAL USE ONLY - NOT FOR RESIDENTIAL.
B. DIMS EXCLUDE FINAL FLR FIN.
C. RISERS SHALL BE SOLID VERT OR SLOPED BACK FROM UNDERSIDE OF NOSING ABOVE, VERIFY W/ DESIGN DWGS IN THIS SET.
D. NO OPEN RISERS* UNLESS STAIR IS NOT PART OF ANY ACCESSIBLE MEANS OF EGRESS* AND THEN ONLY W/ THE OPENING NOT PERMITTING PASSAGE OF A 4" DIA SPHERE OR AT GROUP I-3 F, H OR S OCCUPANCIES NOT ACCESSIBLE TO THE PUBLIC (W/O RESTRICTIONS ON OPENING SIZE).

STAIR TREADS & RISERS



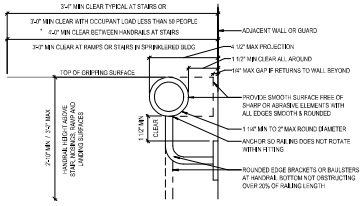
NOTES:
A. ABOVE DIAGRAM IS FOR ADA COMPLIANCE ONLY. ACTUAL FINAL DESIGN, MATERIALS AND RETURNS USED FOR RAILINGS PER OTHER DWGS IN THIS SET.
B. OPEN RAILING ENDS NOT PERMITTED.
C. PROVIDE 12"-W SURFACE BEYOND HANDRAIL OR BOTTOM RAIL AT OPEN-SIDED RAMPS, TYP.

ACCESSIBLE RAMPS (INTERIOR OR EXTERIOR)



NOTES:
A. ABOVE DIAGRAM IS FOR ADA COMPLIANCE ONLY. ACTUAL FINAL DESIGN, MATERIALS AND RETURNS USED FOR RAILINGS PER OTHER DWGS IN THIS SET.
B. PROVIDE UNIFORM RISERS HEIGHTS & TREAD WIDTHS THROUGHOUT STAIR RUN, TYP. 3/8"S & SMAPE W/ TOLERANCE BETWEEN LARGEST AND SMALLEST TREAD DEPTH NOT MORE THAN 3/8" WIN ANY FLIGHT OF STAIRS.
C. CONST EXT STAIRS, LANDINGS AND APPROACHES TO SLOPE SO WATER WILL NOT ACCUMULATE.
D. ACCESSIBLE WALKING SURFACES SHALL HAVE A TOTAL MAX SLOPE (IN ALL DIRECTIONS) OF 1:48 (2%).
E. STAIR VT SHALL BE 12'-0" MAX RUN BETWEEN LANDINGS.
F. OPENINGS IN GUARDS SHALL NOT ALLOW PASSAGE OF 4" DIA SPHERE.
G. PROVIDE CLOSED RISERS ONLY - OPEN NOT PERMITTED.
H. PROVIDE HANDRAILS ON BOTH SIDES OF STAIRS, CONT FOR THE FULL LENGTH OF FLIGHTS W/O INTERRUPTION BY POSTS EXCEPT FOR ROUNDED-EDGE BRACKETS OF BALUSTERS ON BOT. OF HANDRAIL THAT DOES NOT OBSTRUCT MORE THAN 20% OF HANDRAIL LENGTH AND W/ HORIZ BRACKET SUPPORT PROJECTIONS 1 1/2" MIN BELOW THE BOT OF HANDRAIL.
I. OPEN RAILING ENDS NOT PERMITTED.
J. NOSINGS: 1/2" MAX RADIUS AT TOP LEADING EDGE, W/ 1 1/2" MAX PROJECTION - PROVIDE SLOPED RISER OR STRAIGHT W/ UNDERSIDE OF NOSING AT TOP ANGLED 60 DEG OR MORE FROM HORZ W/ SMOOTH UNDERSIDE FINISH (NOT ABRUPT).
K. FIXED GUARDS AT OPEN-SIDED WALKING SURFACES & STAIRS TO BE PROVIDED WHERE MORE THAN 30" ABV OR BELOW GRADE.

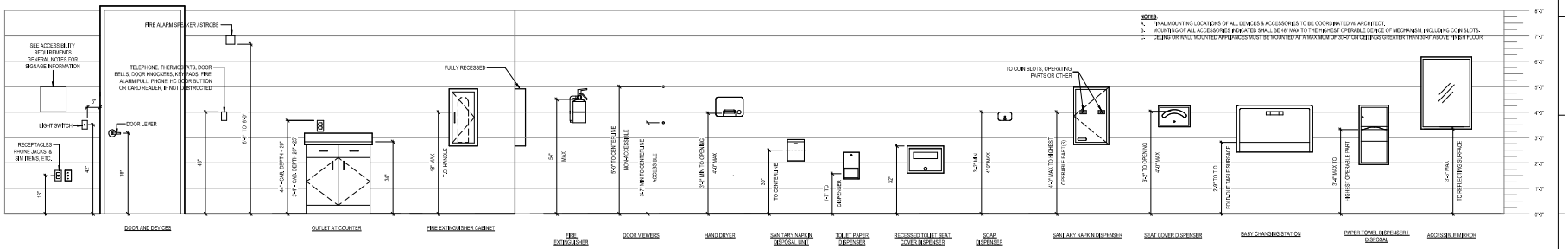
ACCESSIBLE STAIRS WITH HANDRAIL AND GUARD - INTERIOR OR EXTERIOR (FOR COMMERCIAL USES (NOT FOR RESIDENTIAL USES)



NOTES:
A. ABOVE DIAGRAM IS FOR ADA COMPLIANCE ONLY. ACTUAL FINAL DESIGN, MATERIALS AND RETURNS USED FOR RAILINGS PER OTHER DWGS IN THIS SET.
B. HANDRAIL STRUCTURAL CAPACITY: 250LB MIN LOAD AT ANY POINT OR 50LB MIN LOAD PER LINEAR FOOT
C. HANDRAIL PROFILES SHALL BE 1 1/4" MIN TO 2" MAX DIA ROUND OR RECTANGULAR HANDRAIL W/ 4" MIN TO 6 1/4" MAX PERIMETER & W/ CROSS-SECTIONAL DIM BETWEEN 1" TO 2 1/4" MAX.
D. PROVIDE HANDRAILS AT BOTH SIDES OF STAIRS OR RAMPS (EXCEPT IF RAMP IS LESS THAN 6" VERT RISE OR 8'-0" HORZ RUN) PROVIDE CONT HANDRAILS W/IN THE FULL LENGTH OF EA STAIR FLIGHT OR RAMP RUN AND ON THE INSIDE OF SWITCHBACK OR DOGLEG RAMPS OR STAIRS BETWEEN FLIGHTS OR RUNS (EXCEPT AT HANDRAILS IN AISLES SERVING SEATING).
E. PROVIDE HANDRAIL SURFACES & EDGES SMOOTH AND FREE OF SHARP OR ABRASIVE ELEMENTS. EASE ALL SQ EDGES, TYP.
F. PROVIDE A MIN 12" CLEAR ABOVE AND 1 1/2" BELOW HANDRAIL EXCEPT AT SUPPORT BRACKETS.
G. DIMS ARE EXCLUSIVE OF CARPETS, RUGS OR RUNNERS.

RAMP & STAIR HANDRAILS - INTERIOR OR EXTERIOR - IBC TYPE I INDICATED (TYPE II) PERMITTED ONLY IN GROUP R-2 OR R-3 OCCUPANCIES)

	RAMP & STAIR REQUIREMENTS	1E



	ACCESSORY MOUNTING HEIGHTS	1A

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@gmsp.com
KS LIC.#1910

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
KS LIC.#1400

DEVELOPER
WALKER TIRASH
walker@vertikalbuilt.com
KS LIC.#1400

STRUCTURAL
MIKE GODFREY
steve.thoreen@jbcmcad.net
KS LIC.#21000

LANDSCAPE
AUSTIN LOVITT
austin.jam@makeshiftkc.com
KS LIC.#21000

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
KS LIC.#2000

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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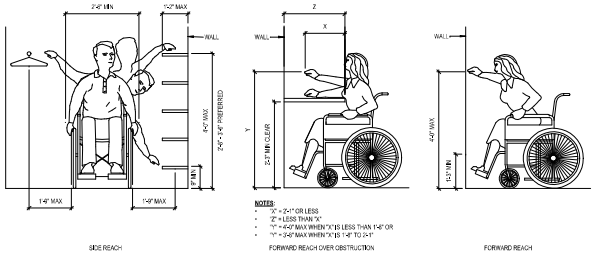
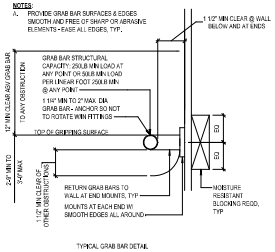
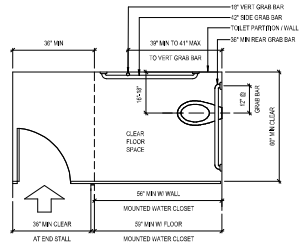
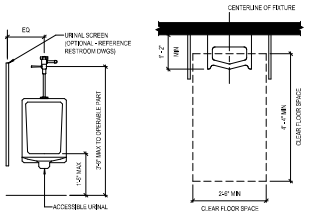


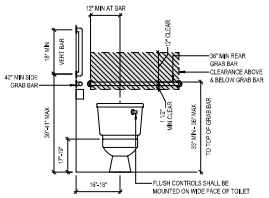
	REACHABILITY REQUIREMENTS	10G

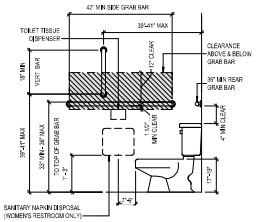




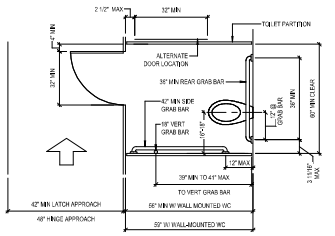


	URINAL CLEARANCES	10D



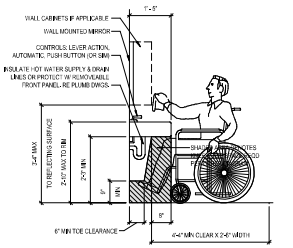


	RESTROOM ACCESSORIES REQUIREMENTS	5D

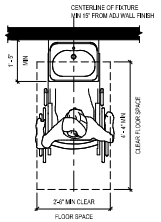


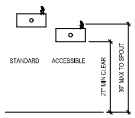
NOTES:
A. FLUSH CONTROL SHALL BE 12 MAX FROM FACE OF REAR WALL.
B. PROVIDE 5'-2" X 5'-2" CFS AT HWC W/ ONLY THE HWC UNIT, GRAB BARS AND TOILET TISSUE DISPENSER.

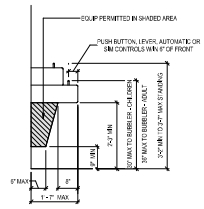
	STANDARD STALL CLEARANCES	1D

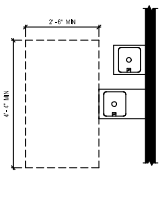


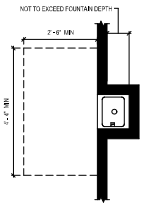
NOTES:
A. GRASPING, PINCHING OR TWISTING OF THE WRIST (OPERABLE W/ 1 HAND SUCH AS LEVER-OPERATED) AND AN OPERATING FORCE NOT EXCEEDING 5 LBS OF FORCE.

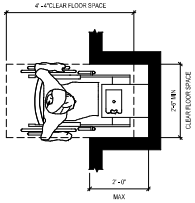












	DRINKING FOUNTAIN & LAV CLEARANCES	5A

ACCESSIBILITY PLUMBING GENERAL NOTES :
A. WATER CLOSET CONTROLS SHALL BE OPERABLE W/ 1 HAND, AND SHALL NOT REQ TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
B. CONTROLS FOR FLUSHING OF WATER CLOSETS AND URINALS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44" AFF.
C. THE FORCE REQD TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
D. IF SELF-CLOSING VALVES ARE USED, THEY SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
E. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL NOT BE OF THE TYPE REQ TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
F. INSULATE ALL PLUMB LINES AND DRAINS AT LAVATORIES.

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@kgmgroup.com
601.362.2950
STRUCTURAL
MIKE GODFREY
steve@hoenergi@comcast.net
601.940.1000
CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@hcpowersource.us
601.940.4500
LANDSCAPE
AUSTIN LOVITT
austin.l@mikewhalley.com
601.940.1000
DEVELOPER
WALKER THRASH
walker@vertikalllc.com
601.214.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2025

PROJ. A_2406

Issued For	Date	#
100% CONSTRUCTION DOCUMENTS	01.16.2025	0

STANDARD ACCESSIBILITY REFERENCE DIAGRAMS

G015

DIVISION 00: PROCUREMENT AND CONTRACTING REQUIREMENTS
SECTION 00 52 00 – AGREEMENT FORM
AGREEMENT FORM: AIA Document A104 – 2017 Edition: "Standard Form of Agreement between Owner and Contractor for a Project of Limited Scope", which includes General Conditions Articles 1 through 21 inclusively.

SECTION 00 73 00 – SUPPLEMENTARY CONDITIONS
THE FOLLOWING "SUPPLEMENTARY CONDITIONS" modify the "General Conditions" as if originally written therein. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions will remain in full effect. The General Conditions may also be modified elsewhere in the Contract Documents by provisions located in other Sections of the Specifications.

ADD to 1.1, the following:
1.1.9 'FURNISH': Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
1.1.10 'INDICATED': Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including 'shown', 'noted', 'scheduled', and 'specified' have the same meaning as 'indicated'.
1.1.11 'INSTALL': Operations at the Project Site including but not limited to unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
1.1.12 'PROJECT SITE' (or SITE): The designated interior-space or land-area upon which construction activities will be performed. The extent of the Project Site may not be identical to the legal description of the land on which Project is to be built.
1.1.13 'PROVIDE': Furnish and install, complete and ready for the intended use.
ADD to 1.1.8, the following:
"The Initial Decision Maker" will be the Architect."
ADD to 1.2, the following:
1.2.4 Although the Construction Documents have been prepared with due care and diligence, perfection is not guaranteed. Design and construction are complex, consequently every possible field condition cannot be anticipated or indicated. The Drawings may be diagrammatic, and all components required for complete installation may not be fully indicated.
1.2.5 Unless otherwise indicated within the Construction Documents, all notes written in the imperative mood refer to action(s) to be performed by the Contractor - the words 'the Contractor shall' (or must) are always implied."
1.2.6 Figured dimensions and marked data will take precedence over scaled measurements, and details will take precedence over smaller scale general drawings of which they are intended to amplify. Details or conditions indicated for a portion of the Work but not carried out fully for other portions will apply throughout to similar portions of the Work, except as specifically noted.
1.2.7 In case of conflict in or between requirements of the Contract Documents (including General and Supplementary Conditions, Division-01 General Requirements, Drawings and Specifications) or with manufacturer's product requirements, the Contractor will be deemed to have agreed to provide the greater quantity and better quality of materials and Work.
ADD to 1.5, the following:
1.5.3 Electronic media data (EMD) of the Contract Documents are the Architect 's 'Instruments of Service', who retains all common law, statutory law and other rights, including their copyright. No representation is made regarding the accuracy or completeness of EMD.
1.5.4 If EMD files are transferred from the Architect to the Contractor, the Contractor will not use them for any purpose other than preparation of shop drawings, coordination drawings, or for Record Drawings of this Project. The Contractor agrees not to transfer the EMD to any entity not involved in the construction Work without the prior written consent of the Architect.
1.5.5 The Contractor further agrees to waive all claims against the Owner and the Architect, resulting in any way from any use of the use of EMD. Use of EMD does not reduce or minimize in any way the Contractor's responsibility to take field measurements, check dimensions, and to coordinate with other construction Work at the Project Site.
ADD to 3.2.1, the following:
Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined and understands the intent of the Contract Documents. No claims will be approved for additional time or costs resulting from the Contractor's lack of familiarization of the requirements of the Construction Contract.
ADD to 3.5, the following:
3.5.3 Equipment, material, or services provided by the Contractor that fail to receive approval by AHJ representatives are immediately rejected and constitute Contract default. The Contractor must correct such failure as expeditiously as possible in a manner acceptable to the AHJ and to the Owner within thirty (30) days of notice from the AHJ. If the Contractor does not correct such rejected Work within that period, the Owner may make the required corrections, and deduct all costs incurred plus a ten percent (10%) administrative fee or $500 (whichever is greater) from the Contract Sum.
ADD to 3.10, the following:
3.10.4 If the Contractor fails to adhere to the Construction Schedule, the Contractor will furnish additional labor and/or services or work sufficient overtime as may be necessary to make construction progress conform to the Construction Schedule, at no additional cost to the Owner. Failure to adhere to the schedule, or failure to take steps to regain the schedule, will constitute Contract default.
ADD to 3.12.10, the following:
3.12.10.3 The Contractor will require that any entity engaged to provide Professional Design Services will maintain Professional Liability Insurance with minimum limits of $1,000,000 per claim and annual aggregate. Insurance coverage must be maintained not less than one (1) year after Substantial Completion. Provide the Architect with a Certificate of Insurance evidencing coverage prior to performance of such services.
ADD to Article 4, the following:
4.1.1.3 ARCHITECT'S LIMITED-SCOPE CONSTRUCTION ADMINISTRATION SERVICES: The Architect's services during construction may be "limited" to a specific hourly maximum, or only on an "as-need" basis upon the Owner's request. As the services of the Architect are intended solely for the benefit of the Owner, the Contractor may not rely upon performance of Architect's services. When the Architect is not involved in such instances, REVISE Article 4 from Paragraph 4.2. through Paragraph 4.6 inclusive, by substituting the word "Owner", wherever the word "Architect" is used.
ADD to 4.2.10, the following:
4.2.15 The Architect's review does not constitute approval of safety provisions or procedures, and approval of any construction means, methods, techniques, sequences or procedures, unless specifically agreed to in writing and signed by the Architect, with specific reference to the submittal.
ADD to 6.1, the following:
6.1.5 The Contractor is not responsible for the control or management of the Owner 's separate contractors, and the Owner releases this Contractor from any liabilities related to Work performed by separate contractors. Separate contractors will be required to comply with all safety requirements instituted by this Contractor (as applicable) and will not be allowed to interfere with this Contractor's construction operations.
ADD to 8.3, the following:
8.3.4 The Owner may direct Contractor to work overtime, and to accelerate the Work, and if so instructed, Contractor agrees to work overtime and accelerate the Work. If such direction is not due to causes within the Contractor's control, the Owner agrees to pay for overtime and accelerated Work, but only for related overtime charges which will consist of the premium or extra hourly wage incurred by the Contractor only. No insurance, taxes, overhead or profit will be paid by Owner based on any premium wage paid. Written authorization for payment of overtime charges must be received by the Contractor from the Owner in writing prior to performing the Work.
8.3.5 Normal inclement weather and associated site conditions will not be considered as a valid cause for delay of the Work, as it is anticipated that the Contractor will estimate sufficiently for work stoppages due to reasonably anticipated inclement weather within the Construction Schedule.
8.3.6 Notwithstanding the foregoing, if Contractor is delayed in the performance or progress of the Work by Abnormal Weather Conditions (as defined herein) then the Contractor will be entitled to an extension of the completion date for the impacted portion of the Work provided the Contractor makes claim not more than seven (7) days after the cause of the delay begins. "Abnormal Weather Conditions" are hereby defined as temperature and precipitation that are abnormal for the location of the Work as determined by the National Climatic Data Center, Asheville, North Carolina, based on the previous ten (10) year mean for the Work location. Abnormal Weather Conditions and causes beyond the control of the Contractor which delay the work, including but not limited to catastrophic weather events, fire or vandalism, theft, actions or stoppages by public officials, will extend the completion date by equal periods of time as the delay impacts the critical path of the Construction Schedule, provided the Contractor makes claim not more than seven (7) days after the cause of the delay begins and provides proof of impact on the critical path Work, which is not concurrent with a Contractor-caused delay.
8.3.7 To qualify as an adverse weather day, weather conditions or related site conditions must prevent Work on critical path activities for 50 percent or more of the Contractor's scheduled work day.

ADD to 9.3.1, the following:
9.3.1.3 Unless otherwise indicated in the Owner – Contractor Agreement Form, the Owner will retain ten percent (10%) of the amount of each progress payment application until Substantial Completion is obtained."
9.3.1.4 Upon Substantial Completion, and with the concurrence of the Architect and the Contractor's surety (if any), retainage may be reduced to an amount equal to 200% of the value of the Work remaining to be completed, including defective work not yet remedied (whether covered by a warranty or not) and Work yet to be performed or completed, plus an amount sufficient to protect the Owner for liquidated damages or other charges, liens or offsets due the Owner.
ADD to 9.3, the following:
9.3.4 LIENS
9.3.4.1 If the Contractor has received payment for labor or materials and if a lien is subsequently filed by any Subcontractor claiming an interest in that labor or materials, and if same has not been released or insured over by the Owner 's title company or bonded over by the Contractor within ten (10) days following the recording or filing of such Lien, the Contractor hereby authorizes and consents to an automatic deduction from the Contract Sum ("Lien Deduct Amount") in the sum of 150% of the Lien amount. Following such automatic Lien Deduct Amount, the Contractor acknowledges and agrees that the Owner may, at the Owner 's sole option and discretion, have the right to: (a) place all or a portion of the Lien Deduct Amount in escrow with its title company and subsequently pay the Lien to the Lien claimant, including all accrued interest and penalties; or (b) immediately pay the Lien amount, including any accrued interest and penalties, to the Lien claimant.
9.3.4.2 The Contractor will have the right to contest and defend the Owner at the Contractor's sole expense, from and against any Lien which the Contractor contests in good faith. If the Contractor identifies qualified legal counsel to provide such defense and specifies the good faith reason to dispute the Lien, then the Owner agrees to hold the Lien Deduct Amount in escrow and not to exercise the Owner's right to pay the Lien pending resolution of such Lien claim and dispute. The Lien Deduct Amount is for the Owner's sole protection and is not for the benefit of the Contractor or any surety. The Owner may apply the Lien Deduct Amount in whole or in part to offset Owner's legal costs and to protect itself against the risk of paying twice for Work for which Contractor has been paid, and for improper claims asserted by Lien claimants.
9.3.4.3 The Contractor agrees and acknowledges that the Lien Deduct Amount, including any amount above the Lien amount paid, including all interest and penalties, will be retained by Owner until satisfactory resolution of such Lien without risk to the Owner or the Owner's property. If such Lien is not released, bonded or insured, and not fully and successfully defended by Contractor, the Owner may accept the full Lien Deduct Amount as liquidated damages. The parties recognize and agree that it would be extremely difficult to ascertain the extent of actual costs, expenses, time and damages associated with the recording of a mechanic's lien on the Property, and that any and all Lien Deduct Amounts above the Lien amount, including any and all interest and penalty, represents as fair an approximation of the actual cost, expense, time and damage associated with resolving any Lien issues as the parties can now determine.
ADD Paragraph 9.11:
9.11 OWNER'S DIRECT PAYMENT TO SUBCONTRACTORS AND MATERIAL SUPPLIERS
9.11.1 The Owner reserves the right to make direct payments to any subcontractor or material supplier and to deduct such amounts from the Contract Sum due to the Contractor or to make payments jointly to the Contractor and to the Subcontractor as the Owner determines necessary to protect the Project Site from any liens.
9.11.2 The Owner is not obligated herein to make any direct payments to a Subcontractor or material supplier, and such payments do not create any obligation to make further payments to any Subcontractor or material supplier.
ADD to 11.1.1, the following:
11.1.5 Liability insurance must include all major divisions of coverage and must be on a comprehensive basis with specified limits listed below maintained specifically for this project, Coverages are to include: Personal Injury Liability with Employment Exclusion deleted, Contractual, including specified provisions for Contractor's obligation under Paragraph 3.18, Owned, non-owned and hired motor vehicles, and Broad Form Property Damage coverage, Premises-Operations, Independent Contractor's Protective, Products and Completed Operations, Owner's & Designers Protective Liability, and Broad Form Property Damage coverage, Property Damage Liability coverage must provide X, C, and U coverages, with Completed Operations and Products Liability coverage maintained for three (3) years after final payment, Include a "separation of insured" endorsement to provide cross-liability coverage. The following minimum limits are applicable to each incident occurrence as well as for the total annual aggregates - which must be dedicated to this project only. Minimum coverage amounts must be as listed below, or as required by law, whichever is greater:
Prime Trade Contractor and Sub-Contractors (Each)
- Worker's Comp & General Employer's Liability: Statutory & $500,000.00

Comprehensive General Liability, Owners & Contractor's Protective Liability and Independent Contractors Protective Liability:
- Property Damage: $1,000,000.00
- Bodily Injury: $1,000,000.00

Contractual Liability:
- Property Damage: $1,000,000.00
- Bodily Injury: $1,000,000.00

Comprehensive Automobile Liability:
- Property Damage: $1,000,000.00
- Bodily Injury: $1,000,000.00

Owners and Contractors' protective liability:
- Each Occurrence & Annual Aggregate: $1,000,000.00
- Umbrella Excess Liability Insurance: $3,000,000.00

ADD to 11.1.3, the following:
11.1.3.1 All certificates of insurance required herein must name the Owner and the Architect as additional insured.
DELETE 11.3.1.2 and ADD:
11.3.1.2 Provide "All Risk" property insurance on the Work of this Contract within the Contract Sum, in accordance with requirements of Paragraph 11.3. Such insurance will include reasonable compensation for the Owner's authorized agents including the Architect and the Architect's Professional Consultants, and for the Contractor 's services and expenses required as a result of such insured loss.
MODIFY 12.2.2.1 by DELETING the second to the last sentence that begins: "During the one-year period . . ." and ADD:
The "reasonable time" allowed for Correction of Work by the Contractor will be no more than thirty (30) days after receipt of notice.
ADD to 15.1.5.1, the following:
Extensions of time for adverse weather conditions will not be considered justification for additional compensation to the Contractor for administrative or other 'office overhead' expenses.

DIVISION 01: GENERAL REQUIREMENTS
THESE SECTIONS APPLY TO ALL CONST - INCLUDING FIRE-PROTECTION AND MEP WORK - WHEN MORE SPECIFIC REQS ARE INDICATED ON DWGS OR IN SPEC SECTIONS, THOSE REQS TAKE PRECEDENCE OVER THE "GENERAL REQUIREMENTS" - SPECS ARE CONTINUED ON THE NEXT DWG SHEETS UNLESS NOTED AS "END OF ARCH SPECS".

SECTION 01 11 00 – SUMMARY OF WORK
1. GENERAL WORK DESCRIPTION: Briefly and w/o force and effect upon the contract documents (CDs), the work of the contract is summarized to include the following, as indicated in the dwgs.:
   - SELECTIVE DEMO, to include removal and legal disposal of select, exist. const elements as req'd for install of new work and is not utilized w/in the new construction.
   - SITEWORK, including site demo, site improvements such as pavement, curbs and sitework appurtenances, install or modification of site utilities; and new landscape and landscape irrigation sys, work throughout the project site.
   - NEW BUILDING CONSTRUCTION to include general const. and fin., w/ associated struct, mech, elect and plumb (MEP) sys. and final MEP sys. connections to equipment, controls, sound, security or data sys., as applicable.
   - OWNER'S SEPARATE CONTRACTS: The owner MAY award separate contracts for specific portions of the project (such as casework, furnishings, security). Cooperate fully w/ the separate contractors so work on those contracts can be carried out smoothly, w/o interfering w/ or delaying the work of this contract.
   - SPEC FORMAT: Organization or numbering of the dwgs or these specs does affect or limit the contractor in dividing the work among subcontractors or in establishing the extent of work to be performed by any trade.

SECTION 01 14 19 – USE OF SITE
1. For this project, items referring to existing conditions are relevant to existing utilities, roadways, and public right-of-way.
2. EXIST BLDG MAY BE OCCUPIED by the owner during the entire period of const. Perform the work so it will not interfere w/ the owner's occupancy, to the greatest extent feasible.
3. MAINTAIN EXIST BLDG in a safe and weather tight condition throughout const.
4. PROTECT EXIST FIN from damage and keep exist areas free from accumulation of waste materials, rubbish or const debris.
5. TAKE ALL PRECAUTIONS NECESSARY to protect the bldg and to keep the occupants safe during const.
6. MAINTAIN EXIST MEANS OF EGRESS and exits during const and repair damage to the exist bldg caused by const.
7. DO NOT ADD ANY TEMP or permanent load on the exist struct except as indicated w/in the dwgs. Carts and dollies used must have rubber tires - do not transport wet conc through exist fin spaces w/o extensive protection.
8. MAINTAIN EXIST SERVICES, including plumb/water or gas, HVAC, elect, phone/internet, elect controls and security/alarm sys (if applicable) in full and unrestricted operation to the greatest extent possible.
9. KEEP EXIST DRIVEWAYS clear and unobstructed at all times. Sched deliveries to minimize reqs for storage of materials. Limit stockpiling of materials to areas approved for use by the owner. If additional storage is necessary, obtain and pay for such storage areas off-site.

SECTION 01 25 00 – SUBSTITUTION PROCEDURES
1. THIS SECTION includes administrative and procedural reqs for substitutions of products, sys, equip or install methods and product options.
2. WHEN PRODUCTS, SYS OR EQUIP are identified in the CDs, they are identified for the purpose of establishing a standard of reqd function, availability, physical properties, dim, color, appearance, quality, in-service performance, operation and maintenance.
3. BASIS-OF-DESIGN PRODUCT SPEC: Where a specific manuf product is named and accompanied by the words "Basis Of Design" or "B.O.D", including make or model # or other designation, that product establishes the significant qualities related to type, function, dim, in-service performance, physical properties, appearance and other characteristics for the purpose of evaluating comparable products of other named manuf, through the substitutions process.
4. COMPARABLE PRODUCT: A product demonstrated and reviewed through the substitution process, shall have the indicated qualities related to type, function, dim, in-service performance, physical properties, appearance and other characteristics that eq or exceed those of a specified product.
5. NAMED PRODUCTS: Items identified by manuf product name, including make, model # or other designation shown/listed in manuf published product literature, current per date of CDs.
6. SUBSTITUTION: A change in products, materials, equip or methods of const from those reqd by the CDs as proposed by GC.
7. SUBSTITUTIONS FOR CAUSE: Changes proposed by the contractor that are reqd due to changed project conditions, such as unavailability of a product, regulatory changes or unavailability of reqd warranty terms.
8. SUBSTITUTIONS FOR CONVENIENCE: Changes proposed by GC or owner that are not reqd to meet other project reqs but that may offer advantage to either the contractor or to the owner.
9. NO SUBSTITUTIONS OF NAMED PRODUCTS: When CDs indicate a single product (incl sys or equip), manuf/supplier (by reference to a manuf or supplier 's name or product name, make or model #, as applicable), provide only the indicated product that complies w/ indicated reqs. If multiple manuf/vendors are indicated, provide products only by 1 of the listed manuf/vendors. Products of other manuf or substitutions for contractor 's convenience will not be considered. Submit substitution requests only for "Substitution for Cause" and substantiate the cause in dtl.
10. FOR "OR-EQ" or "B.O.D." PRODUCTS or for products specified by performance reqs, characteristics, and/or referenced standards, provide products of any manuf or vendor meeting those reqs and characteristics, which will perform adequately the duties imposed by the specified item, and which will not cause a delay in the const sched due to procurement of such item. Such products not meeting the intent of the CDs may be rejected by the architect.
11. SUBMIT ELECT MEDIA FORMATTED REQUESTS only from the GC for consideration by the architect. Identify product or fab or install method to be replaced. Include spec section # and title and dwg # and titles, as applicable.
12. SUBSTITUTION REQUEST FORM: Use CSI Form 13.1A or most recent.
13. DOCUMENTATION: Show compliance w/ reqs for substitutions & the following, as applicable: A STATEMENT indicating why specified material or product cannot be provided. COORD INFO including a list of changes or modifications needed to other parts of the work and to const performed by Owner and separate contractors necessary to accommodate proposed substitution. DETAILED COMPARISON of significant qualities of proposed substitution w/ those of the work specified. Significant qualities may include attributes such as performance, wt, size, durability, visual effect and specific features and reqs indicated. PRODUCT DATA, including dwgs and descriptions of products and fabrication and install procedures. SAMPLES, where applicable or requested. LIST OF SIM INSTALLS for completed projects w/ project names and addresses and names and addresses of architects and owners. MATERIAL TEST REPORTS from a qualified testing agency indicating and interpreting test results for compliance w/ reqs indicated. RESEARCH / EVALUATION REPORTS evidencing compliance w/ bldg code in effect for project, from a model code organization acceptable to AHJ.
14. DETAILED COMPARISON OF CONST SCHED using proposed substitution w/ products specified for the work, including effect on the overall contract time. If specified product or method of const cannot be provided w/in the contract time, include letter from manuf, on manuf letterhead, stating lack of availability or delays in delivery.
15. COST INFO, including a proposal for change, if any, to the contract sum.
16. GC'S CERTIFICATION proposed substitution complies w/ reqs in the CDs and is appropriate for applications indicated.
17. GC'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
18. SUBSTITUTIONS FOR CAUSE: Submit immediately upon discovery of the need for change, but not later than 15 days prior to time reqd for prep and review of related submittals.
19. SUBSTITUTIONS FOR CONVENIENCE: Submit w/in 60 days after award of contract or notice to proceed. After that period, requests will be considered or rejected at the sole discretion of the architect. In addition to the above reqs, the proposed substitution must provide a substantial advantage to the owner in cost, time, energy conservation and other considerations after deducting the added owner's costs, including but not limited to additional compensation to the architect for evaluation and redesign, increased cost of other const and sim considerations.
20. CONSIDERATION OF SUBSTITUTION REQUESTS will be made only if in the architect 's opinion, the following items are well documented and substantiated w/ the substitution request: It is consistent w/ the CDs and will produce the indicated results, w/o extensive revision to the CDs. It will not adversely affect the const sched. It has received necessary approvals of AHJ. It has been coord w/ other portions of the work and is compatible w/ other products or materials. It provides the specified warranty.
21. ARCHITECT'S ACTION: If necessary, architect may request additional info or documentation for evaluation w/in 1 week of receipt of a request for substitution. GC will be notified of acceptance or rejection of the proposed substitution w/in 15 days of receipt of request or 7 days of receipt of additional info or documentation, whichever is later. Use the original product specified if no decision on use of a proposed substitution is made w/in the time indicated.
22. FORM OF ACCEPTANCE: Change Order.

SECTION 01 26 00 – CONTRACT MODIFICATION PROCEDURES
1. PER AIA DOCUMENT G701 & A107 - 2007.

SECTION 01 26 13 – REQUESTS FOR INTERPRETATION
1. SUBMIT REQUEST FOR INTERPRETATION (RFIs) after review of the CDs and the field conditions immediately upon discovery of the need for a clarification. Include a detailed description of problem encountered, together w/ recommendations for changing the CDs.
2. SUBMIT RFIs ONLY AFTER a thorough review of ALL applicable dwgs and field-conditions and only if the GC is still not able to resolve the issue. If the info requested is apparent from field observations or is contained w/in the dwgs - or is reasonably inferable from either, the GC will be responsible to the owner for the costs expended by the owner for the hourly services of the architect to respond.
3. RESPONSE TO RFIs IS NOT an authorization to proceed w/ added or extra work.

SECTION 01 29 00 – PAYMENT PROCEDURES
1. PER AIA DOCUMENT G701 & A107 - 2007.

SECTION 01 31 00 – PROJECT MANAGEMENT AND COORDINATION
1. UPON AWARD of the project, and before requesting any progress payment, submit the following to the owner: sched of values, const sched, listing of subcontractors and principal suppliers or fabricators, performance and payment bonds (if reqd), copies of bldg permits for performance of the work (before start of on-site work).
2. SCHED OF VALUES: Upon award of the project, prep and submit to the owner a breakdown of the contract sum, to facilitate future evaluation of progress and periodic payment requests. Break down the total cost of the work into line-items to the approval of the owner. Round-off line-item amounts to the nearest whole dollar, but w/ the total eq to the contract sum.

SECTION 01 33 00 – SUBMITTAL PROCEDURES
1. PROVIDE SUBMITTALS of product data, shop dwgs and samples as outlined below, submittals not reqd will be returned w/o review.
2. CONTENT: Include the date of submission; the project title; the GC's name, the name of the sub-contractor, supplier or manuf, as applicable; identification of the product being submitted; indication of field dims as verified by the GC; relationships to adjacent or critical features of the work; applicable standards; identification of approved deviations from the CDs; and a clear space for the GC's "APPROVAL" and the architect's "REVIEW" stamps.
3. STAMP & APPROVE submittals (before forwarding them for review) w/ the GC's "APPROVAL" stamp, dated and executed, certifying to approval of the submittal, verification of the product being submitted and verification that the product submitted complies w/ the reqs of the CDs. Failure to properly verify conformance and conditions at the site does not relieve the GC of the responsibility to properly install the work. Submittals may be returned and marked as "REVIEWED", "REVIEWED WITH COMMENTS", "REVISE & RESUBMIT ENTIRE SUBMITTAL", "REVISE & RESUBMIT INDICATED ITEMS ONLY" or "REJECTED." If errors or omissions in submittals are discovered after the review, revise and resubmit the revised submittals as expeditiously as necessary to not delay the work progress.
4. ELECTRONIC SUBMITTALS: In order to conserve paper, limit delivery/courier expenses & to expedite the review process, submit electronic product-data and shop dwgs. Print & distribute as many copies as necessary for records, coord & const operations. Maintain 1 set of printed, approved product-data submittals at the project site, complete w/ applicable review comments.
5. PROCESSING TIME: Allow time for submittal review and time for re-submittals, w/in the const sched. Allow additional time if processing must be delayed to permit coord w/ subsequent submittals – until that info is submitted. If submittals are incomplete, the processing time will start when the additional info is received. No extension of the contract time will be authorized because of failure to transmit submittals in advance of the work to permit processing.
6. Allow 10 business days for initial submittal review and for processing ea resubmittal.
7. OWNER'S REVIEW of submittals and/or the architect is limited to compliance w/ the design intent only and does not relieve the GC from responsibility for errors which may exist in the submitted data.
8. SUBMITTAL REVIEW is a gratuitous assistance to the GC to review intended conformance w/ the design intent of the CDs. Review of submittals does not relieve the contractor from responsibility for errors which may exist in the submitted data.
9. REFERENCE dwgs and individual spec sections for additional info and reqs. The below list might not be exhaustive. Additional info may be requested and reqd to complete a thorough review of the design intent and reqs of the specs. Additional info requests shall not cause delays in the project sched. Re consultant dwgs for additional spec reqs & coord.
10. WARRANTIES: Provide sample warranties indicating reqs noted in ea spec section.
11. **(PD)** PRODUCT DATA:
    - Include manuf data shts & specs showing compliance w/ the reqs of these specs & dwgs for ea type of material, product, component and accessory indicated including fin materials. Include manuf prep & install instructions and general recommendations. Note storage & handling reqs. Indicate composition, thicknesses, gages, profiles, trims and dims. Include applicable referenced standards, ASTMs, test / evaluation reports, certificates of compliance, anchors, physical characteristics / properties, durability, resistance to fading, flame-resistance characteristics, fire-resistance ratings, hardware & hardware reinf, prep, fire-ratings, sound-ratings and label compliance.
    - If any components include fire-retardant treatment provide data indicating physical properties of treated materials by a qualified independent testing agency. Include data for wd-preservative treatment from chemical treatment manuf and certification by treating plant that treated materials comply w/ reqs. Indicate type of preservative used and net amount of preservative retained. Include physical properties both before and after exposure to elevated temps, based on testing by a qualified independent testing agency. Treated lumber: ASTM D 5664, Plywd: ASTM D 5516. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to project site.
12. **(SD)** SHOP DWGS: Provide shop dwgs when product data is not sufficient to indicate reqs of the work and / or does not provide items listed below:
    - Shop dwgs shall include layouts, spacings, dims, fastening, anchorage & assembly methods of components for project specific location. Include dim plans, els, sections, dtls, rough-in diagrams, recommended layouts, locations and dtls of ejs and cjs (when applicable).
    - Indicate spacings, blocking, bonding, furring, hanging strips, reinf channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, corners, closures, terminations and edge conditions.
    - Indicate materials, fin, fire-ratings, component profiles, jt dtls, accessory listings, fastening patterns, reqd clearances, wis, weatherproofing and flashings.
    - Note how new work adjoins related and adjacent const (whether new or exist to remain). Clearly indicate any special reqs for fab & install. Distinguish between factory- and field-assembled work.
    - Provide setting dwgs where cutouts are reqd in other work, including templates, substrate prep instructions and directions for preparing cutouts and installing anchorage devices.
    - PROVIDE SCHED of all units being provided using same room designations as indicated on dwgs including opening sizes. Indicate unit types, sizes, locations & quantities. Key to scaled els & typ mounting dtls. Identify manuf, materials, fin, species of wds, glazing types, hardware, anchoring, etc. Provide sched for the following: drs, frames, int alum storefront drs & frames, alum-framed entrances and storefronts, dr hardware, wdw treatments.
13. **(SM)** SAMPLES:
    - Where noted below submit 3 samples of ea type of material and product indicated for return of 1 sample to the GC. Samples shall indicate color(s), texture(s), pattern(s) as requested by the architect. Costs for submittal and return of samples must be paid by the GC. Acceptance of REVIEWED samples does not imply acceptance of the fin in-place product. Color, texture and patterns must conform to the samples submitted and if the range varies, the work will be REJECTED. Where physical samples absolutely do not exist and all efforts to procure such samples have been totally exhausted submit manuf color charts showing full range of colors, textures and patterns available for ea type of fin or material, for selection by architect. Samples of coating type materials shall be 12" x 12" in size. Electronically submitted samples and color charts will be REJECTED.
14. **(MU)** MOCK-UP:
    - Provide mock-ups per section 01 43 39. Typ mock-ups of fin shall be no less than a 10'x10' area, UNO. Starting and stopping points of all fin shall be determined by and coord w/ architect prior to final install. Elemental mock-ups shall typ be full size representation, unless alternative method is accepted by architect in writing.
15. **(PE)** PROFESSIONAL ENGINEER:
    - For work to comply w/ design & loads, include structural analysis data prepared by and wet-sealed & signed by a PE registered in the state where the project is located. Sys design and calculations must be acceptable to local AHJ reps. GC is responsible for submitting to AHJ. Items tagged below may not be all inclusive of AHJ reqs.
16. **(AHJ)** AUTHORITY HAVING JURISDICTION:
    - If reqd submit tech data shts, dwgs and samples as reqd by the local AHJ. GC is responsible for submitting these to AHJ. Items tagged below may not be all inclusive of what AHJ reqs.

REQ SUBMITTALS (abbreviations in **BOLD** correspond to submittal type described above. Additional reqs are noted next to spec section):
- **Cast-In-Place Concrete: PD, SD, MU, AHJ**
  1. Submit design mixes for ea conc mix req. Include alternate mix designs when characteristics of materials, project conditions, weather, test results or other circumstances warrant adjustments.
  2. Submit reinf shop dwgs for fabrication, bending and placement of reinf. Comply w/ ACI 315 showing bar sched, stirrup spacing, diagrams of bent bars, arrangement of conc reinf. Include special reinf reqd and openings through conc structures.
- **Sealed Concrete: PD**
- **Metal Fabrications: SD, SM**
- **Decorative Metalwork: SD, SM, MU**
- **Decorative Metal Railings: PD, SD, SM, PE, MU**
- **Rough Carpentry: PD**
- **Wood Framing: PD**
  1. Submit material certificates for dim lumber specified to comply w/ min allowable unit stresses. Indicate species and grade selected for ea use and design values approved by the ALSC Board of Review.
  2. Submit evaluation reports for the following ICC-ES: Wd-preservative-treated wd, Fire-retardant-treated wd. Engineered wd products. Shear pnls. Power-driven fasteners. Powder-actuated fasteners.
- **Sheathing: PD**
- **ZIP System Sheathing: PD**
- **Architectural Woodwork: SD, SM, MU**
- **Architectural Wood Casework: PD, SD, SM**
- **Stone and Quartz Fabrications: PD, SD, SM**
- **Dampproofing: PD**
- **Waterproofing: PD**
- **Thermal Insulation: PD**
- **Foamed-In-Place Insulation: PD, AHJ** - Include the tech data sht from the manuf showing the test results from the ASTM E84.
- **Sheet-Type Weather Resistive Barrier (WRB): PD, MU** - Provide site reports from authorized rep, indicating observation of WRB assembly install.
- **Fluid-Applied Weather Resistant Barrier (WRB): PD, MU** - Provide site reports from authorized rep, indicating observation of WRB assembly install.
- **Vapor Retarders for Crawl Spaces: PD**
- **Shingles: PD, SD, SM**
- **Metal Wall Panels: PD, SD, SM, MU** - Samples in finish texture and color specified
- **Wood Siding: PD, SD, SM, MU** - Samples in finish specified, Mock-up in size and profile specified
- **Fiber-Cement Siding: PD, SD, SM** - Samples in each unique combination of finish texture and color specified
- **Membrane Roofing System: PD, SD, SM**
- **Sheet Metal Roofing: PD, SD, SM, MU**
- **Sheet Metal Flashing and Trim: PD, SD, SM, MU**
- **Flexible Flashing: PD**
- **Manufactured Gutters & Downspouts: PD, SD**
- **Snow Guards: PD, SD**
- **Firestopping: PD, SD, AHJ** - Include firestop design designation of testing and inspecting agency acceptable to AHJ that shows compliance w/ reqs for ea condition indicated.
- **Joint Sealants: PD, SM**
- **Metal Doors and Frames: PD, SD**
- **Wood Doors: PD, SD, SM**
- **Access Doors and Panels: PD** - Provide shop drawings if PD does not demonstrate actual door size, finish, and installation required for project.
- **Sectional Doors: PD, SD**
- **Vinyl Windows and Doors: PD, SD, SM**
- **Door Hardware: PD, SD**
- **Glazing: PD, SM**
- **Louvers and Vents: PD**
- **Moisture Vapor Emission Control: PD**
- **Gypsum Board Assemblies: PD**
- **Tiling: PD, SD, SM, MU**
- **Wood Flooring: PD, SM, MU**
- **Resilient Floor and Base: PD, SM, MU**
- **Carpeting: PD, SM, MU**
- **Painting: PD, SM, MU** - Provide certification by the manuf that products supplied comply w/ local regulation reqs controlling use of VOCs.
- **Exterior Staining and Finishing: PD, SM, MU**
- **Residential Accessories: PD, SD, SM**
- **Shower Enclosures and Doors: PD, SD, SM**
- **Fire Protection Specialties: PD, SD**
- **Residential Appliances: PD**
- **Countertops: PD, SD, SM**
- **Plumbing: PD, SD**
- **Heating, Ventilating and Air Conditioning (HVAC): PD, SD**
- **Electrical: PD, SD**
- **Shoring & Underpinning: PE, AHJ** - Submit to AHJ excavation support sys layout dwgs and other data as reqd.
- **Stormwater Management: PD** - Submit certification at completion, signed by GC and fcn drainage sys installer that installed materials conform tospecified reqs and the sys was successfully checked and tested prior to covering w/ filtering and drainage fill.

SECTION 01 35 16 – ALTERATION PROJECT PROCEDURES
1. For this project, this section is relevant to conditions at existing utilities, roadways, and public right-of-way.
2. PERFORM DISRUPTIVE, NOISE OR DUST PRODUCING WORK in occupied facilities only w/ the owner's advance approval of the sched for performance.
3. JOB CONDITIONS: Visit project site to determine by inspection, the exist conditions, including site access, the nature & composition of const elements, materials and equip & other salient characteristics affecting the work indicated. Info regarding exist conditions indicated on the dwgs does not imply other conditions will not be discovered or encountered in performance of the work. Perform necessary alterations of exposed, obvious exist conditions, installs and obstructions affecting the work whether completely indicated or described in the dwgs.
4. PERFORM THE WORK so disruption to occupied areas is minimized and to maintain the owner's ongoing use to the greatest extent feasible.
5. CAREFULLY REMOVE & REPLACE EXIST CONST indicated to remain upon completion, but which req removal to complete the work. Match condition of const prior to the start of the work unless otherwise reqd. Carefully remove and store items indicated for relocations in new work or to be retained by owner, to avoid damage. Thoroughly clean and reinstall as indicated or as directed. Protect and store items identified for reuse. Deliver salvaged items to a facility as directed by the owner w/in 10 miles of the project site.
6. MAINTAIN EXIST UTILITIES indicated to remain and protect against potential damage during alteration operations. Do not interrupt existing utilities serving occupied facilities, except when authorized by the owner. When necessary, provide temp services during interruptions of exist utilities, acceptable to the owner and AHJ.
7. CUT, MOVE OR REMOVE ITEMS as necessary for access to alteration & renovation work. Replace & restore at completion. Remove unsuitable material not marked for salvage, such as rotted wd, corroded mtls and deteriorated masonry & conc. Replace materials as specified for fin work. Remove debris & abandoned items from area and from concealed spaces. Prep surface & remove surface fin to provide for proper install of new work and fin. Close openings in ext surfaces to protect exist work and salvageable items from weather and extremes of temp and humidity. Insulate ductwork and piping to prevent condensation in exposed areas.
8. COORD ALTERATION & RENOVATION WORK to expedite completion and in reqd sequences of work to accommodate owner occupancy, as applicable. Remove, cut and patch work in a manner to minimize damage and to provide restoring products and fin to original and or specified condition. Refinish visible exist surfaces to remain in renovated rooms and spaces, to specified condition for ea material, w/ neat transition to adjacent fin. Restore exist operational MEP sys to full operational condition, when exists. Recover and refinish mech and elect work that is exposed accidentally during the work. Install products and fin materials as indicated w/in individual spec sections.
9. TRANSITIONS: Where new work abuts or aligns w/ exist const, perform a smooth and even transition. Patch work to match exist adjacent work in texture and appearance. When fin surfaces are cut so a smooth transition w/ new work is not possible, terminate the exist surface along a straight line at a natural line of division.
10. ADJUSTMENTS: Where removal of partitions or walls result in adjacent spaces becoming one, rework flrs, walls and clg surfaces to a smooth plane w/o breaks, steps or bulkheads. Provide smooth transitions when a change of plane of 1/4" in 12" occurs. Trim exist drs as necessary to clear new flr fin. Refinish trim as reqd. Fit work at penetrations of surfaces to be flush and non-obtrusive.
11. PATCH OR REPLACE EXIST SURFACES that are damaged, discolored or show imperfections. Repair substrate prior to patching fin.
12. FIN SURFACES as indicated for new work. Fin patches to produce uniform fin and texture over entire area. When fin cannot be matched, refinish entire surface to nearest intersection or change of plane.

SECTION 01 35 61 – VOLUNTARY SUSTAINABLE GOALS
1. COMPLY W/ REQS of this section regarding sustainable design and const reqs and provide submittal docs and reports to verify conformance w/ the owner 's voluntary sustainability goals.
2. IECC 2024 "ERI" reports are compliant by being designed for HERS 52 or better as all-electric properties.
3. All units comply with ES single-family v3.2 as reflected on the unit-specific energy checklists.
4. Contractor to reference Energy Compliance Reports provided in the drawings for full energy requirements per unit type.
5. Contractor responsible for scheduling all inspections with Energy Logic of the AHJ. Contractor to provide a Manual JDS report for each master unit type along with an Energy Star HVAC Design Report completed by the designer for the Energy Star field inspections at the time of the duct testing and insulation inspections.
6. MAX VOC CONTENT REQS: For all field-applied applications inside the bldg envelope, provide products that do not exceed the following values, in accordance w/ Federal Standard 40 CFR 59, Subpart D: Wd Glues: 30 g/L. Mtl to Mtl Adhesives: 30 g/L. Adhesives for Porous Materials (Except Wd): 50 g/L. Subfloor Adhesives: 50 g/L. Plastic Foam Adhesives: 50 g/L. Carpet Adhesives: 50 g/L. Carpet Pad Adhesives: 50 g/L. VCT and Asphalt Tile Adhesives: 50 g/L. Cove Base Adhesives: 50 g/L. Gyp Bd and Pnl Adhesives: 50 g/L. Rubber Flr Adhesives: 60 g/L. Ceramic Tile Adhesives: 65 g/L. Multipurpose Const Adhesives: 70 g/L. Fiberglass Adhesives: 80 g/L. Contact Adhesive: 80 g/L. Struct Glazing Adhesives: 100 g/L. Wd Flr Adhesive:100 g/L. Struct Wd Member Adhesive: 140 g/L. Top and Trim Adhesive: 250 g/L. Plastic Cement Welding Compounds: 250 g/L. ABS Welding Compounds: 325 g/L. CPVC Welding Compounds: 490 g/L. PVC Welding Compounds: 510 g/L. Adhesive Primer for Plastic: 550 g/L. Other Adhesives: 250 g/L. Arch Sealants: 250 g/L. Nonmembrane Roof Sealants: 300 g/L. Single-Ply Roof Membrane Sealants: 450 g/L. Other Sealants: 420 g/L. Sealant Primers for Nonporous Substrates: 250 g/L. Sealant Primers for Porous Substrates: 775 g/L. Modified Bituminous Sealant Primers: 500 g/L. Other Sealant Primers: 750 g/L. Flat Pts, Coatings and Primers: 50 g/L. Non-flat Pts, Coatings and Primers: 150 g/L. Clear Wd Fin, Varnishes: 350 g/L. Clear Wd Fin, Lacquers: 550 g/L. Flr Coatings: 100 g/L. Shellacs, Clear: 730 g/L. Shellacs, Pigmented: 550 g/L. Stains: 250 g/L. Flat Int Topcoat Pts: 50 g/L. Non-flat Int Topcoat Pts: 150 g/L. Clear Wd Fin, Lacquers: 550 g/L. Flr Coatings: 100 g/L. Shellacs, Clear: 730 g/L. Shellacs, Pigmented: 550 g/L. Primers, Sealers and Undercoats: 200 g/L. Dry-Fog Coatings: 400 g/L. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
7. Special Purpose Contact Adhesive (used to bond melamine covered bd, mtl, unsupported vinyl, Teflon, ultra-high molecular wt polyethylene, rubber or wd veneer 1/16" or less in thickness to any surface): 250 g/L.
   - Aerosol Adhesive, General Purpose Mist Spray: 65% by weight.
   - Aerosol Adhesive, General Purpose Web Spray: 55% by weight.
   - Special Purpose Aerosol Adhesive (All Types): 70% by weight.
   - Anticorrosive and Antirust Pts Applied to Ferrous Mtls: 250 g/L.
   - Anticorrosive and Antirust Pts Applied to Ferrous Mtls: 250 g/L.
   - Clear Wd Fin, Varnishes and Sanding Sealers: 350 g/L.
   - Pretreatment Wash Primers: 420 g/L.
8. AROMATIC COMPOUNDS: Pts and coatings must not contain more than 1.0% by wt total aromatic compounds (hydrocarbon compounds containing 1 or more benzene rings).
9. RESTRICTED COMPONENTS: Do not use any materials in the project containing the following: Acrolein, Acrylonitrile, Antimony, Benzene, Butyl benzyl phthalate, Cadmium, Di (2-ethylhexyl) phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, 1,2-dichlorobenzene, Diethyl phthalate, Dimethyl phthalate, Ethylbenzene, Formaldehyde, Hexavalent chromium, Isophorone, Lead, Mercury, Methyl ethyl ketone, Methyl isobutyl ketone, Methylene chloride, Naphthalene, Toluene (methylbenzene), 1,1,1-trichloroethane, Vinyl chloride.
10. DO NOT USE COMPOSITE WD or agrifiber products or adhesives that contain any urea-formaldehyde resin.

EXECUTION:
1. CONST INDOOR-AIR-QUALITY MGMT: Comply w/ "SMACNA IAQ Guideline for Occupied Buildings under Construction."
2. If the Owner authorizes use of permanent HVAC sys during const period, provide filter media having a MERV 8 rating per ASHRAE 52.2 at ea return-air inlet for the air-handling sys used during const. Replace all air filters immediately prior to occupancy.

SECTION 01 43 39 – MOCK-UPS
1. THIS SECTION INCLUDES administrative and procedural reqs of the contractor, for temp const and demo of mockups at the Project Site. Provide mock-ups as indicated in 01 33 00.
2. MOCK-UPS are full-size physical assemblies const on-site, to verify color and fin selections made, to demonstrate the full range of aesthetic effects and workmanship and: to indicate qualities of material fin and application or execution; to review coord, testing or operation; to show interface between dissimilar materials; and to demonstrate compliance w/ specified install tolerances. Mock-ups are not samples. UNO indicated, approved mock-ups establish the standard by which the work will be judged.
3. CONST MOCK-UPS using the same workers to be used during the const of the work and w/ the same supervisory personnel.
4. CONST MATERIAL MOCK-UPS when reqd by other "technical" sections at locations on-site approved by the architect.
5. TIME: Const mock-ups as soon as contract is awarded, once contractor is available at the project site and mock-up design is determined by Architect. Note no "partial" approval of mock-up will be provided – the mock-up must be complete w/ all indicated fin, materials and colors as indicated before approval will be granted.
6. NOTIFY ARCHITECT no less than 7 days in advance of dates and times when mock-up will be const and ready for review.
7. OBTAIN ARCHITECT'S APPROVAL OF MOCK-UPS before starting any work, fabrication or const of fin included w/in the mock-up.
8. MAINTAIN MOCK-UPS DURING CONST in an undisturbed condition as a standard for judging the completed work.
9. APPROVAL OF MOCK-UP DOES NOT CONSTITUTE approval of deviations from the CDs unless such deviations are specifically approved by architect in writing.
10. DEMO AND REMOVE MOCK-UP before substantial completion, except as otherwise permitted to remain as a part of the work.

SECTION 01 45 00 – QUALITY CONTROL
1. COORD w/ the owner's independent testing and inspection lab to verify compliance of the work w/ the CDs, Specific tests are reqd in other applicable sections of these specs.
2. COORD w/ the owner's "special inspector" in accordance w/ reqs of AHJ reps, The "special inspector" will be responsible for submitting quality control test reports prepared by the testing lab reqd above, to the AHJ, when necessary.
3. SHOP CERTIFICATION: Special inspections are not reqd when the work is done on the premises of a fabricator registered and approved to perform such work w/o special inspections, in accordance w/ reqs of the bldg code.
4. THE GC IS NOT RELIEVED of responsibility for compliance w/ all specified reqs of the CDs by providing these services.
5. RE-TEST RESPONSIBILITY: The owner's cost for re-tests and repeat-inspections for items not meeting the reqs of the CDs will be deducted from the contract sum, Re-testing and re-inspection must cont until satisfactory results are obtained, at no additional cost to the owner.
6. SCHED & COORD timing of tests reqd, to comply w/ the progress of the work. When changes of const sched are necessary, notify testing lab in advance of operations for reassignment of reqd personnel, Facilitate inspections and tests, cooperate w/ lab personnel and provide adequate quantities of representative samples of materials to be tested. Provide such auxiliary services as are reasonably requested, including, but not limited to taking samples or assistance w/ taking samples, delivery of samples to testing labs and security and protection of samples and test equip at the project site.
7. UPON COMPLETION of inspection, testing, sample-taking & sim services, repair damaged work & restore substrates & fins to eliminate deficiencies, including deficiencies in the visual qualities of exposed fins, Comply w/ other sections of these specs forcutting and patching. Protect work exposed by or for quality control service activities & protect repaired work.
8. REMOVE & REPLACE non-complying materials & re-test until satisfactory tests are accomplished.

SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS
1. PROVIDE TEMP CONST FACILITIES and controls and remove upon completion of the work. Locate field offices, storage sheds, sanitary facilities and other temp const and support facilities where approved by the owner.
2. INCLUDE ALL COSTS for temp utilities, temp facilities and temp controls w/in the contract sum. Pay all costs of install, maintenance, fuel, operation and removal.
3. OPERATE temp services and facilities in a safe & efficient manner. Do not overload temp services/facilities and do not permit them to interfere w/ the progress of the work. Do not allow unsanitary conditions, public nuisances/hazardous conditions to develop or persist on the site.
4. TEMP ELECT POWER: Provide weatherproof, grounded elect power service and distribution sys w/ overload protection of sufficient size, capacity and power characteristics to accommodate const operations req power, use of power tools, elect heating, lighting and start-up testing of permanent elect-powered equip prior to its permanent connection to elect sys. Include meters, transformers, overload protected disconnects, auto ground-fault interrupters and main distribution switch gear.
5. TEMP LIGHTING: Whenever overhead flr or roof work is installed, provide temp lighting w/ local switching, w/o operating the entire sys and to provide adequate illumination for const operations and traffic conditions.
6. POTABLE WATER: Provide portable containers of potable water for const operations, except when specifically authorized to utilize the owner 's exist sys.
7. SANITARY FACILITIES: Provide on-site toilet facilities, hand wash facilities and drinking water fixtures for the use of workmen on the job site. Provide toilet tissue, paper towels, paper cups and sim disposable materials, w/ a covered waste container.
8. PROVIDE TEMP HEAT & VENTILATION to facilitate progress of the work, to meet specified min conditions for the install and proper curing of materials, to protect materials and fins from damage due to temp or humidity and to prevent hazardous accumulations of dust, fumes, vapors or gases.
9. TEMP SITE SECURITY FENCE: Before const operations begin, install a site enclosure fence around the entire project area (or portion sufficient to accommodate const operations) at locations approved by the owner, to prevent people and animals from easily entering (except at gates) and to prevent unauthorized entrance, vandalism, theft and sim violations. At partially completed work, provide lockable entrances and lock entrances at end of ea work day. Do not remove temp site security fencing until bldg is permanently secured, to satisfaction of the owner.
10. PROGRESS CLEANING: At all times, keep the project site free from accumulation of waste materials or rubbish caused by const operations. Provide suitable waste receptacles for trash and const debris, and arrange for transportation and legal disposal of materials off site. Clean the site daily, as applicable.
11. ENGAGE THE LOCAL UTILITY COMPANIES to install temp services, when necessary. Arrange w/ the company and exist users, when applicable, for a time when service can be interrupted to make connections for new services.
12. ENVIRONMENTAL PROTECTION: Provide protection and operate temp facilities in ways and by methods that comply w/ environmental regulations and that will minimize the possibility that air, waterways and subsoil could be contaminated or polluted, Avoid use of tools and equip which produce loud noise – restrict their use to hrs that will minimize complaints from persons near the site.
13. PROVIDE TEMP EROSION & SEDIMENTATION CONTROL measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties, according to reqs of local AHJ. Inspect, repair and maintain control measures during const until permanent vegetation is established. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
14. DEWATERING: Provide & operate drainage and pumping equip, const drainage ditches as reqd & maintain excavations and the entire site free of standing water at all times.

SECTION 01 60 00 – PRODUCT REQUIREMENTS
1. NO SUBSTITUTIONS are allowed when products or equip items are indicated by a single, named manuf, unless indicated as "or eq" or when reviewed in advance by the architect or owner.

kemstudio.com
KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@engms.com
601.362.3552
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401
100% CONSTRUCTION DOCUMENTS
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2. SUPPLY PRODUCTS COMPLETE w/ all standard devices, trim fin and all accessories indicated in the latest edition of the manuf catalog or brochure published at the date of the award of the contract. Furnish such items complete w/ component parts necessary for the obvious and intended use and install, whether or not descriptions or catalog # contain all supplemental info and/or # of such components.
3. NAMEPLATES & LABELS: Provide permanent nameplates on ea item of service connected or power operated equip. Indicate manuf, product name, model #, serial #, capacity, speed, rating & sim essential operating data. Locate nameplates on Accessible surface. Locate reqd labels & stamps on Accessible surface which, in occupied spaces, is not conspicuous.
4. MANUF INSTRUCTIONS: Whenever products are reqd to be installed and/or perform in accordance w/ a specified manuf instruction or procedure, procure, distribute and maintain at the site copies of info. No allowance or consideration will be made for claimed ignorance as to what a cited standard contains, as ea tradesman is considered to be experienced and familiar w/ the published standards of quality and workmanship for his own trade.
5. STORE PRODUCTS in accordance w/ manuf instructions, maintaining sensitive materials w/in temps & humidity ranges reqd by manuf. For ext storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration w/ impervious sht covering; w/ ventilation to avoid condensation. Provide storage access for inspection.

SECTION 01 71 23 – FIELD ENGINEERING

1. NEW BLDG LAYOUT: Engage a registered/licensed land surveyor to perform the initial new bldg layout and to set new benchmarks and other control points at the site.
2. IDENTIFY exist benchmarks, control points & property line corner stakes. Verify layout info indicated on the dwgs, in relation to property survey & exist benchmarks, before proceeding to lay out the work. Protect & preserve exist benchmarks & control points during const.
3. BENCHMARKS: Establish and maintain a min of 2 permanent benchmarks on the site, referenced to data established by survey control points. Promptly replace lost or destroyed benchmarks. Base replacements on the original survey control points. Record benchmark locations, w/ horiz and vert data on project record documents.
4. EXIST UTILITIES & EQUIP: The existence and location of underground and other utilities and const indicated as exist are not guaranteed. Before beginning any work at the site, investigate and verify the existence and location of underground utilities and other const. Prior to const, verify the location and invert el at points of connection of sanitary sewer, storm sewer and water-service piping.
5. Furnish info necessary to adjust, move or relocate exist structures, utility poles, lines, services or other appurtenances located in or affected by const. Coord w/ AHJ.
6. ADVISE ENTITIES ENGAGED IN WORK activities of marked lines & levels provided for their use. As const proceeds, check every major element for line, level & plumb.
7. WORK FROM lines & levels established from the property survey. Establish benchmarks & markers to set lines & levels at ea story of const & elsewhere as needed to locate ea element of the project. Calculate & measure reqd dims w/in indicated or recognized tolerances.
8. BLDG LINES & LEVELS: Locate and lay out batter bds for structures, fdns, col grids 'flr levels and control lines and levels.
9. TAKE FIELD MEASUREMENTS as reqd to fit the work properly. Recheck measurements before installing ea product. Where portions of the work are indicated to fit to other const, verify dims of other const by field measurements before fabrication. Coord fabrication schedule w/ const progress to avoid delaying the work.
10. MARK CASEWORK & FIXTURE locations w/ clg light fixtures temp marked on the flr before const of any partitions. Coord w/ casework or fixture shop dwgs for size of units and alignment to fit the space as indicated.
11. MAINTAIN A RECORD or "Surveyor's Log" of control and other survey work. Record deviations from reqd lines and levels and notify if deviations exceed indicated or recognized tolerances are detected. On project record dwgs, record deviations that are accepted and not corrected.
12. ON COMPLETION of fdon walls, site improvements and other work req field-engineering services, record actual dims, locations, angles and elevations of sitework elements, noting all deviations from the design.
13. SITE IMPROVEMENTS: Verify & document actual locations of site improvements, incl pavements, stakes for grading, fill and topsoil placement, utility slopes and invert els.

SECTION 01 73 00 – EXECUTION

1. INSTALLERS INSPECTION OF SUBSTRATE CONDITIONS: Before install, inspect substrate material and the conditions under which the work will be performed.
2. DO NOT PROCEED W/ INSTALL until unsatisfactory conditions have been corrected.
3. Application of a material or equip item to work installed by others constitutes acceptance of that work and assumption of responsibility for satisfactory install.
4. Inspect ea item of material/equip immediately prior to install. Reject damaged & defective items.
5. PERFORM INSTALL WORK by persons qualified to produce workmanship of specified quality, in accordance w/ manuf printed install recommendations and reqs. Install work during conditions of temp, humidity, exposure, forecasted weather and status of the project completion which will ensure the best possible results for ea unit of work.
6. PROVIDE ATTACHMENT & CONNECTION DEVICES and methods for securing the work properly as it is installed, true to line & level and aligned w/ adj elements as appropriate. Isolate ea unit of work from non-compatible work, as reqd to prevent deterioration.
7. MAKE ALLOWANCE FOR EXP, contraction and bldg movements.
8. COORD CLOSING-IN of work w/ reqd inspections and tests, so as to minimize the necessity of uncovering completed work.
9. BRACE PARTITIONS, suspend clgs or soffits and brace platforms, suspended items or sim const only to struct elements – even if not specifically noted. Do not brace elements to the roof deck, plumb/sprinkler pipes, ductwork, elect conduit or sim elements.
10. AT PROJECTIONS OF FIN SURFACES, incl pilasters or thickened walls, return all exposed surface fin back to the primary surface even if not specifically noted.
11. ALIGN SURFACES of new fin w/ exist fin and match exist fin-surface conditions, UNO. Patch exist surfaces and refinish to match adjacent exist surfaces, as applicable.
12. VISUAL EFFECT Provide uniform jt widths in exposed work, organized for the best possible visual effect. Recheck measurements and dims of the work, as an integral step of starting ea install. Re questionable visual-effect choices to owner for final decision of acceptability.
13. MOUNTING HTS: Mount units at industry-recognized standard hts for applications indicated. Re questionable mounting ht choices to architect for final decision.
14. ADJUST OPERATIONAL UNITS to function smoothly, easily, safely and free from binding or malfunctions throughout its entire operational range.
15. CLEAN PRODUCTS after install, according to manuf instructions.
16. CLEAN SPILLAGE & SOILING caused by install from adjacent const using cleaning agents and procedures recommended by manuf of affected const.
17. PROVIDE TEMP PROTECTION and coverings to protect installed products from damage from traffic & const operations after install – and remove when no longer reqd. Provide protection and maintain conditions to ensure products are w/o damage or deterioration at time of substantial completion.
18. REPAIR & REPLACE DAMAGED ITEMS at no additional cost to the owner. Additional time reqd to secure replacements and to make repairs will not be considered as justification for an extension of time to complete the work.

SECTION 01 73 29 – CUTTING AND PATCHING

1. PER AIA DOCUMENT G701 & A107 - 2007.

SECTION 01 74 19 – CONSTRUCTION WASTE MANGEMENT AND DISPOSAL

1. SUMMARY OF WORK: As a part of voluntary sustainability reqs for const operations, this section includes administrative and procedural reqs for salvaging, recycling and disposing of non-hazardous const waste and debris.
2. DEVELOP A WASTE MGMT PLAN that will salvage and recycle as much non-hazardous const waste as possible, including but not limited to the following: CONST WASTE: Site-clearing waste, masonry, CMU, lumber, wd sht materials, wd trim, mtls, rfg, insul, gyp bd, piping and elect conduit. PACKAGING: salvage or recycle 100% of the following uncontaminated packaging materials: paper, cardboard, boxes, plastic sht and film, polystyrene packaging, wd crates and plastic pails.
3. SUBMIT WASTE MGMT PLAN w/in 15 days of date for commencement of the work.
4. REGULATORY REQS: Comply w/ hauling and disposal regulations of AHJ.
5. WASTE MGMT CONFERENCE: Manage and administrate periodic conferences at the project site for review of methods and procedures related to waste mgmt.

THE WASTE MGMT PLAN must include the following:

1. WASTE IDENTIFICATION: anticipated types and quantities of site-clearing and const waste generated by the work, including estimated quantities and assumptions for estimates.
2. WASTE REDUCTION WORK PLAN: A listing of ea type of waste and whether it will be salvaged, recycled or disposed of in landfill or incinerator, including points of waste generation, total quantity of ea type of waste, quantity for ea means of recovery and handling and transportation procedures.
   - Salvaged Materials for Reuse: materials to be salvaged and reused in this project, including methods for prep salvaged materials before incorporation into the work.
   - Salvaged Materials for Sale: materials to be sold to individuals and organizations, including a listing of their names, addresses and telephone #s.
   - Salvaged Materials for Donation: materials to be donated to individuals and organizations, include a listing of their names, addresses and telephone #.
   - Recycled Materials: A listing of local receivers and processors and type of recycled materials ea will accept, including names, addresses and telephone #.

- Disposed Materials: Indicating how and where materials will be disposed of, including name, address and telephone # of ea landfill and incinerator facility.
- Handling and Transportation Procedures: Indicating methods to be used for separating recyclable waste including sizes of containers, container labeling and designated location on project site where materials separation will be located.

PLAN IMPLEMENTATION:

1. IMPLEMENT WASTE MGMT PLAN, providing handling, containers, storage, signage, transportation and other items reqd during the entire duration of the contract. Comply w/ Div-01 for operation, termination and removal reqs.
2. TRAIN WORKERS, SUBCONTRACTORS & SUPPLIERS on proper waste mgmt procedures, as appropriate for the work occurring at project site.
3. DISTRIBUTE WASTE MGMT PLAN to all entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling and disposal.

SITE ACCESS & TEMP CONTROLS:

1. CONDUCT WASTE MGMT OPERATIONS to ensure min interference w/ roads, streets, walks, walkways and other adjacent occupied and used facilities.
2. DESIGNATE & LABEL SPECIFIC AREAS ON PROJECT SITE necessary for separating materials that are to be salvaged, recycled, reused, donated and sold.
3. COMPLY W/ Div-01 for controlling dust and dirt, environmental protection and noise control.

RECYCLING CONST WASTE:

1. Recycle paper and beverage containers used by on-site workers.
2. PROCEDURES: Separate recyclable waste from other waste materials, trash and debris.
3. Separate recyclable waste by type at project site to the max extent practical.
   - Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from project site.
   - Include list of acceptable and unacceptable materials at ea container and bin.
   - Inspect containers and bins for contamination & remove contaminated materials if found.
   - Stockpile processed materials on-site w/o intermixing w/ other materials. Place, grade and shape stockpiles to drain surface water. Cover to prevent windblown dust.
   - Stockpile materials away from const area. Do not store w/in drip line of remaining trees.
   - Store components off the ground and protect from the weather.
   - Remove recyclable waste off owner's property & transport to recycling receiver or processor.

RECYCLING CONST WASTE:

PACKAGING:

1. Cardboard and Boxes: Break down packaging into flat shts. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, req deliveries using pallets to remove pallets from project site. For pallets that remain on-site, break down pallets into component wd pieces and comply w/ reqs for recycling wd.
4. Crates: Break down crates into component wd pieces and comply w/ reqs for recycling wd.
5. Site-Clearing Wastes: Chip brush, branches and trees at landfill facility.

WD MATERIALS:

1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
2. Clean Sawdust: Bag sawdust that does not contain ptd or treated wd.
3. Gyp Bd: Stack large clean pieces on wd pallets and store in a dry location.
4. Clean Gyp Bd: Grind scraps of clean gyp bd using small mobile chipper or hammer mill. Screen out paper after grinding.

DISPOSAL OF WASTE:

1. Except for items/materials to be salvaged, recycled or otherwise reused, remove waste materials from project site & legally dispose of them in a landfill/incinerator acceptable to AHJ.
2. UNO, do not allow waste materials to be disposed of, accumulate onsite.
3. Remove and transport debris in a manner to prevent spillage on adjacent surfaces and areas.
4. Burning: Do not burn waste materials.
5. Disposal: Transport waste materials off owner's property and legally dispose of them.

SECTION 01 77 00 – CLOSEOUT PROCEDURES

FINAL CLEANING: PRIOR TO OWNER OCCUPANCY, clean all surfaces and site for use by the owner. Employ experienced workers or professional cleaners for final cleaning. Clean ea surface or unit of work to the condition expected from a normal, commercial bldg cleaning and maintenance program. Comply w/ the manuf instructions for operations.

SUBSTANTIAL COMPLETION PROCEDURES:

1. SET ALL TIME-BASED DEVICES, including programmable t-stats to current.
2. AFTER FINAL CLEANING operations have been completed and when the project is ready for owner occupancy, obtain an occupancy permit on behalf of the owner and approval by any other AHJ over the project.

PREREQUISITES TO FINAL COMPLETION:

1. COMPLETE ALL INCORRECT OR UNCOMPLETED WORK ITEMS as fast as possible, providing labor at times when the bldg is not occupied, if necessary. Coord w/ the owner and perform the work so it will not interfere w/ the owner's occupancy.
2. OWNER'S INSTRUCTIONS: After completion of final testing of sys, instruct the owner in operation, adjustment and maintenance of MEP, fire protection and monitoring sys provided.
3. REMOVE TEMP FACILITIES and controls and temp utility services from the project site, along w/ const tools, field office, mock-ups and sim elements.
4. OPERATION & MAINTENANCE DATA: Include the following types of info in O+M manuals: emergency instructions, spare parts listings, copies of warranties, wiring diagrams, inspection procedures, shop dwgs and product data.

FINAL CLOSEOUT DOCUMENT SUBMITTAL REQS:

1. ELECTRONIC CLOSEOUT SUBMITTALS: Provide 2 separate sets of the following documents ea recorded onto USB flash-drives of sufficient size to include all files and submit to the owner:
   - FINAL OCCUPANCY PERMIT and other legal releases.
   - PRODUCT WARRANTIES, maintenance agreements, final product certifications & sim docs.
   - MARKED-UP RECORD DWGS, product data and shop-dwgs, O+M manuals, damage or settlement survey and sim final record info.
   - A FINAL LISTING of all subcontractors and material suppliers used on the project.
   - AN UPDATED FINAL STATEMENT accounting for additional changes (additions and deductions) to the contract sum. Identify amounts for change orders, deductions for uncorrected work, deductions for reinspection payments and previous payments.
   - SUBMIT A FINAL PAYMENT REQUEST w/ final unconditional lien releases from all sub-contractors and material suppliers and other supporting documentation not previously submitted or accepted.
   - SUBMIT A FINAL LIEN RELEASE contingent only upon receipt and bank clearance of final payment amount.
   - SUBMIT THE PUNCH-LIST(s) w/ the GC's signed statement indicating all items have been completed or otherwise resolved for acceptance.
   - CONTRACTOR'S FINAL CERTIFICATION: Submit written certificate that: 1. CDs have been reviewed, 2. Work has been inspected for compliance w/ the CDs, 3. Work has been completed in accordance w/ the CDs, 4. Equip and sys have been tested and are operational and 5. Work is completed, ready for a final review.

<u>DIVISION 02: EXISTING CONDITIONS</u>

SECTION 02 22 00 – EXISTING CONDITIONS ASSESSMENT

1. PRIOR TO COMMENCEMENT OF WORK, verify exist conditions, control points, principal lines and els, the presence of underground utilities, at or related to the site and the exist bldg, and also examine adj facilities upon which the work is in any way dependent.
2. SURVEY THE EXIST BLDG (when applicable) prior to the start of const, to document any exist defects. This record will serve as a basis for determination of subsequent damage resulting from the contractor's operations at the site.
3. IN THE EVENT OF ANY INCONSISTENCY or conflict, between exist conditions and the CDs, immediate notify the architect of the inconsistency or conflict. Do not undertake any phase of the work affected by such inconsistency or conflict, pending the issuance of supplemental instructions by the architect.
4. IF HAZARDOUS MATERIALS ARE DISCOVERED, PROVIDE PROPOSED WORK PLANS for the removal, abatement or remediation of materials, for review & approval by the owner, as a change in scope to the const contract. Include in the work plan, a description of proposed means & methods to be used & an assessment of alternative methods, costs & logistics, including steps to perform site clean-up & follow-up monitoring for residual contaminates, as applicable.
5. ELS OF EXIST GRADES, flrs, tops of walls, parapets, beams and locations of exist cols, walls and sim elements are based on dwgs of the exist bldg and limited verification by the architect. However, the architect or owner assumes no responsibility for the accuracy of that info. It is the intent of the CDs to integrate new work w/ the exist work and the GC must verify and confirm the actual bldg conditions.
6. REVIEW EXIST FLR SUBSTRATE els and conditions to verify if any of the following exist and notify the architect if they do: variation of over 1/2" or more over entire flr area. Slopes of over 1/8" in 10' in any area. Rough or unstable flr substrates req extensive repair
7. REVIEW CONDITIONS of other exist const elements to be reused in the new const. Verify they will provide an acceptable substrate for new materials and fin indicated.
8. REPORT all unacceptable substrate or exist materials to the architect in writing.

SECTION 02 41 00 – SELECTIVE DEMOLITION

1. WORK INCLUDES removal and legal disposal of exist const items specified to be removed herein, noted to be removed w/in the dwgs, or as otherwise reqd to be removed to facilitate const activities.
2. EXIST CONDITIONS: The owner assumes no responsibility for the actual condition of items or structures to be demo.
3. SALVAGEABLE ITEMS of value must be removed from the site as work progresses - storage or sale of removed items on site is not permitted. The owner reserves the right to retain salvageable items.
4. INSPECT areas in which work will be performed prior to start of demo work.
5. LOCATE, IDENTIFY, STUB-OFF AND DISCONNECT exist utility and service lines not to remain. Provide by pass connections as reqd to maintain continuity of service to other areas of the bldg, if necessary.
6. IF UNANTICIPATED utilities, struct elements, etc. are encountered, investigate and measure both nature and extent of the conflict. Submit report to the owner in written, accurate dtl. Pending receipt of directive from the owner, rearrange selective demo sched as necessary to cont overall job progress w/o delay.
7. PERFORM demo work in a systematic manner. Use such methods as reqd to complete the work reqd in accordance w/ reqs of governing regulations. Provide shoring, bracing or support to prevent movement, settlement or collapse of adj const to remain. Conduct operations by means & methods to prevent injury to persons or damage to adj bldgs, structures, other facilities. Repair damage caused to adj const at no cost to the owner.
8. DEMO & REMOVE EXIST CONST only to the extent reqd by new const or as indicated. Use methods reqd to complete work w/in limitations of governing regulations and as follows:
   - NEATLY CUT OPENINGS & HOLES plumb, sq & true to dims reqd. Use cutting methods least likely to damage const to remain or adj const. To min disturbance of adj surfaces, use hand or small power tools designed for sawing or grinding, not hammering & chopping. Temp cover openings to remain.
   - CUT OR DRILL FROM THE EXPOSED OR FIN SIDE into concealed surfaces to avoid marring exist fin surfaces. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe ints, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations. Maintain adequate ventilation when using cutting torches.
   - REMOVE DECAYED, vermin-infested or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
   - RETURN ELEMENTS OF CONST & SURFACES TO REMAIN to condition exist before start of demo operations.
   - REMOVE EXIST FLR & WALL COVERINGS and replace w/ new materials, if necessary, to achieve uniform color and appearance.
   - DEMO CONC & MASONRY in small sections. Cut conc & masonry at junctures w/ const to remain, using power-driven masonry saw or hand tools; do not use power-driven impact tools. UNO, remove all below-grade const including fdns, ftgs & pavement as applicable.
   - REMOVE AC EQUIP w/o releasing refrigerants.

PATCHING AND REPAIRS:

1. PROMPTLY PATCH & REPAIR holes and damaged surfaces caused to adjacent const by selective demo operations. Where repairs to exist surfaces are reqd, patch to produce surfaces suitable for new materials.
2. RESTORE EXPOSED FIN of patched areas and extend fin restoration into adj const to remain in a manner that eliminates evidence of patching & refinishing.
3. PATCH, REPAIR FLR & WALL SURFACES in the new space where demo walls or partitions extend one fin area into another. Provide a flush and even surface of uniform color and appearance. Closely match texture and fin of exist adjacent surface. Patch w/ durable seams that are as invisible as possible.
4. WHERE PATCHING SMOOTH PTD SURFACES, extend final pt coat over entire unbroken surface containing the patch after the surface has received primer & 2nd coat.
5. DISPOSAL OF DEMO MATERIALS: Promptly dispose of demo materials. Do not allow demo materials to accumulate on-site. Do not burn demo materials on-site. Transport demo materials off the property and legally dispose of them.
6. CHANGE FILTERS ON AHU EQUIP on completion of selective demo operations.

<u>DIVISION 03: CONCRETE</u>

SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

Where any information provided in this architectural specification is in conflict with information provided in the structural drawings, the structural drawings shall take precedence.

NO PICTURE-FRAMING AT ANY EXPOSED OR VISIBLE CONC.

WORK INCLUDED: Provide cast in place conc fdns, flr slabs, pavement where indicated on the dwgs and as specified herein for a complete install.

REFER TO specifications and requirements outlined in structural, civil, and landscape dwgs in addition to these specifications. Where there is conflict in information or instruction, confirm expectations with the Architect. Where moisture and vapor control and the finish appearance of concrete is concerned, design intent as outlined in the architectural specifications and architectural drawings is to be maintained where possible, as long as it does not conflict with the engineering, structural integrity, code requirements, or the like of the engineering dwgs.

REFERENCED STANDARDS: Comply w/ applicable provisions of the following codes, specs & standards except where more stringent reqs are specified: ACI 117, ACI 318, ACI 347, ACI 347.3B, ACI 301, ACI 302, ACI 304, ACI 305, ACI 306, ACI 315, CRSI 's "Manual of Standard Practice"

QUALITY ASSURANCES:

1. INSTALLER QUALIFICATIONS: An experienced installer who has completed conc work sim in material, design and extent to that indicated for this project and whose work has resulted in const w/ a record of successful in-service performance.
2. READY-MIX MANUF QUALIFICATIONS: A firm experienced in manuf ready-mixed conc products and complying w/ ASTM C 94 reqs.
3. SOURCE LIMITATIONS: Obtain ea type or class of cementitious material of the same brand from the same manuf plant, ea aggregate from 1 source & ea admixture from the same manuf.
4. RETAIN A TESTING LAB to perform material evaluation tests and to design conc mixes. Materials and installed work may req testing and retesting, as directed by owner, at any time during progress of work. Allow free access to material stockpiles and facilities. Remove & replace work found to be defective & provide new acceptable work.

FORM MATERIALS:

1. FURNISH LARGEST practicable sizes to min jts & to conform to jts shown on dwgs. Provide material w/ sufficient thickness to withstand pressure of placed conc w/o bow/deflection.
2. FORMS FOR UNEXPOSED CONC: Plywd, lumber, mtl or other material. Provide lumber dressed on at least 2 edges and 1 side for tight fit.
3. FORMS FOR EXPOSED CONC: High-density overlay plywd of Class 1 or better, mtl faced pnls or sim smooth faced undamaged pnl type material that will provide cont, true, straight and smooth surfaces w/o evidence of wd grain and per reqs of ACI 347.3B.
4. FORM COATINGS: Commercial formulation form coating compounds that will not bond w/ stain nor adversely affect conc surfaces and will not impair subsequent treatments of conc surfaces.
5. FORMS FOR CYLINDRICAL COL: Mtl or fiberglass reinf plastic tubes. Provide units w/ sufficient wall thickness to resist wet conc loads w/o deformation. Forms will be capable of receiving any rustication or chamfer strips where if indicated.

REINF MATERIALS:

1. Per struct dwgs & specs.

CONC MATERIALS:

1. PORTLAND CEMENT: ASTM C 150, Type I/II. Use only one brand throughout project.
2. FLY ASH: ASTM C 618, Class C or F, limited to 25% of total cementitious materials by wt.

NORMAL-WT AGGREGATE: ASTM C 33 and as follows: CLASS: Severe weathering region, but no less than 3S.

NOM MAX AGGREGATE SIZE:

1. Typl slab-on-grade: 18-8 combined aggregate gradation (re below) w/ 1 1/4" max or 1/3 slab thickness if thicker than 4" (to reduce water content and shrinkage).
2. FOUNDATIONS (FDN): 1" max.
3. All other conc: 3/4" max.
4. COMBINED AGGREGATE GRADATION: Well graded from coarsest to finest w/ not more than 18% and not less than 8% retained on an individual sieve, except that less than 8% may be retained on coarsest sieve and on No. 50 sieve and less than 8% may be retained on sieves finer than No. 50.
5. FINE AGGREGATES: Natural washed hard sand varying from fine to particles passing a 3/8" screen of which at least 12% must pass a 50 mesh screen.
6. WATER: Potable and complying w/ ASTM C 94.
7. ADMIXTURES: Products certified by manuf to contain not more than 0.1% water-soluble chloride ions by mass of cementitious material and to be compatible w/ other admixtures and cementitious materials. Do not use admixtures containing calcium chloride.
8. Adhere to ASTM C 260; ASTM C 494, Type A; ASTM C 494, Type F; ASTM C 494, Type E; ASTM C 494, Type D; Federal Spec. TT S 00230C, Type II, Class A.
9. STRIP-TOP EJ FILLER: Preformed strips of asphalt saturated fiberbd, complying w/ ASTM D-1751 w/ pre-cut or perforated, removable top edge for install of sealant material after placing slabs.
10. VAPOR BARRIER (under slab-on-grade): 10 mil thick sht meeting ASTM E 1745 - Class A, eq to Vapor Block 10" by Raven, "VaporCheck 10" by Viper or eq product of W.R Meadows or Fortifiber, complete w/ manuf recommended 4 " w seaming tape (to seal to exist barrier) and vapor-proofing mastic for jts & penetrations.
11. MOISTURE RETAINING COVER: Waterproof paper or polyethylene film or polyethylene coated burlap, meeting ASTM C 171.
12. CONC MIXES: UNO indicated on the struct dwgs, prep design mixes for ea type and strength of conc determined by either lab trial mix or field test databases. Proportion normal-wt conc according to ACI 211.1 and ACI 301.
13. Use a qualified independent testing agency for prep and reporting proposed mix designs for the lab trial mix basis.
14. SLAB-ON-GRADE: compressive strength at 28 days (design strength – mix design is actually higher), w/ min 520 pounds/cubic yard of cementitious materials content w/ fly-ash, max water/cement ratio – 0.44 and 4" +/- 1" natural slump or 8" max slump for conc w/ high-range water-reducing admixture added to 2- to 4" natural slump conc. The intent of this mix design is to minimize overall water content w/in the slab, by maximizing aggregate and cementious materials.
15. FTGS, GRADE BEAMS, FDN WALLS: compressive strength (28 days), max water/cement ratio = 0.50 & 4" +/- 1" natural slump or 8" max slump for conc w/ high-range water-reducing admixture added to 2- to 4" natural slump conc.
16. EXT CURBS, GUTTERS & PAVEMENT: compressive strength (28 days), max water/cement ratio = 0.50 and 4" +/- 1" natural slump or 8" max slump for conc w/ high-range water-reducing admixture added to 2- to 4" natural slump conc and w/ 6% air entrainment.
17. CONC EXPOSED TO DEICERS: Limit cementitious materials other than Portland cement by % of wt according to ACI 301 reqs.
18. AIR CONTENT: Provide air-entraining admixture at manuf prescribed rate to result in conc at point of placement having an air content as follows w/in a tolerance of + 1 or - 1.5%, to provide 6% air content for 1" nom max aggregate size. Do not air entrain conc on trowel-fin int flrs and suspended slabs. Do not allow entrapped air content to exceed 3%.
19. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT in hardened conc to 0.15% by wt of cement.
20. MIX ADJUSTMENTS may be made by the GC at no additional cost to the owner. Lab test data for revised mix design & strength results must be submitted to & accepted by the owner before using in the work. At GC's option, withhold up to 2 1/2 gals of water per cubic yd of conc. Add withheld water immediately prior to discharge but only after 5 mins of mixing time has elapsed.
21. AGGREGATE PROPORTIONING: The vol of fine aggregate must not be less than 35% of the total vol of fine & coarse aggregates when measured in loose dry vols before being combined.
22. ADMIXTURES: Use according to manuf written instructions. Chlorides in any form or concentration must not be added to any conc.
23. USE WATER-REDUCING ADMIXTURE or high-range water-reducing admixture (superplasticizer) in conc, as reqd, for placement and workability.
24. USE WATER-REDUCING & RETARDING ADMIXTURE when reqd by high temps, low humidity or other adverse placement conditions.
25. USE WATER-REDUCING ADMIXTURE in pumped conc, conc for heavy-use industrial slabs and parking struct slabs, conc reqd to be watertight and conc w/ a water-cementitious materials ratio below 0.50.
26. SLUMP LIMITS: Design mixes to result in conc slump at point of placement as follows: RAMPS, SLABS & SLOPING SURFACES: Not more than 3". REINF FDN SYS: Not < 1" and not more than 4", CONC CONTAINING PLASTICIZER: Not more than 8" after addition of plasticizer to verified 2" to 3" slump conc. MASONRY GROUT: 8 to 10". OTHER CONC: Not more than 4".
27. FABRICATE STL REINF according to CRSI's "Manual of Standard Practice."

CONC MIXING:

1. READY-MIXED CONC: Measure, batch, mix & deliver conc according to ASTM C 94 and ASTM C 1116 and furnish batch ticket info.
2. WHEN AIR TEMP is between 85 and 90 deg F, reduce mixing and delivery time from 90 to 75 mins; when air temp is above 90 deg F, reduce mixing and delivery time to 60 mins.

FORM CONST:

1. DESIGN, ERECT, SUPPORT, BRACE & MAINTAIN formwork so it will safely support vert and lateral loads that might be applied, until such loads can be supported by the conc structure. Design formwork to be readily removable w/o impact, shock or damage to cast in place conc surfaces and adjacent materials.
2. CONST FORMS to sizes, shapes, lines and dims shown and to obtain accurate alignment, location, grades, level and plumb work in the fin work. Provide for openings, offsets, sinkages, keyways, recesses, moldings, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts and other features reqd in work. Use selected materials to obtain reqd fin. Solidly butt jts and provide back up at jts to prevent leakage of cement paste.
3. At exposed conc, install forms in an orderly & symmetrical manner w/ a min of seams. Locate seams and ties as indicated on the dwgs, or if not indicated, arrange seams and ties to be visually symmetrical w / in formwork pnls. to the acceptance of the architect.
4. Comply w/ reqs of ACI 347.3B regarding characteristics of exposed conc surfaces and per the sched of conc fin reqd.
5. EARTH FORMS: Side forms for ftgs may be omitted and conc poured directly against excavation only when requested by the GC and accepted by the owner. When omission of forms is accepted, provide additional conc 1" thick on ea side of the min design profile of sides and dims shown.
6. FABRICATE FORMS FOR EASY REMOVAL w/o hammering or prying against surfaces. Provide crush plates or wrecking plates where stripping may damage cast conc surfaces. Kerf wd inserts for forming keyways, knockout pnls recesses, etc. to prevent swelling & for easy removal.
7. PROVIDE wedges, jacks or camber strips to facilitate vert adjustments. Carefully inspect formwork during and after conc placement operations to determine abnormal deflection or signs of failure; make necessary adjustments to produce work of reqd dims.
8. CHAMFER EXPOSED CORNERS and edges, using wd, mtl, PVC or rubber chamfer strips. Chamfers must be 1" x 1" strips, accurately formed and surfaced to produce uniformly straight lines and tight edge jts on exposed conc.
9. PROVISIONS FOR OTHER TRADES: Provide openings in conc formwork to accommodate work of other trades. Determine size and location of openings, recesses and chases from trades providing such items. Accurately place and securely support items built into forms.
10. INSTALL OF EMBEDDED ITEMS: Set and build into work anchorage devices, rustication strips, chamfers and other embedded items such as sleeves, mech suspension devices, conduit, elect boxes, switches.
11. CLEANING & TIGHTENING: Thoroughly clean forms & adj surfaces to receive conc. Remove chips, wd, sawdust, dirt, etc. debris just before conc is placed. Retighten forms immediately after conc placement as reqd to eliminate mortar leaks and to maintain proper alignment.

PLACING REINF:

1. Per struct dwgs & specs.

JTS:

1. CJS: Locate and install cjs as indicated or, if not indicated, locate so as not to impair strength and appearance of the structure, as acceptable to the architect.
2. PROVIDE KEYWAYS at least 1 1/2"-d or UNO, where indicated in the dwgs.
3. PLACE CJS perp to main reinf. Cont reinf across cjs.
4. ISOLATION JTS IN SLAB ON GRADE: Const at points of contact between slabs and vert surfaces, such as col pedestals, fdn walls, grade beams, etc. Provide removable-top type exp jt material for install of sealant, where exposed to view in work.
5. CJS IN SLAB ON GRADE: Const to form pnls to divide slab into controlled areas of conc pour as indicated on the dwgs. Use premolded plastic cj former, inserted into fresh conc until top surface of strip is flush w/ slab surface. Remove pull top stiffener and fin conc flat over jt.
6. SAWN CJS may be provided in lieu of premolded units, as soon as possible after slab fin as may be safely done w/o dislodging aggregate. Saw cut not less than 1/4 the slab thickness.

INSTALL OF EMBEDDED ITEMS:

1. SET & BUILD INTO WORK anchorage devices and other embedded items reqd for other work attached to, or supported by, cast in place conc. Use setting dwgs, diagrams, instructions and directions provided by suppliers of items to be attached.
2. EDGE FORMS & SCREED STRIPS FOR SLABS: Set edge forms or bulkheads and intermediate screed strips for slabs to obtain reqd els and contours in fin slab surface. Provide and secure units sufficiently strong to support types of screed strips by use of strike off templates or accepted compacting type screeds.

PREP OF FORM SURFACES:

1. CLEAN re-used forms of conc matrix residue, repair and patch as reqd to return forms to acceptable surface condition. Rust stained stl formwork is not acceptable.
2. COAT CONTACT SURFACES w/ form coating compound before reinf is placed. Do not allow excess form coating to accumulate in forms or to come into contact w/ in place conc against which fresh conc will be placed.

CONC PLACEMENT:

1. INSPECT and complete formwork install, reinf stl and items to be embedded or cast in place. Notify other crafts to permit install of their work; cooperate w/ other trades in setting such work. Moisten wd forms immediately before placing conc where form coatings are not used.
2. COORD install of jt materials and moisture barriers w/ placement of forms & reinf stl.
3. COMPLY with ACI 304 and as herein specified.
4. DO NOT USE CONC which becomes nonplastic, unworkable, does not meet the reqd quality control limits or which has been contaminated by foreign materials. Remove rejected conc from the site and dispose of it in a location approved by AHJ.
5. CONC CONVEYING: Handle conc from the point of delivery and transfer to conc conveying equip and to the location of final deposit, as rapidly and practicable as specified in ASTM C 94. Use chutes or tremies for placing conc where a drop of more than 3' is reqd. Pumps may be used only if they can pump the mix designed. Do not add fine aggregate or water to the mix to satisfy needs of a pumping device.
6. DEPOSIT CONC cont or in layers of such thickness that no conc will be placed on conc which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed cont, provide cjs as herein specified. Deposit conc as nearly as practicable in its final location to avoid segregation. Place in forms in horiz layers no deeper than 24" and to avoid inclined cjs.
7. CONSOLIDATE PLACED CONC by mech vibrating equip supplemented by hand spading, rodding/tamping, in accordance w/ ACI recommended practices. Install & withdraw vibrators vert at uniformly spaced locations not farther than visible effectiveness of machine.
8. PLACE VIBRATORS to rapidly penetrate placed layer and at least 6" into preceding layer. Do not insert vibrators into lower layers of conc that have begun to set. At ea insertation, limit duration to time necessary to consolidate & complete embedment of reinf & embedded items w/o causing segregation of mix. Do not use vibrators to transport conc inside forms. Do not vibrate forms or reinf. Do not subject conc to any procedure which will cause segregation. Maintain reinf in proper position during placement and consolidation.

PLACING CONC SLABS:

1. DEPOSIT & CONSOLIDATE conc slabs in a cont operation, w/in the limits of cjs, until the placing of a pnl or section is completed. Consolidate conc so it is thoroughly worked around reinf and other embedded items and into corners. Bring slab surface to the correct level w/ a straight edge and then strike off. Use bull floats or darbies to smooth surface, leaving it free from bumps and hollows.
2. DO NOT sprinkle water on plastic surface. Do not disturb slab surface prior to start of fin operations.

HOT-WEATHER CONC PLACING:

1. COMPLY w/ ACI 305 and as reqd herein. When air temp is between 85-90 deg F, reduce mixing and delivery time from 90 to 75 mins, when air temp is above 90 deg F, reduce mixing and delivery time to 60 mins.
2. USE CHILLED WATER OR ICE to maintain conc temp at time of placement below 90 deg, provided the water eq of the ice is included in the total allowable amount of water.
3. COVER REINF STL w/ water soaked burlap if the stl becomes too hot. Stl temp must not exceed ambient air temp. Wet forms thoroughly prior to placement of conc. Fog spray forms, reinf stl and subgrade just before conc is placed.
4. USE WATER REDUCING RETARDING ADMIXTURE when reqd by high temps, low humidity or other adverse placing conditions.

FIN FORMED CONC SURFACES:

1. ROUGH-FORMED FIN (provide only at surfaces not exposed to view): As cast conc texture imparted by form-facing material w/ tie holes and defects repaired and patched and per ACI 347.3B CSC1 surface category. Remove fin & other projections that exceed 1/4".
2. SMOOTH-FORM FIN (at concealed surfaces to be covered w/ a coating material including dampproofing, waterproofing, pt or other coatings, at exposed fdn walls of less than 1' exposure and at exposed conc w/ limited visibility - such as w/in unfinished basement spaces): As-cast conc texture imparted by form-facing material, per ACI 347.3B CSC2. Repair and patch tie holes and defective areas. Remove fin and other projections exceeding 1/8"-h.
3. TYP EXPOSED-CONC FIN (typ conc fin UNO and at conc surfaces to receive a smooth-rubbed or grout-cleaned fin as described below): Visually important exposed conc per ACI 347.3B's CSC3.
   A. Horizontal surfaces to receive non-slip light broom finish, broom strokes perpendicular to longest axis of surface.
   B. Vertical and chamfered surfaces to receive smooth-rubbed finish.
4. ARCH-EXPOSED CONC FIN: Prominent featured conc w/ a h visual arch significance, per ACI 347.3B CSC4.
   A. Horizontal surfaces to receivenon-slip light broom finish, broom strokes perpendicular to longest axis of surface.
   B. Vertical and chamfered surfaces to receive smooth-rubbed finish.
5. RUBBED FIN (where indicated): Apply the following in addition to the typ exposed-conc fin described above, where indicated on the dwgs:
   - SMOOTH-RUBBED FIN: No later than 1 day after form removal, moisten conc surfaces and rub w/ carborundum brick or another abrasive until producing a uniform color and texture. Do not apply cement grout other than that created by the process.
6. RELATED OR ADJACENT UNFORMED SURFACES: At tops of walls, horiz offsets and sim unformed surfaces adjacent to formed surfaces, strike off smooth and fin w/ a texture matching adjacent formed surfaces. Cont final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, UNO.
   A. Horizontal surfaces to receive non-slip light broom finish, broom strokes perpendicular to longest axis of surface.
   B. Vertical and chamfered surfaces to receive smooth-rubbed finish.

FIN FLRS & SLABS:

1. COMPLY W/ ACI 302.1R. Do not wet conc surfaces.
2. SCRATCH FIN (apply to flr or slab surfaces to receive conc flr topping or mortar setting beds): After placing, plane surface so depressions between high spots do not exceed 1/4" in 10'. Slope surfaces uniformly to drains where reqd. After leveling, roughen surface before final set, w/ stiff brushes, brooms or rakes.
3. FLOAT FIN: Apply float fin to flr or slab surfaces that are to receive trowel fin and to surfaces which are to be covered w/ membrane waterproofing or rfg. Do not work surfaces after screeding, consolidating and leveling slabs, until ready for floating. Begin floating when surface water has disappeared or when the conc has stiffened sufficiently to permit operation of a power driven floats. Consolidate surface w/ power driven floats or by hand floating if area is small or inaccessible to power units. Check and level the surface plane to a tolerance not exceeding 1/4" in 10', in 2 different angles. Cut down h spots and fill low spots. Uniformly slope surfaces to drains. Immediately after leveling, refloat surface to a smooth, uniform, granular texture.
4. TROWEL FIN: Apply trowel fin to int and ext conc flr or slab surfaces to be exposed to view (including ext patio) and to slab surfaces to be covered w/ resilient flr, carpet, ceramic or quarry tile or other thin film fin coating sys. After floating, begin first trowel fin operation using a power driven trowel. Begin final troweling when surface produces a ringing sound as trowel is moved over the surface. Consolidate conc surface by final hand troweling operation, free from trowel marks, uniform in texture and appearance. Grind smooth surface defects which would telegraph through applied flr covering sys. Fin to achieve flatness and levelness using the F-number sys for "flr flatness" (FF), and "flr levelness (FL) per ACI 117 and as follows, UNO.
   - Non-critical mech/elect room flrs, parking struct slabs: Class 2: FF=20 / FL=15 (overall and local)
   - Carpeted areas: Class 2: FF=25 / FL=20 (overall and local)
   - For areas w/ thin-set Flring: Class 3: FF=35 / FL=25 (overall and local)
   - For ground / polished fin flrs: FF-50 / FL35
5. TROWEL / FINE BROOM FIN: Where ceramic or quarry tile is to be installed w/ thin set mortar, apply trowel fin and immediately scarify surface slightly by fine brooming.
6. NON-SLIP BROOM FIN: Apply non slip broom fin to ext conc surfaces at drs, ext steps and ramps and where otherwise indicated on the dwgs. Immediately after trowel fin, slightly roughen conc surface by brooming w/ fiber bristle broom perp to main traffic route. Coord reqd final fin w/ owner before application.
7. CONC CURING & PROTECTION: Protect freshly placed conc from premature drying caused by wind, excessive cold and hot temp and maintain for a period of time necessary for hydration of cement and proper hardening.
8. INITIATE CURING as soon as the surface water has disappeared after fin in accordance w/ ACI 301. Avoid rapid drying at end of final curing period, Comply w/ ACI 306.1 w/ recommendations in ACI 305R.
9. FORMED SURFACES: Cure formed conc surfaces, including underside of beams, supported slabs & other sim surfaces. If forms remain during curing period, moisture cure after loosening forms. If removing forms before end of curing period, continue curing by moisture curing.
10. UNFORMED SURFACES: Begin curing immediately after fin conc. Cure unformed surfaces, including flrs and slabs, conc flr toppings and other surfaces.
11. ANTI-SPALLING TREATMENT: Apply over conc cured by cont moist curing methods. Apply to surfaces no sooner than 28 days after placement, to clean, dry conc free of oil, dirt and other foreign material. Apply in 2 sprayed applications, w/ first application at rate of 40 SY per gal; second application at 60 SY per gal. Allow complete drying between apps.

SCHED OF CURING METHODS:

1. EXT CURBS, GUTTERS & EXT SLABS: Moisture cure & anti spalling treatment.
2. INT FLRS: Moisture cure or moisture cover cure.

MISC CONC ITEMS:

1. FILL IN holes and openings left in conc structures for passage of work by other trades is in place. Mix, place and cure conc as herein specified, to blend w/ in place const.
2. CURBS: Provide monolithic fin to curbs by stripping forms while conc is still green & stl troweling surfaces to a hard, dense fin w/ corners, intersections & terminations slightly rounded.
3. SET ANCHOR BOLTS furnished by others at correct els, complying w/ templates provided by manuf or supplier furnishing such items.

CONC SURFACE REPAIRS:

1. PATCH & REPAIR defective areas of conc w/ cement mortar immediately after removal of forms. Cut out honeycomb, rock pockets, voids over 1/4" in any dim and holes left by tie rods and bolts, down to solid conc but in no case to a depth of less than 1". Make edges of cuts perp to the conc surface. Thoroughly clean, dampen w/ water and brush coat the area to be patched w/ bonding agent. Place patching mortar after bonding compound has dried.
2. FOR EXPOSED TO VIEW SURFACES, blend white portland cement and standard portland cement so when dry, patching mortar will match surrounding color.

FIELD QUALITY CONTROL:

1. SAMPLING & TESTING for quality control during placement of conc must include the following: SLUMP: ASTM C 143, AIR CONTENT: ASTM C 231, CONC TEMP: Test hourly when air temp is 40 deg F and below and when 80 deg F and above and ea time a set of compressive test specimens made. COMPRESSIVE TEST SPECIMEN: ASTM C 31, COMPRESSIVE STRENGTH TESTS: ASTM C 39.
2. REPORT TEST RESULTS in writing to owner, special inspector and contractor w/in 24 hrs after tests are made. Reports of compressive strength tests must contain the project ID name and #, date of conc placement, name of conc testing service, conc type and class, location of conc batch in structure, mix proportions and materials, the compressive breaking strength and type of break for both 7 and 28 day tests.
3. ADDITIONAL TESTS must be made when test results indicate reqd strengths have not been attained. Tests may be done by cored cylinders complying w/ ASTM C 42 or by other methods as directed. The GC must pay for such tests conducted and any other additional testing as may be reqd, when unacceptable conc is verified.

SECTION 03 35 00 – SEALED CONCRETE FINISHING

1. PROVIDE SEALED CONC FIN at int exposed conc flr surfaces are not indicated to be fin w/ other fin materials or conc surface treatments on the dwgs, including but not limited to exposed conc flrs or slabs, stair treads & risers and stair platforms.
2. SEALED CONC FIN: Clear, high-solids, water based, non-yellowing membrane-forming, inorganic curing, sealing and hardener, material for treatment of uncovered conc flr surfaces, complying w/ ASTM C 1315 – Type 1, Class A and being classified as "low-odor" w/ a VOC content of less than 350 g/L. Do not apply to conc surfaces that receive subsequent cementitious toppings, sealers, hardeners, ceramic tile, resilient flr, wd flr, carpeting or resinous flr sys, unless sealer manuf certifies their product conforms to reqs by the flr fin manuf and will not adversely affect floor fin application.
3. B.O.D: "MasterKure HD 200WB" by BASF Building Systems.
4. CONC SEALER INSTALL: Install a min of 2 COATS, in accordance w/ manuf reqs.

<u>DIVISION 04: MASONRY</u>

SECTION 04 20 00 – UNIT MASONRY

1. PROVIDE UNIT MASONRY where indicated on the dwgs and as specified herein. Install related materials intended to be installed w/in masonry assemblies, including but not limited to stone trim units, stl lintels, shelf angles & sht mtl reglets, brick ties and flashings, etc.

WEATHER REQS:

1. COLD-WEATHER REQS: Do not use frozen materials or materials mixed or coated w/ ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply w/ cold-weather const reqs contained in ACI 530.1/ASCE 6/TMS 602. Use liquid cleaning methods only when air temp is 40 deg F and above and will remain so until masonry has dried, but not less than 7 days after completing cleaning.
2. HOT-WEATHER REQ: Protect unit masonry work when temp and humidity conditions produce excessive evaporation of water from mortar and grout. Provide artificial shade and wind breaks and use cooled materials as reqd. When ambient temp exceeds 100 deg F, or 90 deg F w/ a wind velocity greater than 8 mph, do not spread mortar beds more than 48" ahead of masonry. Set masonry units w/in 1 min of spreading mortar.

PRODUCTS:

1. CONC MASONRY UNITS (CMU): Normal wt, (UNO) ASTM C 90 open-ended per allowable shrinkage rate of C-90 paragraph 5.2, w/ min average net-area compressive strength of 1900 PSI; face size: Nom, depth per dwgs, 7 5/8" actual ht x 16 " nom, 15 5/8" actual width, in total nom wall thickness as indicated in the dwgs.
2. Provide manuf standard light-gray units w/ "smooth" exposed face surface suitable for pt typ.
3. Provide textured-face units made w/ gap-graded aggregates where units are indicated to receive a direct application of plaster or sim material.
4. FACE BRICK: ASTM C 216, Grade SW, Type FBX, FBS, FBA, w/ initial rate of absorption less than 30 g/30 sq in per min when tested per ASTM C 67, "not effloresced" when tested per ASTM C-79 and w/ no observable surface coloring difference in applied fin when viewed from 10' after 50-cycles of freezing & thawing per ASTM C-67 (except for flashed or sand-fin units).
5. At sills or caps, provide uncored or unfrogged units w/ all exposed surfaces fin.

MORTAR MATERIALS:

1. PORTLAND CEMENT-LIME MIX: Provide pre-packaged blend of natural or white Portland cement, complying w/ ASTM C 150, Type I or Type II (except Type III may be used for cold-weather const), w/ hydrated lime complying w/ ASTM C 207, Type S. Masonry cement mixes are not acceptable.
2. COLORED CEMENT: When indicated on dwgs, provide packaged colored cement blend made from Portland cement, lime & mortar pigments, all complying w/ specified req & containing no other ingredients. Formulate blend as reqd to produce color indicated as selected from manuf standard colors. Pigments must not exceed 10% of Portland cement by wt.
3. AGGREGATE FOR MORTAR: ASTM C 144. For mortar exposed to view, use washed aggregate consisting of natural sand or crushed stone. For jts less than 1/4" thick, use aggregate graded w/ 100% passing the No. 16 sieve. Provide natural white sand if necessary to produce reqd mortar color.
4. COLD-WEATHER ADMIXTURE: Non-chloride, noncorrosive, accelerating admixture complying w/ ASTM C 494, Type C and recommended by the manuf for use in masonry mortar of composition indicated.

MASONRY REINF & ACCESSORIES:

1. Per struct dwgs & specs.

CAVITY DRAINAGE MATERIAL: 1" thick, free-draining mesh; made from polyethylene strands and shaped to avoid being clogged by mortar droppings.

- Mortar Break; by Advanced Building Products, Inc.
- Polytite MortarStop, by Dayton Superior Corporation, Dur-O-Wal Division
- Mortar Net; Mortar Net USA, Ltd.

1. INTEGRATED THRU-WALL MASONRY FLASHING SYS: Provide a fully integrated thru-wall masonry flashing sys including the following components:
   - Solvent based rubber flashing primer,
   - 30-mil self-adhesive rubberized asphalt flashing composite membrane, w/ pre-formed flashing corners and end-dams.
   - 3/8" (exposed) x 0.015 x 1 5/8"-d sht mtl drip-edge, w/ pre-formed inside and outside drip-edge corners – fabricated of s/s when installed in light colored masonry or of copper sht mtl at dark colored masonry units, 5 mil Type 304 s/s cavity bridges and rubberized asphalt flashing mastic, to seal edges of flashing.
   - B.O.D: manuf: "Illinois Products Corporation". Subject to compliance w/ above reqs and components.
2. COMPRESSIBLE FILLER: Premolded filler strips complying w/ ASTM D 1056, Grade 2A1; compressible up to 50% of width and thickness indicated; formulated from neoprene urethane or PVC.
3. BOND-BREAKER STRIPS: Asphalt-saturated, organic felt complying w/ ASTM D 226, Type I.
4. RECTANGULAR PLASTIC WEEPS & VENTS: Clear butyrate or PVC, 3/8" x 1 1/2" x 3 1/2"; Cell Vent: Dur-O-Wal, Inc. or Hohmann & Barnard # 343 louvered weep vent or eq.
5. MASONRY CLEANER: Provide standard-strength cleaner designed for removing mortar/grout stains, efflorescence and other new const stains from new masonry w/o discoloring or damaging masonry surfaces. Use product expressly approved for intended use by manuf of masonry units being cleaned.

MORTAR AND GROUT MIXES:

1. DO NOT USE admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds or other admixtures, UNO. Do not use calcium chloride in mortar or grout.
2. ADD COLD-WEATHER ADMIXTURE at the same rate for all mortar, regardless of weather conditions, to ensure mortar color is consistent.
3. PREBLENDED, DRY MORTAR MIX: Furnish dry mortar ingredients in the form of a preblended mix. Measure quantities by wt to ensure accurate proportions and thoroughly blend ingredients before delivering to project site.
4. MORTAR FOR UNIT MASONRY: Comply w/ ASTM C 270 and as follows: Use "Type N" Mortar at masonry veneer, typ. Use Type M mortar for masonry below grade, in contact w/ earth and where indicated.
5. GROUT FOR UNIT MASONRY: Comply w/ ASTM C 476 and provide material w/ 2,000 PSI compressive strength when tested at 28 days, UNO. Use grout of type indicated or UNO, of type that will comply w/ Table 5 of ACI 530.1/ASCE 6/TMS 602 for dims of grout spaces and pour ht. Provide grout w/ a slump of 8 to 11" as measured according to ASTM C 143.
6. EPOXY POINTING MORTAR: Mix epoxy pointing mortar to comply w/ mortar manuf directions.

INSTALL:

1. THICKNESS: Build cavity & composite walls & other masonry const to the full thickness shown. Build single-wythe walls to the actual widths of masonry units, using units of widths indicated.
2. BUILD CHASES & RECESSES to accommodate items specified in this section and in other sections of the specs.
3. LEAVE OPENINGS FOR EQUIP TO BE INSTALLED before completing masonry. After installing equip, complete masonry to match the const immediately adj to opening.
4. CUT MASONRY UNITS w/ motor-driven saws to provide clean, sharp, unchipped edges. Cut units as reqd to provide a cont pattern and to fit adjoining const. Where possible, use full-size units w/o cutting. Allow units cut w/ water-cooled saws to dry before placing, unless wetting of units is specified. Install cut units w/ cut surfaces and where possible, cut edges concealed.
5. AT EXIST MASONRY match coursing, bonding, color & texture of exist materials.
6. WETTING OF BRICK: Wet brick before laying if the initial rate of absorption exceeds 30 g/30 sq in per min when tested per ASTM C 67. Allow units to absorb water so they are damp but not wet at the time of laying.

CONST TOLERANCES – Comply w/ ACI 530.1/ASCE 6/TMS 602 and as follows:

CONSPICUOUS VERT LINES such as external corners, dr jambs, reveals and ejs and cjs do not vary from plumb more than 1/4" in 20', nor 1/2" max.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@reed-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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ARCHITECTURAL SPECIFICATIONS

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2. VERT ALIGNMENT OF EXPOSED HEAD JTS do not vary from plumb by more than 1/4" in 10', nor 1/2" max.
3. CONSPICUOUS HORIZ LINES such as exposed lintels, sills, parapets and reveals do not vary from level more than 1/4" in 20', nor 1/2" max.
4. EXPOSED BED JTS, do not vary from thickness indicated more than +/- 1/8", w/ a max thickness limited to 1/2". Do not vary from bed-jt thickness of adj courses more than 1/8".
5. FOR EXPOSED HEAD JTS do not vary from thickness indicated by more than +/- 1/8". Do not vary from adjacent bed-jt and head-jt thicknesses more than 1/8".

LAYING MASONRY WALLS:
1. LAY OUT WALLS in advance for accurate spacing of surface bond patterns w/ uniform jt thicknesses & for accurate location of openings, movement-type jts, returns & offsets. Avoid using less-than-half-size units, particularly at corners, jambs & where possible, at other locations.
2. BOND PATTERN for exposed masonry: Lay exposed masonry in the bond pattern indicated in the dwgs – do not use units w/ less than 4" nom horiz face dims at corners or jambs.
3. STOPPING & RESUMING WORK: In ea course, rack back 1/2 unit length for 1/2 if running bond or 1/3 unit length for 1/3 running bond; do not tooth. Clean exposed surfaces of set masonry, wet clay masonry units lightly if reqd and remove loose masonry units and mortar before laying fresh masonry.
4. WHERE BUILT-IN ITEMS ARE TO BE EMBEDDED in cores of hollow masonry units, place a layer of mtl lath in the jt below and rod mortar or grout into core.

MORTAR BEDDING & JOINTING:
1. LAY HOLLOW MASONRY UNITS w/ full mortar coverage on horiz and vert face shells. Bed webs in mortar in starting course on ftgs and in all courses of piers, cols and pilasters and where adjacent to cells or cavities to be filled w/ grout. For starting course on ftgs where cells are not grouted, spread out full mortar bed, including areas under cells.
2. LAY SOLID brick-size masonry units w/ completely filled bed & head jts; butter ends w/ sufficient mortar to fill head jts & shove into place. Do not deeply furrow bed jts/slush head jts.
3. SET STONE & CAST-STONE TRIM UNITS in full bed of mortar w/ full vert jts. Fill all dowel, anchor and sim holes. Clean soiled surfaces w/ fiber brush and soap powder and rinse thoroughly w/ clear water. Wet jt surfaces thoroughly before applying mortar.
4. TOOL EXPOSED JTS SLIGHTLY CONCAVE when thumbprint is hard, using a jointer larger than the jt thickness, UNO.
5. CUT JTS FLUSH FOR MASONRY WALLS to receive plaster or other direct-applied fin, UNO.

FLASHING, WEEPS & CAVITY DRAINAGE:
1. INSTALL EMBEDDED FLASHING & WEEP HOLES in masonry at shelf angles, lintels, ledges other obstructions to downward flow of water in wall and where indicated.
2. PREP MASONRY SURFACES so they are smooth and free from projections that could puncture flashing. Where flashing is w/in mortar jt, place through-wall flashing on sloping bed of mortar and cover w/ mortar. Before covering w/ mortar, seal penetrations in flashing w/ adhesive, sealant or tape as recommended by flashing manuf.
3. AT MULTI-WYTHE MASONRY WALLS including cavity walls, extend flashing through outer wythe, turned up a min of 8" and through inner wythe to w/in 1/2" of the int face of wall in exposed masonry. Where int face of wall is to receive furring or framing, carry flashing completely through inner wythe and turn flashing up approximately 2" on int face.
4. AT MASONRY-VENEER WALLS extend flashing through veneer, across air space behind veneer and up face of sheathing at least 8"; w/ upper edge tucked under bldg paper or bldg wrap or behind ext sheathing bd when bldg paper does not exist, lap flashings at least 4".
5. INSTALL INTEGRATED THRU-WALL FLASHING SYS in strict accordance w/ manuf install instructions & recommendations. Install mtl drip edges beneath flexible flashing at ext face of wall. Stop flexible flashing 1" back from outside face of wall & adhere flexible flashing to top of mtl drip edge. Install cavity-bridge units to span any openings that would not support the flashing material. Place mtl drip-edge in a bead of urethane sealant & apply flashing material to top of drip-edge starting 1" from outside edge of masonry. Apply flashing material to the face of glass-mat gyp sheathing pnls w/ the flashing manuf primer & extend up face of sheathing at least 8". Seal top edge w/ manuf flashing mastic per manuf.
6. AT LINTELS & SHELF ANGLES extend flashing a min of 6" into masonry at ea end. At heads & sills, extend flashing 6" at ends and turn up not less than 2" to form end dams.
7. INSTALL WEEPS in the head jts in ext wythes of the first course of masonry immediately above embedded flashing. Space weep units 24" OC. Place cavity drainage material immediately above flashing in cavities at ea weep.
8. INSTALL CAVITY VENTS in the highest available head jt (excluding rowlocks) at the top of all cavity spaces at same spacing as weep vents.
9. INSTALL REGLETS & NAILERS for flashing and other related const where they are shown to be built into masonry.
10. MASONRY JT REINF: Per struct dwgs & specs.

DIVISION 05: METALS

SECTION 05 12 00 – STRUCTURAL STEEL
1. WORK INCLUDED: Provide structural steel where indicated on the Drawings, as specified herein, and as necessary for complete installation.

ENGINEERING DESIGN SERVICE:
1. Provide services of a Structural Engineer licensed in the state in which the Project is located to design connections required, and to supervise preparation of structural steel shop-drawings.
2. INCLUDE SHOP CERTIFICATION TESTING AND INSPECTION as a part of the Work of this Section.

DEFINITION - STRUCTURAL STEEL:
1. Elements of structural-steel frame, as classified by AISC's "Code of Standard Practice for Steel Buildings and Bridges," that support design loads.

PERFORMANCE REQUIREMENTS FOR CONNECTIONS:
1. Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand ASD-service loads indicated and comply with other information and restrictions indicated.

SUBMITTALS
1. PRODUCT DATA: For each type of product indicated.
2. SHOP DRAWINGS: Show fabrication of structural-steel components. Include details of cuts, connections, splices, camber, holes, and other pertinent data. Include embedment drawings. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify high-strength bolted slip-critical, direct-tension, or tensioned shear/bearing connections.
3. WELDING CERTIFICATES to verify that welders to be employed in the Work have satisfactorily passed AWS qualification tests.
4. QUALIFICATION DATA: For Installer, fabricator and for professional engineer.

COORDINATION
1. FURNISH ANCHORAGE ITEMS TO BE EMBEDDED in or attached to other construction without delaying the work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

MATERIALS:
1. W-SHAPES: High-Strength, Low-Alloy Columbium-Vanadium Steel: ASTM A 992, Grade 50.
2. CHANNELS, ANGLES, PLATE, BARS AND SHAPES: ASTM A 36
3. RECTANGULAR STEEL TUBING: ASTM A 500, Grade B, structural tubing.
4. ROUND STEEL TUBING: ASTM A 500, Grade B or Grade C, structural tubing.
5. THREADED ROD, NUTS & WASHERS: ASTM A 36 carbon steel, hot-dipped zinc finish.
6. WELDING ELECTRODES: E70XX, unless indicated otherwise on structural drawings, per AWS requirements.
7. HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: ASTM A 325, Type 1, heavy hex steel structural bolts; ASTM A 563 heavy hex carbon-steel nuts; and ASTM F 436 hardened carbon-steel washers, plain finish.
8. DIRECT-TENSION INDICATORS: ASTM F 959, Type 490, compressible-washer type, plain.
9. TENSION-CONTROL, HIGH-STRENGTH BOLT-NUT-WASHER ASSEMBLIES: ASTM F 1852, Type 1, heavy hex or round head steel structural bolts with splined ends; ASTM A 563 heavy hex carbon-steel nuts; and ASTM F 436 hardened carbon-steel washers, plain finish.
10. UNHEADED ANCHOR RODS: ASTM F 1554, Grade 36 or ASTM F 1554, Grade 55, cut threads only, weldable as indicated, straight configuration unless otherwise indicated.
11. CLEVISES AND TURNBUCKLES: ASTM A 108, Grade 1035, cold-finished carbon steel.
12. EYE BOLTS AND NUTS: ASTM A 108, Grade 1030, cold-finished carbon steel.
13. PRIMER: Fabricator's standard lead- and chromate-free, non-asphaltic, rust-inhibiting primer.
14. NONMETALLIC, SHRINKAGE-RESISTANT GROUT: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

FABRICATION
1. FABRICATE AND ASSEMBLE structural steel in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC's "Specification for Structural Steel Buildings-38-Allowable Stress Design and Plastic Design." Camber structural-steel members where indicated. Identify high-strength structural steel according to ASTM A 6 and maintain markings until structural steel has been erected. Mark and match-mark materials for field assembly. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.
2. THERMAL CUTTING: Perform thermal cutting by machine to greatest extent possible. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1.
3. FINISHING: Accurately finish ends of columns and other members transmitting bearing loads.
4. CLEAN AND PREPARE STEEL SURFACES that are to remain unpainted according to SSPC-SP 2, "Hand Tool Cleaning."

5. HOLES: Provide holes required for securing other work to structural steel and for passage of other work through steel framing members. Cut, drill, or punch holes perpendicular to steel surfaces. Cut, drill, mechanically thermal cut, or punch base-plate holes perpendicular to steel surfaces. Weld threaded nuts to framing and other specialty items indicated to receive other work.

SHOP CONNECTIONS
1. HIGH-STRENGTH BOLTS: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
2. WELD CONNECTIONS: Comply with AWS D1.1 for welding procedure specifications, tolerances, appearance, and quality of welds and for methods used in correcting welding work. Remove backing bars or runoff tabs, back gouge, and grind steel smooth.
3. ASSEMBLE AND WELD BUILT-UP SECTIONS by methods that will maintain true alignment of axes without exceeding tolerances of AISC's "Code of Standard Practice for Steel Buildings and Bridges" for mill material.
4. VERIFY THAT WELD SIZES, fabrication sequence, and equipment used for architecturally exposed structural steel will limit distortions to allowable tolerances. Prevent weld show-through on exposed steel surfaces. Grind butt welds flush. Grind or fill exposed fillet welds to smooth profile. Dress exposed welds

SHOP PRIMING:
1. SHOP PRIME STEEL SURFACES typically, except at the following:
   A. Surfaces embedded in concrete or mortar beyond 2 " depth
   B. Surfaces to be field welded.
   C. Galvanized surfaces.
2. SURFACE PREPARATION: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards: SSPC-SP 2, "Hand Tool Cleaning."
3. PRIMING: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a dry film thickness of not less than 1.5-mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces. Stripe paint corners, crevices, bolts, welds, and sharp edges. Apply two coats of shop paint to inaccessible surfaces after assembly or erection. Change color of second coat to distinguish it from first.
4. PAINTING: Apply a 1-coat, non-asphaltic primer complying with SSPC-PS Guide 7.00, "Painting System Guide 7.00: Guide for Selecting One-Coat Shop Painting Systems," to provide a dry film thickness of not less than 1.5-mils.

HOT-DIP GALVANIZED FINISH:
1. Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123. Fill vent holes and grind smooth after galvanizing. At galvanized steel members, provide galvanized finished fasteners. Galvanize structural steel where indicated on the Drawings and as follows:
   A. Structural steel framing within exterior CMU walls.
   B. Lintels and shelf angles within exterior walls attached to the structural-steel frame.
   C. Exterior steel assemblies located outside of the building 's weather-resistant barrier (WRB), including their associated attachments and brackets.

SOURCE QUALITY CONTROL
1. ENGAGE an independent testing and inspecting agency to perform shop tests and inspections and prepare test reports. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections. Testing agency will conduct and interpret tests and state in each report whether tested Work complies with or deviates from requirements.
2. CORRECT DEFICIENCIES in Work that test reports and inspections indicate does not comply with the Contract Documents.
3. TESTS INCLUDE, but are not limited to:
   A. Bolted Connections: Shop-bolted connections will be inspected according to RCSC's "Specification for structural Joints Using ASTM A 325 or A 490 Bolts."
   B. Welded Connections: In addition to visual inspection, shop-welded connections will be tested and inspected according to AWS D1.1 and the following inspection procedures, at testing agency's option:
   C. Liquid Penetrant Inspection: ASTM E 165.
   D. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
   E. Ultrasonic Inspection: ASTM E 164.
   F. Radiographic Inspection: ASTM E 94.

EXECUTION
1. PREPARATION: Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Procedure for installation of temporary bracing should follow AISC Steel Design Guide Series #10 "Erection Bracing of Low Rise Structural Steel Buildings." Remove temporary supports when permanent structural steel, connections, and bracing are in place, unless otherwise indicated.

ERECTION
1. SET STRUCTURAL STEEL ACCURATELY in locations and to elevations indicated and according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and "Specification for Structural Steel Buildings--Allowable Stress Design and Plastic Design."
2. BASE AND BEARING PLATES: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting base and bearing plates. Clean bottom surface of base and bearing plates. Set base and bearing plates for structural members on wedges, shims, or setting nuts as required. Snug-60 tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of base or bearing plate before packing with grout. Promptly pack grout solidly between bearing surfaces and base or bearing plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
3. MAINTAIN ERECTION TOLERANCES of structural steel and architecturally exposed structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."
4. ALIGN AND ADJUST VARIOUS MEMBERS forming part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment. Level and plumb individual members of structure. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
5. SPLICE MEMBERS only where indicated.
6. REMOVE ERECTION BOLTS on welded, architecturally exposed structural steel; fill holes with plug welds; and grind smooth at exposed surfaces.
7. DO NOT USE THERMAL CUTTING during erection unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

SECTION 05 31 00 – STEEL DECKING

SECTION INCLUDES:
1. Composite floor deck.

RELATED REQUIREMENTS
1. Section 033000 "Cast-in-Place Concrete" for normal-weight and lightweight structural concrete fill over steel deck.
2. Section 051200 "Structural Steel Framing" for shop- and field-welded shear connectors.
3. Section 055000 "Metal Fabrications" for framing deck openings with miscellaneous steel shapes.

ACTION SUBMITTALS
1. Product Data: REFERENCE STRUCTURAL DRAWINGS for each type of Product indicated. Provide as required in general notes.

SHOP DRAWINGS
1. Include layout and types of deck panels, anchorage details, reinforcing channels, pans, cut deck openings, special jointing, accessories, and attachments to other construction.

INFORMATIONAL SUBMITTALS
1. Welding certificates.
2. Product Certificates: For each type of steel deck.
3. Test and Evaluation Reports
   A. Product Test Reports: For tests performed by a qualified testing agency, indicating that each of the following complies with requirements:
      a. Power-actuated mechanical fasteners.
   B. Research Reports: For steel deck, from ICC-ES showing compliance with the building code.
4. Field Quality-Control Submittals:
   A. Field quality-control reports.
5. Qualification Statements: For welding personnel and testing agency.

QUALITY ASSURANCE
1. Welding Qualifications: Qualify procedures and personnel in accordance with SDI QA/QC and the following welding codes:
   A. AWS D1.1/D1.1M.
   B. AWS D1.3/D1.3M.

DELIVERY, STORAGE, AND HANDLING
1. Protect steel deck from corrosion, deformation, and other damage during delivery, storage, and handling.
2. Store products in accordance with SDI MOC3. Stack steel deck on platforms or pallets and slope to provide drainage. Protect with a waterproof covering and ventilate to avoid condensation.
   A. Protect and ventilate acoustical cellular roof deck with factory-installed insulation to maintain insulation free of moisture.

PRODUCTS

PERFORMANCE REQUIREMENTS
1. AISI Specifications: Comply with calculated structural characteristics of steel deck in accordance with AISI S100.
2. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   A. Indicate design designations from UL's "Fire Resistance Directory" or from listings of another qualified testing agency.

COMPOSITE FLOOR DECK
1. Fabrication of Composite Floor Deck: Fabricate panels, with integrally embossed or raised pattern ribs and interlocking side laps, to comply with SDI C, with the minimum section properties indicated, and with the following as BOD. Structural specifications take precedent, refer to structural:
   A. Galvanized-Steel Sheet: ASTM A653, Structural Steel (SS), Grade 33, with G60 zinc coating.
   B. Profile Depth: as indicated on the Structural Drawings.
   C. Design Uncoated-Steel Thickness: 0.0295-inch (22 gage) minimum, or thicker, as indicated on the Structural Drawings
   D. Span Condition: As indicated in structural drawings.
   E. BASIS-OF-DESIGN: 1.5VL GR 50 composite decking by Nucor / Vulcraft, or approved equal.

ACCESSORIES
1. Provide manufacturer's standard accessory materials for deck that comply with requirements indicated. REFERENCE STRUCTURAL DRAWINGS.

EXECUTION
1. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

INSTALLATION, GENERAL
1. Install deck panels and accessories in accordance with SDI C, SDI NC, and SDI RD, as applicable; manufacturer's written instructions; and requirements in this Section.
2. REFERENCE STRUCTURAL DRAWINGS FOR INSTALLATION REQUIREMENTS
3. Install temporary shoring before placing deck panels if required to meet deflection limitations.
4. Locate deck bundles to prevent overloading of supporting members.
5. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.
6. Place deck panels flat and square and fasten to supporting frame without warp or deflection.
7. Cut and neatly fit deck panels and accessories around openings and other work projecting through or adjacent to deck.
8. Provide additional reinforcement and closure pieces at openings as required for strength, continuity of deck, and support of other work.
9. Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used for correcting welding work.
10. Shear Stud Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Weld using end welding of headed-stud shear connectors in accordance with AWS D1.1/D1.1M and manufacturer's written instructions.

REPAIR
1. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint in accordance with ASTM A780/A780M and manufacturer's written instructions.
2. Repair Painting:
   A. Wire brush and clean rust spots, welds, and abraded areas on both surfaces of prime-painted deck immediately after installation, and apply repair paint.
   B. Apply repair paint, of same color as adjacent shop-primed deck, to bottom surfaces of deck exposed to view.
   C. Wire brushing, cleaning, and repair painting of bottom deck surfaces, and rust spots, welds, and abraded areas are included in Section 099113 "Exterior Painting" and Section 099123 "Interior Painting."

FIELD QUALITY CONTROL
1. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
2. Tests and Inspections:
   A. Special inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck in accordance with quality-assurance inspection requirements of SDI QA/QC.
      a. Field welds will be subject to inspection.
3. Steel decking will be considered defective if it does not pass tests and inspections.
4. Shear Stud Connectors: In addition to visual inspection, test and inspect field-welded shear connectors in accordance with requirements in AWS D1.1/D1.1M for stud welding and as follows:
   A. Perform bend tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
   B. Conduct tests in accordance with requirements in AWS D1.1/D1.M on additional shear connectors if weld fracture occurs on shear connectors that are already tested.

SECTION 05 50 00 – METAL FABRICATIONS

SECTION INCLUDES
1. Miscellaneous framing and supports.
2. Shelf angles.
3. Miscellaneous steel trim.

PRODUCTS FURNISHED, BUT NOT INSTALLED, UNDER THIS SECTION INCLUDE THE FOLLOWING:
1. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.
2. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.

RELATED REQUIREMENTS
1. Section 042000 "Unit Masonry" for installing loose lintels, anchor bolts, and other items built into unit masonry.
2. Section 051200 "Structural Steel Framing" for steel framing, supports, elevator machine beams, hoist beams, divider beams, door frames, and other steel items attached to the structural-steel framing.

COORDINATION
1. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible with one another.
2. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

ACTION SUBMITTALS
1. Product Data:
   A. Fasteners.
   B. Shop primers.
2. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:
   A. Miscellaneous framing and supports for applications where framing and supports are not specified in other Sections.
   B. Shelf angles.
   C. Miscellaneous steel trim including steel edgings.
   D. Loose steel lintels.

INFORMATIONAL SUBMITTALS
1. Mill Certificates: Signed by stainless steel manufacturers, certifying that products furnished comply with requirements.
2. Welding certificates.
3. Research Reports: For post-installed anchors.
4. Delegated design engineer qualifications.

QUALITY ASSURANCE
1. Welding Qualifications: Qualify procedures and personnel in accordance with the following welding codes:
   A. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
   B. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
   C. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."
   D. Certify that each welder has satisfactorily passed AWS qualifications tests for welding processes involved and,if pertinent, has undergone recertification.
2. Fabricator Qualifications: A firm experienced in producing metal fabrications similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

FIELD CONDITIONS
1. Field Measurements: Verify actual locations of walls, floor slabs, decks, and other construction contiguous with metal fabrications by field measurements before fabrication.
2. Establish dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions. Allow for trimming and fitting.

PRODUCTS / PERFORMANCE REQUIREMENTS
1. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
2. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

METALS
1. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
2. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
3. Stainless Steel Sheet, Strip, and Plate: ASTM A240/A240M or ASTM A666, Type 304.
4. Stainless Steel Bars and Shapes: ASTM A276/A276M, Type 304.
5. Rolled-Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.
6. Rolled-Stainless Steel Floor Plate: ASTM A793.
7. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.
8. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.
9. Cast Iron: Either gray iron, ASTM A48/A48M, or malleable iron, ASTM A47/A47M, unless otherwise indicated.
10. Aluminum Plate and Sheet: ASTM B209, Alloy 6061-T6.
11. Aluminum Extrusions: ASTM B221, Alloy 6063-T6.

FASTENERS
1. General: Unless otherwise indicated, provide Type 304 stainless steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
   A. Provide stainless steel fasteners for fastening aluminum,stainless steel,or nickel silver.
   B. Provide bronze fasteners for fastening bronze.
2. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A; with hex nuts, ASTM A563; and, where indicated, flat washers.
3. High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A325, Type 3, heavy-hex steel structural bolts; ASTM A563, Grade DH3, heavy-hex carbon-steel nuts; and where indicated, flat washers.
4. Stainless Steel Bolts and Nuts: Regular hexagon-head annealed stainless steel bolts, ASTM F593; with hex nuts, ASTM F594; and, where indicated, flat washers; Alloy Group 1 or Group 2.
5. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563; and, where indicated, flat washers.
   A. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.
6. Cast-in-Place Anchors in Concrete: Either threaded or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329/F2329M.
7. Post-Installed Anchors: Torque-controlled expansion anchors.
   A. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.
   B. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless steel bolts, ASTM F593, and nuts, ASTM F594.

MISCELLANEOUS MATERIALS
1. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting," Section 099123 "Interior Painting," and Section 099600 "High-Performance Coatings."
2. Water-Based Primer: Emulsion type, anticorrosive primer for mildly corrosive environments that is resistant to flash rusting when applied to cleaned steel, complying with MPI#107 and compatible with topcoat.
3. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.
4. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.
5. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
6. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
7. Shrinkage-Resistant Grout: Factory-packaged, nonmetallic, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
8. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi.

FABRICATION, GENERAL
1. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
2. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
3. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
4. Form exposed work with accurate angles and surfaces and straight edges.
5. Weld corners and seams continuously to comply with the following:
   A. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   B. Obtain fusion without undercut or overlap.
   C. Remove welding flux immediately.
   D. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
6. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
7. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
8. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
9. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
10. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded teel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

MISCELLANEOUS FRAMING AND SUPPORTS
1. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
2. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated.Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
   A. Fabricate units from slotted channel framing where indicated.
   B. Furnish inserts for units installed after concrete is placed.
3. Prime miscellaneous framing and supports with primer specified in Section 099600 "High-Performance Coatings" where indicated.

SHELF ANGLES
1. Fabricate shelf angles from steel angles of sizes indicated and for attachment to concrete framing. Provide horizontally slotted holes to receive 3/4-inch bolts, spaced not more than 6 inches from ends and 24 inches o.c., unless otherwise indicated.
   A. Provide mitered and welded units at corners.
   B. Provide open joints in shelf angles at expansion and control joints. Make open joint approximately 2 inches larger than expansion or control joint.
2. For cavity walls, provide vertical channel brackets to support angles from backup masonry and concrete.
3. Galvanize[and prime] shelf angles located in exterior walls.
4. Prime shelf angles located in exterior walls with primer specified in Section 099600 "High-Performance Coatings."
5. Furnish wedge-type concrete inserts, complete with fasteners, to attach shelf angles to cast-in-place concrete.

MISCELLANEOUS STEEL TRIM
1. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.
2. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.
   A. Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.
3. Galvanize and prime exterior miscellaneous steel trim.
4. Prime exterior miscellaneous steel trim with primer specified in Section 099600 "High-Performance Coatings."

STEEL WELD PLATES AND ANGLES
1. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

GENERAL FINISH REQUIREMENTS
1. Finish metal fabrications after assembly.
2. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

FINISHES:
1. COMPLY WITH NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Finish metal fabrications after assembly.
2. PREPARATION FOR SHOP PRIMING: Prepare uncoated ferrous-metal surfaces to comply with minimum requirements indicated below for SSPC surface-preparation specifications and environmental exposure conditions of installed metal fabrications:
   A. Exteriors (SSPC Zone 1B): SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
   B. Interiors (SSPC Zone 1A): SSPC-SP 3, "Power Tool Cleaning."
3. APPLY SHOP PRIMER to uncoated surfaces of metal fabrications, except those that are shop finished, units with galvanized finishes, at units intended to be embedded in concrete or masonry, or covered with sprayed-on fireproofing, unless otherwise indicated. Comply with SSPC-PA 1, "Paint Application Specification No. 1," for shop painting. Stripe paint corners, crevices, bolts, welds, and sharp edges.
4. HOT-DIP GALVANIZED FINISH: Apply zinc coating by the hot-dip process to comply with ASTM A 123, for steel and iron products, or ASTM A 153 for steel and iron hardware. Fill vent holes and grind smooth after galvanizing. Galvanize all exterior steel assemblies, including associated attachments and brackets.

EXECUTION:
1. FASTENING TO IN-PLACE CONSTRUCTION: Provide anchorage devices and fasteners where necessary for securing metal fabrications to in-place construction. Include threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws, and other connectors.
2. CUTTING, FITTING, AND PLACEMENT: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
3. FIT EXPOSED CONNECTIONS accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
4. FIELD WELDING: Comply with the following requirements:
   A. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   B. Obtain fusion without undercut or overlap.
   C. Remove welding flux immediately.
   D. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
5. SETTING BEARING AND LEVELING PLATES: Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with grout. Use non-shrink, non-metallic grout unless otherwise indicated. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.
6. INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings, if any. Support steel girders on solid grouted masonry, concrete, or steel pipe columns. Secure girders with anchor bolts embedded in grouted masonry or concrete or with bolts through top plates of pipe columns. Where grout space under bearing plates is indicated at girders supported on concrete or masonry, install as specified above for setting and grouting bearing and leveling plates.
7. INSTALL PIPE COLUMNS on concrete footings with grouted baseplates. Position and grout column baseplates as specified above for setting and grouting bearing and leveling plates. Do not grout baseplates of columns supporting steel girders until girders are installed and leveled.
8. INSTALL METAL STAIRS by welding stair framing to steel structure or to weld plates cast into concrete, unless otherwise indicated.

CLEANING & PROTECTION:
1. TOUCHUP PAINTING: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
2. GALVANIZED SURFACES: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.
3. PROTECT finishes of metalwork during construction period by use of temporary protective coverings. Remove protective covering at time of Substantial Completion. Restore finishes damaged during installation and construction period so that no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

ADJUSTING AND CLEANING
1. TOUCHUP PAINTING: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting (but with low VOC in field) to comply with SSPC-PA 1 for touching up shop-painted surfaces. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
2. GALVANIZED SURFACES: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780, using low VOC galvanizing repair finish material.

SECTION 05 51 00 – METAL STAIRS
1. WORK INCLUDED: Provide misc mtl fabrications where indicated on the dwgs, as specified herein, and as necessary for complete install.

SUBMITTALS:
1. SHOP DWGS: detail fabrication and erection of ea mtl fabrication indicated. Include plans, els, sections and dtls of mtl fabrications and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other Sections.
2. SUBMIT STRUCT ANALYSIS DATA indicating compliance w/ design loads and provide shop dwgs signed and sealed by the qualified Professional Engineer responsible for their prep.

QUALITY ASSURANCE:
1. FABRICATOR QUALIFICATIONS: A firm experienced in producing mtl fabrications sim to those indicated for this project and w/ a record of successful in-service performance, as well as sufficient production capacity to produce reqd units.

QUALIFY WELDING PROCEDURES & PERSONNEL according to the following:
1. AWS D1.1, "Structural Welding Code–Steel."
2. AWS D1.3, "Structural Welding Code–Sheet Steel."
3. Certify the welder has satisfactorily passed AWS qualification tests for welding processes involved and if pertinent, has undergone recertification.

PERFORMANCE REQS :
1. STRUCT PERFORMANCE OF MTL STAIRS: Provide mtl stairs capable of withstanding the following struct loads w/o exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply ea load to produce the max stress in ea component of mtl stairs.
   A. Treads and Platforms of Mal Stairs: Capable of withstanding a uniform load of 100 lbf/sf or a concentrated load of 300 lbf on an area of 4" sq, whichever produces the greater stress.
   B. Stair Framing: Capable of withstanding stresses resulting from loads specified above in addition to stresses resulting from railing sys loads.
   C. Limit deflection of treads, platforms and framing members to L/360 or 1/4", whichever is less.

PRODUCTS:
1. EXPOSED MTL SURFACES: For mtl fabrications exposed to view in the completed work, provide materials w/ smooth, flat surfaces w/o blemishes. Do not use materials w/ exposed pitting, seam marks, roller marks, rolled trade names or roughness.
2. RECYCLED CONTENT OF STL PRODUCTS: Postconsumer recycled content plus 1/2 of pre-consumer recycled content not less than 25%.

FERROUS MTL MATERIALS:
1. Stl Plates, Shapes, and Bars: ASTM A 36.
2. Stl Tubing: Cold-formed stl tubing complying w/ ASTM A 500.
3. Stl Pipe: ASTM A 53, standard wt (Schedule 40), unless another wt is indicated or reqd by struct loads.
4. Rolled-Stl Flr Plate: ASTM A 786, rolled from plate complying w/ ASTM A 36 or ASTM A 283, Grade C or D.
5. Stl Bars for Gratings: ASTM A 36.
6. Wire Rod for Grating Crossbars: ASTM A 510.
7. Uncoated, Cold-Rolled Stl Sht: Commercial quality, complying w/ ASTM A 366; or struct quality, complying w/ ASTM A 611, Grade A, unless another grade is reqd by design loads.
8. Uncoated, Hot-Rolled Stl Sht: Commercial quality, complying w/ ASTM A 569; or struct quality, complying w/ ASTM A 570, Grade 30, unless another grade is reqd by design loads.
9. Galv Stl Sht: ASTM A 653, G90 coating, either commercial quality or struct quality, Grade 33, unless another grade is reqd for design loads.

WELDING RODS & BARE ELECTRODES: Select according to AWS specs for mtl alloy welded.

ROUGH HARDWARE: Furnish bent/otherwise custom fabricated bolts, plates, anchors, hangers, dowels & other misc stl and iron shapes as reqd for framing, supporting or anchoring.

FASTENERS: zinc-coated fasteners for int use or galv for ext use or when built into ext walls:
1. Bolts and Nuts: Regular hexagon head type, ASTM A-307, Grade A.
2. Lag Bolts: Sq Heat type, FS FF-B-561.
3. Machine Screws: Cadmium plated stl, FS FF-S-92.
4. Plain Washers: Round carbon Stl FS FF-W-92.
5. Toggle Bolts: Tumble wing type, FS FF-B-588, Type, class and style as reqd.
6. Lock Washers: Helical spring type carbon stl, FS FF-W-84.

CAST-IN-PLACE (CIP) ANCHORS:
1. Anchors capable of sustaining, w/o failure, a load eq to four times the load imposed, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency. Provide threaded or wedge type; galv ferrous castings, of either ASTM A 47 malleable iron or ASTM A 27 cast stl, w/ bolts, washers and shims as needed, hot-dip galv per ASTM A 153.

EXP ANCHORS:
1. Drilled-in anchor bolt and sleeve assembly complying w/ FS FF-S-325, Group VIII (anchors, exp, nondrilling), Type I (internally threaded tubular exp anchor); and machine bolts complying w/ FS FF-B-575, Grade 5) w/ capability to sustain, w/o failure, a load eq to 6 times the load imposed when installed in unit masonry and eq to 4 times the load imposed when installed in conc, as determined by testing per ASTM E 488, conducted by a qualified independent testing agency.

INT LOCATIONS:
1. Carbon-stl components zinc-plated to comply w/ ASTM B 633, Class Fe/Zn 5.

AT LOCATIONS EXPOSED TO WEATHER:
1. Alloy Group 1 or 2 s/s bolts complying w/ ASTM F 593 and nuts complying w/ ASTM F 594 at locations exposed to weather.

FABRICATION OF MISC MTLWORK - GENERAL:
1. SHOP ASSEMBLY: Preassemble items in shop to greatest extent possible to min field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain struct value of joined pieces. Clearly mark units for reassembly and coordinated install.
2. SHEAR & PUNCH MTLS cleanly and accurately. Remove burrs.
3. EASE EXPOSED EDGES to a radius of approximately 1/32", UNO. Form bent-mtl corners to smallest radius possible w/o causing grain separation or otherwise impairing work.
4. WELD CORNERS & SEAMS CONT to comply w/ the following:
   A. Use materials and methods that min distortion and develop strength and corrosion resistance of base metals. Obtain fusion w/o undercut or overlap.
   B. Remove welding flux immediately.
   C. At exposed connections, fin exposed welds and surfaces smooth and blended so no roughness shows after fin and contour of welded surface matches adjacent surface.
5. PROVIDE FOR ANCHORAGE of type indicated; coord w/ supporting structure. Fabricate & space anchoring devices to secure mtl fabrications rigidly in place & to support indicated loads.
6. CUT, REINF, DRILL & TAP MTL FABRICATIONS to receive fin hardware, screws & sim items.
7. FABRICATE JTS that will be exposed to weather in a manner to exclude water or provide weep holes where water may accumulate.
8. EXP ANCHORS: Drilled-in anchor bolt and sleeve assembly complying w/ FS FF-S-325, Group VIII (anchors, exp, nondrilling), Type I (internally threaded tubular exp anchor); and machine bolts complying w/ FS FF-B-575, Grade 5) w/ capability to sustain, w/o failure, a load eq to 6 times the load imposed when installed in unit masonry and eq to 4 times the load imposed when installed in conc, as determined by testing per ASTM E 488, conducted by a qualified independent testing agency.
9. INT LOCATIONS: Carbon-stl components zinc-plated to comply w/ ASTM B 633, Class Fe/Zn
10. AT LOCATIONS EXPOSED TO WEATHER: Alloy Group 1 or 2 s/s bolts complying w/ ASTM F 593 and nuts complying w/ ASTM F 594 at locations exposed to weather.

FABRICATION OF MISC MTLWORK - GENERAL:
1. SHOP ASSEMBLY: Preassemble items in shop to greatest extent possible to min field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain struct value of joined pieces. Clearly mark units for reassembly and coordinated install.
2. SHEAR & PUNCH MTLS cleanly and accurately. Remove burrs.
3. EASE EXPOSED EDGES to a radius of approximately 1/32", UNO. Form bent-mtl corners to smallest radius possible w/o causing grain separation or otherwise impairing work.
4. WELD CORNERS & SEAMS CONT to comply w/ the following:
   A. Use materials and methods that min distortion and develop strength and corrosion resistance of base metals. Obtain fusion w/o undercut or overlap.
   B. Remove welding flux immediately.
   C. At exposed connections, fin exposed welds and surfaces smooth and blended so no roughness shows after fin and contour of welded surface matches adjacent surface.
5. PROVIDE FOR ANCHORAGE of type indicated; coord w/ supporting structure. Fabricate & space anchoring devices to secure mtl fabrications rigidly in place & to support indicated loads
6. CUT, REINF, DRILL & TAP MTL FABRICATIONS to receive fin hardware, screws & sim items.
7. FABRICATE JTS that will be exposed to weather in a manner to exclude water or provide weep holes where water may accumulate.
8. ALLOW FOR THERMAL MOVEMENT resulting from the following max change (range) in ambient and surface temps by preventing buckling, opening up of jts, overstressing of components, failure of connections and other detrimental effects. Base engineering calculation on surface temps of materials due to both solar heat gain and nighttime sky heat loss, Temp Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.
9. FORM EXPOSED WORK TRUE TO LINE & LEVEL w/ accurate angles and surfaces and straight sharp edges.
10. REMOVE SHARP OR ROUGH AREAS on exposed traffic surfaces.
11. FORM EXPOSED CONNECTIONS W/ HAIRLINE JTS, flush and smooth, using concealed fasteners where possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat-head (countersunk) screws or bolts, Locate jts where least conspicuous.
12. MISC STL FRAMING & SUPPORTS: Provide stl framing and supports that are not a part of struct stl framing as necessary to complete the work. Fabricate from struct-stl shapes, plates and bars of welded const, UNO. Fabricate to sizes, shapes and profiles indicated and as necessary to receive adjacent const retained by framing and supports. Cut, drill and tap units to receive hardware, hangers and sim items.
13. CAST-IN-PLACE (CIP) UNITS: When units will be cast into conc or built into masonry, fabricate w/ integrally welded stl strap anchors 1-1/4"-w by 1/4"-thick by 8"-l at 24" OC, UNO. Furnish inserts if units must be installed after conc is placed.
14. LOOSE BEARING & LEVELING PLATES: Provide at stl items bearing on masonry or conc work, Drill plates to receive anchor bolts and for to facilitate grouting. Galv after fabrication.
15. RFTOP UNIT SUPPORT-FRAMES: Provide cont stl-angle frame supports under all rftop HVAC units, rf scuttles, roof smoke vents, skylights, exhaust fans and sim rftop mounted equip. Min angle size shall be 4" x 4" x 3/8", UNO. Field weld angle frames to the adjacent bar joists w/ horiz leg flush w/ top of joists.
16. ANGLE-FRAME AT RFTOP OPENINGS: Provide cont, 4 sided stl-angle frame at all openings in the rf deck larger than 9" round or sq, field welded to the adjacent bar joists. Provide 3" x 3" x 3/8" min angle size, UNO.
17. STL OHD FRAMES: Fabricate frames from min 3/8 "-thick stl plate and/or shapes, fully welded, Plug-weld built-up members and cont weld all exposed jts. Secure removable stops to frame w/ countersunk machine screws, uniformly spaced at not more than 10" OC, Reinf frames and drill and tap as necessary to accept fin hardware. Provide integrally welded stl strap anchors for securing dr frames into adjoining conc or masonry. Extend bo of frames to flr w/ stl angle clips welded to frames for anchoring frame to flr w/ exp shields and bolts. Galv ext stl frames.
18. STL SUPPORTS FOR OHD & GRILLES: Fabricate from stl pipe, tube or channel sections as indicated on the dwgs or as recommended by manuf of dr/grille unit.
19. MISC STL FABRICATIONS & TRIM: UNO, fabricate units from struct-stl shapes, plates and bars w/ cont welded jts and smooth exposed edges, Miter corners and use concealed field splices where possible. Provide cutouts, fittings and anchorages as needed to coord assembly and install w/ other work. Provide anchors, welded to trim, for embedding in conc or masonry const, spaced no more than 6" from ea end, 6" from corners and 24" OC, UNO. Galv ext misc stl trim and in ext walls and where indicated.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@ventialbo.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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ARCHITECTURAL SPECIFICATIONS

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STL STAIRS (INT):
1. PROVIDE COMPLETE STAIR ASSEMBLIES, including mtl framing, hangers, struts, handrails, railings, clips, brackets, bearing plates and other components necessary to support and anchor stairs and platforms on supporting struct. Join components by welding, UNO. Use connections that maintain struct value of joined pieces. Fabricate treads and platforms of ext stairs so finished walking surfaces slope to drain.
2. PREASSEMBLE STAIRS IN SHOP to greatest extent possible to min field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated install.
3. STAIR FRAMING: Fabricate stringers of struct-stl channels, plates or a combination of both, as indicated. Provide closures for exposed ends of stringers. Const platforms of struct-stl channel headers and misc framing members as indicated. Bolt or weld headers to stringers; bolt or weld framing members to stringers and headers. If using bolts, fabricate and join so bolts are not exposed on fin surfaces.
4. INT CONC-FILLED MTL-PAN STAIR TREADS & PLATFORMS: Form risers, sub-tread pans, and sub-platforms from uncoated cold-rolled stl sht of thickness needed to comply w/ performance reqs - but no less than 0.067" (14 ga). Directly weld mtl pans to stringers; locate welds on top of sub-treads where they will be concealed by conc fill. Do not weld risers to stringers. Shape mtl pans to include nosing integral w/ riser, unless nosings are indicated otherwise. Attach abrasive nosings to risers, when indicated.

FIN:
1. COMPLY W/ NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating fin. Fin mtl fabrications after assembly.
2. SEE 09 96 00 HIGH PERFORMANCE COATINGS for all exterior steel finishes.

EXECUTION
1. FASTENING TO IN-PLACE CONST: Provide anchorage devices and fasteners where necessary for securing mtl fabrications to in-place const. Include threaded fasteners for conc and masonry inserts, toggle bolts, through-bolts, lag bolts, wd screws and other connectors.
2. CUTTING, FITTING & PLACEMENT: Perform cutting, drilling & fitting reqd for installing mtl fabrications. Set mtl fabrications accurately in location, alignment and el; w/ edges and surfaces level, plumb, true and free of rack; and measured from established lines and levels. Provide temp bracing or anchors in formwork for items to be built into conc, masonry or sim const.
3. FIT EXPOSED CONNECTIONS accurately together to form hairline jts. Weld connections that are not to be left as exposed jts but cannot be shop welded because of shipping size limitations. Do not weld, cut or abrade surfaces of ext units that have been hot-dip galv after fabrication and are for bolted or screwed field connections.
4. FIELD WELDING: Comply w/ the following reqs:
   A. Use materials and methods that min distortion and develop strength and corrosion resistance of base mtls. Obtain fusion w/o undercut or overlap.
   B. Remove welding flux immediately.
   C. At exposed connections, fin exposed welds & surfaces smooth and blended so no roughness shows after fin & contour of welded surface matches that of adjacent surface.
5. SETTING BEARING & LEVELING PLATES: Clean conc & masonry bearing surfaces of bond-reducing material & roughen to improve bond to surfaces. Clean bot surface of plates. Set bearing & leveling plates on wedges, shims or leveling nuts. After bearing members have been positioned & plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush w/ edge of bearing plate before packing w/ grout. Use non-shrink, non-metallic grout, UNO. Pack grout solidly between bearing surfaces & plates to ensure no voids remain.
6. INSTALL MISC FRAMING & SUPPORTS: Install framing and supports to comply w/ reqs of items being supported, including manuf written instructions and reqs indicated on shop dwgs, if any. Support stl girders on solid grouted masonry, conc or stl pipe cols. Secure girders w/ anchor bolts embedded in grouted masonry or conc or w/ bolts through top plates of pipe cols. Where grout space under bearing plates is indicated at girders supported on conc or masonry, install as specified above for setting and grouting bearing and leveling plates.
7. INSTALL PIPE COLS on conc ftgs w/ grouted baseplates. Position and grout col baseplates as specified above for setting and grouting bearing and leveling plates. Do not grout baseplates of columns supporting stl girders until girders are installed and leveled.
8. FILL BOLLARDS solidly w/ conc, mounding top surface and fin smooth.
9. INSTALL MTL STAIRS by welding stair framing to stl struct or weld plates cast into conc, UNO.
10. FIELD WELDING: Comply w/ applicable AWS spec for procedures of manual shielded mtl arc welding, for appearance & quality of welds & for methods used in correcting welding work. Weld connections not to be left as exposed jts but cannot be shop welded because of shipping size limitations. Grind exposed welded jts smooth and restore fin to match fin of adjacent surfaces.

SECTION 05 73 00 – DECORATIVE METAL RAILINGS
1. WORK INCLUDED: Provide decorative mtl railing sys, where indicated on the dwgs, as specified herein, and as necessary for complete install.
2. CONTROL OF CORROSION: Prevent galvanic action and other forms of corrosion by insulating mtls and other materials from direct contact w/ incompatible materials.

PRODUCTS:
1. COLD-ROLLED STEEL with welded joints. Shapes, sizes, configurations, and finishes per drawings.
2. POWDER-COATED STEEL with welded joints. Shapes, sizes, configurations, and finishes per drawings.

MTL MATERIALS w/ smooth surfaces, w/o seam marks, roller marks, rolled trade names, stains, discolorations or blemishes.
1. S/S: Type 304 min
2. FERROUS MTLS: Stl Plates, Shapes and Bars: ASTM A 36
3. GALV: ASTM A 653, G90 coating
4. ALUM: Provide alloy and temper as recommended by manuf for type of use and fin indicated and w/ strength and durability properties for ea alum form reqd no less than alloy and temper designated below.
5. Extruded bars and shapes (including extruded tubing): ASTM B 221 – Alloy 6063-T5/T52
6. Drawn Seamless Tubing: ASTM B 210 – Alloy 6063-1832
7. Plate and Sht: ASTM B 209 – Alloy 6061-T6

FASTENERS:
1. Alum Components: Type 304 s/s fasteners.
2. S/S Components: Type 304 s/s fasteners.
3. Uncoated Stl Components: Plated-stl fasteners complying w/ ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating where concealed; Type 304 s/s fasteners where exposed.
4. Dissimilar Mtls: Type 304 s/s fasteners.
5. Provide tamper-resistant flat-head machine screws for exposed fasteners, UNO.
6. ANCHORS: Provide cast-in-place or torque-controlled exp anchors, fabricated from corrosion-resistant materials w/ capability to sustain, w/o failure, a load eq to 6xs the load imposed when installed in unit masonry and eq to 4xs the load imposed when installed in conc, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.
7. NATURAL ALUM (MECH) FIN: AA-M3x (mech fin: as specified); sand mtl surfaces in 1 direction only, parallel to length of member, w/ 120- and 320-grit abrasive. After install, polish members w/ No. 0 stl wool immersed in paste wax, then rub to a luster w/ a soft dry cloth.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

DIVISION 06: WOOD, PLASTICS AND COMPOSITES
SECTION 06 10 00 – ROUGH CARPENTRY
1. PROVIDE wd framing, nailers, blocking, backing and plywd which is generally not exposed to view, as reqd for completion of the work, where noted on the dwgs and specified herein.
2. LUMBER: Comply w/ PS 20 of "American Softwood Lumber Standard" and w/ applicable grading rules of Inspection agencies certified by the ALSC board of Review. Provide dressed lumber, S4S typ, seasoned w/ 19% moisture content for sizes 2" or less.
3. WD & TIMBER FRAMING: Douglas fir-larch, No. 2 or better grade, UNO.
4. BLOCKING LUMBER for support or attachment of other const, including rooftop equip bases & support curbs, blocking, cants, nailers, furring and grounds, provide dim lumber of const, stud, or No. 2 grade w/ 19% max moisture content and of any of the following species: Mixed southern pine; SPIB. Hem-fir or hem-fir (north); NLGA, WCLIB, or WWPA. Spruce-pine-fir (south) or spruce-pine-fir; NELMA, NLGA, WCLIB or WWPA. Eastern softwds; NELMA. Northern species; NLGA. Western wds; WCLIB or WWPA.
5. ELECT EQUIP BACKING PNLS: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4" thick.
6. PROVIDE ENGINEERED WD FRAMING UNITS per struct dwgs & specs.
7. LAMINATED VENEER LUMBER (LVL) per struct dwgs & specs.
8. PARALLEL-STRAND LUMBER (PSL) per struct dwgs & specs.
9. PREFABRICATED WD I-JOIST (TJI) per struct dwgs & specs.

WD-PRESERVATIVE-TREATED MATERIALS:
1. PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA C2 (lumber) and AWPA C9 (plywd), except lumber not in contact w/ the ground and is cont protected from liquid water may be treated according to AWPA C31 w/ inorganic boron. Use preservative chemicals acceptable to AHJ and containing no arsenic or chromium and 1 of the following: Ammoniacal or amine, copper quat, Copper bis, Ammoniacal copper citrate, Copper azole, Type A, Oxine copper in a light petroleum solvent.
2. FOR EXPOSED ITEMS PRESERVATIVE ITEMS noted to receive a stained or natural fin, use chemical formulations that do not req incising, contain colorants, bleed through or otherwise adversely affect fin.

3. KILN-DRY MATERIAL AFTER TREATMENT to a max moisture content of 19% for lumber & 15% for plywd. Do not use material that is warped or does not comply w/ reqs for untreated material. Mark ea treated item w/ the treatment quality mark of an inspection agency approved by the American Lumber Standards Committee Board of Review.
4. TREAT ITEMS INDICATED on dwgs and the following: Wd cants, nailers, curbs, equip support bases, blocking, stripping,etc. in connection w/ roofing, flashing, vapor barriers and waterproofing. Wd sills, sleepers, blocking, furring, stripping and sim concealed members in contact w/ masonry or conc.
5. FASTENERS: of size and type indicated that comply w/ following reqs of material & manuf. Where rough carpentry is exposed to weather, in ground contact or in area of high relative humidity, provide fasteners w/ hot-dip zinc coating complying w/ ASTM A 153/A 153M.
   - Nails, Brads and Staples: ASTM F 1667.
   - Power-Driven Fasteners: CABO NER-272.
   - Wd Screws: ASME B18.6.1.
   - Screws for Fastening to Cold-Formed Mtl Framing: ASTM C 954, except w/ wafer heads and reamer wings, length per screw manuf for material being fastened.
   - Lag Bolts: ASME B18.2.1. (ASME B18.2.3.8M).
   - Bolts: Stl bolts complying w/ ASTM A 307, Grade A (ASTM F 568M); w/ ASTM A 563 (ASTM A 563M) hex nuts and where indicated, flat washers.
6. EXP ANCHORS: Anchor bolt & sleeve assembly of material indicated below w/ capability to sustain, w/o failure, a load eq to 6xs the load imposed when installed in unit masonry assemblies and eq to 4xs the load imposed when installed in conc as determined by ASTM E 488 conducted by a qualified independent agency. Material: Carbon-stl components, zinc plated per ASTM B 633, Class Fe/Zn 5.
7. PROVIDE MTL FRAMING ANCHORS made from mtl indicated, of struct capacity, type and size indicated and as follows: Provide products acceptable to AHJ and for which model code research/evaluation reports exist that show compliance of mtl framing anchors for application indicated w/ bldg code in effect for project. Allowable Design Loads: Provide products w/ allowable design loads, as published by manuf that meet or exceed those indicated. Manuf published values must be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency. Galv Stl Sht: Hot-dip, zinc-coated stl sht complying w/ ASTM A 653, G60 coating designation. B.O.D: "Simpson Strong Tie Co."
8. SILL SEALER (provide cont at bot wall plate abutting conc): Closed-cell neoprene foam, 1/4" thick, in width to match bot plate width.

EXECUTION:
1. SET ROUGH CARPENTRY to reqd levels and lines, w/ members plumb, true to line, cut and fitted. Fit rough carpentry to other const; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, etc, to comply w/ reqs for attaching other const.
1. DO NOT USE MATERIALS w/ defects that impair quality of rough carpentry or pieces that are too small to use w/ min number of jts or optimum jt arrangement.
2. APPLY FIELD TREATMENT complying w/ AWPA M4 to cut surfaces of preservative-treated lumber and plywd.
3. SECURELY ATTACH ROUGH CARPENTRY WORK to substrate by anchoring and fastening indicated, complying w/ Table 2304.9.1, "Fastening Schedule," in ICC's IBC.
4. USE COMMON WIRE NAILS, UNO. Select fasteners size that will not fully penetrate members where opp side will be exposed to view or will receive fin materials. Make tight connections. Install fasteners w/o splitting wd - predrill as reqd.

WD SLEEPER, BLOCKING & NAILER INSTALL:
1. INSTALL WHERE INDICATED and where reqd for attaching other work. Form to shapes indicated and cut as reqd for true line and level of attached work.
2. ATTACH ITEMS TO SUBSTRATES to support applied loading. Recess bolts & nuts flush w/ surfaces, UNO. Build anchor bolts into masonry during install of masonry work. Where possible, secure anchor bolts to formwork before conc placement.
3. PROVIDE PERMANENT GROUNDS of dressed, pressure-preservative-treated, key-beveled lumber not less than 1 1/2"-w and of thickness reqd to bring face of ground to exact thickness of fin material. Remove temp grounds when no longer reqd.

WD FRAMING, GENERAL:
1. PROVIDE FRAMING MEMBERS of sizes and on spacing shown, and frame openings as shown or if not shown, comply w/ recommendations of "Manual for House Framing" of National Forest Products Association. Do not splice struct members between supports.
2. ANCHOR & NAIL as shown & to comply w/ "Recommended Nailing Schedule" of "Manual for House Framing" & "National Design Specifications for Wood Construction" published by NFPA.

STUD FRAMING:
1. GENERAL: Provide framing of size and spacing indicated or, UNO of the following sizes and spacing: Arrange studs so wide face of is perp to direction of wall or partition and narrow face is parallel. Provide single bot plate and double top plates using 2" thick members w/ widths eq of studs; except single top plate may be used for non-load-bearing partitions. Nail or anchor plates to supporting const.
2. CONST CORNERS and intersections w/ not less than 3 studs. Provide misc blocking & framing as shown & as reqd for support of facing materials, fixtures, specialty items and trim.
3. FRAME OPENINGS w/ multiple studs and headers. Provide nailed header members of thickness eq to width of studs. Set headers on edge and support on jamb studs.
4. FOR NON-BEARING partitions, provide double-jamb studs and headers not less than 4" deep for openings 3' and less in width and not less than 6"-d for wider openings.
5. FOR LOAD-BEARING partitions, provide double-jamb studs for openings 6' and less in width and triple-jamb studs for wider openings. Provide headers of depth shown.
6. PROVIDE FIRESTOPS no less than 2" nom thickness and no less in width than the enclosed spaces w/in partitions. Provide cont rows of bridging to form a complete and effective separation in the entire width of partitions, placed so there will be no concealed air spaces greater than 8' in vert dim. Intermediate stops may be in line w/ opening headers. Provide furred spaces between stud walls and partitions w/ cont firestops at the same el as those in the enclosing walls which must be installed horiz, thus forming a solid stop from outside to outside of studs. Fire stop all partitions at all suspended clg sys locations.

CLG JOIST & RAFTER FRAMING: Install per struct dwgs & specs.

SECTION 06 11 00 – WOOD FRAMING
PROVIDE wd framing, nailers and plywd which is generally not exposed to view, as reqd for completion of the work, where noted on the dwgs and specified herein.
REFER TO specifications and requirements outlined in structural dwgs in addition to these specifications. Where there is conflict in information or instruction, confirm expectations with the Architect.
DEFINITIONS:
- EXPOSED FRAMING: Framing not concealed by other const.
- DIM LUMBER: Lumber of 2" nom or greater but less than 5" nom in least dim.
- TIMBER: Lumber of 5" nom or greater in least dim.
1. LUMBER GRADING AGENCIES and the abbreviations to reference them, include:
   - NeLMA: Northeastern Lumber Manufacturers Association.
   - NLGA: National Lumber Grades Authority.
   - RIS: Redwood Inspection Service.
   - SPIB: The Southern Pine Inspection Bureau.
   - WCLIB: West Coast Lumber Inspection Bureau.
   - WWPA: Western Wood Products Association.
2. QUALITY ASSURANCE - TESTING AGENCY QUALIFICATIONS: For testing agency providing classification marking for fire retardant treated material, an inspection agency acceptable to AHJ that periodically performs inspections to verify the material bearing the classification marking is representative of the material tested.
3. DELIVERY, STORAGE & HANDLING: Stack lumber flat w/ spacers beneath and between ea bundle to provide air circulation. Protect lumber from weather by covering w/ waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PRODUCTS:
1. LUMBER STANDARD: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies w/ the applicable rules of any rules writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
   - Factory mark ea piece of lumber w/ grade stamp of grading agency.
   - Where nom sizes are indicated, provide actual sizes reqd by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are min dressed sizes for dry lumber.
   - Max Moisture Content of Lumber: 19%, UNO.
2. WD FURRING: Provide strips for installing plywd or paneling, select bds w/ no knots capable of producing bent-over nails and damage to pnls.

DIM LUMBER FRAMING:
1. NON-LOAD-BEARING INT PARTITIONS: Stud grade, of any of the following:
   - Hem-fir (north); NLGA.
   - Mixed southern pine; SPIB.
   - Spruce-pine-fir; NLGA.
   - Hem-fir; WCLIB or WWPA.
   - Spruce-pine-fir (south); NeLMA, WCLIB or WWPA.
   - Northern species; NLGA.
   - Eastern softwds; NeLMA.
   - Western wds; WCLIB or WWPA.

2. LOAD-BEARING / STRUCT WD FRAMING, WALLS OR PARTITIONS (ext walls or int load-bearing partitions): Any species w/ the following min design values, unless greater values are indicated in the struct dwgs:
   - STUD GRADE: Modulus of elasticity = 1,200,000psi, Allowable Fiber Stress in Compression = 675 psi
   - NO. 2 GRADE: Modulus of elasticity = 1,400,000psi, Allowable Fiber Stress in Compression = 900 psi
   - JOISTS, RAFTERS & OTHER FRAMING not listed above: Any species & grade w/ a modulus of elasticity of at least 1,600,000 psi & an allowable fiber stress in bending of 900psi.
3. MAX WD-STUD LATERALLY-UNSUPPORTED HT LIMITS (IBC Table 2308.9.1) or w/ the most restrictive reqs of the struct dwg limits (whichever is more stringent).
4. PLYWOOD SUBFLOOR / UNDERLAYMENTS
   - SPAN RATING: per structural
   - THICKNESS: Not less than 3/4" nom.
   - EDGE DTL: Tongue and groove.
5. SHEAR WALL PNLS: Provide wd-framed units consisting of a prefabricated assembly of wd perimeter framing, tie downs and Struct I plywd or OSB sheathing.

FASTENERS:
1. PROVIDE FASTENERS OF SIZE & TYPE INDICATED that comply w/ reqs specified in this article for material and manuf. Provide nails or screws, in sufficient length, to penetrate not less than 1-1/2" inches into wood substrate. Where rough carpentry is exposed to weather, in ground contact or in area of high relative humidity, provide fasteners w/ hot-dip zinc coating complying w/ ASTM A 153/A 153M.
   - Nails, brads and staples: ASTM F 1667.
   - Power-driven fasteners: CABO NER-272.
   - Wd screws: ASME B18.6.1.
   - Screws for fastening to cold-formed mtl framing: ASTM C 954, except w/ wafer heads and reamer wings, length as recommended by screw manuf for material being fastened.
   - Lag bolts: ASME B18.2.1, (ASME B18.2.3.8M).
   - Bolts: Stl bolts complying w/ ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); w/ ASTM A 563 (ASTM A 563M) hex nuts and where indicated, flat washers.
2. EXP ANCHORS: Anchor bolt and sleeve assembly of material indicated below w/ capability to sustain, w/o failure, a load eq to 6xs the load imposed when installed in unit masonry assemblies and eq to 4xs the load imposed when installed in conc as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
3. MATERIAL: Carbon-stl components zinc plated to comply w/ ASTM B 633, Class Fe/Zn 5.

MTL FRAMING ANCHORS: Provide units made from mtl indicated, of struct capacity, type and size indicated and as follows:
1. PROVIDE PRODUCTS ACCEPTABLE TO AHJ and for which model code research / evaluation reports exist that show compliance of mtl framing anchors, for application indicated, w/ bldg code in effect for project.
2. ALLOWABLE DESIGN LOADS: Provide products w/ allowable design loads, as published by manuf that meet or exceed indicated. Manuf published values must be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
3. MANUF: The CDs are based on the use of products manuf by "Simpson Strong Tie Co." Pending compliance w/ reqs herein, the following manuf are also acceptable:
   a. Cleveland Steel Specialty Co.
   b. KC Metals Products, Inc.
   c. Phoenix Metal Products, Inc.
   d. USP Structural Connectors.

MTL FRAMING ANCHOR FIN:
1. For int locations: Hot-dip, zinc-coated stl sht complying w/ ASTM A 653, G60 (Z180) coating designation.
2. At wd-preservative-treated (TRT) lumber and where indicated: Heavy-galvanized stl sht complying w/ ASTM A 653 - struct stl, high-strength, low-alloy stl Type A (HSLAS Type A) or high-strength low-alloy stl Type B (HSLAS Type B); G185 (Z550) coating designation; and no less than 0.036" thick.
3. JOIST HANGERS: U-shaped joist hangers w/ 2"-l seat and 1 1/4"-w nailing flanges at least 85% of joist depth - thickness: 0.062".
4. I-JOIST HANGERS: U-shaped joist hangers w/ 2"-l seat and 1 1/4"-w nailing flanges full depth of joist, w/ nailing flanges to provide lateral support at joist top chord - thickness: 0.062".
5. TOP FLANGE HANGERS: U-shaped joist hangers, full depth of joist, formed from mtl strap w/ tabs bent to extend over & be fastened to supporting member. Strap Width: 2"; thickness: 0.062".
6. BRIDGING: Rigid, V-section, nail-less type, 0.050" thick, length to suit joist size and spacing.
7. POST BASES: Adjustable-socket type for bolting in place w/ standoff plate to raise post 1" above base and w/ 2" min side cover, socket 0.062" thick and standoff and adjustment plates 0.108" thick.
8. JOIST TIES: Flat straps, w/ holes for fasteners, for tying joists together over supports - Width: 1-1/4"; thickness: 0.062"; Length: 16".
9. FLR-TO-FLR TIES: Flat straps, w/ holes for fasteners, for tying upper flr wall studs to band joists and lower flr studs, 1 1/4"-w by 0.050" thick by 36"-l.
10. WALL BRACING: Either T-shaped bracing made for letting into studs in saw kerf, 1 1/8"-w by 9/16"-d by 0.034" thick w/ hemmed edges or angle bracing made for letting into studs in saw kerf, 15/16" x 15/16" by 0.040" thick w/ hemmed edges.

FRAMING ACCESSORY MATERIALS:
1. SILL SEALER: Glass fiber resilient insul fabricated in strip form, 1" nom thickness compressible to 1/32" thick or closed-cell neoprene foam of 1/4" thick, selected from manuf standard widths to suit width of sill members indicated.
2. ADHESIVES FOR GLUING FURRING & SLEEPERS TO CONC MASONRY: Formulation complying w/ ASTM D 3498 that is approved for use indicated by adhesive manuf.
3. WATER-REPELLENT PRESERVATIVE: NWWDA-tested and accepted formulation containing 3-iodo-2-propynyl butyl carbamate combined w/ an insecticide containing chloropyrifos as its active ingredient.

EXECUTION / INSTALLATION
1. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
2. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
3. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant-treated plywood backing panels with classification marking of testing agency exposed to view.
4. Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
5. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
   A. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches o.c.
6. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
   A. Use inorganic boron for items that are continuously protected from liquid water.
   B. Use copper naphthenate for items not continuously protected from liquid water.
7. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
8. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
   A. Table 2304.10.1, "Fastening Schedule," in ICC's International Building Code (IBC).

INSTALLATION OF WOOD BLOCKING AND NAILERS
1. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

INSTALLATION OF WOOD FURRING
1. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.

PROTECTION
1. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

SECTION 06 16 00 – SHEATHING WITH INTEGRAL WRB
SECTION INCLUDES
1. Wall sheathing.
2. Gypsum wall sheathing.
3. Sheathing joint-and-penetration treatment materials.

ACTION SUBMITTALS
1. Product Data Submittals: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
2. Shop Drawings: For air-barrier and water-resistant glass-mat gypsum sheathing assemblies.
   A. Show locations and extent of sheathing, accessories, and assemblies specific to Project conditions.

   A. Include details for sheathing joints and cracks, counterflashing strips, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
   B. Include details of interfaces with other materials that form part of air barrier.

INFORMATIONAL SUBMITTALS
1. Evaluation Reports: For the following, from ICC-ES:
   A. Wood-preservative-treated plywood.
   B. Fire-retardant-treated plywood.
   C. Air-barrier and water-resistant glass-mat gypsum sheathing.

DELIVERY, STORAGE, AND HANDLING
1. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PRODUCTS
PERFORMANCE REQUIREMENTS
1. Fire-Resistance Ratings: As tested according to ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   A. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

PLYWOOD WITH INTEGRAL WRB
1. GENERAL: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
2. BASIS OF DESIGN
   A. ZIP System sheathing by Huber Engineered Woods, LLC.
   B. Panel thickness: 5/8" UNO on drawings.

WALL SHEATHING
1. Gypsum Sheathing: Exterior Glassmat Sheathing with Integral Weather-Resistive Barrier.
   A. Basis of Design: Securock ExoAir 430 - 5/8-inch Firecode X panel.

FASTENERS
1. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
   A. For wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS
1. Sealant for Paper-Surfaced Gypsum Sheathing: Elastomeric, medium-modulus, neutral-curing silicone joint sealant compatible with joint substrates formed by gypsum sheathing and other materials, recommended by sheathing manufacturer for application indicated and complying with requirements for elastomeric sealants specified in Section 079200 "Joint Sealants."

EXECUTION / INSTALLATION
1. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
2. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
3. Securely attach to substrate by fastening as indicated, complying with the following:
   A. Table 2304.9.1, "Fastening Schedule," in the ICC's International Building Code.
   B. ICC-ES evaluation report for fastener.
4. Coordinate wall sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
5. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

GYPSUM SHEATHING INSTALLATION
1. Comply with GA-253 and with manufacturer's written instructions.
   A. Fasten gypsum sheathing to wood framing with nails or screws.
   B. Fasten gypsum sheathing to cold-formed metal framing with screws.
   C. Install panels with a 3/8-inch (9.5-mm) gap where non-load-bearing construction abuts structural elements.
   D. Install panels with a 1/4-inch (6.4-mm) gap where they abut masonry or similar materials that might retain moisture, to prevent wicking.
2. Seal sheathing joints according to sheathing manufacturer's written instructions.
   A. Apply elastomeric sealant to joints and fasteners and trowel flat. Apply sufficient amount of sealant to completely cover joints and fasteners after troweling. Seal other penetrations and openings.
   B. Apply glass-fiber sheathing tape to glass-mat gypsum sheathing joints and apply and trowel sealant to embed entire face of tape in sealant. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and openings.

06 40 00 – ARCHITECTURAL WOODWORK
1. WORK INCLUDED: Provide arch wdwork req quality, expert craftsmanship and joinery skills, where indicated on the dwgs, as specified herein as necessary for complete install.
2. PRIMING & FIN: Note all wdwork must be sealed on all surfaces before install - incl the back-or mounting side, the joining edges and at all field-cut ends, w/o exception. Re Div-09 for materials & application of shop and/or field applied fin.
3. QUALITY STANDARD: UNO, comply w/ "Custom Grade" standards of applicable provisions of the Architectural Woodwork Institute (AWI)'s "Architectural Woodwork Quality Standards" for const, fin and other reqs.
4. DO NOT DELIVER INT WDWORK until bldg is enclosed, wet work is complete and HVAC sys is operating and maintaining temp and relative humidity at occupancy levels during the remainder of the const period. If wdwork must be stored in other than install areas, store only in areas where environmental conditions comply w/ reqs herein.
5. MISC WD MATERIALS: Provide units that comply w/ reqs of AWI quality standard for ea type of wdwork/quality grade indicated and w/ reqs of the following referenced product standards: typ hardboard: AHA A135.4, medium-density fiberboard: ANSI A208.2, Grade MD, particlebd: ANSI A208.1, Grade M-2, softwd plywd: DOC PS 1, Medium Density Overlay, Int hardwd plywd and face veneers: HPVA HP-1.
6. EXT APPLICATIONS: Softwd Plywd: DOC PS 1, - Ext type, Medium-density overlay plywd: ext softwd plywd w/ MDO surface both sides.
7. EXT TRIM FOR OPAQUE (PT) FIN: Prefin cement fiber or cellular PVC units in sizes and profiles indicated and in max lengths available to min field jts and splices, in smooth fin, UNO, to be of wd-grain textured fin: cement-fiber trim by "HardieTrim". Cellular PVC per: "Azek Trimboards", "Fypon Cellular PVC Trim".
8. WD SPECIES & FIN FOR NATURAL (STAINED) FIN: Re dwgs – smooth surfaced fin typ on all sides UNO to be "rough" or "textured" on exposed face surface.
9. WD MATERIAL FOR INT HIGH-GLOSS OPAQUE FIN: Waterproof MDF eq to "Medex" by SierraPine Composite Solutions.
10. WD GRADING: Natural characteristics are acceptable, but face knots and knot holes, chipped edge knots, short end splits, planer burns, etc. are not acceptable.

INSTALL MATERIALS:
1. Ext nails or screws: Type 304 s/s.
2. At mtl framing supports, provide self-drilling screws mtl-framing manuf.
3. Anchors: Select material, type, size and fin reqd for ea substrate for secure anchorage, penetrating a min of 1 1/4" into wd substrate materials. Provide toothed-stl or lead exp sleeves for drilled-in-place anchors.
4. Power nailing sys are permitted using fasteners w/ eq or greater performance characteristics of typ nails.

FABRICATION: Provide and maintain units w/ 7 to 12% moisture content typ. Comply w/ AWI Section 300, Custom grade, UNO or other AWI reqs as applicable:
1. Fabricate wdwork to dims, profiles and dtls indicated.
2. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except at ends exposed in fin work.
3. At ext trim members, provide a min 10 deg positive slope on horiz surfaces to provide positive drainage & to prevent moisture accumulation on trim members.
4. At transparent fin frames or jambs wider than available lumber, use veneered const - do not glue units for reqd width.
5. Typ, ease edges to min 1/16" except, UNO.
6. Complete fab, including assembly, fin & hardware application, to max extent possible, before shipment to project site. Disassemble components only as necessary for shipment and install.
7. Where necessary for fitting at site, provide allowance for scribing, trimming and fitting.

FAB OF NATURAL-FIN INT WD PNL & WAINSCOTS: Comply w/ AWI Section 500-Custom Grade reqs, w/ solid-wd lumber trimmed edges: matching of adjacent veneer leaves: book match. Vert matching of adjacent veneerleaves: end match. Veneer matching w/in pnl face: ctr match. Pnl-matching method: Match pnls w/in ea separate area using premanuf sets used full width.
1. HDWD SHELVES: 3/4" thick hardwd veneered plywd (both sides), w/ an exposed, 1 1/2"-h hardwd edge trim on the exposed face.
2. PLAM/HDWD EDGED SHELVES: 3/4" thick thermoset decorative pnl exposed to bot surface w/ NEMA LD-3 grade high-pressure PLAM fin on top surface & w/ 3/4 x 1 1/2"-h hardwd face trim.
   A. PLAM SHELVES: 3/4" thick thermoset decorative pnl exposed to bot surface w/ NEMA LD-3 grade high-pressure PLAM fin on top surface – self-edged w/ 3-mil PVC tape matching PLAM.

SHOP PRIMING:
1. WDWORK FOR TRANSPARENT FIN: Shop seal wdwork for transparent fin w/ stain (if reqd), other reqd pretreatments and first coat of fin as specified.
2. PREP FOR FIN: Comply w/ referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces and sim preps for fin architectural wdwork, as applicable to ea unit of work.
3. BACKPRIMING: Apply 1 coat of sealer or primer, compatible w/ fin coats, to all concealed surfaces of int or ext wdwork before install.

EXECUTION:
1. INSTALL WDWORK TRUE & STRAIGHT w/ no distortions. Shim as reqd w/ concealed shims. Install level & plumb to a tolerance of 1/8" in 96". Scribe and cut wdwork to fit adjoining work and refinish cut surfaces or repair damaged fin at cuts.
2. INSTALL STANDING & RUNNING TRIM w/ min # of jts possible, using full-length pieces to the greatest extent possible. Cut into the exposed face of the trim-bd material. Do not route-out over 5/16" of trim material. Locate all jts over a solid framing member & double-nail ea side of jt. Stagger jts in adjacent and related members. Cope at returns, miter at corners and use scarf jts for end to end jts, to provide tight fitting jts w/ full surface contact throughout length of jt.
3. DO NOT APPLY EXT WD TRIM over wet sheathing or closer than 6" from fin grade, unless material is preservative treated. Do not apply wd directly over conc or masonry – separate w/ a 28 ga mtl flashing or 15-mil polyethylene film.
4. ANCHOR WDWORK to anchors or blocking built in or directly attached to substrates. Do not use staples or T-nails. Secure to grounds, stripping & blocking w/ countersunk, concealed fasteners & blind nailing. Use fine fin nails for exposed nailing, countersunk & filled flush w/ wdwork. Double nail all trim at 16" max on-ctr, w/ an additional nail on bds over 12" nom thickness. Do not nail into a cut edge of trim material. Anchor between 1/2 min to 2" max from the edge - penetrating 1 1/4" min into wd substrate or no less than 3 screw-threads through mtl framing. Anchor trim from 1-end to the other – do not nail towards the ends from the ctr.
5. SEAL ALL EXT TRIM members to prevent water intrusion on all sides. Do not allow water to stand or to leak behind trim units. Seal all butt-jts and where trim abuts siding, wdw frames, dr frames or sim conditions.
6. COMPLETE FIN WORK specified in this section to the extent not completed at shop or before install of wdwork.
7. At both int and ext applications, verify all edges and backs of members are sealed and if not, field-apply sealer before install.
8. Field-apply sealer to all field-cut wd surfaces before install so all edges of wd members will be protected from moisture infiltration and damage.
9. Where exposed, fill nail & screw holes w/ filler that will fin in color sim to adj wdwork.

SECTION 06 41 00 – ARCHITECTURAL WOOD CASEWORK
1. PROVIDE CUSTOM-FABRICATED ARCH WD CASEWORK req quality craftsmanship and joinery, where indicated in the dwgs and as specified herein.
2. QUALITY ASSURANCE: UNO, provide arch wdwork in compliance w/ The Architectural Woodwork Institute's "Quality Standards" Section 400 – Custom Grade.
3. ENVIRONMENTAL LIMITATIONS: Do not deliver or install wdwork until bldg is enclosed, wet work is complete and HVAC sys is operating and maintaining temp and relative humidity at occupancy levels during the remainder of the const period.
4. PROVIDE MATERIALS THAT COMPLY w/ reqs of the AWI quality standard for ea type of wdwork and quality grade specified, UNO.
5. TYP SUBSTRATE MATERIAL: 3/4" thick min MDF complying w/ ANSI A208.1 Grade M-2 w/ no added urea formaldehyde (NAUF).
6. WATERPROOF MDF: For countertop substrate and at dr, drawer end and other exposed components of opaque ptd cabinets, provide water-proof formaldehyde-free MDF as follows: "Medex" by SierraPine Composite Solutions.
7. THERMOSET DECORATIVE OVERLAY PNLS (typ fin of cabinet int): Particlebd complying w/ ANSI A208.1, Grade M-2, or MDF complying w/ ANSI A208.2, Grade MD, w/ surface of thermally fused, melamine-impregnated decorative paper complying w/ LMA SAT-1. NAUF.
8. Provide material/color as indicated on the dwgs. If not indicated, provide color as selected by architect from manuf full range of available color options.
9. HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3, grades as indicated, or if not indicated, as reqd by wdwork quality standard. Provide manuf and color/series (including solid-color core materials) and surface fin as indicated on the dwgs.
10. AUTOMOTIVE LIKE WDWORK FIN: Opaque conversion varnish fin. Re dwgs. Apply only to "Medex" waterproof particlebd substrate. B.O.D: AcromaPro (AP).
11. HDWD SPECIES AND CUT FOR TRANSPARENT FIN: Re dwgs.
12. HDWD VENEER PLYWD: Min 3/4" thick hardwd veneer plywd, w/ min 1/4" matching hardwd edging typ – in species and cut matching typ hardwd species / cut indicated above, UNO.
13. WD SPECIES FOR OPAQUE FIN: Poplar or other eq closed-grain hardwd.
14. MISC WD MATERIALS: hardbd: AHA A135.4. MDF: ANSI A208.2, Grade MD. particlebd (PBD): ANSI A208.1, Grade M-2. softwd plywd: DOC PS 1, Medium Density Overlay. hardwd plywd and face veneers: HPVA HP-1.
15. ADHESIVE: For bonding PLAM: contact cement. For bonding edges: Hot-melt adhesive.

INSTALL MATERIALS:
1. FURRING, BLOCKING, SHIMS & HANGING STRIPS: Softwd or hardwd lumber, kiln-dried to less than 15% moisture content.
2. ANCHORS: Select material, type, size and fin reqd for ea substrate for secure anchorage. Provide nonferrous-mtl or hot-dip galv anchors and inserts on inside face of ext walls and elsewhere as reqd for corrosion resistance. Provide toothed-stl or lead exp sleeves for drilled-in-place anchors.
3. CABINET HARDWARE & ACCESSORIES: Per BHMA A156.9 for items indicated by BHMA ref #s or as indicated in the dwgs: frameless concealed hinges (European type): BHMA A156.9, B01602, 170 deg (min) of opening, self-closing.
4. Back-mounted pulls: Provide typ cabinet pull units and in fin as indicated on the dwgs or as selected by architect. Adjustable shelf standards and clip-type supports: BHMA A156.9, B04071; w/ shelf rests, B04081. Adjustable shelf standards and brackets: BHMA A156.9, B04102; w/ shelf brackets, B04112. Shelf rests for drilled holes: BHMA A156.9, B04013. Soft-closing drawer slides: Side-mounted, full-extension – soft-closing unit, zinc-plated stl drawer slides w/ stl ball bearings, BHMA A156.9, B05091 and rated for the following loads: box drawer slides: 100 lbf. file drawer slides: 200 lbf.
5. TYP FABRICATION OF WD CABINETS FOR TRANSPARENT FIN: Comply w/ AWI Section 400, Custom Grade and as follows: AWI type of cabinet const: frameless style, flush overlay, UNO. Grain matching: run & match grain vert for drawer fronts, drs and fixed pnls, UNO. Matching of veneer leaves: book match. Vert matching of veneer leaves: end match.
6. TYP FABRICATION OF WD CABINETS FOR OPAQUE FIN: Comply w/ AWI Section 400, Custom Grade reqs for wd cabinets and as follows: AWI type of cabinet const: framless (face frame) w/ flush overlay, UNO. WD PNLS for drs, drawers, cabinet sides and other exposed surfaces: waterproof MDF.
7. PLASTIC-LAMINATE (PLAM) CABINETS: Comply w/ AWI Section 400 – Custom Grade reqs for PLAM cabinets.
8. AWI type of cabinet const: framless w/ flush overlay.

SHOP PRIMING:
1. WDWORK FOR TRANSPARENT FIN: Shop seal wdwork for transparent fin w/ stain (if reqd), other reqd pretreatments and first coat of fin as specified.
2. PREP FOR FIN: Comply w/ referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces and sim preps for fin arch wdwork, as applicable to ea unit of work.
3. BACKPRIMING: Apply 1 coat of sealer or primer, compatible w/ fin coats, to all concealed surfaces of int or ext wdwork before install.

INSTALL OF CASEWORK:
1. SHOP FABRICATE casework to dims, profiles and dtls indicated on shop dwgs. Where necessary for fitting at site, provide ample allowance for scribing, trimming and fitting. Complete fabrication, fin, hardware application and other work before shipment to project site to max extent possible.
2. SHOP ASSEMBLY OF CASEWORK: Completely assemble casework in shop prior to shipment to project site. Mark individual items in sequence w/ removable materials to facilitate field assembly. Shop fit glass in casework, remove and package to protect from breakage, clearly marked to facilitate field install.
3. COUNTERTOP CUTOUTS: To the greatest extent possible, make countertop cutouts in the factory, w/ all exposed edges completely sealed against potential water between fin surface & substrate and substrate & web frame, as applicable.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.
1. INSTALL the work plumb, level, true and straight w/ no distortions. Shim as reqd using concealed shims. Install to a tolerance of 1/8" in 8' for plumb and level and w/ 1/16" max offset in flush adj surfaces and 1/8" max offsets in revealed adj surfaces.

06 61 73 – STONE AND QUARTZ FABRICATIONS
1. WORK INCLUDED: Provide custom-fabricated engineered stone (quartz) and natural stone fabrications for countertops, wdw stools and at locations where indicated on the dwgs, as specified herein and as necessary for complete install.

PROJECT CONDITIONS:
1. Environmental Limitations: Do not deliver or install engineered stone materials until bldg is enclosed, wet work is complete and HVAC sys is operating and maintaining temp and relative humidity at occupancy levels during the remainder of the const period.

Temp shall be between 50-95 deg F for 48 hrs before, during & for min 7 days after install.
1. Locate concealed framing, blocking and reinf to support engineered stone work by field measure before being enclosed and indicate measurements on shop dwgs.

WARRANTY: For Quartz Engineered Stone: Provide 10 yr warranty against defects in materials and workmanship.
PRODUCTS:
1. ADHESIVES - GENERAL: Use only adhesives formulated for stone and tiling and recommended by their manuf for the application indicated, having a VOC content 65 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
2. WATER-CLEANABLE EPOXY ADHESIVE: ANSI A118.3, water-cleanable, tile-setting epoxy adhesive.
3. STONE SEAM ADHESIVE: 2-part, epoxy/polyester stone adhesive w/ an initial set time of no more than 2 hrs at 70 deg. Provide in color as recommended by fabricator to match color of countertop.
4. COUNTERTOP SEALANT: Clear silicone sealant complying w/ reqs of Div-07.
5. SEAMS: Fab countertops w/o seams to the greatest extent feasible. If seams are reqd, fab sections for joining in field, w/ bonded seams of 1/32" or less in width.
6. COUNTERTOP CUTOUTS: Fabricate countertop cutouts in the factory w/ all exposed edges polished.
7. UNDERCOUNTER LAVATORIES: Make cutouts in shop using template or pattern furnished by manuf. Form cutouts to smooth, even curves w/ edges at right angles to top. Ease juncture of cutout edges w/ tops and fin edges to match tops.
8. FITTINGS: Drill countertops in shop for plumb fittings, undercounter soap dispensers & sim items.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.
INSTALL:
1. INSTALL COUNTERTOPS over plywd sub-tops w/ a full spread of water-cleanable epoxy adhesive. Bond seams w/ seam adhesive and draw tight as countertops are set. Mask areas of countertops adj to seams to prevent adhesive smears. Use clamps to ensure countertop units are properly aligned and seams are a min width.
2. INSTALL BACKSPLASH & END SPLASH by adhering to wall w/ water-cleanable epoxy adhesive. Leave 1/16" gap between countertop and splash for filling w/ sealant. Use temp shims to ensure uniform spacing. Apply sealant to seams and to gap between countertops and splashes; comply w/ Div-07.
3. SEALER APPLICATION: All surfaces must be clean & free from all loose grit & debris, satins, dirt & wax coatings. Surfaces must remain dry for a min of 24 hrs before the app and remain dry for 24 hrs after the app of sealer. Surface temp must be above 50° F and below 90° F test on a small area before using to determine if the product is acceptable w/ type of unit. Apply sealer in accordance w/ countertop material manuf recommendations.

SECTION 06 64 13 – FIBERGLASS REINFORCED PLASTIC (FRP) PANELING
WORK INCLUDES
1. surface preparation of wall surfaces and installation of Fiberglass Reinforced Plastic (FRP) paneling, as specified herein and as needed for a complete and proper installation.

FRP PANELING
1. Apply on all wall surfaces adjacent to or within two (2)-feet of a service (mop) sink, up to 48-inches above finished floor (FFE), unless another wall finish is indicated to be provided on the Drawings.
   A. FRP PANELS: .090-inch-thick x 4-feet-wide 4- x 8-, 10- or 12-ft high USDA accepted panels of semi-rigid fiberglass reinforced plastic panels, with color-matched one-piece trim and panel moldings at all joints between panels, and at top and bottom edges of panels.
   B. Basis-of-Design Product / Manufacturer: "Marlite FRP", # P-100 White - Class III/C per ASTM E-84, embossed surfaced units, or equal

EXAMINE AREAS and conditions in which FRP will be installed. Complete all finishing operations, including prime coat of paint, before beginning installation of wall surface protection materials.

PREPARATION
1. Acclimate panels in temperature and humidity conditions approximating those at the project site for not less than 24 hours before application. Lay panels flat. Do not stack on fresh conc. floors or other surfaces that emit moisture. Walls must be dry and free from dirt, dust and grease. Remove switchplates, wall plates, and surface- mounted fixtures in areas where panels are to be applied.

PANEL FITTING
1. Position panels with 1/4-inch gap at ceiling and floor, and 1/8-inch gap between each panel and division bar of moldings to allow for normal expansion and contraction. Allow not less than 1/8-inch gap around pipes, electrical fittings, and other projections. Use carbide-tipped power saws to cut panels. Prefit each panel before installing.

INSTALLATION
1. INSTALL PANELS by using manufacturer 's recommended adhesive applied to back of panels for 100% coverage, with a notched trowel. Before adhesive skins over, set panels in position and press against wall. Pull entire panel back away from wall 8-inch to 10-inch to flash off any solvents, if applicable. Press back in place. Apply adequate pressure to make full contact between panel and wall.

PANEL MOLDINGS
1. Install one-piece matching trim and panel moldings at all joints between panels, and at top and bottom edges of panels. Install moldings with continuous bead of silicone sealant during installation of panels. Seal joints between moldings and between molding and adjacent finish material. Remove excess sealant immediately.

CLEAN-UP
1. Remove excess adhesive and sealant while it is still wet. Replace removed plates and fixtures. Remove surplus materials and debris resulting from panel installation upon completion of Work, and leave areas of installation in clean condition.

DIVISION 07: THERMAL AND MOISTURE PROTECTION
SECTION 07 11 00 – DAMPPROOFING
1. WORK INCLUDED: Provide bituminous dampproofing, in accordance w/ reqs contained herein, applied to the following surfaces:
   - Ext conc walls below grade, w/o occupied space inside
   - Ext conc "slab-edge" surfaces, extending to ftg below
2. DAMPPROOFING: Provide cold-applied, emulsified-asphalt meeting 1 of the following: ASTM D 1227, Type II, Class 1, for troweled coats: or ASTM D 1227 Type II, Class 1 for fibered brush & spray coats, or ASTM D 1227, Type III, Class 1 for brush & spray coats.
3. EMULSIFIED-ASPHALT PRIMER: ASTM D 1227, Type III, Class 1, except diluted w/ water as recommended by manuf.
4. ASPHALT-COATED GLASS FABRIC: ASTM D 1668, Type I.
5. PROTECT ADJOINING EXPOSED SURFACES from being stained, spotted or coated w/ dampproofing. Prevent dampproofing materials from entering & clogging weep holes & drains.
6. CLEAN SUBSTRATES OF PROJECTIONS and substances detrimental to work; fill voids, seal jts and apply bond breakers if any, as recommended by prime material manuf.
7. COMPLY W/ MANUF WRITTEN RECOMMENDATIONS unless more stringent reqs are indicated or reqd by project conditions to ensure satisfactory performance of dampproofing. Apply additional coats if recommended by manuf or reqd to achieve coverages indicated. Allow ea coat of dampproofing to cure 24 hrs before applying subsequent coats.
8. AT INTERNAL & EXTERNAL CORNERS, changes in plane, const jts and cracks, install embed an 8" w strip of asphalt-coated glass fabric in a heavy coat of dampproofing. Dampproofing coat reqd for embedding fabric is in addition to other coats reqd.
9. APPLY 2 BRUSH OR SPRAY COATS at a rate of 1.5 to 2.5 gal/100 sf per coat depending on substrate texture, to produce a uniform, dry-film thickness no less than 15 mils. Apply in 2 coats to obtain reqd thickness, allowing time for complete drying between coats.
10. REMOVE DAMPPROOFING MATERIALS from surfaces not intended to receive it.

SECTION 07 13 00 – WATERPROOFING
1. WORK INCLUDED: Provide waterproofing membrane w/ protection course and conc jt waterstops, in accordance w/ reqs contained herein. Waterproofing include all sht materials applied w/ sealed jts and flashings as needed to form the concealed waterproofing membrane. Waterproofing includes but is not limited to the following:
   - Provide waterproofing and waterstops in conc jts below-grade at all conditions where the ext fin grade is above the int fin flr el of occupied spaces.
   - INTENT: It is the intent of the contract the bldg struct be absolutely watertight from below grade moisture intrusion.
2. INSTALLER QUALIFICATIONS: An entity w/ not less than 5 yrs of successful experience in install of waterproofing shts sim to reqs for this project and which is acceptable to and licensed by the manuf of primary waterproofing materials.

JOB CONDITIONS:
- SUBSTRATE: Proceed w/ work of this section only after substrate const, openings and penetrating work have been completed.
- WEATHER: Proceed w/ waterproofing and associated work only when exist and forecasted weather conditions will permit work to be performed in accordance w/ manuf recommendations and warranty reqs.

SPECIAL INSTALLER'S WARRANTY: Provide install warranty, signed by installer, covering work of this section, including removal and reinstalling protection bd, drainage pnls, insul, pedestals and pavers on decks, as applicable. Warranty period: 2 yrs from date of substantial completion.

PRODUCTS:
1. MANUF: Obtain primary waterproofing materials from a single manuf to the greatest extent possible. Provide secondary materials only as recommended by the manuf of the primary materials.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@engms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.665.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@reed-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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PROJ. A_2406

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ARCHITECTURAL SPECIFICATIONS

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2. WATERPROOFING MEMBRANE: Provide self-adhering, modified bituminous sht no less than 60-mil-thick, consisting of 56 mils of rubberized asphalt laminated to a 4-mil-thick, polyethylene film w/ a release liner on the adhesive side. Subject to compliance w/ reqs. Products that may be incorporated into the work include:
- Carlisle Coatings & Waterproofing Inc.; CCW MiraDRI 860/861
- Grace, W. R. & Co.; Bituthene 3000
- Henry Company; Blueskin WP 200
- Meadows, W. R., Inc.; SealTight Mel-Rol
- Pecora Corporation; Duramem 700-SM

3. CONC WATERSTOPS: "Volclay" Waterstop # RX 101, 1"-w by .75"-h, self-adhering elastomeric/bentonite material as manuf by the American Colloid Company. Provide manuf special adhesive and 2" conc cut nails at all jts.
4. PROTECTION / DRAINAGE PNL (at below-grade walls w/o occupied space or perimeter insul): Pnls consisting of a nonwoven, needle-punched geotextile facing laminated to 1 side w/ a polymeric film bonded to the other side of a nonbiodegradable, molded-plastic-drainage core. Acceptable products include but are not limited to the following:
- Carlisle's "CCW MiraDRAIN 6200" and "CCW MiraDRAIN 6200XL" – 0.040" thick
- Grace's "Hydroduct 220" (vert) or "Hydroduct 660" (horiz) – 0.44" thick

5. PROTECTION BD: Premolded, semirigid asphalt/fiber composition bd, 1/4" thick, formed under heat and pressure of standard sizes.
6. INSULATED PROTECTION / DRAINAGE PNLS: Re Div-07.
7. WATERPROOFING & FLASHING ACCESSORIES: Provide sealants, pourable sealers, cone and vent flashings, inside and outside corner flashings, termination reglets and other accessories recommended by waterproofing manuf for intended use and as follows:
- PRIMERS: Provide conc primer recommended by the manuf of sht waterproofing material for applications reqd.
- ADHESIVES: Adhesive compounds and tapes recommended by waterproofing sht manuf, for waterproof sealing of seams in membrane and for waterproof sealing of jts between membrane and flashings, adj surfaces and projections through membrane.
- TERMINATION BARS: Manuf standard alum or formed polymer bars, approximately 1"-w, prepunched for anchors w/ non-corrosive s/s anchors.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 07 21 00 – THERMAL INSULATION
ACTION SUBMITTALS
1. Product Data: Provide insulation work, as shown on the drawings, as specified herein, and as needed to meet the requirements of the construction shown in the Contract Documents. Applications of insulation specified in this section include the following:
   A. Extruded polystyrene foam-plastic board insulation.
   B. Polyisocyanurate foam-plastic board insulation.
   C. Glass-fiber blanket insulation.

DELIVERY, STORAGE, AND HANDLING
1. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
2. Protect foam-plastic board insulation as follows:
   A. Do not expose to sunlight except to necessary extent for period of installation and concealment.
   B. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site until just before installation time.
   C. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

QUALITY ASSURANCE
1. Fire-test-response characteristics
   A. Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to AHJ representatives. Identify materials with appropriate markings of applicable testing and inspecting agency.
   B. Surface-Burning Characteristics: ASTM E 84.
   C. Fire-Resistance Ratings: ASTM E 119.
   D. Combustion Characteristics: ASTM E 136.

PRODUCTS
PERFORMANCE REQUIREMENTS
1. PROTECT INSULATION MATERIALS from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
2. Protect plastic insulation as follows:
   A. Do not expose to sunlight, except to extent necessary for period of installation and concealment.
   B. Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.

GENERAL
1. PROVIDE PREFORMED UNITS, sized to fit applications indicated; selected from manufacturer's standard thicknesses, widths, and lengths, as appropriate for conditions of use indicated.

UN-FACED BATT or BLANKET INSULATION
1. Provide formaldehyde free, un-faced batts or blankets (without kraft-paper facings) consisting of fiberglass, or rock-wool meeting ASTM C 665, Type I (blankets without membrane facing) with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics. Subject to compliance with requirements, available manufacturers include but are not limited to:
   A. GLASS-FIBER INSULATION:
   B. CertainTeed Corporation.
   C. Guardian Building Products, Inc.
   D. Johns Manville Corporation.
   E. Knauf Fiber Glass.
   F. Owens Corning

PROTECTION BOARD
1. Premolded, semirigid asphalt/fiber composition board, 1/4-inch-thick, formed under heat and pressure, of standard sizes.

EXTRUDED-POLYSTYRENE INSULATION (continuous insulation – ci)
1. Extruded-polystyrene (XPS) board per ASTM C 578 – Type IV (1.60 PCF – compressive strength of 25 PSI) with insulation value of R-5 per-inch, maximum flame-spread and smoke-developed indexes of 75 and 450, respectively. Acceptable Manufacturers include: RMAX, DiversiFoam Products, Owens Corning, or Pactiv Building Products Division.

EXECUTION / PREPARATION
1. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

INSTALLATION, GENERAL
1. Comply with insulation manufacturer's written instructions applicable to products and applications.
2. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
3. Install insulation with manufacturer's R-value label exposed after insulation is installed.
4. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
5. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION
1. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
   A. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
   B. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
   C. Maintain 3-inch clearance of insulation around recessed lighting fixtures not rated for or protected from contact with insulation.

MISCELLANEOUS VOIDS
1. Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
   A. Closed-Cell Polyurethane
   B. Do not apply insulation until installation of pipes, ducts, conduits, wiring, and electrical outlets in walls is completed and windows, electrical boxes, and other items not indicated to receive insulation are masked.
   C. After insulation is applied, make flush with face of studs by using method recommended by insulation manufacturer.

PROTECTION
1. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes.
2. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

SECTION 07 21 19 – FOAMED-IN-PLACE INSULATION
1. WORK INCLUDED: Provide concealed, foamed-in-place polyurethane foam insul where indicated on the dwgs and as necessary for complete install.

QUALITY ASSURANCE:
1. INSTALLER QUALIFICATIONS: A firm or individual certified, licensed by material manuf as experienced and w/ sufficient trained staff to install manuf products according to specified reqs. A manuf willingness to sell its sprayed fire-resistive materials to an entity does not in itself confer qualification on the installer.
2. SOURCE LIMITATIONS: Obtain materials through 1 source from a single manuf.
3. DELIVERY, STORAGE & HANDLING: Deliver in manuf original containers clearly labeled w/ manuf name, product ID, safety info, net wt of contents & expiration date. Store in a safe manner & where the temps are w/in the limits specified by the material manuf. Remove empty containers must be removed from site on a daily basis. Store and dispose of solvent-based materials and materials used w/ solvent-based materials, in accordance w/ reqs of local AHJ.
4. PROJECT CONDITIONS: Maintain environmental conditions w/in limits recommended by manuf for optimum results. Do not install products under environmental conditions outside manuf absolute limits. Ventilate area to receive insul to maintain safe working conditions. Protect workers as recommended by standards and manuf recommendations. Protect adjacent surfaces, wdws, equip and site areas from damage of overspray.

PRODUCTS
1. CLOSED-CELL SPRAY POLYURETHANE FOAM INSULATION
   A. Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II, minimum density of 1.5 lb/cu. ft, and minimum aged R-value at 1-inch thickness of 6.2 deg F x h x sq. ft./Btu at 75 deg F.
   B. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Carlisle Spray Foam Insulation
      b. Gaco; Holcim Building Envelope
      c. Henry Company; a Carlisle company
      d. Huntsman Building Solutions
      e. Johns Manville; a Berkshire Hathaway company
      f. Master Builders Solutions; brand of MBCC Group
      g. NCFI Polyurethanes; a division of Barnhardt Manufacturing Company
      h. SES Foam LLC
      i. SWD Urethane Company
      j. Thermoseal USA
      k. Volatile Free, Inc.
   C. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
      a. Flame-Spread Index: 25 or less.
      b. Smoke-Developed Index: 450 or less.
      c. Fire Propagation Characteristics: Passes NFPA 285 and NFPA 276 testing as part of an approved assembly.

EXECUTION:
1. EXAMINE SUBSTRATES, areas and conditions, w/ Installer present, for compliance w/ reqs for substrates and other conditions affecting performance of work. A substrate is in satisfactory condition if it complies w/ the following:
   - Substrates are free of oil, grease, incompatible primers, dirt or other foreign substances capable of impairing bond of materials w/ substrates
   - Objects penetrating foamed-in-place material, including clips, hangers, support sleeves and sim items, are securely attached to substrates.
   - Substrates are not obstructed by ducts, piping, equip and other suspended const that will interfere w/ applying material.
   - Proceed w/ install after unsatisfactory conditions have been corrected.
2. PREP: Cover other work subject to damage from overspray of materials during application. Clean substrates of substances that could impair bond, including dirt, oil, grease, release agents and incompatible primers, pts or other coatings.
3. COMPLY W/ MANUF WRITTEN INSTRUCTIONS for mixing materials, application procedures and types of equip used to mix, convey and spray on material, as applicable to the particular conditions of install and as reqd to achieve the insul thicknesses indicated on the dwgs.
   - EXTEND MATERIAL IN FULL THICKNESS over the entire area of ea substrate. UNO in writing by material manuf, install body of insul in a single course.
   - REMOVE & REPLACE APPLICATIONS of insul material that does not comply w/ manuf install reqs or of material characteristics indicated above.
   - APPLY ADDITIONAL MATERIALS per manuf written instructions where application thickness does not comply w/ specified reqs.

SECTION 07 25 00 – SHEET-TYPE WEATHER RESISTIVE BARRIER (WRB)
1. WORK INCLUDED: Provide a sht-type air and WRB barrier sys where indicated on the dwgs as specified herein and as necessary for complete install. The work of this section includes the primary barrier as well as fasteners, seaming tape, sealant & adhesives and self-adhering flexible membrane flashings and jt treatments necessary to bridge and seal the following air leakage pathways and gaps throughout the project: Jts and gaps in substrate material(s) and between dissimilar bldg envelope materials. Connections of the walls to the roof air barrier. Connections of the walls to the fdns. Seismic, ejs and cjs in the substrate material. Openings and penetrations at wdw and dr frames, storefront and curtainwall. Piping, conduit, duct and sim penetrations through the substrate. Ties, screws, bolts, anchorages and sim penetrations for subsequent insul and fin. Other air-leakage pathways into the bldg envelope.

REFERENCED STANDARDS:
1. ASTM D882: Test Method for Tensile Properties of Thin Plastic Sheeting
2. ASTM D1117: Standard Guide for Evaluating Non-woven Fabrics
3. ASTM E84: Test Method for Surface Burning Characteristics of Building Materials
4. ASTM E96: Test Method for Water Vapor Transmission of Materials
5. ASTM E1677: Specification for Air Retarder Material or System for Framed Building Walls
6. ASTM E2178: Test Method for Air Permeance of Building Materials
7. AATCC (American Association of Textile Chemists and Colorists): Test Method 127 Water Resistance: Hydrostatic Pressure Test
8. TAPPI (Technical Association of the Pulp and Paper Industry): Test Method T-410; Grams of Paper and Paperbd (Wt per Unit Area). Test Method T-460; Air Resistance (Gurley Hill Method).

PERFORMANCE REQS:
1. Vapor-permeable (breathing) membrane sys allowing water-vapor to pass through (not being trapped w/in walls), while acting as a cont drainage-plane acting to direct incidental liquid-water from condensation and infiltration to be discharged to the bldgs ext. The WRB must be capable of accommodating minor movement at substrate pnl jts and cjs, at changes in sheathing substrate materials, at penetrations including wdw and dr openings through the sheathing surface and at perimeter transitions of sheathing w/o deterioration or moisture leakage exceeding the indicated limits.

QUALITY ASSURANCE:
1. SOURCE LIMITATIONS: Provide WRB and accessory materials produced by single manuf or utilizing accessory materials specifically approved for use by WRB manuf.
2. INSTALLER QUALIFICATIONS: Entity w/ no less than 3 yrs of successful experience in install of sht WRB assemblies sim to the reqs for this project, acceptable to the manuf of the primary products specified, as verifiable by a current written statement from the manuf.
3. INSTALL PROCEDURES must be in full accordance w/ WRB manuf install guidelines and recommendations.
4. PRE-INSTALL CONFERENCE: Per reqs of manuf warranty program, arrange for a pre-install conference, to be conducted no less than 2 wks prior to the start of install of the work of this section. Req attendance by the const superintendent, const project manager, installer and manuf rep. Notify architect and owner of meeting sched. Review related project reqs and submittals, status of substrate work and prep, areas of potential conflict and interface, availability of WRB assembly materials and components, installer 's training reqs, equip, facilities and scaffolding and coord methods, procedures and sequencing reqs for full and proper install, integration and protection.

DELIVERY, STORAGE & HANDLING:
1. DELIVER MATERIALS in original packages, containers or bundles bearing brand name and identification of manuf or supplier.
2. STORE MATERIALS in their original undamaged packaging, inside under cover and keep dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, const traffic and other damage. Store rolled materials according to manuf written instructions – stack flat materials to prevent sagging. Store liquid materials in their original undamaged packages in a clean, dry, protected location and w/in temp range reqd by manuf – remove and replace liquid materials that cannot be applied w/in their stated shelf life.
3. ENVIRONMENTAL LIMITATIONS - APPLY AIR-BARRIER materials w/in the range of ambient and substrate temps recommended by air barrier manuf. Protect substrates from environmental conditions that affect performance of air barrier. Do not apply air barrier to a damp or wet substrate or during snow, rain, fog or mist.
4. SCHEDULING - REVIEW REQS FOR SEQUENCING of install of WRB assembly w/ install of windows, doors, louvers and flashings to provide a weather-light barrier assembly. Schedule install of WRB materials and ext cladding w/in 9 months of WRB assembly install.

WARRANTY:
1. SPECIAL MANUF WARRANTY: Provide WRB manuf "material performance" warranty, indicating the installed sys as provided by the manuf will conform to the air- and water-penetration resistance properties indicated throughout the warranty period.
2. WARRANTY PERIOD: 10 yrs from date of substantial completion.

PRODUCTS:
1. WRB: ASTM E 1677, Type I air retarder; w/ flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E 84, UV stabilized and as acceptable to AHJ.
2. Air Penetration: 0.001 CFM / sf at 75 Pa, when tested per ASTM E 2178 Type I per ASTM E 1677.
3. Water-Vapor Transmission: 28 perms max, when tested per ASTM E 96, Method B.
4. Water Penetration Resistance: 280 cm when tested per AATCC Test Method 127.
5. Air Resistance: air infiltration at >1500 seconds, when tested in accordance w/ TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/in, when tested per ASTM D 882, Method A.
7. Tear Resistance: 12/10 lbs, when tested per ASTM D 1117.
8. Surface Burning Characteristics: Class A, when tested per ASTM E 84: flame Spread: 10, Smoke Developed: 10.
9. Allowable UV exposure time: No less than 3 months.
10. B.O.D.: "Tyvek CommercialWrap D" by Dupont.
11. ACCEPTABLE ALTERNATIVE MANUF: Subject to compliance w/ reqs, products that may be incorporated into the work include, but are not limited to, the following: Dow Chemical Company: Styrofoam Weathermate Plus Brand Housewrap. Raven Industries Inc.; Rufco-Wrap.

ACCESSORY MATERIALS:
1. SILL SEALER: Durable and compressible sill sealer strip. Subject to compliance w/ reqs, products may be incorporated into the work, but are not liimted to, the following: Protecto Wrap Premium Energy Sill Sealer
2. JT SEAMING TAPE: 3"-w min pressure-sensitive tape as recommended by WRB manuf for sealing jts and penetrations in WRB membrane.
3. FASTENERS: WRB manuf standard recommended corrosion-resistant fasteners for securing membrane to sheathing, consisting of a thermal cap, standard washer and shaft attachments and fastener capable of penetrating through sheathing and into framing as indicated below: selected for properties of pullout, tensile and shear strength reqd to resist loads of application indicated and of the following description: For attachment to stl studs from 0.033 to 0.112" thick (20 to 10 ga), provide stl drill screws complying w/ ASTM C 954. For attachment to wd framing members, provide # 4 galv stl nails.
4. WRB MEMBRANE FLASHING: Composite, self-adhesive, flashing product as recommended for use by the WRB membrane manuf, consisting of a pliable, rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.040": B.O.D.: DuPont 's "StraightFlash" (foldable, but not "formable" - typ for straight jamb conditions at openings and for flashing of penetrations through sheathing) or Dupont's "FlexWrap" ("formable" for use at sill or head flashing conditions and other locations where material must be bent or wrapped onto adjacent surfaces or for other custom shapes).
5. WRB FLASHING PRIMER: Provide flashing manuf recommended primer to assist in adhesion between substrate or WRB membrane and flashing material. Acceptable products include, but are not limited to: 3M High Strength 90; Denso Butyl Spray; SIA 655; Permagrip 105; ITW TACC Sta' Put SPH.
6. WRB SEALANT: Provide sealants that comply w/ ASTM C920, elastomeric polymer sealant to maintain watertight conditions. Acceptable products include, but are not limited to: Tremco 830; Tremco Butyl.
7. WRB ADHESIVE: Acceptable products include, but are not limited to: Liquid Nails LN-109; Polyglaze SM 5700; Denso Butyl Liquid; 3M High Strength 90; SIA 655.

EXECUTION
1. Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 07 42 13 – FORMED METAL WALL PANELS
RELATED DOCUMENTS
1. Drawings and general provisions of the contract, including General and Supplementary Conditions and Divisions 01 apply to this section

SECTIONS INCLUDED
1. Concealed fastener interlocking solid metal wall panels.
2. Rainscreen

ACTION SUBMITTALS
1. Product Data for each product
   A. Include construction details, materials descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
2. Shop Drawings
   A. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
   B. Include details of the flashing, trim, and achorage systems, at a scale of not less than 1-1/2" per foot.
3. Samples for Initial Selection: For each type of metal panel indicated with factory-applied finishes. Include Samples of trim and accessories involving color selection.

CLOSEOUT SUBMITTALS
1. Maintenance Data: For metal panels to be included in maintenance manuals.

QUALITY ASSURANCE
1. Installer Qualifications: Installer certified by the manufacturer and the work to be supervised by a person having successfully completed a manufacturer training program regarding proper installation of the specified product.
2. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

DELIVERY, STORAGE, AND HANDLING
1. Deliver components, metal panels, and other manufactured items in manufacturer 's original, unopened, undamaged packaging with identification labels intact so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
2. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
3. Store wall panel materials on dry, level, firm and clean surface. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
4. Retain strippable protective covering on metal panels during installation.

FIELD CONDITIONS
1. Weather Limitations: Proceed with installation only when current and forecasted weather conditions permit. Assembly of metal panels to be performed in accordance with manufacturers' written instructions and warranty requirements.

COORDINATION
1. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

WARRANTIES
1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
   A. Failures include, but are not limited to, the following:
      a. Structural failures including rupturing, cracking, or puncturing.
      b. Deterioration of metals and other materials beyond normal weathering.
   B. Warranty Period: 2 years from date of Substantial Completion.
2. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
   A. Finish Warranty Period: 20 years from date of Substantial Completion.

PERFORMANCE REQUIREMENTS
1. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing in accordance with ASTM E1592:
   A. Wind Loads: As indicated on Drawings.
   B. Other Design Loads: As indicated on Drawings
2. Fire Performance Characteristics: Assembly shall meet the NFPA 285 test method with steel panels.
3. Air Infiltration: Air leakage of not more than 0.002 cfm/sq. ft. (0.3 L/s per sq. m) when tested in accordance with ASTM E283 at the following test-pressure difference:
   A. Test-Pressure Difference: 1.57 lbf/sq. ft. (75 Pa).
4. Water Penetration under Static Pressure: No water penetration when tested in accordance with ASTM E331 at the following test-pressure difference:
   A. Test-Pressure Difference: [aluminum 1.57 lbf/sq. ft. (75 Pa)] [Galvalume 6.24 lbf/sq. ft. (300 Pa).]
5. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
   A. Temperature Change (Range): [120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces]

CONCEALED-FASTENER, INTERLOCKING METAL WALL PANELS
1. GENERAL: Provide factory-formed metal panels designed to be field assembled by interconnecting side edges of adjacent panels and mechanically attaching panel clip to supports using concealed fasteners [and factory-applied sealant] in side laps.
2. INTERLOCKING NON-SYMMETRICAL RIBBED CONCEALED FASTENER PROFILE , [Solid], Metal Wall Panels M-1: Formed with trapezoidal major ribs; with reveal joint between the panels.
   A. Basis-of-Design Product: Subject to compliance with requirements, provide Morin by Kingspan; Morin Integrity Series, XAB-16
   B. Panel Coverage: [16"].
   C. Panel Depth: 0.875".

MISCELLANEOUS MATERIALS
1. MISCELLANEOUS METAL SUBFRAMING AND FURRING : ASTM C645, cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A792/A792M, Class AZ50 (Class AZM150) aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
2. PANEL ACCESSORIES : Provide components required for a complete, weathertight panel system including trim, copings, fascia, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
   A. Closures: Provide closures as required, fabricated of same metal as metal panels.
   B. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch (25-mm) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
   C. Extrusions: Manufacturer 's standard extruded aluminum trim.
   D. Mitered Corners: Structurally bonded horizontal outside or inside trimless corners matching metal wall panel material, profile and factory applied finish fabricated by metal wall panel manufacturer.
      a. Welded, riveted or field fabricated corners are not acceptable.
      b. Basis-of-Design: Morin; Miterseam Corners.
      c. Size: 24" by 24" inches standard size. Contact manufacturer for option sizes or U-shape.
3. FLASHING AND TRIM: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fascia, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
4. PANEL SEALANTS : Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
   A. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
   B. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
   C. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

FABRICATION
1. GENERAL: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
2. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
3. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
   A. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
   B. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
   C. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
   D. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
   E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
      a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal wall panel manufacturer for application but not less than thickness of metal being secured.

FINISHES
1. PROTECT MECHANICAL AND PAINTED FINISHES on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
2. APPEARANCE OF FINISHED WORK : Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

EXECUTION
EXAMINATION
1. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
   A. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal wall panel manufacturer.
      a. Verify that air-water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
   B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
   C. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION
1. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages in accordance with ASTM C754 and metal panel manufacturer's written recommendations.

METAL PANEL INSTALLATION
1. General: Install metal panels in accordance with manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to support structure unless otherwise indicated. Allow provisions in the assembly for thermal and structural movement.
   A. Shim or otherwise plumb substrates receiving metal panels.
   B. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
   C. Locate and space fasteners in uniform vertical and horizontal alignment.
   D. Install flashing and trim as metal panel work proceeds.
   E. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
   F. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
   G. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
2. Fasteners:
   A. Steel Panels: Use stainless steel or plated fasteners.
   B. Aluminum Panels: Use stainless steel fasteners.
3. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
4. Interlocking Metal Panel Installation: Attach metal panels to supports with clips and fasteners at each interlocking joint with a spacing recommended by manufacturer.
5. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
   A. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.
   B. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 ft. (3 m) with no joints allowed within 24 inches (610 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

FIELD QUALITY CONTROL
1. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
2. Water-Spray Test: After installation, test area of assembly for water penetration in accordance with AAMA 501.2.

CLEANING AND PROTECTION
1. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
2. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
3. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

SECTION 07 46 46 – FIBER-CEMENT SIDING
SECTIONS INCLUDED
1. Fiber cement plank lap siding

REFERENCE STANDARDS
1. ASTM C1185, Standard Test Methods for Sampling and Testing Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards; 2023.
2. ASTM C1186, Standard Specification for Flat Fiber-Cement Sheets; 2022, with 2023 Editorial Revision.
3. ASTM D3359, Standard Test Methods for Rating Adhesion by Tape Test; 2023.
4. ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials; 2020.
5. ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials; 2024.
6. ASTM E136, Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C; 2022.
7. ASTM E330/E330M, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2021.
8. ICC-ES Evaluation Reports ESR-2290 and ESR-2273 (IBC, IRC, CBC, CRC); Current Editions.

SUBMITTALS
1. See Section 01 30 00, Administrative Requirements.
2. Product Data:
   A. Manufacturer's product data sheets.
   B. Manufacturer's storage and handling requirements.
   C. Manufacturer's preparation instructions.
   D. Manufacturer's installation instructions.
   E. Manufacturer's operation and maintenance instructions.
3. Shop Drawings:
   A. Provide detailed drawings showing dimensions, layout, joints, construction details, and attachments.
   B. Indicate atypical non-standard applications outside of manufacturer 's standard details and specifications.
4. Selection Samples:
   A. Provide two complete sets of color ships representing manufacturer 's full range of available colors and patterns for each finish product specified.
5. Installers qualification statement.
6. Warranty:
   A. Manufacturer's sample warranty.
   B. Manufacturer's executed written warranty, completed in Owner's name and registered with manufacturer.

QUALITY ASSURANCE
1. Installer Qualifications: Company specializing in work specified in this section with a minimum of 3-years of experience with installation of products of this type.

DELIVERY, STORAGE, AND HANDLING
1. Deliver and store products in manufacturer's unopened packaging with labels intact until ready for installation.
2. Store siding flat on a smooth level surface and carry on its side.
3. Protect edges and corners from chipping.
4. Store materials under dry, waterproof, well-ventilated cover, elevated above grade, and kept dry prior to installation.
5. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of the Authorities Having Jurisdiction.
6. Protect materials from damage, dust, or other detrimental conditions.

FIELD CONDITIONS
1. Maintain environmental conditions including temperature, humidity, and ventilation in accordance with the limits indicated in the manufacturer 's written instructions.
2. Do not install products in conditions outside of the manufacturer 's stated limits.

WARRANTY
1. Manufacturer's Limited, Non Pro-rated Product Warranty:
   A. Plank, Soffit, and Trim: 30-year Warranty.
   B. Color-Plus Finish: 15-year Warranty.
   C. When installed and maintained in accordance with manufacturer 's written requirements, warranty for 15-years from date of purchase covering peeling, cracking, and chipping.
2. Installer Warranty: Owner Approved warranty provided by installer

PRODUCTS
MANUFACTURERS
1. Basis-of-Design: James Hardie Building Products, Inc.; Hardie Plank Siding; www.jameshardie.com.
2. Substitutions: In accordance with the requirements of Division 01, General Requirements.

FIBER CEMENT – LAP SIDING
1. Fiber Cement Siding:
   A. Type A, Grade II, ASTM C1186.
   B. Non-combustible Material, ASTM E136.
   C. Flame Spread Index: 0, ASTM E84.
   D. Smoke Developed Index: <5, ASTM E84.
2. Type:
   A. Lap Siding:
      a. Smooth:
         - 7-1/4 inches (184 mm) with 6-inches (152 mm) exposure.
3. Color:
   A. Farmhouse White
4. Product
   A. Basis-of-Design: Hardie Plank Siding

ACCESSORIES
1. HardieTrim Trim Boards; www.jameshardie.com:
   A. Type A, Grade I, ASTM C1186.
   B. Flame Spread Index: 0, ASTM E84.
   C. Smoke Developed Index: <5, ASTM E84.
   D. 4/4 Boards:
      a. 3-1/2 inch (89 mm) width.
   E. 5/4 Boards:
      a. 3-1/2 inch (89 mm) width.
   F. Color:
      a. Farmhouse White
   G. Texture:
      a. Smooth.
   H. Length: 12-feet (3658 mm)
   I. Thickness:
      a. 1-inch.
2. Seam Tape: HardieWrap; www.jameshardie.com.
3. Flashing:
   A. HardieWrap Flashing Tape; www.jameshardie.com.
   B. HardieWrap Flex Flashing Tape; www.jameshardie.com.
4. Fasteners:
   A. Wood Framing Fasteners:
      a. 4d common corrosion resistant nails.
      b. 6d common corrosion resistant nails.
      c. 8d box ring common corrosion resistant nails.
      d. 0.089-inch (2.2 mm) shank x 0.221-inch (5.6 mm) head x 2-inches (51 mm) corros. resist, siding nails.
      e. 0.093-inch (2.4 mm) shank x 0.222-inch (5.6 mm) head x 2-inches (51 mm) corrosion resistant siding nails.
      f. 0.093-inch (2.4 mm) shank x 0.222-inch (5.6 mm) head x 2-1/2 inches (64 mm) corrosion resistant siding nails.
      g. 0.091-inch (2.3 mm) shank x 0.221-inch (5.6 mm) head x 1-1/2 inches (38 mm) corrosion resistant siding nails.
      h. 0.091-inch (2.3 mm) shank x 0.225-inch (5.7 mm) head x 1-1/2-inches (38 mm) corrosion resistant siding nails.
      i. 0.121-inch (3 mm) shank x 0.371-inch (9.4 mm) head x 1-1/4 inches (32 mm) corrosion resistant roofing nails.
      j. No. 11 gauge 1-1/4 inches (32 mm) corrosion resistant roofing nails.
      k. No. 11 gauge 1-1/2 inches (38 mm) corrosion resistant roofing nails.
      l. No. 11 gauge 1-3/4 inches (44 mm) corrosion resistant roofing nails.
      m. 16 gauge 1-1/2 inches (38 mm) stanless finish nails.

EXECUTION
EXAMINATION
1. Do not begin installation until substrates have been properly prepared.
2. Examine substrate, clean and repair to eliminate conditions detrimental to installation.
3. Do not commence with the Work until unacceptable conditions are remedied.
4. Verify that weather barrier is installed over substrate and ready to receive the Work.
5. If framing preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation prior to commencement of Work.

PREPARATION
1. Clean surfaces thoroughly prior to installation.
2. Prepare surfaces using methods recommended by manufacturer 's written requirements.
3. Protect surrounding work areas and surface during installation.
4. Repair punctures or tears in weather barrier prior to installation of siding.

WEATHER BARRIER
1. See Section 07 25 00, Weather Barriers.
2. Ensure weather barrier is installed with penetration and junction flashing in accordance with manufacturer's written requirements and the Authorities Having Jurisdiction.

INSTALLATION – LAP SIDING
1. Install in strict accordance with manufacturer's written installation instructions at locations shown on Drawings.
2. General:
   A. Protect siding from Work of other trades.
   B. Surfaces to be dry prior to installation of weather barriers and siding.
   C. Reference trim details on Drawings.
   D. Touch-up cut edges prior to installation.
3. Flashing:
   A. Install above door and window trim and casings
   B. Install above horizontal trim in field of siding.

INSTALLATION OF TRIM BOARDS
1. Install in strict accordance with manufacturer's written installation instructions at locations shown on Drawings.
2. Install flashing around all wall openings.

FINISHING
1. Finish in accordance with paint manufacturer 's written application instructions.

CLEANING
1. See Section 01 70 00, Execution and Closeout Requirements.
2. Clean siding in accordance with manufacturer 's written instructions using materials and methods acceptable to manufacturer.

PROTECTION
1. Protect installed products until date of Substantial Completion.
2. Touch-up, repair or replace damaged areas prior to date of Substantial Completion.

SECTION 07 54 23 – THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
SUMMARY
1. Section Includes:
   A. Mechanically attached thermoplastic polyolefin (TPO) roofing system.
   B. Insulation accessories and cover board.
   C. Tapered Insulation to achieve positive slope to roof drains as applicable.
   D. Air-barrier sheet over structural decking.
   E. Roof protection pads around HVAC equipment, and at roof-mounted piping supports.

DEFINITIONS
1. Roofing Terminology: Definitions in ASTM D1079 and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to Work of this Section.

ACTION SUBMITTALS
1. Shop Drawings:
   A. For roofing system, Include plans, elevations, sections, details, and attachments to other work.
   B. Base flashings and membrane terminations.
   C. Tapered insulation, including slopes.
   D. Insulation fastening patterns.
   E. Membrane seaming plan (indicating additional perimeter and corner attachments)

INFORMATIONAL SUBMITTALS
1. Research/Evaluation Reports: For components of roofing system, from ICC-ES.
2. Sample Warranties: For manufacturer's special warranties.

CLOSEOUT SUBMITTALS
1. Maintenance Data: For roofing system to include in maintenance manuals.

QUALITY ASSURANCE
1. INSTALLER QUALIFICATIONS:
   A. A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.
   B. Manufacturer qualifications: A qualified manufacturer that has FMG approval for membrane roofing system identical to that used for this Project.
   C. Fire-test-response characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to AHJ representatives. Materials must be identified with appropriate markings of applicable testing and inspecting agency.
   D. Exterior fire-test exposure: Class B; ASTM E 108, for application and roof slopes indicated.
   E. Surface-burning characteristics of foam plastic insulation: Provide materials that meet equirements of FM/Global 4450 or UL 1256 (provide written confirmation to AHJ representatives upon request).

WARRANTY
1. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
   A. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, vapor retarder, and other components of roofing system.
   B. Non-prorated, and fully transferable (not limited to original Owner)
   C. Warranty limit up to 72 MPH wind speed (calculated at ground level)
   D. No Owner's signature required for execution of warranty, and
   E. Dispute settlement to be held in the state where the project is located
   F. Warranty Period: 25 years from date of Substantial Completion.
2. Special Installer Warranty
   A. 2 years from date of substantial completion.

PRODUCTS
1. MANUFACTURERS Subject to compliance with requirements, provide products by one of the following:
   A. Carlisle SynTec Incorporated, Sure-Weld TPO.
   B. Cooley Group
   C. Custom Seal Inc.
   D. Elevate; Holcim Building Envelope
   E. Flex Membrane International Corp.
   F. GAF
   G. GenFlex Roofing Systems
   H. IKO Innovi; IKO Industries Inc.
   I. Johns Manville; a Berkshire Hathaway company
   J. Mule-Hide Products Co., Inc
   K. Versico Roofing Systems; Carlisle Construction Materials
2. Source Limitations: Contractor to coordinate acquisition of roofing insulation with TPO and mechanically fastened membrane manufacturer.

PERFORMANCE REQUIREMENTS
1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.

TPO ROOFING
1. Fabric-Reinforced TPO Sheet: ASTM D 6878, internally fabric- or scrim-reinforced, uniform, flexible TPO sheet.
   A. Thickness: 60 mils, nominal.
   B. Exposed Face Color: White.

AUXILIARY ROOFING MATERIALS
1. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
   A. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
   B. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the following limits for VOC content:
      a. Plastic Foam Adhesives: 50 g/L.
      b. Gypsum Board and Panel Adhesives: 50 g/L.
      c. Multipurpose Construction Adhesives: 70 g/L.
      d. Fiberglass Adhesives: 80 g/L.
         - Single-Ply Roof Membrane Adhesives: 250 g/L.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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ARCHITECTURAL SPECIFICATIONS

G105

e. Single-Ply Roof Membrane Sealants: 450 g/L.
f. Nonmembrane Roof Sealants: 300 g/L.
g. Sealant Primers for Nonporous Substrates: 250 g/L.
h. Sealant Primers for Porous Substrates: 775 g/L.
i. Other Adhesives and Sealants: 250 g/L.
2. Sheet Flashing: Manufacturer's standard unreinforced TPO sheet flashing, 55 mils (1.4 mm) thick, minimum, of same color as TPO sheet.
3. Bonding Adhesive: Manufacturer's standard.
4. Slip Sheet: Manufacturer's standard, of thickness required for application.
5. Miscellaneous Accessories: Provide metal termination bars, metal battens, pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

AIR BARRIER
1. ASTM D 4397 polyethylene sheet, 6-mils-thick minimum, with maximum permeance rating of 0.13 perm, applied over entire deck surface before insulation application.

ROOF INSULATION
1. Provide preformed roof insulation boards that comply with primary roofing membrane manufacturer's requirements and referenced standards, selected from manufacturer's standard sizes.
2. Tapered insulation: Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where required for positive slope to drain. Fabricate for minimum 1/4-inch slope per foot when installed.

COVER BOARD
1. Provide minimum 1/2 inch thick High-Density Polyiso Roof Cover board above insulation boards as a membrane substrate, installed per manufacturer 's recommendations with joints staggered, above tapered insulation.
2. ROOF WALKWAY PADS
A. 30 by 30-inch reinforced white thermoplastic walkway pad with textured surface finish.

ROOF PROTECTION PADS
1. Provide pads consisting of a minimum 60 mil membrane matching primary roofing material and color, approved for use by membrane roofing system manufacturer, intended either for heat-welded or self-sticking application to the roof membrane, and as approved for use by membrane roofing system manufacturer, with factory-formed or field-cut with corners trimmed to a 2" radius minimum.
2. At walkway pads provide 36-inch-wide continuous strips below walkway pads.
3. At piping supports: size to extend 6-inch outside of all piping support units.

ROOFING INSTALLATION, GENERAL
EXAMINATION
1. Examine substrates, areas, and conditions, with installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
2. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
3. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION
1. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
2. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
3. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
4. Install roofing system according to roofing system manufacturer's written instructions.
5. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
6. Install roofing and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition.

INSULATION INSTALLATION
1. Coordinate installing membrane roofing system components, so insulation is not exposed to precipitation or left exposed at the end of the workday.
2. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
3. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
4. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4-inch with insulation. Cut and fit insulation within 1/4-inch of nailers, projections, and penetrations.

COVER BOARD INSTALLATION
1. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered Between rows. Offset joints of insulation below a minimum of 6 inches in each direction. Loosely butt cover boards together and fasten to roof deck. Fasten cover boards to resist uplift pressure at corners, perimeter, and field of roof

MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION
1. Mechanically fasten all roofing membrane securely at terminations, penetrations, and perimeter of roofing, and seal all edges. Space fasteners for "Grade-C" metal deck unless otherwise indicated. Spread sealant or mastic bed over drain-flanges at deck-drains and securely seal membrane in place with clamping ring.
2. Full-weld seams: Clean entire seam areas, overlap roofing membrane, and hot-air weld full-surface of seams according to manufacturer's written instructions to ensure a watertight seam installation. Probe all seams after welds have cooled to verify seam weld continuity. Apply lap sealant to seal cut edges of roofing membrane.
3. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
4. Repair tears, voids, and lapped seams in roofing membrane that does not meet requirements.
5. In-splice attachment: secure one edge of roofing membrane using fastening plates or metal battens centered within membrane splice and mechanically fasten roofing membrane to roof deck. Field-splice seam.
6. Through-membrane attachment: Secure roofing membrane using fastening plates or metal battens and mechanically fasten roofing membrane to roof deck. Cover battens and fasteners with a continuous Cover strip.
7. Install protection pads by cleaning roofing of dirt and debris prior to installation. Apply pads securely to surface of roofing membrane, by heat welding to substrate or adhere with roofing system Manufacturer's approved compatible adhesive per their written instructions:
A. Walkway pads: Provide at all traffic concentration points and where indicated on the Drawings. Place individual units with 6-inch minimum space between each pad, installed over roof protection sheet. Install at the following locations:
a. Around all sides of HVAC equipment mounted on roof
b. Around all sides of skylights, roof hatches or access doors.
c. Provide path from roof hatch / access ladder to all HVAC equipment requiring periodic service.
B. Piping supports: Install below piping support units provided by others for rooftop mounted electrical conduits, gas piping, or for condensate piping, if provided. Coordinate with other trades for locations required.

BASE FLASHING INSTALLATION
1. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
2. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
3. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
4. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
5. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

PROTECTING AND CLEANING
1. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
2. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
3. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

SECTION 07 62 00 –SHEET METAL FLASHING AND TRIM
1. PROVIDE SHT MTL FLASHING and sht mtl trim, where indicated on the dwgs, as specified herein and as reqd for the prevention of water penetration into the bldg.
2. COMPLY W/ all pertinent recommendations contained in "Architectural Sheet Metal Manual," current edition of SMACNA.
3. COORD INSTALL of sht mtl flashing and trim w/ interfacing and adjoining const to provide a leakproof, secure and noncorrosive install.

PRODUCTS:
1. TYP SHT MTL: PREFIN ALUM SHT: ASTM B 209, Alloy 3003, 3004, 3105 or 5005, Temper suitable for forming and struct performance reqd, but no less than H14, fin as follows: Fluoropolymer 2-Coat System: Manuf standard 2-coat, thermocured sys consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70% polyvinylidene fluoride resin by wt; complying w/ AAMA 2605. Color: as indicated on dwgs

UNDERLAYMENT MATERIALS:
1. TYP UNDERLAYMENT: 10-mil thick polyethylene sht complying w/ ASTM D 4397.
2. FELTS: ASTM D 226, Type II (No. 30), asphalt-saturated organic felt, nonperforated.
3. SLIP SHT: Rosin-sized paper, min 3 lb/100 sq ft.

MISC MATERIALS:
1. PROVIDE MATERIALS & TYPES OF FASTENERS, solder, welding rods, protective coatings, separators, sealants and other misc items as reqd for complete sht mtl flashing and trim install.
2. FASTENERS: Wd screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts and other suitable fasteners designed to withstand design loads. At exposed fasteners, provide heads matching color of sht mtl by means of plastic caps or factory-applied coating. At flashing and trim, provide blind fasteners of high-strength alum or s/s or self-drilling screws, gasketed, w/ hex washer head.
3. SEALING TAPE: Pressure-sensitive, 100% solids, polyisobutylene compound sealing tape w/ release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape.
4. ELASTOMERIC SEALANT: ASTM C 920, of type, grade, class and use classifications reqd to seal jts in sht mtl flashing and trim and remain watertight.
5. BUTYL SEALANT: ASTM C 1311, polyisobutylene plasticized, heavy bodied for hooked-type ejs w/ limited movement.
6. BITUMINOUS COATING: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components and other deleterious impurities.

FABRICATION - GENERAL:
1. CUSTOM FABRICATE SHT MTL flashing and trim to comply w/ recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dims, mtl and other characteristics of item indicated. Shop fabricate items where practicable.
2. FABRICATE SHT MTL flashing and trim in thickness or wt needed to comply w/ performance reqs, but no less than specified for ea application and mtl. Fabricate sht mtl flashing and trim w/o excessive oil canning, buckling and tool marks and true to line and levels indicated, w/ exposed edges folded back to form hems.
3. TYP SEALED JTS: Form non-exp but movable jts in mtl to accommodate elastomeric sealant to comply w/ SMACNA recommendations.
4. EXP PROVISIONS: Where lapped or bayonet-type exp provisions in the work cannot be used, form ejs of intermeshing hooked flanges, not less than 1"-d, filled w/ elastomeric sealant concealed w/in jts.
5. CONCEAL FASTENERS & EXP PROVISIONS where possible on exposed-to-view sht mtl flashing and trim, UNO.
6. FABRICATE CLEATS & ATTACHMENT DEVICES from same material as accessory being anchored or from compatible, noncorrosive mtl. Fabricate in thickness as recommended by SMACNA's "Architectural Sheet Metal Manual" and FMG Loss Prevention Data Sheet 1-49 for app but no less than thickness of mtl being secured.
7. PROTECT MECH & PTD FIN on exposed surfaces from damage by applying a strippable, temp protective covering before shipping.

FABRICATED ITEMS:
1. THROUGH-WALL FLASHINGS (typ at openings in masonry or frame const): Fabricate in sections not exceeding 12' (min 8-I at cont units) at shelf angles in masonry const, at head and sill openings in either masonry or frame const and at all locations where indicated on the dwgs. Fabricate discontinuous lintel, sill and sim flashings to extend a min of 4" beyond ea side of wall openings, Form w/ 2"-h end dams where flashing is discontinuous, Fabricate w/ drip edge, by extending flashing 1/2" out from wall, w/ outer edge bent down 30 deg, Fabricate w/ preformed corners, end dams, other special shapes and seaming materials at splices as applicable. Fabricate from 0.016" thick (25 ga) min s/s sht meeting ASTM A 240 or ASTM A 666, Type 304, dead soft, fully annealed, in 2D (dull, cold-rolled) fin, UNO.
2. FABRICATE GUTTER UNITS from prefin ,032 alum, to cross-section indicated on the dwgs, complete w/ end pieces, outlet tubes and other accessories as reqd. Stiffen outer edge w/ hemmed return and fabricate outer edge 1/2" below back edge, Fabricate in min 96" sections, Provide 1/4" x 2" prefin solid alum gutter brackets bent to match shape of gutter profile. Furnish flat-stock gutter spacers fabricated from same mtl as gutters, of size recommended by SMACNA but not less than twice the gutter thickness. Fabricate ejs, ej covers, gutter bead reinf bars and gutter accessories from same mtl as gutters. Provide all gutters w/ cover screen of 1/4" alum hardware cloth in alum frame.
3. DOWNSPOUTS (DS): Provide 4"-w x 3"-d rectangular units min or in larger size as indicated on dwgs, Fabricate from min 0,032 prefin alum, Provide fabricated, telescoping elbows as reqd by bldg profile. Provide 1 1/4" x .050" thick ds strap anchors fabricated w/ both edges folded back and hemmed, at no more than 8' ctrs vert, matching color of ds material.

EXECUTION:
1. INSTALL SHT MTL RF FLASHING & TRIM to comply w/ SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, set units true to line and level as indicated. Install work w/ laps, jts and seams that will be permanently watertight.
2. ANCHOR SHT MTL FLASHING & TRIM and other components of the work securely in place, w/ provisions for thermal and struct movement. Use fasteners, protective coatings, separators, sealants and other misc items as req to complete sht mtl flashing and trim system. Torch cutting of sht mtl flashing and trim is not permitted.
3. UNDERLAYMENT: Where installing mtl flashing directly on cementitious or wd substrates, install a course of felt underlayment and cover w/ a slip sht or install a course of polyethylene underlayment. Bed flanges in thick coat of asphalt rfg cement where reqd for waterproof performance.
4. INSTALL EXPOSED SHT MTL FLASHING & TRIM w/o excessive oil canning, buckling, and tool marks. Install sht mtl flashing and trim true to line and levels indicated, Provide uniform, neat seams w/ min exposure of sealant, Install sht mtl flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dims of surfaces to be covered before fabricating sht mtl.
5. INSTALL CONT CLEATS anchored at 12" ctrs min at face.
6. EXP PROVISIONS: Provide for thermal exp of exposed flashing and trim, by spacing jts at a max of 10' w/ no jts allowed w/in 24" of corner or intersection. Where lapped or bayonet-type exp provisions cannot be used or would not be sufficiently watertight, form ejs of intermeshing hooked flanges, not less than 1"-d, filled w/ elastomeric sealant concealed w/in jts.
7. FASTENERS: Use fastener sizes that will penetrate substrate no less than 1 1/4" for nails and no less than 3/4" for wd screws. W/ alum sht mtl, use alum or s/s fasteners.
8. SEAL JTS W/ ELASTOMERIC SEALANT as reqd for watertight const, Where sealant-filled jts are used, embed hooked flanges of jt members not less than 1" into sealant. Form jts to completely conceal sealant. When ambient temp at time of install is moderate, between 40-70 deg F, set jt members for 50% movement either way. Adjust setting proportionately for install at higher ambient temps. Do not install sealant-type jts at temps below 40 deg F. Prep jts and apply sealants to comply w/ reqs in Div-07. Rivet or weld jts in uncoated alum where necessary for strength.

ROOF FLASHING INSTALL:
1. INSTALL SHT MTL RF FLASHING & TRIM to produce a complete roof drainage sys and to comply w/ SMACNA's "Architectural Sheet Metal Manual" as applicable. Provide concealed fasteners where possible, set units true to line and level as indicated. Install work w/ laps, jts and seams that will be permanently watertight. Coord install of roof perimeter flashing w/ install of roof drainage sys items.

ROOF-PENETRATION FLASHING: Seal units w/ elastomeric sealant and clamp flashing to pipes penetrating roof except for lead flashing on vent piping.
1. PIPE OR POST COUNTERFLASHING: Install counterflashing umbrella w/ close-fitting collar w/ top edge flared for elastomeric sealant, extending a min of 4" over base flashing. Install s/s draw band and tighten.
2. COUNTERFLASHING: Coord install of counterflashing w/ install of base flashing. Insert counterflashing in reglets or receivers and fit tightly to base flashing. Extend counterflashing 4" over base flashing. Lap counterflashing jts a min of 4" and bed w/ elastomeric sealant.
3. HANGING GUTTERS: Join sections w/ riveted and soldered jts or w/ lapped jts sealed w/ elastomeric sealant, Provide for thermal exp. Attach gutters at eave or fascia to firmly anchored gutter brackets straps spaced not more than 36" apart, Provide end closures and seal watertight w/ sealant. Slope to ds, Fasten gutter spacers to front and back of gutter, Loosely lock straps to front gutter bead and anchor to roof deck. Anchor and loosely lock back edge of gutter to cont cleat, eave or apron flashing, Anchor back of gutter that extends onto roof deck w/ cleats spaced not more than 24" apart. Anchor gutter w/ spikes and ferrules spaced not more than 24" apart. Install gutter w/ ejs at locations indicated but not exceeding 50' apart. Install ej caps. Install cont gutter screens on gutters w/ noncorrosive fasteners, removable for cleaning gutters.
4. INSTALL OF DS: Telescope upper sections into lower section 1 1/2" min, rivet and seal. Elbow ds away from bldg at bldg offsets and toward bldg immediately below gutter connection. Attach to wall strap anchors at ds top, bot, horiz jts and at 10' max ctrs, Secure straps to wall at masonry where ds are open ended and extend 3" min into storm drain boot or underground drainage sys, when indicated.

WALL FLASHING INSTALL:
1. INSTALL SHT MTL WALL FLASHING to intercept and exclude penetrating moisture according to SMACNA recommendations and as indicated. Coord install of wall flashing w/ install of wall opening components such as wdws, drs and louvers.

SECTION 07 65 00 – FLEXIBLE FLASHING
1. PROVIDE flexible, concealed through-wall flashing, where indicated on the dwgs and as specified herein. The work of this section includes flexible flashings in association w/ the following bldg components: dampproofing and waterproofing sys. Openings at ext wall sheathing, including ext drs, storefront / curtainwall sys and wdw unit heads and sills. Fire-protection and MEP penetrations of the ext envelope. Perimeter connections between ext wall sheathing and other ext materials, as indicated on the dwgs.
2. QUALITY ASSURANCE - MANUF QUALIFICATIONS: Provide flashing materials by a single manuf w/ no less than 25 yrs of experience in manuf flexible flashing products.
3. MANUF CERTIFICATION OF COMPATIBILITY: Provide certification flexible flashing products to be provided are compatible w/ other associated substrate, sheathing and WRB materials.

WARRANTY:
1. Manuf standard form agreeing to provide replacement materials to replace materials that do not comply w/ performance and other reqs noted.
2. WARRANTY TERM: Life of the install.

PRODUCTS:
MATERIAL PERFORMANCE REQS:
1. Tensile Strength of mtl: greater than 90,000 PSI min.
2. Puncture resistance of mtl: greater than 2,500 psi average.
3. Resistant to growth of mold pursuant to test method ASTM D 3273.
4. Fire resistance: Rated Class A per ASTM E 84, w/ Flame Spread less than 25 and fuel contributed less than 200.
5. When used w/ spray polyurethane foam insul, flashing material must withstand 300 deg F temp w/o changing the long-term performance of the flashing.

FLEXIBLE FLASHING:
1. Self-adhering flashing material, consisting of a min 2 mil thick s/s foil facing material w/ a min 8 mil thick butyl block co-polymer adhesive backing w/ a siliconized release film, in manuf standard width rolls as reqd for project conditions.
2. Acceptable Products include the following: B.O.D.: York Manufacturing, Inc.; York 304 SS; Illinois Products, Inc.; IPCO Self-Adhesive Stainless Steel; STS Coatings, Inc.; Gorilla Flash SS peel & stick butyl; TK Products, Inc.; TK Self-Adhering Stainless Steel TWF; Vapro Shield, Inc.; VaproThru-Wall Flashing SA.

FLEXIBLE FLASHING ACCESSORIES:
1. POLYETHER SEALANT: Flexible flashing manuf product, eq to: SPLICE TAPE: Flexible flashing manuf approved product, eq to: York 304 SS, by York; Self-Adhering Stainless-Steel Flashing, by IPCO.
2. CORNER & END DAMS: Form in field from flexible flashing material or use 26 ga s/s pre-manuf units.
3. PREFABRICATED PVC SILL FLASHINGS (contractor 's option to flexible flashing at dr and window sills): molded PVC fabrication w/ end dams, for level window or dr support w/ integral slope to drain moisture infiltration to the bldg ext, up to 120"-w, and w/ manuf 10 yr limited warranty: B.O.D.: "Sloped Sill Pan" as manuf by SureSill.

ACCESSORIES:
1. MASTIC/SEALANT: Manuf recommended material consisting of a 1-part, 100% solids, solvent-free silyl-terminated polyether sealant meeting ASTM C 920-11, Type S, Grade NS, Class 50. Acceptable products include: UniverSeal US-100 by York; GreatSeal LT-100 by STS Coatings; R-Guard Joint Seam Sealer by Prosoco Inc.
2. TERMINATION BAR: Manuf standard 1"-h unit w/ a sealant catch lip of rigid PVC composite material or of formed s/s sht mtl, eq to T-96 termination bar or s/s term bar, by York.
3. PRE-FORMED END DAMS: Manuf standard units fabricated from min 0.018" thick (26 ga) s/s sht mtl.
4. ANCHORS & FASTENERS: Units as recommended by flexible flashing manuf as applicable for intended use.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

FLEXIBLE FLASHING INSTALL AT SHEATHING W/ FRAMING SUBSTRATE:
1. JT SPLICES: Typ provide a single, cont length of flexible flashing at head and sill conditions. If jts cannot be avoided in long extents of openings, lap self-adhering flashing material over by no less than 3".
2. PROVIDE SHT MTL THROUGH-WALL FLASHING per Div-07 at the following locations: where the underside of head flashing will be exposed to view, provide s/s, copper or other prefin sht mtl flashing material formed w/ an integral drip-edge in material/color as selected by the architect to be compatible w/ adjacent fin. Include pre-formed outside corners when applicable. At internal void spaces of sill conditions exceeding max width permitted by flexible flashing manuf, provide rigid s/s sht flashing bridge material securely covering the void.
3. DEPTH OF FLASHING MATERIAL: As reqd to extend to the outside face of the ext wall finish, through the fin assembly and at head conditions, up onto sheathing material surface (above lintel, when applicable) by not less than 3". At sill conditions, cover entire depth of wall thickness plus the ht reqd to turn up on inside as appropriate.
4. AT HEAD CONDITIONS Extend flexible flashing no less than 6" beyond the rough-opening widths onto sheathing surfaces. At ends of horiz flashing members, fold ends to form an end-dam or use pre-manuf units. Press self-adhered flashing material onto the horiz substrate support material (when applicable) and fold up onto sheathing material surface. Terminate top edge by anchoring a termination bar through the sheathing into the substrate framing members and seal the top edge w/ mastic/sealant material. Terminated top edges of material will be covered w/ a compatible WRB membrane flashing material per Div-07.
5. AT SILL CONDITIONS install flexible flashings only after application of the WRB membrane flashing materials per Div-07. Extend fully through the int depth of the wall opening and turn-up onto inside surface as appropriate and secure. At ends of sill openings, fold flashing material to create end-dams or use pre-manuf units sealed to the flexible flashing material. Extend flexible flashing over edge and down onto the WRB fin sheathing material by no less than 3", press tight to surface and anchor through sheathing into substrate framing members.
6. AT INSIDE & OUTSIDE CORNERS OF FLEXIBLE FLASHING: Field fabricate in method acceptable to manuf using folded flashing material or use preformed manuf corners spliced to the flexible flashing.
7. AT CONC BACKUP, surface mount flashing after dampproofing or waterproofing install is complete, in accordance w/ manuf install instructions. Fasten to substrate surface at top edge by embedding in a layer of sealant and install a termination bar anchored to the substrate and seal the top edge of flashing above the termination bar with mastic/sealant.
8. COVER FLEXIBLE FLASHING MATERIAL w/in 7 days of install to protect from damage & sunlight. Repair & replace flexible flashing that has been left unprotected, punctured or torn.

SECTION 07 76 16 ROOF DECKING PAVERS
WORK INCLUDED
1. Provide roof decking decking system where indicated on the drawings, as specified herin, and as necessary for complete installation.

SUBMITTALS
1. SUBMIT PRODUCT DATA for decking planks, pedestal supports and miscellaneous accessories. Include construction details, material description, dimensions of individual components and profules, and storage, handling, and installation requirements and reccomendations.
2. SUBMIT WARRANTY: specified in this section

INSTALLER QUALIFICATIONS
1. MINIMUM of three (3) years prior experience in installation of similar products.

MATERIAL STORAGE
1. STORE materials off the ground: if stored on the roof, do not exceed structural capacity of the deck.

LAYOUT AND INSTALLATION
1. COORDINATE layout of pavers with roofing system to maintain a leakproof, weathertight, secure, and noncorrosive installation. With Architect's approval, adjust location of roof decking unit or components that would interrupt roof drainage routes.

MAINTENANCE TOOLS:
1. provide appropriate tools for ease of installation and safety

WARRANTY:
1. DECK PAVERS: Provide manufacturer's standard 10-year limited material warranty.

PRODUCTS
1. ROOF DECKING PLANKS: 2X6 Treated planks
A. Surface: free of knots and treated for outdoor use
B. Basid-of-Design & Finish: Stained to match "Rulon Endure Planks", RE: Rulon product info and submittals to match B.O.D.

PAVER PEDESTAL SYSTEM
1. INTEGRATED system consisting of adjustable height units and wood joist adapter provided by manufacturer.
A. HEIGHT ADJUSTMENT RANGE: RE: drawings for MIN. and MAX.
B. BASIS-OF-DEISGN: "SkyJack SD-M Adjustable Pedestal" by SkyDeck USA.

PROTECTION & DRAINAGE COURSE
1. (above roofing membrane): Nonwoven polyester mat or insulation board meeting requirements of roof membrane manufacturer.

EXECUTION
1. EXAMINE SUBSTRATES, area, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of work. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored and is ready to receive roof decking pavers.
DO NOT BEGIN INSTALLATION until roofing work is completed, including work penetrating waterproof plane. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION:
1. CLEAN ROOF SURFACES thoroughly prior to installation.
2. PLAN SEQUENCE OF TRANSPORTING and placing pavers to avoid damage to membrane and already installed pavers. Correct any roof deficiencies (i.e., membrane drainage) prior to commencement.
3. PERIMETER CONTAINMENT: Provide "boxing-in" of any area of the pedestal decking that is not fully contained by a parapet or foundation wall. Install perimeter framing and edging boards at the outside of the deck perimeter to provide restraint.

INSTALLATION (PEDESTAL)
1. COMPLY with manufacturers instruction for installation of roof decking pedestals and paver/planks
2. GENERAL LAYOUT OF PEDESTAL SYSTEM in a square grid pattern with joints parallel and perpendicular to building walls and other lines unless noted otherwise in the Drawings. Pedestal spacing 24" O.C. or per manufacturer spacing requirements.
3. ENSURE base pedestal recieves joist adapter and secure per manufacturer instructions,
4. INSTALL 2x treated wood joist (sizing per manufacturer) parallel

PLANK INSTALLATION
1. PLACE planks in a traditional pattern, perpendicular (per Plans) to wood joists.

PROTECTION
1. PROTECT installed wood deck until completion of project, Prohibit construction traffic unless adequate precautions are taken. Do not allow loads in excess of normal foot-traffic on roof decking
2. REPAIR or replace damaged deck planks, pedestal or adapters.

SECTION 07 84 00 – FIRESTOPPING
1. THIS SECTION INCLUDES firestop sys for sys terminations and penetrations through the fire-resistance-rated assemblies, including both empty openings and openings containing penetrating items,

PERFORMANCE REQS:
1. PROVIDE FIRESTOP SYS produced and installed to resist spread of fire according to reqs indicated, resist passage of smoke and other gases and maintain original fire-resistance rating of assembly penetrated,
2. F-RATED SYS: Provide through-penetration firestop sys w/ F-ratings indicated, as determined per ASTM E 814, but no less than that eq to or exceeding fire-resistance rating of const penetrated.
3. FOR PIPING PENETRATIONS for plumb and wet-pipe sprinkler sys, provide moisture-resistant through-penetration firestop sys. For penetrations involving insul piping, provide through-penetration firestop sys not req removal of insul.

QUALITY ASSURANCE:
1. INSTALLER QUALIFICATIONS: An experienced installer who has completed through-penetration firestop sys sim in material, design and extent indicated for this project and whose work has resulted in const w/ a record of successful in-service performance.
2. SOURCE LIMITATIONS: Obtain through-penetration firestop sys, for ea kind of penetration and const condition indicated, from a single manuf.
3. FIRE-TEST-RESPONSE CHARACTERISTICS: Provide through-penetration firestop sys that comply w/ the following reqs and those specified in "Performance Reqs" above: Firestopping tests are performed by a qualified testing and inspecting agency. A qualified testing and inspecting agency that is UL or another agency performing testing and follow-up inspection services for firestop sys acceptable to AHJ. Through-penetration firestop sys are identical to those tested per ASTM E 814. Provide rated sys complying w/ the following reqs: Through-penetration firestop sys products bear classification marking of qualified testing and inspecting agency. Through-penetration firestop sys correspond to those indicated by reference to through-penetration firestop sys designations listed by the following: UL "Fire Resistance Directory."

DELIVERY, STORAGE & HANDLING:
1. DELIVER PRODUCTS to Project site in original, unopened containers or packages w/ intact and legible manuf labels identifying product and manuf: date of manuf; lot #; shelf life, if applicable; qualified testing and inspecting agency's classification marking applicable to project; curing time; and mixing instructions for multi-component materials.
2. STORE & HANDLE MATERIALS for through-penetration firestop sys to prevent their deterioration or damage due to moisture, temp changes, contaminants or other causes.

PROJECT CONDITIONS:
ENVIRONMENTAL LIMITATIONS: Do not install through-penetration firestop sys when ambient or substrate temps are outside limits permitted by through-penetration firestop sys manuf or when substrates are wet due to rain, frost, condensation or other causes.
VENTILATE through-penetration firestop sys per manuf written instructions by natural means or where this is inadequate, forced-air circulationCOORD:
1. COORD CONST of openings and penetrating items to ensure through-penetration firestop sys are installed according to specified reqs.
2. COORD SIZING of sleeves, openings, core-drilled holes or cut openings to accommodate through-penetration firestop sys.

PRODUCTS:
1. MANUF: Subject to compliance w/ reqs, manuf offering products that may be incorporated into the work include, but are not limited to the following: A/D Fire Protection Systems Inc, Grace Construction Products, Hilti, Inc, Johns Manville, Nelson Firestop Products, NUCO Inc, Passive Fire Protection Partners, RectorSeal Corporation, Specified Technologies Inc. 3M Fire Protection Products, Tremco, Inc.; Tremco Fire Protection Systems Group, USG Corporation, DAP Inc.
2. COMPATIBILITY: Provide through-penetration firestop sys compatible w/ one another, w/ the substrates forming openings and w/ the items, if any, penetrating through-penetration firestop sys, under conditions of service and application, as demonstrated by through-penetration firestop sys manuf based on testing and field experience.
3. ACCESSORIES: Provide components for ea through-penetration firestop sys needed to install fill materials and to comply w/ "Performance Req". Use only components specified by through-penetration firestop sys manuf and approved by the qualified testing and inspecting agency for firestop sys indicated. Accessories include, but are not limited to:
   - Permanent forming/damming/backing materials, including: Slag-/rock-wool-fiber insul. Sealants used in combination w/ other forming/damming/backing materials to prevent leakage of fill materials in liquid state. Fire-rated form bd. Fillers for sealants. Temp forming materials. Substrate primers. Collars. Stl sleeves.

FIRESTOPPING MATERIALS:
1. GENERAL: Provide through-penetration firestop sys containing the types of fill materials indicated by reference to the types of materials described in this article. Fill materials are those referred to in directories of the referenced testing and inspecting agencies as fill, void or cavity materials.
2. LATEX SEALANTS: Single-component latex formulations that after cure do not re-emulsify during exposure to moisture.
3. FIRESTOP DEVICES: Factory-assembled collars formed from galv stl and lined w/ intumescent material sized to fit specific dia of penetrant.
4. INTUMESCENT PUTTIES: Non-hardening dielectric, water-resistant putties containing no solvents, inorganic fibers or silicone compounds.
5. INTUMESCENT WRAP STRIPS : Single-component intumescent elastomeric shts w/ alum foil on one side.
6. MORTARS: Prepackaged, dry mixes consisting of a blend of inorganic binders, hydraulic cement, fillers and lightweight aggregate formulated for mixing w/ water at project site to form a non-shrinking, homogeneous mortar.
7. SILICONE FOAMS: Multicomponent, silicone-based liquid elastomers that, when mixed, expand and cure in place to produce a flexible, non-shrinking foam.
8. SILICONE SEALANTS: Moisture-curing, single-component, silicone-based, neutral-curing elastomeric sealants of grade indicated below: Grade for vert surfaces: Non-sag formulation for openings in vert and other surfaces.
9. CAST-IN-PLACE FIRESTOP DEVICES: Factory-assembled devices for use in cast-in-place conc flrs and consisting of an outer metallic sleeve lined w/ an intumescent strip, a radial extended flange attached to one end of the sleeve for fastening to conc formwork and a neoprene gasket.
10. PILLOWS/BAGS: Reusable heat-expanding pillows/bags consisting of glass-fiber cloth cases filled w/ a combination of mineral-fiber, water-insoluble exp agents and fire-retardant additives. Where exposed, cover openings w/ stl-reinf wire mesh to protect pillows/bags from being easily removed.
11. MIXING: For those products req mixing before application, comply w/ penetration firestopping manuf written instructions for accurate proportioning of materials, water (if reqd), type of mixing equip, selection of mixer speeds, mixing containers, mixing time and other items or procedures needed to produce products of uniform quality w/ optimum performance characteristics for application indicated.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ, or substrate temps are outside limits permitted by through-penetration firestop sys manuf or when substrates are wet due to rain, frost, condensation or other causes.
1. VENTILATE through-penetration firestop sys per manuf written instructions by natural means or where this is inadequate, forced-air circulation.

COORD:
1. COORD CONST of openings and penetrating items to ensure through-penetration firestop sys are installed according to specified reqs.
2. COORD SIZING of sleeves, openings, core-drilled holes or cut openings to accommodate through-penetration firestop sys.

PRODUCTS:
1. MANUF: Subject to compliance w/ reqs, manuf offering products that may be incorporated into the work include, but are not limited to the following: A/D Fire Protection Systems Inc, Grace Construction Products, Hilti, Inc, Johns Manville, Nelson Firestop Products, NUCO Inc, Passive Fire Protection Partners, RectorSeal Corporation, Specified Technologies Inc. 3M Fire Protection Products, Tremco, Inc.; Tremco Fire Protection Systems Group, USG Corporation, DAP Inc.
2. COMPATIBILITY: Provide through-penetration firestop sys compatible w/ one another, w/ the substrates forming openings and w/ the items, if any, penetrating through-penetration firestop sys, under conditions of service and application, as demonstrated by through-penetration firestop sys manuf based on testing and field experience.
3. ACCESSORIES: Provide components for ea through-penetration firestop sys needed to install fill materials and to comply w/ "Performance Req". Use only components specified by through-penetration firestop sys manuf and approved by the qualified testing and inspecting agency for firestop sys indicated. Accessories include, but are not limited to:
   - Permanent forming/damming/backing materials, including: Slag-/rock-wool-fiber insul. Sealants used in combination w/ other forming/damming/backing materials to prevent leakage of fill materials in liquid state. Fire-rated form bd. Fillers for sealants. Temp forming materials. Substrate primers. Collars. Stl sleeves.

FIRESTOPPING MATERIALS:
1. GENERAL: Provide through-penetration firestop sys containing the types of fill materials indicated by reference to the types of materials described in this article. Fill materials are those referred to in directories of the referenced testing and inspecting agencies as fill, void or cavity materials.
2. LATEX SEALANTS: Single-component latex formulations that after cure do not re-emulsify during exposure to moisture.
3. FIRESTOP DEVICES: Factory-assembled collars formed from galv stl and lined w/ intumescent material sized to fit specific dia of penetrant.
4. INTUMESCENT PUTTIES: Non-hardening dielectric, water-resistant putties containing no solvents, inorganic fibers or silicone compounds.
5. INTUMESCENT WRAP STRIPS : Single-component intumescent elastomeric shts w/ alum foil on one side.
6. MORTARS: Prepackaged, dry mixes consisting of a blend of inorganic binders, hydraulic cement, fillers and lightweight aggregate formulated for mixing w/ water at project site to form a non-shrinking, homogeneous mortar.
7. SILICONE FOAMS: Multicomponent, silicone-based liquid elastomers that, when mixed, expand and cure in place to produce a flexible, non-shrinking foam.
8. SILICONE SEALANTS: Moisture-curing, single-component, silicone-based, neutral-curing elastomeric sealants of grade indicated below: Grade for vert surfaces: Non-sag formulation for openings in vert and other surfaces.
9. CAST-IN-PLACE FIRESTOP DEVICES: Factory-assembled devices for use in cast-in-place conc flrs and consisting of an outer metallic sleeve lined w/ an intumescent strip, a radial extended flange attached to one end of the sleeve for fastening to conc formwork and a neoprene gasket.
10. PILLOWS/BAGS: Reusable heat-expanding pillows/bags consisting of glass-fiber cloth cases filled w/ a combination of mineral-fiber, water-insoluble exp agents and fire-retardant additives. Where exposed, cover openings w/ stl-reinf wire mesh to protect pillows/bags from being easily removed.
11. MIXING: For those products req mixing before application, comply w/ penetration firestopping manuf written instructions for accurate proportioning of materials, water (if reqd), type of mixing equip, selection of mixer speeds, mixing containers, mixing time and other items or procedures needed to produce products of uniform quality w/ optimum performance characteristics for application indicated.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

FIRESTOPPING SYSTEMS SCHEDULE:
Where UL-classified sys are indicated, they refer to sys #s in UL "Fire Resistance Directory" under product Category XHEZ. For all sys below, the type of fill material must be as reqd to achieve the rating reqd, per manuf testing and recommendations:
1. FIRESTOPPING W/ NO PENETRATING ITEMS: UL-Classified Sys C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
2. FIRESTOPPING FOR METALLIC PIPES, CONDUIT OR TUBING: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
3. FIRESTOPPING FOR NONMETALLIC PIPE, CONDUIT OR TUBING: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
4. FIRESTOPPING FOR ELECT CABLES: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.FIRESTOPPING FOR INSULATED PIPES: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
5. FIRESTOPPING FOR MISC ELECT PENETRANTS UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
6. FIRESTOPPING FOR MISC MECH PENETRANTS: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
7. FIRESTOPPING FOR GROUPINGS OF PENETRANTS: UL-Classified Sys: C-AJ-. Submit # of sys compatible w/ fire rating of sys being penetrated.
8. TOP OF WALL SEAL AT SHAFTWALL: UL # HW-D-0119 using sealant or reviewed eq.
9. TOP OF WALL SEAL AT SHAFTWALL: UL # HW-D-0119 using sealant or reviewed eq.

SECTION 07 92 00 – JOINT SEALANTS
1. PROVIDE sealants complying w/ reqs included herein, in order to establish and maintain airtight, vermin proof and waterproof cont seals on a permanent basis. Failures of installed sealants to comply w/ this req will recognized as failures of materials and workmanship.
2. SEALANT COLORS: Match adj material color typ as reviewed & accepted by the architect.
3. The quantity of sealant colors is limited only by the # and color of adjacent materials indicated in the dwgs.
4. Provide custom colors to match adjacent materials at no additional cost if manuf "standard" colors do not match adj materials, in the professional opinion of the architect.
5. Provide multiple-colors of sealant as reqd by field-conditions when adjacent materials and their colors change throughout the ht or w of a sealant jt.

PRODUCTS:
1. ELASTOMERIC SEALANTS: Comply w/ ASTM C 920 and other req indicated for ea liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class and uses related to exposure and jt substrates.
2. SEALANT APPLICATIONS / MATERIAL TYPES SCHED:
   - EXT PAVEMENT JTS (including perimeter of bldg at pavement, jts sidewalks, curbs and cjs in pavement): Urethane sealant per ASTM C 920 Type S, grade P, class 25, use T.
   - EXT VERT BLDG JTS, ext wall penetrations, jts between different ext fin materials, and cjs w/in stone, masonry or other ext fin, as applicable): Ext silicone sealant per ASTM C 920 Type S, grade NS, class 100/50. Use NT and use related to jt substrates of M, G, A and, as applicable to jt substrates indicated, O.
   - DOOR THRESHOLDS: Butyl-rubber sealant per ASTM C 1085.
   - TYP INT JTS (including jts w/in and abutting drywall): Latex jt sealant per ASTM C 834, Type P, Grade NF.
   - TILE JTS (and jts to adjacent fin, plumb fixtures to walls and other "non-food related" but "wet" locations including showers): Sanitary silicone sealant per ASTM C 920 Type S and Grade NS, Class 25, white colored (UNO) mildew-resistant, acid-curing silicone sealant.
   - "FOOD-RELATED" JTS (in kitchens and between kitchen countertops and walls): NSF approved silicone sealant w/o mildew resistance, meeting ASTM C 920 Type S and Grade NS Class 25, white colored (UNO) acid-curing.
3. PROVIDE SEALANT BACKINGS of material and type that are nonstaining; are compatible w/ jt substrates, sealants, primers and other jt fillers; and are approved for applications indicated by sealant manuf based on field experience and lab testing.
4. PRIMER: Material recommended by jt-sealant manuf where reqd for adhesion of sealant to jt substrates indicated, as determined from preconst jt-sealant-substrate tests and field tests.
5. CLEANERS FOR NONPOROUS SURFACES: Chemical cleaners acceptable to manuf of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming jt substrates and adj nonporous surfaces in any way and formulated to promote optimum adhesion of sealants to jt substrates.
6. MASKING TAPE: Nonstaining, nonabsorbent material compatible w/ jt sealants and surfaces adjacent to jts.
7. WEEPS: Absorbent, UV-resistant synthetic fiber rope, 3/8" min dia, in length reqd to produce an initial 2" exposure on the ext face extending through sealant backing into the internal drainage plane.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

DIVISION 08: OPENINGS
SECTION 08 11 00 – METAL DOORS AND FRAMES
1. PROVIDE mtl dr frames and hollow mtl drs, where noted and specified herein. Comply w/ applicable reqs of the Steel Door Institute "Recommended Specifications: Standard Steel Doors and Frames."
2. SUBMIT PRODUCT DATA for ea type of dr and frame specified, include dtls of const, materials, dims, hardware prep, core, label compliance, sound ratings, profiles and fin.
3. SUBMIT DR SCHED indicating drs & frames w/h the same reference #s for dtls and openings as those on CDs. Indicate coord of glazing frames and stops w/ glass and glazing reqs .
4. STORE DRS & FRAMES at bldg site under cover. Place units on min 4"-h wd blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber. If cardbd wrappers on drs become wet, remove cartons immediately. Provide min 1/4" spaces between stacked drs to promote air circ.
5. Hot-Rolled Stl Shts and Strip: Commercial-quality carbon stl, pickled and oiled, complying w/ ASTM A 569.
6. Cold-Rolled Stl Shts: Carbon stl complying w/ ASTM A 366, commercial quality or ASTM A 620, dwg quality, special killed.
7. Galv Stl Shts: Zinc-coated carbon stl complying w/ ASTM A 526, commercial quality or ASTM A 642 dwg quality, hot-dip galv according to ASTM A 525, w/ A 60 or G 60 coating designation, mill phosphatized.
8. Supports and Anchors: Fab from no less than 0.0478" thick stl sht; 0.0516" thick galv stl where used w/ galv stl frames, Inserts, Bolts & Fasteners: manuf standard units. Where items are to be built into ext walls, hot-dip galv complying w/ ASTM A 153, Class C or D as applicable.
9. STL DRS: Provide 1-3/4" thick drs of materials and ANSI/SDI 100 grades and models specified below or as indicated on dwgs.
10. INT DRS: Provide drs complying w/ ANSI 250.8 for level and model and ANSI A250.4 for physical-endurance level: Level 2 and Physical Performance Level B (Heavy Duty), Faces: 0.042" stl faces both sides, Type: Model 2.
11. EXT DRS: Provide drs complying w/ reqs indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level: Level 3 and Physical Performance Level A (Extra Heavy Duty), Faces: 0.053" stl faces both sides, Type: Model 2, galv.
12. HARDWARE REINF: Fab reinf plates from same material as dr face shts to comply w/ the following min sizes: hinges: min 0.123" thick by 1 1/2"-w x 6" longer than hinge, secured by not less than 6 spot welds, pivots: min 0.167" thick by 1 1/2"-w by 6" longer than hinge, secured by no less than 6 spot welds, Lock face, flush bolts, closers and concealed holders: Min 0.067" thick, Other surface-mounted hardware: Min 0.067" thick.
13. STL FRAMES: Per ANSI A250.8 and w/ dtls indicated for type and profile. Conceal fastenings, UNO. Fab w/ mitered corners and cont welded const and as follows: Int frames for Level 2 int drs: 0.042" thick stl sht, Ext frames for Level 3 Ext Drs: 0.05" thick galv stl sheet.
14. FRAME HARDWARE REINF: Fabricate reinf plates from same material as frames to comply w/ the following min sizes: hinges: min 0.123" thick by 1 1/2"-w x by 6" longer than hinge, secured by no less than 6 spot welds. Pivots: min 0.167" thick by 1 1/2"-w by 6" longer than hinge, secured by not less than 6 spot welds. Lock face, flush bolts, closers and concealed holders: min 0.067" thick. All other surface-mounted hardware: min 0.067" thick. Supports and anchors: fabricated from electrolytic zinc-coated or metallic-coated stl sht.
15. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, no less than 0.042" thick, w/ corrugated or perforated straps not less than 2"-w by 10"-l or wire anchors no less than 0.177" thick.
16. Stud-Wall Type: Designed to engage stud, welded to back of frames; not < 0.042".
17. SILENCERS: Except on weatherstripped frames, drill stops to receive 3 silencers on strike jambs of single-dr frames & 2 silencers on heads of double-dr frames.
18. FABRICATE STL DR AND FRAME UNITS to be rigid, neat in appearance and free from defects, warp or buckle. Shop prime all hollow mtl drs and frames.
19. CLEARANCES: No more than 1/8" at jambs and heads, except: not more than 1/4" between non-fire-rated pairs of drs. Not more than 3/4" at bot.
20. FABRICATE EXPOSED FACES of drs and pnls, including stiles and rails of nonflush units, from only cold-rolled stl sht.
21. TOLERANCES: Comply w/ SDI 117.
22. FABRICATE CONCEALED STIFFENERS, reinf, edge channels, louvers and moldings from either cold- or hot-rolled stl sht.
23. EXPOSED FASTENERS: UNO, provide countersunk flat heads for exposed screws & bolts.
24. THERMAL-RATED (INSULATING) ASSEMBLIES: At ext locations where a door is part of a thermally-insulated envelope, provide drs fabricated as thermal-insulating assemblies complying w/ testing per ASTM C 236 or ASTM C 976 on fully operable dr assemblies. UNO, provide thermal-rated assemblies w/ U-value rating of 0.41 btu/sf x h x deg F or better.
25. HARDWARE PREP: Prep drs and frames to receive mortised and concealed hardware according to final dr hardware sched and templates provided by hardware supplier. Comply w/ applicable reqs of SDI 107 and ANSI A115 Series specs for dr and frame prep for hardware. Reinf drs and frames to receive surface-applied hardware. Drilling and tapping for surface-applied hardware may be done at project site.
26. LOCATE HARDWARE as indicated on dwgs or if not indicated, according to the Door and Hardware Institute's recommendations.
27. PREFIT DRS at factory w/ clearance of 1/8" at vert edges and top. 1/8" in 2" bevel at lock edge. Bot clearance: 3/8" w/o threshold, 3/4" w/ threshold.
28. SURFACE PREP: Solvent-clean surfaces to comply w/ SSPC-SP 1 to remove dirt, oil, grease and other contaminants that could impair pt bond. Remove mill scale and rust from uncoated stl to comply w/ SSPC-SP 5.
29. PRETREATMENT: Immediately after surface prep, apply a conversion coating of type suited to organic coating applied over it.
30. AT GALV STL SHT FIN, apply zinc-dust, zinc-oxide primer pt complying w/ performance reqs of FS TT-P-641, Type II for field ptg.
31. FACTORY PRIMING FOR FIELD-PTD FIN: Apply shop primer that complies w/ ANSI A224.1 acceptance criteria, is compatible w/ fin pt sys indicated and has capability to provide a sound fdn for field-applied topcoats. Apply primer immediately after surface prep and pretreatment.
32. PLACING FRAMES: Comply w/ provisions of SDI 105, UNO.
33. DR INSTALL: Fit hollow-mtl drs accurately in frames specified in ANSI/SDI 100.
34. PRIME COAT TOUCHUP: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

SECTION 08 14 00 – WOOD DOORS
PROVIDE wd drs where noted on the dwgs, as specified herein and in compliance w/ applicable reqs of AWI "Architectural Woodwork Quality Standards".
FIRE-RATED WD DRS: Provide fire-rated wd drs at int drs opening to a garage and where otherwise indicated on the dwgs, Units must be identical in materials and const to units tested in dr and frame assemblies per ASTM E 152 and which are labeled and listed by UL. Warnock Hersey or other testing and inspection agency acceptable to AHJ, min 1-hr fire rated.
WARRANTY: Submit written agreement on dr manuf standard form signed by manuf, installer and contractor agreeing to repair or replace defective drs that have warped more than 1/4" in a 42x84" section or show telegraphing of core const in face veneers exceeding 0.01" in a 3" span, or do not conform to tolerance limitations of referenced quality standards. Warranty must be in effect during the following period of time after date of substantial completion: solid core int drs: life of install.

PRODUCTS:
1. MANUF: Obtain drs from a single manuf. Provide products of acceptable manuf which have been in satisfactory use in sim service for 3 yrs. Use experienced installers. Acceptable manuf include: Algoma Hardwoods, Eggers Industries, Graham, V-T Industries, Marshfield Door Systems, Simpson.
2. SOLID-CORE FLUSH WD DRS: AWI Custom Grade solid-core 5 ply hardwd face veneer w/ species of face veneer as indicated on the dwgs.
3. SOLID-CORE FLUSH PTD WD DRS: AWI Custom Grade const w/ faces of pt-grade birch or other close-grained hardwd both sides. Provide solid, particlebd cores complying w/ ANSI A208.1, Grade LD-2, factory primed.
4. SOLID CORE MDO FACED WD DRS: AWI Custom Grade const w/ faces of medium-density overlay. Provide solid, particlebd cores complying w/ ANSI A208.1, Grade LD-2, factory primed.
5. STILE & RAIL WD DRS (transparent fin): 1 3/4" thick units meeting NWWDA Grade "Select" for transparent fin, fabricated from hardwd-veneered, struct composite lumber or hardwd veneered, edge-glued, finger-jtd clear lumber, w/ hardwd veneers selected for sim of grain & color & arranged for optimum match between adj pieces. Provide units in pnl design and stile/rail layout: as indicated on the dwgs – or if not indicated, provide units w/ intermediate lock-height rail & w/ 2 pnls – w/ 5 1/2" nom side, intermediate & top rails & a 10" h bot rail per ADA/ANSI.
6. WD BEADS FOR LITE OPENINGS: Same species as dr faces.
WD DR FRAMES: UNO, provide wd dr frames fabricated of hardwd per AWI "Custom" Quality Standard, to match species & fin of dr pnls, surfaced 4 sides typ w/ exposed edges eased. Assemble frames & casings in shop to the greatest extent feasible except where shipping limitations req field assembly. Const: 1 1/2" w solid hardwd "T" stop typ, double abbeted in jamb.
7. FACTORY MACHINE DRS & FRAMES FOR HARDWARE that is not surface applied. Locate hardware to comply w/ DHI-WDHS-3. Predrill pilot holes and comply w/ final hardware sched, dr frame shop dwgs, DHI A115-W series standards and hardware templates. Coord measurements of hardware mortises in mtl frames to verify dims and alignment before proceeding w/ factory machining.

EXECUTION:
1. Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 08 31 00 – ACCESS DOORS AND PANELS
1. WORK INCLUDED: Provide access drs and pnls as specified herein and as necessary for complete install. Provide units for both wall access and for clg access at the following locations and at locations indicated on the dwgs:
   - Access to valves, controls, pnls and other concealed items req maintenance.
   - Provide fire-rated units when located w/in fire-rated partitions

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP — JASON GROSSI — jgrossi@ergms.com — 601.362.3552
STRUCTURAL — MIKE GODFREY — secondmoment@comcast.net — 601.845.1655
CIVIL ENGINEERING — SHELBY MURRAY — shelby@clearpointengineers.com — 601.261.2609
ELECTRICAL — CHRIS GREEN — cgreen@thepowersource.us — 601.605.4820
LANDSCAPE — AUSTIN LOVITT — austin.lovitt@neel-schaffer.com — 601.545.1565
DEVELOPER — WALKER THRASH — walker@vertikalco.com — 601.310.4402

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3200 MONTAGUE BLVD
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ARCHITECTURAL SPECIFICATIONS
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PRODUCTS - MATERIALS:
1. Stl Plates, Shapes and Bars: ASTM A 36.
2. Hot-Rolled Stl Shts: ASTM A 569, Commercial Stl, Type B; free of scale, pitting and surface defects; pickled and oiled; w/ min thickness indicated representing specified nom thickness according to ASTM A 568.
3. Cold-Rolled Stl Shts: ASTM A 366, Commercial Stl or ASTM A 620, Dwg Stl, Type B; stretcher-leveled standard of flatness; w/ min thickness indicated representing specified nom thickness according to ASTM A 568. Electrolytic zinc-coated stl sht, complying w/ ASTM A 591, Class C coating, may be substituted at fabricator's option.
4. SHOP PRIMER FOR FERROUS MTL: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying w/ performance reqs in FS TT-P-664; selected for good resistance to normal atmospheric corrosion, compatibility w/ fin pt sys indicated and capability to provide a sound fdn for field-applied topcoats despite prolonged exposure.
5. FIBERGLASS REINF POLYESTER (FRP) COMPONENTS: .015 to .025"-thick Class A, flame retardant promoted thixotropic polyester resin formed fin layered w/ 75% glass fiber mat and "chop" by PPG or Owens/Corning and 25% matrix resin filler for body of components, into components meeting ASTM E-84 flame spread rating of 25 or less.
6. CAST CLNG ACCESS PNLS: Pl-grade FRP molded, sq-edged 2-piece trim-ring unit w/ tapered edges to accept drywall jt treatment w/ matching drop-in flush faced pnl w/ no more than 1/8" gap all around, Pnl and edge trim fin ready for field application of primer and pt fin:
   - B.O.D: Standard Access Panel by Moonlight Molds Inc.
   - Typ size for soffit / clg access: # AP-24, 24x24", UNO.
7. WALL ACCESS DRS: 0.067" (14 ga) flush stl dr set flush w/ flange of 0.053" (16 ga) box return frame and w/ 0.024 (24 ga) x 1"-w perforated galv mtl flange all around in electrostatic baked enamel fin over rust-inhibiting phosphate treated stl.
8. B.O.D: Williams Bros. Corporation # WB-DW

FABRICATION:
1. PROVIDE WALL ACCESS DR ASSEMBLIES manuf as integral units ready for install. For mtl surfaces exposed to view in the completed work, provide materials w/ smooth, flat surfaces w/o blemishes. Do not use materials w/ exposed pitting, seam marks, roller marks, rolled trade names or roughness. Grind exposed welds smooth and flush w/ adj surfaces. Furnish attachment devices and fasteners of type reqd to secure access pnls.
2. FLUSH ACCESS DRS & FRAMES: Fabricated from stl sht.
   - Dr: min 0.068" (14 ga) thick sht mtl, set flush w/ flange of frame.
   - Trimless frame: 0.068" (14 ga) thick min sheet mtl w/ drywall bead flange.
   - Hinges: con piano hinge.
   - Fire-Resistance Rating (when applicable): no less than that indicated of adjacent, associated wall or partition.
   - Latch: primary screwdriver operated "slam latch" w/ additional screwdriver operated cam-latch mechanisms as reqd to hold dr in flush, smooth-plane when closed, all w/ int release.
3. TYP SIZE FOR WALL ACCESS: 36x36" min, UNO.
4. FIN - APPLY SHOP PRIMER to uncoated surfaces of mtl fabrications. Comply w/ SSPC-PA 1, "Paint Application Specification No. 1," for shop ptg.

EXECUTION:
1. Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ, to operate easily, free from warp, twist, or distortion and fitting weathertightfor entire perimeter.

SECTION 08 41 13 ALUMINUM ENTRANCES & STOREFRONT

SECTION INCLUDES
1. Aluminum-framed entrance and storefront systems.

DEFINITIONS
1. SHGC: Solar Heat Gain Coefficient

PREINSTALLATION MEETINGS
1. Preinstallation Conference: Conduct conference at Project site.

ACTION SUBMITTALS
1. Product Data:
   A. Aluminum-framed entrance and storefront systems.
2. Product Data Submittals: For each product.
   A. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   B. Operating characteristics, electrical characteristics, and furnished accessories.
3. Shop Drawings:
   A. Plans, elevations, sections, full-size details, and attachments to other work.
   B. Details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior. Full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrance and storefront systems, showing the following:
      a. Joinery, including concealed welds.
      b. Anchorage.
      c. Expansion provisions.
      d. Glazing.
      e. Flashing and drainage.
4. Connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
5. Point-to-point wiring diagrams showing the following:
   A. Power requirements for each electrically operated door hardware.
   B. Location and types of switches, signal device, conduit sizes, and number and size of wires.
6. Signed and sealed by the qualified professional engineer responsible for their preparation.

SAMPLES FOR INITIAL SELECTION
1. Manufacturer's standard color sheets, showing full range of available colors or each type of exposed finish.

ENTRANCE DOOR HARDWARE SCHEDULE
1. Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

INFORMATIONAL SUBMITTALS
1. Energy Performance Certificates: For aluminum-framed entrance and storefront systems, accessories, and components, from manufacturer.
   A. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront system.
2. Product Test Reports: For aluminum-framed entrance and storefront systems, for tests performed by a qualified testing agency or manufacturer and witnessed by a qualified testing agency.

CLOSEOUT SUBMITTALS
1. Operation and Maintenance Data: For aluminum-framed entrance and storefront systems.
2. Maintenance Data for Structural Sealant: For structural-sealant-glazed storefront. Include ASTM C1401 recommendations for post-installation-phase quality-control program.

QUALITY ASSURANCE
1. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
2. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
   A. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.
3. Structural-Sealant Glazing: Comply with ASTM C1401 for design and installation of storefront systems that include structural glazing.

WARRANTY
1. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
   A. Warranty Period: 10 years from date of Substantial Completion.
2. Special Finish Warranty: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
   A. Warranty Period: 20 years from date of Substantial Completion.

PRODUCTS
1. Obtain all components of aluminum-framed entrance and storefront system, including framing spandrel panels and accessories, from single manufacturer.

ENERGY EFFICIENCY
1. In accordance with the 2021 International Energy Conservation Code (IECC)
2. For fixed fenestration:
   A. U-value: U-0.36 maximum.
   B. Solar Heat Gain Coefficient: SHGC-0.36 maximum.
3. For entrance doors:
   A. U-value: U-0.63 maximum.

ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS
1. Manufacturers: Subject to compliance with requirements, provide products by the following Basis of design Manufacturer:
   A. EFCO Corporation
2. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
   A. Construction: Thermally broken.
   B. Glazing System: Retained mechanically with gaskets on four sides with butt-glazed intermediate mullions at north and west ground level installations.
   C. Glazing Plane: Front.
   D. Finish: Clear anodized aluminum.
   E. Fabrication Method: Field-fabricated stick system.
   F. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   G. Steel Reinforcement: As required by manufacturer.
3. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
4. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
5. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing operation.
   A. Door Construction: 1-3/4-inch (44.5-mm) overall thickness, with minimum 0.125-inch- (3.2-mm-) thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
   B. Door Design: Wide stile; 5-inch (127-mm) nominal width.
   C. Glazing Stops and Gaskets: Beveled, snap-on, extruded-aluminum stops and preformed gaskets.
   D. Provide nonremovable glazing stops on outside of door.

ENTRANCE DOOR HARDWARE
1. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware."
2. General: Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule and entrance door hardware sets indicated in "Entrance Door Hardware Sets" Article for each entrance door to comply with requirements in this Section.
   A. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products complying with BHMA standard referenced.
   B. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
   C. Opening-Force Requirements:
      a. Egress Doors: Not more than 15 lbf (67 N) to release the latch and not more than 30 lbf (133 N)to set the door in motion.
      b. Accessible Interior Doors: Not more than 5 lbf (22.2 N) to fully open door.
3. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
   A. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
4. Butt Hinges: BHMA A156.1, Grade 1, radius corner.
   A. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while entrance door is closed.
   B. Exterior Hinges: Nonferrous.
      a. For doors up to 87 inches (2210 mm) high, three hinges per leaf.
      b. For doors more than 87 and up to 120 inches (2210 and up to 3048 mm) high, four hinges per leaf.
5. Mortise Auxiliary Locks: BHMA A156.5, Grade 1.
6. Automatic and Self-Latching Flush Bolts: BHMA A156.3, Grade 1.
7. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
8. Cylinders: As specified in Section 087100 "Door Hardware," BHMA A156.5, Grade 1.
9. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
10. Operating Trim: BHMA A156.6.
11. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.
12. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.
13. Weather Stripping: Manufacturer's standard replaceable components.
14. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
15. Silencers: BHMA A156.16, Grade 1.
16. Thresholds: BHMA A156.21, raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch (12.7 mm).

GLAZING
1. Glazing: Comply with Section 088000 "Glazing."
2. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
3. Glazing Sealants: As recommended by manufacturer.

FABRICATION
1. Form or extrude aluminum shapes before finishing.
2. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
3. Fabricate components that, when assembled, have the following characteristics:
   A. Profiles that are sharp, straight, and free of defects or deformations.
   B. Accurately fitted joints with ends coped or mitered.
   C. Physical and thermal isolation of glazing from framing members.
   D. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
   E. Provisions for field replacement of glazing from exterior.
   F. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
4. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
5. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
6. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
7. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
8. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

ALUMINUM FINISHES
1. Black Anodized Aluminum.

EXECUTION

EXAMINATION
1. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

INSTALLATION OF ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS
1. Comply with manufacturer's written instructions.
2. Do not install damaged components.
3. Fit joints to produce hairline joints free of burrs and distortion.
4. Rigidly secure nonmovement joints.
5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
6. Seal perimeter and other joints watertight unless otherwise indicated.
7. Metal Protection:
   A. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
   B. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
8. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint
9. Sealants," to produce weathertight installation.
10. Install joint filler behind sealant as recommended by sealant manufacturer.
11. Install components plumb and true in alignment with established lines and grades.
12. Install entrance doors to produce smooth operation and tight fit at contact points.
   A. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
   B. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.
13. Install glazing as specified in Section 088000 "Glazing."

FIELD QUALITY CONTROL
1. Testing Agency: Engage a qualified testing agency to perform tests.
2. Tests: Perform the following tests on representative areas of aluminum-framed entrance and storefront systems.
   A. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Architect to be tested in accordance with AAMA 501.2 and to not evidence water penetration.
      a. Perform a minimum of two tests in areas as directed by Architect.

SECTION 08 53 00 – VINYL WINDOWS AND DOORS
1. WORK INCLUDED: Provide vinyl wdws where indicated on the dwgs, as specified herein and as necessary for complete install. The work of this section includes: Factory installed glazing and glazing sealants. Insect screens at operating units
2. ENVIRONMENTAL CONDITIONS: Air temp during installs must be at least 40° F and rising, and the wind light or still. Work areas and materials must be dry and free of ice and snow. Ensure ambient and surface temps and jt conditions are suitable for install of materials.

WARRANTY:
1. SPECIAL PROJECT WARRANTY: Provide written warranty executed by the manuf agreeing to repair or replace wdws that fail in materials or workmanship w/in the following specified warranty periods. Failures include, but are not limited to: Failure to meet performance reqs. Struct failures including excessive deflection, water leakage and air infiltration. Faulty operation of movable sash and hardware. Deterioration of materials and fin beyond normal weathering. Failure of insulating glass.
2. Warranty Periods: Wdw & Drs: 10 yrs from date of substantial completion. Glazing Units: 20 yrs from date of substantial completion.

PRODUCTS:
1. SYS DESIGN: Manuf is responsible for design of wdw units, including anchorage to struct sys and necessary modifications to meet spec reqs and maintain visual design concepts.
2. Wall openings: Accommodate allowable bldg wall const tolerances and moisture-caused masonry swell w/o stressing or deforming wdw units or overstressing anchorage.
3. Moisture changes: Accommodate shrinking and swelling caused by ambient conditions at the project, w/o stressing wdw units, overstressing anchorage, causing sash to bind or exceeding air/water entry limits.

PERFORMANCE REQS - GENERAL:
1. WINDBORNE-DEBRIS RESISTANCE: Capable of resisting impact from windborne debris based on testing glazed wdws identical to those specified, according to ASTM E 1886 and testing info in ASTM E 1996 and reqs of AHJ.
2. STRUCT REQS: When tested in accordance w/ ASTM E330 at 150% of design pressure, no failure/permanent deflection in excess of 0.003 of any member 's span after removing the imposed load, for a positive (inward) & negative (outward) design pressure no less than 30 PSF.

VINYL WDWS: Provide units meeting the following:
1. FIN: Manuf optional pt ext "black" color, w/ standard "white" int color. Provide: QUAKER "V300" Series in size, configuration, and operation as indicated on the dwgs.
   A. no grids, UNO
   B. clear glass
   C. Trim per drwgs.
2. HARDWARE: non-corrosive material when in contact w/ PVC and w/ crank-type operating vent, as applicable.
3. Hardware fin: black at ext and white at int, or as otherwise selected by the architect.
4. WEATHERSTRIPPING: Poly pile w/ integral polyethylene fin per AAMA 701 and 702 between main frames and operating wdw sash or dr pnl units.
5. INSULATED GLASS (for both wdw & dr units): Manuf standard, 3/4" thick sealed insulated glass units (or thicker if reqd per wind-loading) w/ both panes tempered at dr units and at wdw units when w/in 5' of drs or w/in 18" of a flr, deck or pavement fin, factory wet-glazed into a mitered, processed and fusion-welded sash frame, meeting reqs of Div-08 and the following: min U-Factor: 0.29; Solar Heat Gain Coefficient (SHGC): 0.33; Visible Light Transmittance (VT): 0.56; B.O.D: clear, insulated low-E w/ argon, as manuf by Cardinal Glass or architect reviewed eq.
6. INSECT SCREENS (at all operating dr or wdw sash units): 18x16 fiberglass mesh in a 5/16 x 3/4" roll-formed alum screen frame matching color of wdw or dr unit, per ANSI/AAMA 1004.
7. FASTENERS: Zinc or cadmium coated stl per ASTM B 633-85 and/or ASTM B 766.

FABRICATION:
1. Fabricate in sizes indicated and in strict accordance w/ manuf tested assemblies. Include a complete sys for install and anchoring wdws. Glazed pnls must be miter-cut, fusion-welded and adjustable from ea end of pnl and removable to the int. Stationary pnl is to be direct set w/ glazing tape or silicon sealant into the main frame. Glaze wdws in the factory. Weather strip ea operable sash to provide weathertight install.
2. Mullions: Provide mullions and cover plates, matching wdw units, complete w/ anchors for support to struct and install of wdw units. Allow for erection tolerances and provide for movement of wdw units due to thermal exp and bldg deflections. Provide mullions and cover plates capable of withstanding design wind loads of wdw unitsComplete fabrication, assembly, fin, hardware application and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and install. Allow for scribing, trimming and fitting at project site.
3. EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ. FIELD QUALITY CONTROL: A qualified, independent testing agency may be engaged by the owner to perform field tests and inspections of installed wdw and dr units. The testing and inspecting agency will interpret the tests performed and state in ea report whether the tested work complies w/ or deviates from the reqs indicated herein.
4. Testing Methodology: Testing of wdws for air infiltration and water resistance must be performed according to AAMA 502.
5. Min Extent of Testing: 2 wdws and 2 drs min of ea type, as recommended by the testing and inspecting agency. Wdws must be tested after perimeter sealants have cured.
6. Test Reports: Prep according to AAMA 502.

SECTION 08 71 00 – DOOR HARDWARE
1. WORK INCLUDED: Provide dr hardware throughout the work as indicated in the dwgs, as specified herein and as reqd for a complete install.
2. FASTENERS: Provide necessary screws, bolts and other fasteners of suitable size and type to anchor hardware in position for long life under hard use. Provide concealed fasteners for hardware units which are exposed when dr is closed.
3. PROVIDE CONCEALED FASTENERS for hardware units are exposed when dr is closed except to the extent no standard units of type spec are available w/ concealed fasteners. Do not use thru-bolts for install where bolt head or nut on opp face is exposed in other work unless their use is the only means of reinf the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinf the work, provide sleeves for ea thru-bolt or use sex screw fasteners.
4. HINGES: Except for hinges installed entirely (both leaves) into wd drs and frames, provide only template-produced units w/ Phillips flat-head screws: for mtl drs & frames, install machine screws into drilled & tapped holes. Fin screw heads to match surface of hinges or pivots. Hinge pins: non-removable typ w/ flat button tips and matching plug, fin to match leaves. # of hinges: provide # of hinges indicated (not less than 3) per dr leaf and as follows: over 84"-ht, add 1 hinge per ea 30" of added ht. Over 36"-w, add 1 hinge (up to 48 "-w).

LOCKS, LATCHES & BOLTS:
1. STRIKES: Manuf standard wrought box strike for ea latch or lock bolt, with curved lip extended to protect frame, fin to match hardware set .
2. Provide extra long strike lips for locks on frames w/ applied wd casing trim.
3. Provide recess type top strikes for bolts locking into head frames.
4. Provide dust-proof strikes for foot bolts, except when threshold const provides non-recessed strike for bolt.
5. MIN BOLT THROW: Provide 5/8" min throw of latch on pairs of drs. Provide 1/2" min throw of latch for other bored and preassembled types of locks and 3/4" min throw of latch for mortise locks. Provide 1" min throw for all dead bolts.
6. FLUSH BOLT MATERIAL: Min of 1/2" dia rods of brass, bronze or s/s w/ min 12" long rod for drs up to 84" in ht. Provide longer rods as necessary for drs exceeding 84" in ht.
7. PUSH/PULLS, DR TRIM & FLATGOOD UNITS: Provide manuf standard exposed fasteners for dr trim units consisting of machine screws or self-tapping screws, thru-bolted for matched pairs but not for single units. Fabricate edge trim of s/s to fit dr thickness in standard lengths or to match ht of protection plates.
8. DR SEAL & THRESHOLDS: Provide cont weatherstripping on ext drs typ. Provide noncorrosive fasteners at ext. Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manuf.
9. Weatherstripping at Jambs and Heads: Provide bumper-type resilient insert and mtl retainer strips, mortised or semi-mortised.
10. WEATHERSTRIPPING at DR BOT: Provide threshold consisting of contact-type resilient insert and mtl housing.
11. DR STOPS: If a wall stop is indicated but is not possible or feasible to install, provide an "Ives" #438 flr stop or eq.
12. FRAME SILENCERS: Provide frame-mounted resilient bumpers at all dr frames where weatherstripping or other dr seals are not provided: 3 ea at single drs, 2 ea dr pairs.
13. INSTALL hardware items at hts as recommended by the Door and Hardware Institute, except as specifically reqd to comply w/ local codes. Install hardware in compliance w/ the manuf instructions and recommendations. Set units level, plumb and true. Consult w/ owner as to keying instructions.
14. MIN DR HARDWARE (typ per dr leaf, UNO): 3 ea butt hinges. Lockset (entry function to be verified w/ owner before ordering). Wall stop (flr stop when reqd). 3 ea frame silencers.
1. HARDWARE SCHED: Re dwgs. Specific hardware units and manuf indicated take precedence over general descriptions and acceptable manuf indicated.

SECTION 08 80 00 – GLAZING
1. WORK INCLUDED: Provide glass and glazing as shown on the dwgs, as specified herein and as needed to meet the reqs of the const.
2. WATERTIGHT & AIRTIGHT INSTALL of ea glass product is reqd, UNO. Ea install must withstand normal temp changes, wind loading, impact loading, w/o failure including loss or breakage of glass, failure of sealants or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.

REFERENCED STANDARDS:
1. GLAZING STANDARD: Comply w/ published recommendations of glass product manuf and organizations below, UNO. Re publications for glazing terms not otherwise defined in this section or in referenced standards.
2. GANA Publications: GANA'S "Glazing Manual" and "Laminated Glass Design Guide."
3. SAFETY GLAZING STANDARDS: Where safety glass is reqd by code or AHJ, provide type of products indicated which comply w/ ANSI Z97.1 and testing reqs of 16 CFR Part 1201 for category II materials.
4. WARRANTY ON HERMETIC SEALS: Provide insulating glass manuf written warranty, agreeing to, w/in specified warranty period, furnish FOB project site, replacement units for insulating units which have defective hermetic seals (excluding glass breakage); defined to include intrusion of moisture or dirt, internal condensation at temp above -20 deg F, deterioration of internal glass coating & other visual evidence of seal failure or performance failure, provide manuf instructions for handling, install, protection and maintenance have been adhered to during warranty period. WARRANTY PERIOD: 10 yrs after seal date perm imprinted on unit, but < than 9 yrs after date of substantial completion.

PRODUCTS: MANUF / SOURCE LIMITATIONS: For ea glass type and glazing accessory, obtain from a single manuf. Approved manuf of glass include: AGC, Cardinal, Guardian, Vitro and Viracon.

PERFORMANCE REQS:
1. GLASS DESIGN REQS: Glass thicknesses indicated are min and for detailing only. Confirm glass thicknesses by analyzing project loads and in-service conditions. Provide glass lites for various size openings in nom 1/4" thickness min, but no less than thicknesses and in strengths (annealed or heat treated) reqd to meet or exceed the following criteria. Select min glass thicknesses to comply w/ ASTM E 1300, according to the following reqs: Specified Design Wind Load for Ext Glass: Determine design wind loads applicable to project from basic wind speed indicated on the dwgs in miles/hr at 33' above grade, according to ASCE 7: Section 6.4.2 based on mean roof hts above grade – w/ a min uniform pressure loading of 25 PSF inward and 25 psf outward. Probability of Breakage for Vert Glazing: 8 lites per 1000 for lites set vert or no more than 15 deg off vert and under wind action. Load Duration: 60 sec or less.
2. THERMAL MOVEMENTS: Provide glazing that allows for thermal movements resulting from the following max change in ambient and surface temps acting on glass framing members and glazing components. Base engineering calculation on surface temps of materials due to both solar heat gain and nighttime-sky heat loss. Temp Change: 120 deg F, ambient; 180 deg F, material surfaces.
3. FLOAT/PLATE GLASS: Type I, Quality q3, clear, UNO.
4. SAFETY GLASS: Provide "Category II" materials complying w/ testing reqs in 16 CFR 1201 and ANSI Z97.1. Subject to compliance w/ reqs, permanently mark safety glass w/ certification label of Safety Glazing Certification Council or another certification agency acceptable to AHJ.
5. TEMPERED GLASS: Provide prime glass of color and type indicated, edge-seamed (ground) and heat treated by horiz (roller hearth) process to strengthen glass in bending to no less than 4.5 times annealed strength. Temper glass horiz - visible tong marks or other distortions are not acceptable. Provide safety glass permanently marked w/ certification label of Safety Glazing Certification Council or other acceptable to AHJ.
6. GLASS FOR "ALL-GLASS" INT STOREFRONT: Provide fully tempered, ultraclear (low-iron) glass meeting ASTM C 1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3, w/ visible light transmission of not less than 91%, tested for surface and edge compression per ASTM C 1048 and for impact strength per 16 CFR 1201 for Category II materials and as follows: Prep glazing pnls for reqd fittings and hardware before tempering, when applicable. Polish all edges exposed in the fin work to a bright flat polish surface.
7. MIN GLASS THICKNESS (per clear, unsupported span from inside t&b framing edges): Up to 5': 1/4" min, 8': 3/8" min, 10' max: 1/2" min. DR PNLS: comply w/ above,1/2" thick min.
8. TYP INSULATED GLASS (IG) UNITS: 2 shts of glass and a 1/2" air-filled space w/ a desicant-filled tubular alum spacer bar frame. Provide dual edge seals bonded to both shts of glass and spacer bar of polysulfide, silicone or hot-melt butyl elastomeric sealant (fabricators option) the hermetic seal. Provide high-performance, clear (non tinted) IG units w/ the following min performance characteristics, UNO. Visible Light Transmittance: 70%, Ext Reflectance: 11%, Int Reflectance: 12%, Winter U-Value (air-filled): 0.29, Solar Heat Gain Coefficient 0.39, Light to Solar Gain: 1.79.
9. B.O.D: Vitro Solarban 60 (2) Clear + Clear.
10. MIRROR GLASS & ACCESSORIES 1/4" quality q2 clear float glass w/ full silvered, copper and organic coating. Secure to wall substrate w/ "Palmers" Mirror-Mastic or eq to wall backing, and provide polished-fin alum "J" channel eq to CRL # D638P "FHA Type J-Channel" support at base of mirror typ.
11. GLAZING SEALANT: Elastomeric silicone sealant complying w/ ASTM C 920, Type S, Grade NS, Class 25, Use NT; specially compounded and tested to show a min of 20 yrs resistance to deterioration in normal glazing applications. Provide at ext glazing. Products include: Dow Corning 790, GE Silicones Silpruf, Pecora Corporation 895, Tremco.
12. GLAZING TAPE: Preformed, butyl-based elastomeric tape w/ solids content of 100%, complying w/ ASTM C 1281 and AAMA 800.
13. MISC GLAZING MATERIALS: Provide cleaners, primers and sealers, setting blocks, spacers and edge blocks of size and shape complying w/ referenced glazing standards and w/ reqs of glass manuf for application indicated.
14. FABRICATE GLASS & OTHER GLAZING PRODUCTS in sizes reqd to glaze openings indicated for project, w/ edge and face clearances, edge and surface conditions and bite complying w/ written instructions of product manuf and referenced glazing standard, to comply w/ sys performance reqs.
15. EXAMINE FRAMING, glazing channels and stops w/ installer present for compliance w/ manuf and install tolerances for presence and functioning of weep sys for min reqd face and edge clearances and for effective sealing between jts of glass-framing members. Proceed w/ install only after unsatisfactory conditions have been corrected.
16. WATERTIGHT & AIRTIGHT INSTALL of ea glass product is reqd, UNO. Ea install must withstand normal temp changes, wind loading, impact loading, w/o failure including loss or breakage of glass, failure of sealants or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.
17. COMPLY w/ FGMA "Glazing Manual" and manuf instructions and recommendations. Install manuf recommended spacers, blocks, primers, sealers, gaskets and accessories.
18. PROVIDE FULLY TEMPERED "SAFETY" GLASS as reqd by code & AHJ.
19. CLEAN GLAZING CHANNEL and other framing members to receive glass, immediately before glazing. Remove coatings which are not firmly bonded substrate. Remove lacquer from mtl surfaces where elastomeric sealants are used.

INSTALL INSULATING GLASS UNITS to comply w/ recommendations by Sealed Insulating Glass Manufacturers Association, except UNO.

SECTION 08 90 00 – LOUVERS AND VENTS
1. WORK INCLUDED: Provide arch louvers and vents where indicated on the dwgs, as specified herein and as necessary for complete install.
2. ROOF / WALL LOUVERS: Per Architect
3. MINI-LOUVERS: Per Architect

DIVISION 09: FINISHES

SECTION 09 05 61 – MOISTURE VAPOR EMISSION CONTROL

PROVIDE an alkaline-resistant, moisture-vapor emission control flr treatment under new flr fin (except at sealed conc) over conc or gyp conc substrates (herein afterwards referred to as "conc"), as indicated herein and as follows:
- Provide on "newly" poured conc flrs installed w/in 1 yr prior to flr application
- Provide on exist conc flr surfaces when moisture vapor testing indicates the exist moisture vapor in the substrate is higher than the amount recommended by the flr manuf for install of their products.
- Applicable flr fin include but are not limited to ceramic/porcelain tile, resilient vinyl composition tile, sheet vinyl flr, carpeting, rubber & wd based flr (including laminate wd flr).

QUALITY ASSURANCE:
1. VERIFY COMPATIBILITY of materials including surface sealers, if any, w/ indicated vapor mitigation flr treatment and w/ the fin flr products, including adhesives.
2. INSTALLER must be trained, certified or otherwise specifically approved as an applicator by the product manuf in writing.
3. PROJECT CONDITIONS: Do not install material below 50° F surface & air temp and maintain during & for 48 hrs after install. Install per manuf recommendations if substrate is warm.

PRODUCT: MVE FLR TREATMENT: Pourable, single-coat, 100% solids, high-quality 2 component epoxy based coating specifically formulated to reduce moisture vapor transmission to less than 3 lbs when applied to correct thickness of material and primer ready w/in 5 to 6 hrs of application at 73 deg F.
- B.O.D: CMVC by Custom Building Products, - in 15 mils dry film thickness min
- Eq acceptable products - pending compliance w/ indicated characteristics of B.O.D:
   - MC Rapid by Ardex – 10 mil DMT min
   - Supercap Moisture Vapor Control by Laticrete – 12 mil DMT min
   - Planiseal VS Fast by Mapei – 10 mils DMT min
   - Durock RH-100 by USG – 13 mils DMT min
   - LiquiDam Penetrating Moisture Vapor Barrier (213) by TEC/HB Fuller: 150 SF/gal typ

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 09 22 16 NON-STRUCTURAL METAL FRAMING

WORK INCLUDED
1. Framing systems
2. Suspension Systems
3. Grid suspension systems

ACTION SUBMITTALS
1. Product Data: For each type of product. Sustainable Design Submittals:

INFORMATIONAL SUBMITTALS
1. Product Certificates: For each type of code-compliance certification for studs and tracks.

DELIVERY, STORAGE, AND HANDLING
1. Notify manufacturer of damaged materials received prior to installation.
2. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
3. Protect cold-formed metal framing from corrosion, deformation, and other damage during delivery, storage, and handling as required by AISI S202, "Code of Standard Practice for Cold-Formed Steel Structural Framing."

PRODUCTS

PERFORMANCE REQUIREMENTS
1. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, in accordance with ASTM E119 by an independent testing agency.
2. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated on Drawings, in accordance with ASTM E90 and classified in accordance with ASTM E413 by an independent testing agency.
3. Design framing systems in accordance with AISI S220, "North American Specification for the Design of Cold-Formed Steel Framing - Nonstructural Members," unless otherwise indicated.
4. Design Loads: As indicated on architectural Drawings or 5 lbf/sq. ft. minimum as required by the IBC.
5. Design framing systems to accommodate deflection of primary building structure and construction tolerances and to withstand design loads with a maximum deflection of 1-1/2 inches.

FRAMING SYSTEMS
1. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
   A. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
   B. Protective Coating: ASTM A 653/A 653M, G40 (Z120) hot-dip galvanized unless otherwise indicated.
2. Studs and Track: ASTM C645.
   A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. ClarkDietrich
      b. Jaimes Industries
      c. MRI Steel Framing, LLC
   B. Minimum Base-Steel Thickness: As required by performance requirements for horizontal deflection
   C. Depth: As indicated on Drawings.
3. Slip-Type Head Joints: Where indicated, provide one of the following:
   A. Clip System: Clips designed for use in head-of-wall deflection conditions that provide a positive attachment of studs to runners while allowing 1-1/2-inch (38-mm) minimum vertical movement.
   B. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
4. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
   A. Minimum Base-Metal Thickness: 0.0296 inch (0.752 mm), UNO.
5. Cold-Rolled Channel Bridging: Steel, 0.0538-inch (1.367-mm) minimum base-metal thickness, with minimum 1/2-inch- (13-mm-) wide flanges.
   A. Depth: 1-1/2 inches (38 mm), UNO.
   B. Clip Angle: Not less than 1-1/2 by 1-1/2 inches (38 by 38 mm), 0.068-inch- (1.72-mm-) thick, galvanized steel.
6. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
   A. Minimum Base-Metal Thickness: As indicated on Drawings.
   B. Depth: 7/8 inch (22.2 mm), UNO.
7. Resilient Furring Channel: 1/2 inch (13mm) deep, steel sheet members designed to reduce sound transmission
   A. Configuration: Asymmetrical

SUSPENSION SYSTEMS
1. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062-inch- diameter wire, or double strand of 0.048-inch- diameter wire.
2. Hanger Attachments to Concrete:
   A. Expansion Anchors: Fabricated from corrosion-resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E 488/E 488M conducted by a qualified testing agency.
   B. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with allowable load capacities calculated according to ICC-ES AC70, greater than or equal to the design load, as determined by testing per ASTM E 1190 conducted by a qualified testing agency.
3. Wire Hangers: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter.
4. Carrying Channels (Main Runners): Cold-rolled, commercial-steel sheet with a base-steel thickness of 0.0538 inch and minimum 1/2-inch- wide flanges.
   A. Depth: As indicated on Drawings.
5. Furring Channels (Furring Members):
   A. Hat-Shaped, Rigid Furring Channels: ASTM C 645, 7/8 inch (22 mm) deep.
      a. Minimum Base-Metal Thickness: As indicated on Drawings.
   B. Resilient Furring Channels: 1/2-inch- (13-mm-) deep members designed to reduce sound transmission.
      a. Configuration: Asymmetrical.

GRID SUSPENSION SYSTEMS
1. Grid Suspension Systems for Gypsum Board Ceilings: ASTM C645, direct-hung system composed of main beams and cross-furring members that interlock.
   A. Manufacturers: Subject to compliance with requirements, provide products by the following:
      a. As indicated in Drawings

AUXILIARY MATERIALS
1. General: Provide auxiliary materials that comply with referenced installation standards.
   A. Fasteners for steel framing: of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
2. Isolation strip at exterior walls: provide one of the following:
   A. Asphalt-Saturated Organic Felt: ASTM D226/D226M, Type I (No. 15 asphalt felt), nonperforated.
   B. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

EXECUTION

EXAMINATION
1. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

INSTALLATION, GENERAL
1. Installation Standard: ASTM C754.
   A. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.
2. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
3. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
4. Install bracing at terminations in assemblies.
5. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

INSTALLATION OF FRAMING SYSTEMS
1. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
2. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
3. Install studs so flanges within framing system point in same direction.
1. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
   A. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
   B. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
      a. Install two studs at each jamb unless otherwise indicated.
      b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
      c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
   C. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
   D. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
   E. Curved Partitions:
      a. Bend track to uniform curve and locate straight lengths so they are tangent to arcs.
      b. Begin and end each arc with a stud, and space intermediate studs equally along arcs. On straight lengths of no fewer than two studs at ends of arcs, place studs 6 inches o.c.
2. Direct Furring
   A. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
3. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

INSTALLATION OF SUSPENSION SYSTEMS
1. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
2. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
3. Suspend hangers from building structure as follows:
   A. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
      a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
   B. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
      a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
   C. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
   D. Do not attach hangers to steel roof deck.
   E. Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
   F. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
   G. Do not connect or suspend steel framing from ducts, pipes, or conduit.
4. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.
5. Seismic Bracing: Sway-brace suspension systems with hangers used for support.

INSTALLATION OF GRID SUSPENSION SYSTEMS
1. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.

FIELD QUALITY CONTROL
1. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

SECTION 09 29 00 – GYPSUM BOARD

WORK INCLUDES:
1. PROVIDE screw-type gypsum drywall applied to metal framing specified herein, where indicated on the Drawings, as specified herein, and as needed to meet the requirements of the construction shown in the Contract Documents.

SECTION INCLUDES:
1. Interior gypsum board
2. Sound-attenuation blankets
3. Specialty acoustic blankets
4. Tile backing panels

DEFINITIONS - Gypsum Board Terminology
1. Refer to ASTM C 1396 for definitions of terms for gypsum board assemblies not defined in this Section or in other referenced standards.

RELATED REQUIREMENTS:
1. Section 079219 "Acoustical Joint Sealants" for acoustical joint sealants installed in gypsum board assemblies.
2. Section 092216 "Non-Structural Metal Framing" for non-structural steel framing and suspension systems that support gypsum board panels.
3. Section 093013 "Ceramic Tiling" for cementitious backer units installed as substrates for ceramic tile.
4. Division-05 Section "Cold-Formed Metal Framing" for load-bearing steel framing, typically at exterior walls.
5. Division-06 Section "Rough Carpentry" for blocking installed within gypsum board assemblies.
6. Division-07 Section "Building Insulation" for insulation installed in gypsum board assemblies.

ACTION SUBMITTALS
1. Product Data: For the following:
   A. Gypsum wallboard.
   B. Gypsum ceiling board.
   C. Cementitious backer units.
   D. Water-resistant gypsum backing board.
   E. aluminum trim
   F. joint treatment materials
   G. sound attenuation blankets
   H. acoustical sealant

DELIVERY, STORAGE AND HANDLING
1. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier.
2. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

FIELD CONDITIONS
1. Environmental Limitations: Comply with ASTM C840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.
2. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
3. Do not install panels that are wet, moisture damaged, and mold damaged.
   A. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   B. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PRODUCTS

SOURCE LIMITATIONS
1. Obtain each type of gypsum panel and joint finishing material from single source with resources to provide products of consistent quality in appearance and physical properties.
2. Manufacturers
   A. Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   B. Steel Framing and Furring:
      a. ClarkDietrich Building Systems.
      b. Consolidated Fabricators Corp
      c. MarinoWare; Division of Ware Ind.
      d. National Gypsum Company.
      e. Scafco Corporation.
      f. telling industries
   C. gypsum board and related products
      a. American gypsum Co.
      b. Georgia-Pacific building sypsum LLC.
      c. national gypsum company
      d. United States Gypsum Co.

GYPSUM BOARD, GENERAL
1. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@reed-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2025

Issued For	Date	#
100% CONSTRUCTION DOCUMENTS	01.16.2026	0

PROJ. A_2406

ARCHITECTURAL SPECIFICATIONS

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2. Metal Stud Framing
A. Provide ASTM C 645 metal studs of 0.015 minimum steel thickness (26 gage) with double-helix ribbing (ClarkDietrich UltraSteel or equivalent) or 0.0179-inch thickness (25 gage) for typical flat-sheet steel units x 3-5/8 " depth unless otherwise noted. Provide runners matching studs, of type recommended by stud manufacturer for floor and ceiling support of studs, and for vertical abutment of drywall work at other work. Provide studs in unit size as indicated on the Drawings, and in compliance with the Steel Stud Manufacturer's Association (SSMA)'s limiting heights table for L/360 deflection at 5 PSF load, as summarized below:
3. MAXIMUM STUD SYSTEM FRAMING HEIGHT PER UNIT SIZE, APPLICATION & SPACING
A. Non-composite Drywall Assemblies (w/ gyp. bd. short of wall top & w/ studs braced at 48" OC vertical max)
B. 3-5/8-inch x 25 gage studs at 12-inch centers: 12 ' – 6"
C. 3-5/8-inch x 25 gage studs at 16-inch centers: 11 ' – 4" (max allowable stud spacing)
D. 3-5/8-inch x 20 gage studs at 12-inch centers: 14 ' – 10"
E. 3-5/8-inch x 20 gage studs at 16-inch centers: 13 ' – 6" (max allowable stud spacing)
4. COMPOSITE DRYWALL ASSEMBLIES (with gypsum board full height each side to top of wall):
A. 3-5/8-inch x 25 gage studs at 12-inch centers: 14'-7"
B. 3-5/8-inch x 25 gage studs at 16-inch centers: 13 ' – 3" (max allowable stud spacing)
C. 3-5/8-inch x 20 gage studs at 12-inch centers: 16 ' - 4"
D. 3-5/8-inch x 20 gage studs at 16-inch centers: 14 ' 10" (max allowable stud spacing)
E. 6-inch x 25 gage studs at 12-inch centers: 19 ' – 11"
F. 6-inch x 25 gage studs at 16-inch centers: 18 ' – 1" (max allowable stud spacing)
G. 6-inch x 20 gage studs at 12-inch centers: 23 ' - 8"
H. 6-inch x 20 gage studs at 16-inch centers: 21 ' – 6" (max allowable stud spacing)
5. DRYWALL FURRING CHANNELS
A. 7/8-inch minimum deep ASTM C-645 hat-shaped rigid units of 0.0312 inch (20 gage) minimum commercial steel sheet with manufacturer's standard corrosion-resistant zinc coating. Provide stud manufacturer's standard clips, shoes, ties, reinforcements, fasteners and other accessories as needed for a complete stud system.
6. TOP-OF-WALL DEFLECTION TRACK
A. Provide at all interior non-load bearing partitions to prevent compression of stud framing or cracking of gypsum board resulting from deflection of the structure above. Provide ASTM C 645 steel-sheet top-runner units in base metal thickness of next thicker available metal thickness than metal thickness indicated for the partition 's stud framing members. Track units must provide not less than 1-inch vertical movement of the structural framing system.
7. TYPICAL NON-FIRE RATED DEFLECTION TRACK
A. Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. The Steel Network, Inc.; VertiTrack VTD Series.
b. Delta Star, Inc., Superior Metal Trim; Superior Flex Track System (SFT).
c. Metal-Lite, Inc.; Slotted Track.
d. ClarkDietrich MaxTrak Slotted Deflection Track
8. DEFLECTION TRACK WITH GYPSUM BOARD EXTENDING TO DECK and at fire-rated top-of-wall assemblies
A. Units manufactured to maintain continuity of fire-resistance-rated assemblies without crushing gypsum board. Products that may be incorporated into the Work include, but are not limited to, the following:
a. Metal-Lite, Inc.; The System.
b. Fire Trak Corp.: ShadowLine
c. The Steel Network, Inc.; VertiClip SLD Series or VertiTrack VTD Series.
9. SUSPENDED CEILING / SOFFIT FRAMING
A. Comply with ASTM C 754 for conditions indicated, using steel members noted above, and as follows:
a. SUSPENSION WIRE (typical between hangers or structural steel framing units above to CRC's noted below): ASTM A 641/A soft-tempered carbon steel wire with Class 1 galvanized zinc coating, pre-stretched, with yield-stress load of at least four (4) times load of suspended materials, but not less than 0.1620 inch-diameter (# 8 ASWG) wire minimum (for up to 210 lbs, material load per wire) – space not more than four (4) feet centers to CRC's below.
b. SPLAY-WIRE BRACES: ASTM A 641/A soft-tempered carbon steel wire with Class 1 galvanized zinc coating, pre-stretched, not less than # 12 ASWG) wire minimum at not more than 45-degree angles from compression stud braces.
c. COMPRESSION STRUTS: Provide at exterior suspension framing typically and at interior seismic braces, when indicated. Assemble from minimum 3-5/8-inch x 0.0312-inch (20 gage) drywall stud minimum parallel with # 8 suspension wire, and with four (4) each spay wires anchored to structure above, to resist uplift wind or seismic pressures
d. COLD ROLLED CHANNELS (CRC'S): 0.0538-inch bare steel thickness (16 gage), with minimum 1/2-inch- wide flange, 1-1/2-inch-deep or greater if indicated, suspended from above at four (4) feet centers unless otherwise noted.
e. TIE WIRE: ASTM A 641/A (to connect CRC's to furring units), Class 1 zinc coating, soft temper, 0.0625-inch- diameter (# 16 ASWG) wire minimum, or double strand of 0.0475-inch-diameter (# 18 ASWG) wire minimum.
f. FURRING CHANNELS (hat-shaped typically) at 16-inch centers maximum, except where otherwise indicated, or where indicated to be resilient furring channels at acoustical ceiling assemblies.
g. ACOUSTICAL CEILING HANGERS (for suspended drywall ceilings): Refer to Division-13 "Sound and Vibration Control Components" Section for required products.
h. ACOUSTICAL BATT INSULATION: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag or rock wool. Provide 3-1/2 inch thick units except as otherwise indicated on the Drawings.

INTERIOR GYPSUM BOARD
1. Gypsum Wallboard: ASTM C1396/C1396M.
A. Thickness: 5/8 inch.
B. Long Edges: Tapered.
2. Gypsum Wallboard for Fire-Rated Assemblies: Refer to drawings for specific specifications and requirements.
3. Gypsum Ceiling Board: ASTM C1396/C1396M.
A. Thickness: 1/2 inch.
B. Long Edges: Tapered.

TRIM ACCESSORIES
1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet.
2. Shapes:
A. Cornerbead.
B. LC-Bead: J-shaped; exposed long flange receives joint compound.
C. L-Bead: L-shaped; exposed long flange receives joint compound.
D. Expansion (control) joint.
E. See drawings for other specific profiles.

JOINT TREATMENT MATERIALS
1. General: Comply with ASTM C475/C475M.
2. Joint Tape:
A. Interior Gypsum Board: Paper.
B. Exterior Gypsum Soffit Board: Paper.
C. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
D. Tile Backing Panels: As recommended by panel manufacturer.
3. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
A. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
B. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
a. Use setting-type compound for installing paper-faced metal trim accessories.
C. Fill Coat: For second coat, use setting-type, sandable topping compound.
D. Finish Coat: For third coat, use setting-type, sandable topping compound.
E. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.
4. Joint Compound for Tile Backing Panels:
A. Glass-Mat, Water-Resistant Backing Panel: As recommended by backing panel manufacturer.
B. Cementitious Backer Units: As recommended by backer unit manufacturer.
C. Water-Resistant Gypsum Backing Board: Use setting-type taping compound and setting-type, sandable topping compound.

AUXILIARY MATERIALS
1. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
2. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
A. Adhesives shall have a VOC content of 50 g/L or less.

3. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
A. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
B. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
4. Sound-Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
5. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
A. Sealant shall have a VOC content of 250 g/L or less.
6. Thermal Insulation: As specified in Section 072100 "Thermal Insulation."
7. Vapor Retarder: As specified in Section 072600 "Vapor Retarders."
8. Specialty Acoustic Blanket, in locations indicated in drawings:
A. Owens-Corning SelectSound Black Acoustic Blanket, 2 " thickness.
B. Installation instructions per manufacturer.

TILE BACKING PANELS
1. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. USG Corporation
b. C-Cure
c. Custom Building Products
B. Thickness: As required by drawings and adjacent materials.
C. Mold Resistance: ASTM D3273, score of 10 as rated in accordance with ASTM D3274.
2. Mold-Resistant Gypsum Board (Where indicated): ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces.
A. Core: 5/8 inch or As required by drawings and adjacent materials.
B. Long Edges: Tapered.
C. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.

EXECUTION
EXAMINATION
1. Examine ares and substrates including welded hollow-metal frames and support framing, with installer present, for compliance with requirements and other conditions affecting performance of the work.
2. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
3. Proceed with installation only after unsatisfactory conditions have been corrected

INSTALLATION AND FINISHING OF PANELS, GENERAL
1. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
2. Comply with ASTM C 840.
3. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
4. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels, otherwise, attach trim according to manufacturer's written instructions.
5. Prefill open joints, rounded or beveled edges, and damaged surface areas.
6. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
7. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
A. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
B. Level 2: Panels that are substrate for tile.
C. Level 3: Where indicated on Drawings.
D. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
a. Primer and its application to surfaces are specified in Section 099123 "Interior Painting."
8. Glass-Mat Gypsum Sheathing Board: Finish according to manufacturer's written instructions for use as exposed soffit board.
9. Glass-Mat Faced Panels: Finish according to manufacturer's written instructions.

PROTECTION
1. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
2. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
3. Remove and replace panels that are wet, moisture damaged, and mold damaged.
A. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
B. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

SECTION 09 30 00 – TILING

PROVIDE TILE WORK where indicated on the dwgs, as specified herein, and as needed to meet the reqs of the const shown in the CDs.
PRODUCTS:
1. TILE MATERIALS & GROUT COLORS: Re dwgs for tile materials & grout colors.
2. PROVIDE NON-SLIP TILE or non-slip coating at all walking surface areas of flr tile.
3. TILE TRIM UNITS: Provide units matching characteristics of adjoining flat tile and coord w/ sizes and coursing of adjoining flat tile where applicable. Provide manuf standard shapes, including but not limited to coved base units, wainscot caps, external corner units and other trim units as applicable.

MTL TRIM UNITS:
1. COVE BASE TRIM: "Schluter" DILEX-EHK ss cove in size reqd to provide flush transition from tile flr to tile wall-base fin. Provide manuf standard trim connectors, outside corners and 2-way inside corners as applicable at all flr/wall transitions in food-service areas, UNO.
2. TILE-EDGE TRIM AT CONC FLR: "Schluter – Reno-V – AEVT/B" (satin anodized alum) in ht req to match tile thickness and w/ min 0.75" transition leg. Provide typ at edge of tile abutting exposed conc or resilient flr.
3. TYP TILE-EDGE TRIM AT CARPET: "Schluter – Schiene AE" (satin anodized alum) in ht req to match tile thickness. Provide typ between tile and carpet.
4. FIBER-CEMENT UNDERLAYMENT: 1/4" thick inorganic cement bd meeting ASTM C 1288, in max lengths available to min end-to-end butt jts. B.O.D: HardieBacker Cement Board, by James Hardie Building Products Inc.

MEMBRANES:
1. CRACK-SUPPRESSION MEMBRANE (liquid applied): Waterproof membrane material complying w/ ANSI A118.10, to waterproof tile assembly as spec in ANSI A108.13. B.O.D: "RedGard Waterproofing and Crack Prevention Membrane " by Custom Building Products.
FLR WATERPROOFING UNDERLAYMENT (for use on potentially "wet" elevated flrs): Composite sht membrane made from an alloy of non-plasticized chlorinated polyethylene w/ nonwoven fiber laminated to both sides, meeting ANSI A118.10 for waterproofing, w/ STC of 59 per ASTM E 90 & ASTM E 413, w/ Impact Insulation Class (IIC) of 62 per ASTM E 492 & ASTM E 989, manuf specifically for adhering w/ latex-Portland cement mortar; 72" w by 0.050" nom thickness, B.O.D: "NobleSeal SIS" by The Noble Company.
1. SHOWER-PAN WATERPROOFING (for use at thick-set shower pans): Non-plasticized, high-grade chlorinated polyethylene sheet faced on both sides w/ high-strength, nonwoven polyester fabric, meeting ANSI A118.10 and manuf specifically for adhering to latex-Portland cement mortar; in up to 72" w by 0.040" nom thickness. Where applicable, comply w/ manuf recommendations for spanning shower pans over struct jts in conc struct, B.O.D: "Chloraloy" as manufd by The Noble Company or eq.
2. ALL WATERPROOFING SHT MEMBRANE (for wet-walls including showers and tub-surrounds): PVC sht w/ polyester fabric laminated to both sides and manuf specifically for adhering to latex-Portland cement mortar at int locations; 72"-w by 0.025" nom thickness. B.O.D: "Wall Seal" as manuf by The Noble Company.

SETTING MATERIALS:
1. ACCEPTABLE MANUF FOR TILE SETTING MATERIALS: Subject to compliance w/ reqs, provide tile-setting products as manuf by one of the following: Custom Building Products, LATICRETE International Inc., MAPEI Corporation.
2. THIN-SET MORTAR: ANSI A118.4 latex modified, Portland cement mortar consisting of prepackaged dry-mortar mix combined w/ acrylic resin liquid-latex additive. For wall applications, provide nonsagging mortar complies w/ Paragraph F-4.6.1 in addition to the other reqs in ANSI A118.4. B.O.D: "Porcelain Tile Fortified Thin-Set Mortar", "VersaBond Flex Fortified Thin-Set Mortar" or "VersaBond-LFT (as applicable), by Custom Building Products.
CRACK-PREVENTION MORTAR (for use over plywd/wd substrate): ANSI A118.4, Premium quality thin-set polymer-modified mortar w/ exceptional flexibility and bond strength for use over difficult surfaces, including wd and plywd substrates: B.O.D: "FlexBond" by Custom Building Products.
THICK-SET MORTAR: Portland Cement Mortar per ANSI A 108.02. B.O.D: "Thick Bed Bedding Mortar" by Custom Building Products, GROUT (for typ flr or wall surfaces):
ANSI A118.7, single component stain resistant premixed grout. Provide sanded grout for jts over 1/8" – unsanded grout for jts 1/8" and less. B.O.D: "Fusion Pro" by Custom Building Products.
1. TILE GROUT SEALER: "Aqua-Mix Sealer's Choice 15 Gold" penetrating sealer.
EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.
1. TEST EXIST CONC SUBSTRATES w/o a Moisture Vapor Emission (MVE) treatment to verify rate of MVE does not exceed 4lbs/1,000 sf per 24 hrs when tested using calcium chloride moisture test kit for 72 hrs.
2. COMPLY w/ the Tile Council of North America's "Handbook for Ceramic, Glass, and Stone Tile Installation" as applicable to types of setting and grouting materials used.
3. EXTEND tile work into recesses and under or behind equip and fixtures, to form a complete covering w/o interruptions, UNO. Terminate work neatly at obstructions, edges and corners w/o disrupting pattern or jt alignments.
4. INSTALL MEMBRANES throughout tile install area, per reqs of membrane manuf. At waterproofing membrane, overlap sht membrane a min of 2" shingle fashion in direction of water drainage. At sht membranes, install w/ full coverage of bonding mortar to substrate & fully embed sht membrane into bonding material w/ a roller. Allow to cure and verify by testing the waterproofing membrane is watertight before installing tile or setting materials over it.
5. JOINTING PATTERN: UNO, lay tile in grid pattern. Align jts when adj tiles on flr, base, walls and trim are same size. Layout tile work and ctr tile fields in both directions in ea space or on each wall area. Adjust to min tile cutting. Provide uniform jt widths, UNO.
6. APPLICATION OF GROUT SEALER: Provide tile and grout seal coating in full strength in accordance w/ manuf recommendations. Avoid overlapping, over-spraying, puddling and immediately wipe off all adj materials of overspray. Maintain sealed areas dry for no less than 12 hrs after application.
7. INSTALL SCHED: (per TCNA's install methods):
- INT FLR TILE ON CONC: TCNA Method # F113.
- INT FLR TILE ON WD: TCNA Method # F155.
- INT FLR TILE W/ UNDERLAYMENT: TCNA Method # F144.
- INT RADIANT HEAT FLR TILE ON CONC: TCNA Method # RH115.
- INT RADIANT HEAT FLR TILE ON WD: TCNA Method # RH130.
- INT RADIANT HEAT FLR TILE W/ UNDERLAYMENT: TCNA Method # RH135.
- INT WALL TILE & TILE BASE (at limited-wet areas): TCNA Method # W248.
- WET-AREA WALL TILE (at tubs and showers): TCNA Method # W248.
- SHOWER-AREA FLR TILE: (on elevated flrs): TCNA Method # B420.
- SHOWER-AREA FLR TILE W/ RADIANT HEAT: (on elevated flrs): TCNA Method # B420.

SECTION 09 51 13 ACOUSTICAL PANEL CEILINGS

WORK INCLUDES
1. Acoustical ceiling panels
2. Exposed grid suspension system
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings
4. Perimeter Trim
SYSTEM DESCRIPTION
1. Continuous wall to wall
SUBMITTALS
1. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
2. Samples: Minimum 6-inch x 6-inch samples of specified acoustical panel; 8-inch-long samples of exposed wall molding and suspension system, including main runner and 4-foot cross tees.
3. Shop Drawings: Layout and details of acoustical ceilings show locations of items that are to be coordinated with or supported by the ceilings.
QUALITY ASSURANCE
1. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer to ensure fit and function.
2. Installer Qualifications: Company specializing in performing specified work type, a minimum of three years of documented experience, and approved by the manufacturer.
3. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.
4. Surface Burning Characteristics: Tested per ASTM E 84 and complying with ASTM E 1264 Classification.
DELIVERY, STORAGE, AND HANDLING
1. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
2. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.
3. Handle acoustical ceiling units carefully to avoid chipping edges or damaging units in any way.
PROJECT CONDITIONS
1. Space Enclosure:
A. HumiGuard Plus Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard Plus performance and not dipped galvanized steel, aluminum or stainless-steel suspension systems can be installed up to 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications where standing water is present or where moisture will come in direct contact with the ceiling.
WARRANTY
1. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period.
MAINTENANCE
1. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.
A. Acoustical Ceiling Units: Furnish quantity of full-size units equal to 5.0 percent of amount installed.
B. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.
MANUFACTURER
1. Ceiling Panels:
A. Armstrong World Industries, Inc.
2. Suspension Systems:
A. Armstrong World Industries, Inc.
ACOUSTICAL CEILING UNITS
1. Acoustical Panel Ceilings
A. Surface Texture: Fine Texture
B. Composition: Mineral Fiber
C. Color: White
D. Size: 24 in x 24 in
E. Edge Profile:Beveled Tegular, Square Lay-in
F. Noise Reduction Coefficient (NRC) ASTM C 423 Classified w/ UL label on product carton: 0.75
G. Ceiling Attenuation Class (CAC): ASTM E1414/E1414M; Classified with UL label on product carton: 35
H. Articulation Class (AC): ASTM E 1111; Classified with UL label on product carton: 170
I. Flame Spread: ASTM E 1264; Class A
J. Light Reflectance (LR) White Panel: ASTM E 1477; 0.85
K. Dimensional Stability: Standard, HumiGuard Plus
L. Recycle Content: Up to 87% total recycled content. (Total recycled content: preconsumer, post-consumer and post-industrial)
M. Material Ingredient Transparency: Health Product Declaration (HPD); Declare Label
N. Life Cycle Assessment: Third Party Certified Environmental Product Declaration (EPD)
O. Indoor Air Quality Certified to SCS-105 v4.2-2023
P. USDA Certified Biobased Product
Q. Basis of Design: ULTIMA Lay in & Tegular, Item BP1910A as manufactured by Armstrong World Industries, Inc.
METAL SUSPENSION SYSTEMS
1. Components: Main beams and cross tees, base metal and end detail, fabricated from commercial quality hot dipped galvanized steel complying with ASTM A 653. Main beams and cross tees are double-web steel construction exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.
A. Structural Classification: ASTM C 635 Intermediate or Heavy Duty.
B. Color: White or match the actual color of the selected ceiling tile, unless noted otherwise.
C. Sustainability: Environmental Product Declaration (EPD), Health Product Declaration (HPD)
D. Basis of Design:
a. Prelude XL 15/16" Exposed Tee as manufactured by Armstrong World Industries, Inc.
E. Substitutions: Refer to Alternates in Part 1.
2. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct hung unless otherwise indicated.
3. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft annealed, with a yield stress load of at least time three design load, but not less than 12 gauge.
4. Edge Moldings manufactured by Armstrong World Industries, Inc.
5. AXIOM Trim & Transitions as manufactured by Armstrong World Industries, Inc. www.armstrongceilings.com/axiom
6. Accessories as manufactured by Armstrong World Industries, Inc.
EXAMINATION
1. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)
PREPARATION
1. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.
2. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.
A. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.
INSTALLATION
1. Follow manufacturer installation instructions.
2. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
3. Suspend main beam from overhead construction with hanger wires spaced 4 feet on center along the length of the main runner. Install hanger wires plumb and straight.
4. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
5. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
6. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.
ADJUSTING AND CLEANING
1. Replace damaged and broken panels.
2. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members.Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove any ceiling products that cannot be successfully cleaned and or repaired. Replace with attic stock or new product to eliminate evidence of damage.

SECTION 09 54 23 LINEAR METAL CEILINGS

WORK INCLUDED
1. ENDURE CEILING / WALL PANEL
2. SUSPENSION SYSTEM
DESIGN / PERFORMANCE REQUIREMENTS
1. SUSPENSION SYSTEM: Rigidly secure acoustic ceiling system including integral mechanical and electrical components with max. deflection of 1:360
2. Linear ceilings will undergo changes with variations in the environment. Therefore, all dimensional tolerances are plys or minus 1/8"
3. Fire performance characteristics: Linear strips shall comform to class 1, or A flame spread rating, tested according to ASTM E 84; Flame spread: 25 or less. Smoke developed: 450 or less.
SUBMITTALS
1. Submit under provisions of Section 01 30 00 - Administrative Requirements
2. Product Data: Manufacturer's data sheets on each product to be used, including:
A. Preparation instructions and recommendations.
B. Storage and handling requirements and recommendations.
C. Installation methods.
3. Shop Drawings: Provide layout of linear ceiling and hat channel coordinated with other trades that will penetrate the linear ceiling or interfere with the installation and recessed or surface mounted devices located within the ceiling panels. Indicate method of suspension where interference exists.
4. Selection Samples: For each finish product specified, two complete sets of color brochures representing the manufacturer's full range of available colors and patterns.
5. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
6. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment and periodic cleaning and maintenance of all components.
QUALITY ASSURANCE
1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
2. Installer Qualifications: Minimum 2 years documented experience installing projects of similar size and complexity.
3. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
A. Finish areas designated by Architect.
B. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
C. Refinish mock-up area as required to produce acceptable work.
D. Accepted mock-ups shall be comparison standard for remaining Work
E. Pre-Installation Conference: Convene minimum two weeks prior to starting work of this section. Agenda shall include project conditions, coordination with work of other trades, and layout of items that penetrate ceilings.
DELIVERY, STORAGE, AND HANDLING
1. Deliver material in the manufacturer's original, unopened, undamaged containers with identification labels intact.
2. Store products off the floor in manufacturer's unopened packaging protected from exposure to harmful environmental conditions and at temperature and humidity conditions as recommended by the manufacturer.
3. A minimum of 72 hours prior to ceiling installation, linear strips shall be stored in the room in which they will be installed. Temperature and humidity of the room during this period shall closely approximate those conditions that will exist when the building is occupied.
4. Handle materials to avoid damage.
SEQUENCING
1. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
PROJECT CONDITIONS
1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
2. Plenums have proper ventilation, especially in high moisture areas with no excessive buildup of heat in the ceiling areas.
3. Space shall be fully enclosed with all exterior windows and doors in place, glazed, and weather-stripped. Roof is to be watertight, and all wet trades' work is to be completed, and thoroughly dry.
4. Mechanical, electrical, and other utility services above the ceiling plane shall be completed. No materials should rest against, or wrap around, the ceiling suspension components or connecting hangers.
5. Install only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. Heating and cooling systems shall be operating before, during, and after installation, with the humidity of the interior spaces maintained between 25 and 55 percent, and a temperature between 60 to 90 degrees F.
COORDINATION
1. Coordinate layout and installation of the linear ceiling systems with other work penetrating the ceiling including light fixtures, HVAC equipment, and fire suppression system components.
MANUFACTURERS
1. Acceptable Manufacturer: Rulon International, which is located at: 2000 Ring Way Rd.; St Augustine, FL 32092; Toll Free Tel: 800-227-8566; Tel: 904-584-1400; Fax: 904-584-1499; Email: request info (info@rulonco.com); Web:rulonco.com
2. Substitutions: Not permitted.
3. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
MATERIALS - GENERAL
1. Linear ceilings will undergo changes with variations in the environment. Therefore, all dimensional tolerances are plus or minus 1/8 inch (3 mm).
ENDURE PANELS
1. Endure direct attach systems are fabricated with strips that are nearly inert to harsh, moist weather conditions. Strips are completely recyclable.
A. 400 Series Engineered Polymer Strips:
a. Strips are provided with integral spacers between the edges of each strip, with the flat face visible.
b. Strips are 4" inches (102 mm) nominal wide, and placed into a design module of 4 inches (102 mm) with square sides.
B. Trim and Border Treatment: Provide end caps or junction trims as indicated.
C. Color:
a. Rulon Natural Maple 413
ACCESSORIES
1. Integrated Lighting System: Coordinate ceiling panels with lighting specified in drawings
FABRICATION
1. Edges, borders, and perimeter trims shall be indicated on the Drawings in accordance with the manufacturer's standard design details. All linear strips specified shall be supplied by the linear strip ceiling manufacturer.
EXECUTION
EXAMINATION
1. Do not begin installation until substrates have been properly prepared.
2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
PREPARATION
1. Clean surfaces thoroughly prior to installation
2. Work shall not begin until the space is fully enclosed and glazed and all wet work is completed and dried out to the satisfaction of manufacturer instructions.
3. Temperature shall be at least 65 degrees Fahrenheit during the installation and thereafter
4. Prepare surfaces using the methods reccomended by the manufacturer for achieving the best results for the substrate under project conditions.
INSTALLATION
1. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction, including the following:
A. Comply with ASTM C 636 and seismic design requirements indicated.
2. Perimeters: Use a laser leveling device to lay out and install the perimeter trim as specified.
3. Furring Strips (vertical application): Install furring strips with weatherproofing as required at 16 " (406 mm) on center perpendicular to strip direction and direct mount the furring strips to existing structure or suspend with t-grid.
4. Plywood Backer (horizontal or vertical application): Install OSB or equal with weatherproofing as required attaching at 24" (610 mm) on center to existing structure or suspended t-grid.
5. Linear Strips: Use 1/4" 18 Gage 5/8" long Crown Staples and attach through the back of the groove to furring strips on max 16 " (406 mm) centers. Apply Loctite PL® S40TM Polyurethane or equal when installing strips to weatherproofed sheathing and use 1/4" 18 Gage 5/8 " long Crown Staples and attach through the back of the groove to furring strips on max 24 " (610 mm) centers
6. Make final adjustments to level or contours as required.
FIELD QUALITY CONTROL
1. Technical Service: Manufacturer shall provide a local Technical Service Representative for on-site training and assistance during the installation process.
2. Environmental Monitoring: Manufacturer shall provide a temperature and humidity sensor to actively monitor the room in which the wood slats shall be installed for a minimum of one week before and up to two weeks after installation has been completed including all of the weeks in between.
3. Upon completion of ceiling installation, the owner's representative shall inspect all finished surfaces to ensure that the work has been completed in a manner satisfactory to the owner. Any deficiencies in the install of the ceiling shall be corrected prior to substantial completion.
ADJUSTMENTS AND CLEANING
1. Clean exposed surfaces of ceiling panel in accordance with manufacturer's instructions.
2. Remove and replace panels and tiles, which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.
PROTECTION
1. Protect installed products until completion of project
2. Touch-up, repair or replace damaged products before Substantial Completion.

SECTION 09 54 26 SUSPENDED WOOD CEILING

WORK INCLUDED
1. Rulon Linear ceiling panels
2. Suspension system
DESIGN / PERFORMANCE REQUIREMENTS
1. Suspension System: Rigidly secure acoustic ceiling system including integral mechanical and electrical components with maximum deflection of 1:360.
2. Wood is a natural product that will undergo changes with variations in the environment. Therefore, all dimensional tolerances are plus or minus 1/8 inch (3 mm).
3. Seismic Suspended wood ceilings meet seismic code compliance via direct screw attachment to heavy duty grid. Local code requirements should be consulted in order to determine additional requirements.
4. Fire Performance Characteristics: Suspended wood ceilings shall conform to Class 1, or A flame spread rating, tested according to ASTM E 84; Flame Spread: 25 or less, Smoke Developed: 450 or less.
5. Certified Wood: Suspended wood ceilings shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and FSC STD-40-004, "FSC Standard for Chain of Custody Certification."
6. Build America Buy America: Suspended wood ceilings shall conform to the requirements of the Build America Buy America (BABA) provisions as defined in 49 U.S.C. § 5323(j), requiring that at least 55% of the total cost of components be manufactured in the United States.
SUBMITTALS
1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
2. Product Data: Manufacturer's data sheets on each product to be used, including:
A. Preparation instructions and recommendations.
B. Storage and handling requirements and recommendations.
C. Installation methods.
3. Shop Drawings: Provide layout of suspended wood ceiling and T-rails coordinated with other trades that will penetrate the wood ceiling or interfere with the installation and recessed or surface mounted devices located within the ceiling panels. Indicate method of suspension where interference exists.
4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment and periodic cleaning and maintenance of all components.
QUALITY ASSURANCE
1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum 5 years documented experience.
2. Installer Qualifications: Minimum 2 years documented experience installing projects of similar size and complexity.
DELIVERY, STORAGE, AND HANDLING
1. Deliver material in the manufacturer's original, unopened, undamaged containers with identification labels intact. Handle with care throughout installation.
2. Store products off the floor in manufacturer's unopened packaging protected from exposure to harmful environmental conditions and at temperature and humidity conditions as recommended by the manufacturer.
3. A minimum of 72 hours prior to ceiling installation, suspended wood ceilings shall be stored in the room in which they will be installed. Temperature and humidity of the room during this period shall closely approximate those conditions that will exist when the building is occupied.
PROJECT CONDITIONS
1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
2. Plenums have proper ventilation, especially in high moisture areas with no excessive buildup of heat in the ceiling areas.
3. Space shall be fully enclosed with all exterior windows and doors in place, glazed, and weather-stripped. Roof is to be watertight, and all wet trades' work is to be completed, and thoroughly dry.
4. Mechanical, electrical, and other utility services above the ceiling plane shall be completed. No materials should rest against, or wrap around, the ceiling suspension components or connecting hangers.
5. Install only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. Heating and cooling systems shall be operating before, during, and after installation, with the humidity of the interior spaces maintained between 25 and 55 percent, and a temperature between 60 to 90 degrees F.
COORDINATION
1. Coordinate layout and installation of the wood slats ceiling systems with other work penetrating the ceiling including light fixtures, HVAC equipment, and fire suppression system components.
MANUFACTURERS
1. Acceptable Manufacturer: Rulon International, which is located at: 2000 Ring Way Rd.; St Augustine, FL 32092; Toll Free Tel: 800-227-8566; Tel: 904-584-1400; Fax: 904-584-1499; Email: request info (info@rulonco.com); Web:rulonco.com
2. Substitutions: Not permitted.
3. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
MATERIALS - GENERAL
1. Wood is a natural product that will undergo changes with variations in the environment. Therefore, all dimensional tolerances are plus or minus 1/8 inch (3 mm).
RULON LINEAR CEILING PANELS
1. Linear Open Style: Provided in random lengths with tongue and groove ends or in fixed lengths. Standard lengths are 3 feet to 10 feet.
A. Module Size:
a. 4-1/2 inch (114 mm) module, having wood strips 3/4 inch (19 mm) thick by 3-3/4 inch (95 mm) wide, and a 3/4 inch (19 mm) reveal
B. Location:
a. Interior Areas: Interior ceiling areas shall have a factory-installed fiberfelt spacer between the wood strips. Fiberfelt spacer is provided in a standard black color.
C. Trim and Border Treatment: Provide end caps or junction trims as indicated.
D. Wood Species:
- a. Maple
E. Finish:
a. Match Rulon Natural Maple 413
ACCESSORIES
1. Cliprail: Attachment clips are spring-steel with phosphate pre-treatment and corrosion-resistantcoating and are attached at pre-spaced intervals to heavy-duty grid.
2. C-Hangers: Suspension hangers that are direct-screwed to the panel and hang over the heavy duty-grid. Hangers are made of spring-steel with phosphate pre-treatment and corrosion-resistant coating.
3. Torsion Springs and Saddle Clips: Two parts of a suspension system in which the torsion spring is direct-screwed to the panel and compressed to attach to the saddle clip that is fitted over the heavy duty-grid. Springs and clips are made of spring-steel with phosphate pre-treatmentand corrosion-resistant coating.
4. Z-Clips: Male/female aluminum attachment clips, similar to a French cleat but with a thinner profile, used to hang wood wall panels on furring strips.
5. Integrated Lighting System: Coordinate ceiling panels with lighting per drawings.
SUSPENSION SYSTEMS
1. Main Tees: Standard heavy duty 15/16 inch (24 mm) T-rail
2. Hangers; shall be Suspend ceiling panels from T-rail using torsion springs, C-hangers, or direct screw attachment, as recommended by the manufacturer.
A. System for Linear 4.5 inch open, 6 inch open, and 4 inch closed shall consist of Rulon cliprails, installed on #12-gauge wire hangers.
B. Linear wood system cliprail shall use clips factory-attached to the main tees, factory indexed to maintain the specified module.
FABRICATION
1. Edges, borders, and perimeter trims shall be indicated on the Drawings in accordance with the manufacturer's standard design details. All suspended wood ceiling products specified shall be supplied by the wood slat ceiling manufacturer.
EXAMINATION
1. Do not begin installation until substrates have been properly prepared.
2. Verify that T-rail carriers specified in Section 09 22 26 - Suspension Systems are in place, suspended and leveled in a direction perpendicular to the wooden strip direction of the wood panels.
PREPARATION
1. Clean surfaces thoroughly prior to installation.
2. Work shall not begin until the space is fully enclosed and glazed and all wet work is completed and dried out to the satisfaction manufacturer.
3. Temperature shall be at least 65 degrees Fahrenheit during the installation and thereafter.
4. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
INSTALLATION
1. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction, including the following:
A. Comply with ASTM C 636 and seismic design requirements indicated.
B. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
C. Additional Hanger Wires: Wrapped tightly 3 full turns to structure and component at locations where imposed loads could cause deflection exceeding 1/360 span or tolerances specified below.
2. Use a laser leveling device to lay out and install the perimeter trim as specified.
3. Suspend wood slats from the cliprail system using integrated linear clips.
4. Make final adjustments to level or contours as required.
FIELD QUALITY CONTROL
1. Technical Service: Manufacturer shall provide a local Technical Service Representative for on-site training and assistance during the installation process.
2. Environmental Monitoring: Manufacturer shall provide a temperature and humidity sensor to actively monitor the room in which the wood slats shall be installed for a minimum of one week before and up to two weeks after installation has been completed including all of the weeks in between.
3. Upon completion of ceiling installation, the owner's representative shall inspect all finished surfaces to ensure that the work has been completed in a manner satisfactory to the owner. Any deficiencies in the install of the ceiling shall be corrected prior to substantial completion.
ADJUSTMENTS AND CLEANING
1. Clean exposed surfaces of ceiling panel in accordance with manufacturer's instructions.
2. Remove and replace panels and tiles, which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.
PROTECTION
1. Protect installed products until completion of project.
2. Touch up, repair or replace damanged products before Substantial Completion.

SECTION 09 65 19 – RESILIENT FLOORING AND BASE

1. WORK INCLUDED: Provide resilient tile flr where indicated in the dwgs, as specified herein and as reqd for a complete and proper install.
2. SINGLE-SOURCE RESPONSIBILITY FOR FLR TILE: Obtain ea type, color and pattern of tile from a single source w/ resources to provide products of consistent quality in appearance and physical properties w/o delaying progress of the work.
3. FIRE PERFORMANCE CHARACTERISTICS: Provide resilient flr tile w/ the following fire performance characteristics as determined by testing products per ASTM indicated below by UL or another testing and inspecting agency acceptable to AHJ.
- Critical Radiant flux: 0.45 watts per sq cm or more per ASTM E-648.
- Smoke Density: Less than 450 per ASTM E 662.
4. PROJECT CONDITIONS - MAINTAIN A MIN TEMP of 70 deg F in spaces to receive tiles for at least 48 hrs prior to install, during install and for not less than 48 hrs after install. After this period, maintain a temp of no less than 55 deg F. Do not install tiles until they are at the same temp as space where they are to be installed. Close spaces to traffic during install.
5. SEQUENCING & SCHED Install tiles and accessories after other fin operations, including ptg, have been completed. Do not install tiles over conc slabs until the slabs have cured and are sufficiently dry to bond w/ adhesive.
6. MAINTENANCE STOCK: Furnish extra materials matching products installed as described below, packaged w/ protective covering for storage & identified w/ labels clearly describing contents. Furnish no less than 1 box for ea 50 boxes or fraction thereof, of ea class, wearing surface, color, pattern and size of resilient flr tile installed.
PRODUCTS:
1. RESILIENT TILE MATERIALS: Re dwgs for products, colors and fin reqd.
2. CONC SLAB PRIMER: Nonstaining type as recommended by flr and/or underlayment manuf.
3. TROWELABLE UNDERLAYMENTS & PATCHING COMPOUNDS: Latex-modified, Portland-cement based formulation provided or approved by tile manuf.
4. ADHESIVES (Cements): Latex water-resistant type recommended by tile manuf to suit resilient flr tile products and substrate conditions indicated.
5. RESILIENT REDUCER STRIP: Provide unit as recommended or provided by resilient flr covering manuf to match or to closely coord w/ resilient flr covering material where it abuts flr substrate w/o an applied fin material (conc or wd), in profile as indicated on the dwgs or as necessary to provide a smooth transition to the substrate material and w/ indicated radius layout, when applicable.
6. ACOUSTICAL UNDERLAYMENT: Flat, resilient, post-consumer recycled encapsulated rubber sht suitable for various flr material apps including vinyl, linoleum, Luxury Vinyl Tile or Plank in min 2.0 mm thickness w/ Impact Insulation Class (IIC) testing per ASTM E 492 and by 1 of the following manuf or eq: "2 mm Iso-Step Floor Underlayment" by Acoustical Solutions, 2.5 mm Hush II" by Shaw Hard Surface, 3 mm Impacta VC300" by Sound Seal.
EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 09 68 00 – CARPETING

1. WORK INCLUDED: Provide carpeting and all accessory materials, where indicated in the dwgs, as reqd herein and as necessary for a complete and proper install. The work includes leveling & patching of conc flrs, procurement and install of carpeting, providing carpet cushion and adhesive and providing associated carpet accessories.
2. REFERENCED STANDARD: "Carpet Specifiers' Handbook" by The Carpet and Rug Institute; complete w/ recommendations which can be reasonably applied to types of carpeting work reqd.
PRODUCTS:
1. CARPET MATERIAL: Re dwgs for manuf, product/series and colors.
2. CUSHION FOR STRETCHED INSTALL: UNO, provide 110 oz per SY, 23 PCF density rubber cushion as follows: B.O.D: "Full-House" Lifestyle Series" by Sponge Cushion Inc.
3. CUSHION FOR DOUBLE-STICK INSTAL: UNO, provide 62 oz per SY, 33 PCF density rubber cushion intended for double-stick glue-down install w/ anti-microbial treatment: B.O.D: "TredMOR 1562" by Sponge Cushion Inc or eq.
CARPET ACCESSORIES:
1. RESILIENT CARPET EDGE: Extruded or molded heavy duty rubber cpt edge guard w/ min 2" w anchorage flange; in colors as indicated on the dwgs or by architect from manuf colors

KEMSTUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS
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ARCHITECTURAL SPECIFICATIONS
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2. LEVELING COMPOUND: Latex type as recommended by carpet manuf compatible w/ adhesive and curing/sealing compound on conc.
3. INSTALL ADHESIVE: Water-resistant, non-staining as recommended by carpet manuf, which complies w/ flammability reqs for installed carpet.
4. DOUBLE-STICK CARPET CUSHION ADHESIVE: Use adhesive w/ VOC content less than 50 g/L (per 40 CFR 59, Subpart D - EPA Method 24), except as otherwise reqd by pad or carpet manuf: "SS-5" ("Safe-Set") by Chicago Adhesive Products, Co. "Parabond" Dual-Stik DS-902, by Para-Chem, Inc. "ECO 220"; by Mapei Corp.
5. SEAMING CEMENT: Hot-melt seaming adhesive or sim product recommended by carpet manuf, for taping seams and butting cut edges at backing to form secure seams and prevent pile loss at seams.
6. MISC MATERIALS: As recommended by manuf of carpet, cushions and other carpeting products; selected by installer to meet project circumstances and reqs.

EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

SECTION 09 91 00 – PAINTING

1. WORK INCLUDES surface prep and ptg or fin of surfaces exposed to view, throughout the project and in accordance w/ reqs herein. Except where a natural fin or a material is specifically noted as a surface not to be ptd, pt or fin all exposed surfaces whether or not ptg is designated in the dwgs. Where items or surfaces are not specifically mentioned, pt the same as sim adjacent materials or areas.
2. PTG NOT REQD: UNO, ptg is not reqd on PLAM, prefin sht mtl, plumb fixtures, elect equip (excluding exposed distribution cabinet(s) or elect devices), Ptg is not reqd on surfaces such as walls or clgs in concealed or inaccessible areas, Mtl surfaces of anodized alum, s/s, chromium plate and sim fin materials will not req fin ptg, UNO. Do not pt over code reqd labels or equip ID labels.

QUALITY ASSURANCE:
PRODUCT STANDARDS: Comply w/ Master Painters Institute (MPI) standards indicated and provide products as listed in "MPI Approved Products List", Provide best quality grade of various types of coatings indicated as regularly manuf by listed pt materials manuf. Materials not displaying manuf identification as a standard, best-grade product will not be acceptable.

1. SOURCE LIMITATIONS: Obtain block fillers, primers and undercoat materials for ea coating sys from the same manuf as the fin coats.
2. PROVIDE PRIMERS and undercoat pts produced by the same manuf as the fin coats. Use only thinners approved by pt manuf and use only w/in recommended limits.
3. PREP surfaces & apply coatings in strict accordance w/ the coating manuf recommendations.
4. DELIVER MATERIALS to job site in original, new and unopened packages and containers bearing manuf name and label. Store materials not in actual use in tightly covered containers. Maintain containers used in storage of pt in a clean condition, free of foreign materials and residue. Keep storage area neat and orderly. Remove rags and water daily. Take all precautions to ensure workmen and work areas are adequately protected from fire and health hazards resulting from handling, mixing and application of pts.
5. JOB CONDITIONS: Apply pts only when temp of surfaces to be ptd and surrounding air temp are w/in recommended range permitted by the pt manuf printed instructions. Do not apply pt when relative humidity exceeds 85% or to damp surfaces.

PRODUCTS:
1. MATERIAL QUALITY: Provide best quality grade of various types of coatings as regularly manuf by acceptable pt materials manuf. Materials not displaying manuf identification as a standard, best-grade product will not be acceptable.
2. RE pt materials sched at end of this spec, Provide materials in colors & fin as indicated dwgs.

EXECUTION:
1. SURFACE PREP: Clean surfaces of dirt, rust, scale, grease, moisture or other conditions otherwise detrimental to formation of a durable pt film. Prep and clean in accordance w/ pt manuf printed instructions for ea particular substrate condition.
2. REMOVE hardware, accessories, plates, lighting fixtures and sim items in place and not to be fin ptd or provide surface-applied protection prior to surface prep and ptg operations. Remove, if necessary, for complete ptg of items and adjacent surfaces. Following completion of ptg of ea space or area, reinstall removed items.
3. CLEAN WD SURFACES of dirt, oil and other foreign substances w/ scrapers, mineral spirits and sandpaper as reqd. Sand surfaces exposed to view smooth and dust off. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended knot sealer before application of primer. After priming, fill holes and imperfections in fin surfaces w/ putty or plastic wd filler. Sand smooth when dried.
4. PRIME, STAIN OR SEAL WD to be ptd immediately upon delivery. Prime edges, ends, faces, undersides and backsides of wd, including cabinets, counters, cases and pnls. When transparent fin is reqd, backprime w/ spar varnish. Backprime pnls on int partitions where masonry, plaster or other wet wall const occurs on backside. Seal tops, bot and cutouts of unprimed wd drs w/ a heavy coat of varnish or sealer immediately upon delivery or after install, if unit is cut in the field.
5. CLEAN NONGALV FERROUS-MTL SURFACES that have not been shop coated; remove oil, grease, dirt, loose mill scale and other foreign substances. Use solvent or mech cleaning methods that comply w/ recommendations of the Steel Structures Painting Council.
6. TOUCH UP SHOP-APPLIED PRIME COATS that have been damaged. Wire-brush, clean w/ solvents per manuf and touch up w/ the same primer as the shop coat.
7. MATERIALS PREP: Carefully mix and prep pt materials in accordance w/ manuf directions. Maintain containers used in mixing and application of pt in a clean condition, free of foreign materials and residue. Stir material before application to produce a mixture of uniform density; stir as reqd during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using. Use only thinners approved by the pt manuf and only w/in recommended limits.
8. APPLICATION: Apply pt in accordance w/ manuf directions. Use applicators and techniques best suited for substrate and type of material being applied. Do not pt over dirt, rust, scale, grease, moisture, scuffed surfaces or conditions detrimental to formation of a durable pt film.
9. SCHED: Apply first-coat material to surfaces that have been cleaned, pretreated or otherwise prep for ptg as soon as practicable after prep and before subsequent surface deterioration. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until pt has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure and application of another coat of pt does not cause lifting or loss of adhesion of the undercoat.
10. APPLY PT to completely cover previously ptd surfaces, to provide an opaque, smooth surface of uniform fin, color, appearance and coverage. Cloudiness, spotting, holidays, lap marks, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.
11. THE # OF COATS and film thickness reqd is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manuf. Sand between applications where sanding is reqd to produce an even smooth surface in accordance w/ the manuf directions.
12. APPLY ADDITIONAL PT coats when undercoats, stains or other conditions show through final coat of pt, until pt film is of uniform fin, color and appearance. Give special attention to insure surfaces, including edges, corners, crevices and exposed fasteners receive a dry film thickness eq to that of flat surfaces.
13. PT INT SURFACES of ducts, where visible w/ a flat, nonspecular black pt. Pt back sides of access pnls & removable or hinged covers to match exposed surfaces.
14. MIN COATING THICKNESS: Apply materials no less than the manuf recommendation. Provide a total dry film thickness of the entire sys as recommended by the manuf.
15. PRIME COATS: Before app of fin coats, apply a prime coat of material as recommended by the manuf to material reqd to be pt or fin & has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to assure a fin coat w/ no burn through or other defects due to insufficient sealing.
16. PIGMENTED (OPAQUE) FIN: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform fin, color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, etc. will not be acceptable.
17. APPLY TRANSPARENT STAINS in accordance w/ the stain & substrate manuf recommendations to ensure proper penetration of the stain & to produce an even, consistent, color that enhances the natural characteristics of the substrate material. Apply w/ spray & brush applicators using means & techniques best suited for the substrate and the type of stain being applied. Provide a consistent application of stain w/o color irregularities, brush marks or other surface irregularities not inherent w/ the substrate material. Stain edges and ends of bds and brush out excess stain that collects in surface textures or jts, as applicable. Do not apply stain on surfaces that are not sufficiently dry or that are in direct sunlight.
18. TRANSPARENT (CLEAR) FIN: Use multiple coats to produce a glass-smooth surface film of even luster. Lightly sand the surface between each successive coat. Provide a fin free of laps, runs, cloudiness, color irregularity, brush marks, orange peel, nail holes or other surface imperfections. Typ. provide satin fin for final coats, UNO.

PAINT MATERIALS SCHEDULE:
(RE: for MPI's "Approved Product List" – except as indicated below)
1. EXT NATURAL-FIN WD: SEMI-TRANSPARENT OIL/ALKYD FIN:
   - 1 Coat of "Cetol SRD" Semi-Transparent Stain by Sikkens,
   - 2 Fin Coats: "Penofin Verde (low VOC), Natural by Sikkens
2. EXT PTD DRYWALL SOFFITS: FLAT ACRYLIC LATEX:
   - Primer: MPI # 6 X-Green - Primer, Latex for Extr Wd
   - 2 Fin Coats: MPI # 10 - Latex, Ext Flat (MPI Gloss Level 1-2)
3. EXT PTD WD TRIM: SEMI-GLOSS LATEX FIN
   - Primer: MPI # 6 X-Green - Primer, Latex for Ext Wd
   - 2 Fin Coats: MPI #11 - Latex, Ext Semi-Gloss (MPI Gloss Level 5)
4. EXT CMU WALLS: SATIN/EGGSHELL ENAMEL:
   - Block Filler: MPI # 4 X-Green - Block Filler, Latex, Int/Ext
   - Primer: MPI # 6 X-Green - Primer, Latex for Ext Wd
   - 2 Fin Coats: MPI # 15 - Latex, Ext, Low Sheen (MPI Gloss Level 3-4)
5. EXT FERROUS MTL: SEMI-GLOSS ALKYD
   - Primer: MPI # 23 - Primer, Mtl, Surface Tolerant (w/ SSPC SP1 w/ SP 2 or SP3 prep)
   - Note: Primer not reqd to be applied in field on pre-primed items
   - 2 Fin Coats: MPI # 94 - Alkyd, Ext, Semi-Gloss (MPI Gloss Level 5) or
   - MPI # 81 - Alkyd, Quick Dry, Semi-Gloss
6. EXT ZINC-COATED (GALV) MTL: SEMI-GLOSS ALKYD:
   - Primer: MPI # 134 - Primer, Galv, Water Based
   - 2 Fin Coats: MPI # 94 - Alkyd, Ext, Semi-Gloss (MPI Gloss Level 5) or
   - MPI # 81 - Alkyd, Quick Dry, Semi-Gloss
7. INT DRYWALL: EGGSHELL/SATIN LATEX (Class A: 5-5-0)
   - Primer Coat: MPI # 149 X-Green - Primer Sealer, Int, Low Odor/VOC
   - 2 Fin Coats: MPI # 44 X-Green - Latex, Int, (MPI Gloss Level 2)
   - Apply fin coats w/ roller, UNO
8. INT MTL: SEMI-GLOSS ALKYD ENAMEL (Class A: 5-5-0)
   - First Coat: MPI # 107 - Primer, Rust-Inhibitive, Water Based
   - Note: Primer not reqd to be applied in field on pre-primed items
   - 2 Fin Coats: MPI # 54 X-Green - Latex, Int, Semi-Gloss
   - Brush apply fin coats, UNO
9. PTD WD: EGGSHELL ALKYD ENAMEL (Class A: 5-5-0)
   - Prime Coat: MPI # 45 - Int Alkyd Primer Sealer
   - 2 Fin Coats: MPI # 51 - Int Alkyd, Eggshell
   - Brush apply fin coats, UNO
10. INT CMU WALLS: SEMI-GLOSS LATEX (Class A: 5-5-0)
   - Block Filler & Primer Coat: MPI # 4 latex block filler
   - Primer Coat: MPI # 149 X-Green - Primer Sealer, Int, Low Odor/VOC
   - 2 Fin Coats: MPI # 54 X-Green - Latex, Int, Semi-Gloss

SECTION 09 93 13 – EXTERIOR STAINING AND FINISHING
SECTION INCLUDES: Ext coating w/ transparent and semi-transparent fin.
DELIVERY, STORAGE & HANDLING:
1. Deliver manuf unopened containers to the work site, Packaging shall bear the manuf name, label & the following info: product name and type, application & use instructions, surface prep, VOC content, environmental handling, batch date, color number, storage: Store and dispose of solvent-based materials and materials used w/ solvent-based materials, in accordance w/ reqs of AHJ. Store materials in an area w/in the acceptable temp range, per manuf instructions. Protect from freezing. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the coatings.

PRODUCTS:
1. Acceptable Manuf: Sikkens ProLuxe
2. Substitutions: Requests for substitutions will be considered in accordance w/ 01 60 00.

MATERIALS:
1. UNO, provide factory-mixed coatings. When reqd, mix coatings to correct consistency in accordance w/ manuf instructions before application. Do not reduce, thin or dilute coatings or add materials to coatings unless such procedure is specifically described in manuf product instructions.
2. For opaque fin, tint ea coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, w/ final fin coat as base color.
3. Primers: Where the manuf offers options on primers for a particular substrate, use primer categorized as "best" by the manuf.
4. The execution of back-priming of wdwork is usually specified in the wdwork section, although the materials may be specified here.

ACCESSORIES: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials and clean-up materials reqd, per manuf specs.
EXECUTION: Per 01 73 00, manuf written instructions, referenced standards and in compliance w/ any reqs of AHJ.

DIVISION 10: SPECIALTIES
SECTION 10 14 00 SIGNAGE
WORK INCLUDED
1. Fire or smoke, wall partition signs
2. Accesible interior building signs, including
   A. Max. Occupancy room signs
3. Separate signage work: Owner will arrange for the following through a separate contract:
   A. Exterior Building Signage
   B. Interior environmental wall graphics
   C. Facility room and numbering signage

ACTION SUBMITTALS
1. Product Data: For each sign type.
2. Shop Drawings: Submit shop drawings of all signage items prior to fabrication and erection. Include:
   A. Include elevations, details, and attachments to other work.
   B. Show locations and quantities.
   C. Indicate font and character proportions.
   D. Accessories

QUALITY ASSURANCE
1. Comply with applicable requirements of the Americans with Disabilities Act (ADA), requirements of the Building Code, including but not limited to accessibility requirements of ANSI A117.1 (most recent edition), and local regulations or ordinances. Obtain and pay for all exterior signage permits, which may require a separate permit application to the AHJ.
   A. Obtain approval of governmental AHJ representatives, and obtain approval of the Owner before fabrication of signage. Costs for permits and approval is a part of this Section.
2. With the exception of required UL labels, do not apply fabricator's identification labels to any exposed surface of signs.

PRODUCTS
CHARACTERISTICS
1. Font Character Proportions: Letters and numbers on signs must have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height ratio between 1:5 and 1:10.
2. Font Color Contrast: Characters and symbols must contrast with their background - either light characters on a dark background or dark characters on a light background.
3. Raised Characters: Letters and numbers on signs must be raised 1/32 in minimum and be of "sans serif character fonts. Raised characters or symbols must be at least 5/8 in high but no higher than 2-inches.
4. Symbols or pictograms on signs must be raised 1/32 in minimum.
5. Mount accessible door signs as follows per accessibility requirements:
   A. Horizontally: centered at sixty (60)-inches above the floor to the center of sign
   B. Vertically: centered nine (9)-inches from the strike side of the door (not from the door frame).

SIGN MATERIALS
1. Aluminum sheet: Alloy and temper recommended by aluminum producer or finisher for type of use and finish indicated, and with not less than the strength and durability properties required in ASTM B 209 for 5005 H15.
2. Aluminum extrusions: Allow and temper recommended by aluminum producer or finisher for type of use and finish indicated, and with not less than the strength and durability properties required in ASTM B 221 for 6063 T5.
3. Pressure sensitive vinyl (PSV): "220 Scotchcal" by 3M or equal 2 mil minimum thickness, opaque, non-reflecting, cast PVC film with pressure sensitive adhesive backing sheet, suitable for exterior applications, in colors as selected by Architect from manufacturer 's full range of available options, or as indicated on the Drawings.

FABRICATED ITEMS
1. Accessible interior wayfinding, directional & room / door signs: Provide tactile accessible sign units with raised letters, raised symbols (when indicated) and with Grade II Braille text meeting requirements of ANSI A117.1 and the 2010 ADA Standard for Accessible Design for fabrication and for installation requirements.
2. Composition: Multi-layer, ultraviolet resistant, moisture-resistant, non-glare interior photosensitive photopolymer sheet with minimum 1/8-inch-thick PETG base, with surface burning characteristics that consist of a flame spread of 75 and a smoke development of 120 when tested in accordance to UL 723 (ASTM E 84). Provide in "letter" color as selected by Architect from Manufacturer 's full range of available color options.
3. Second surface or "background" surface to be painted with non-glare acrylic paint as recommended by Manufacturer, in a contrasting color to the remaining character surface, in colors (potentially different on each floor) as selected by the Architect from the manufacturer 's full range of available color options.
4. Typical font / case: As indicated on the Drawings, or as selected by Architect
5. Braille characters: Fabricate each accessible sign unit with corresponding Grade II Braille text.

FIRE- OR SMOKE- WALL OR PARTITION SIGNS
1. Within each room or interior space facing a fire- or smoke-rated wall or partition, and at any other walls or partitions required to have fire- or smoke- protected openings or penetrations, provide permanent, adhesive mounted vinyl signs of not less than 11-inch high by 15-inches-wide, as follows:
   A. Locate within 15-feet of each end on both sides, at each change of direction of the wall or partition, and at intervals not exceeding thirty (30)-feet measured horizontally along the length of the wall or partition.
   B. Locate approximately 6-inches above suspended ceilings or below access flooring, as applicable. Center units within attic spaces or other concealed areas, as appropriate
   C. Locate within all concealed spaces, including ceilings, attics, or concealed areas under finished Floors (access flooring).
   D. Lettering: 3-inch minimum height, with 3/8-inch-thick strokes typical, in a contrasting color to the background.
2. Recommended text: "FIRE AND / OR SMOKE BARRIER —PROTECT ALL OPENINGS", or similar wording.
   A. BASIS-OF-DESIGN: Fire Wall Signs Inc., P: 910-392-4939, website: www.firewallsigns.com or equal.

MISCELLANEOUS MATERIALS:
1. Fasteners: Use concealed fasteners, unless otherwise indicated, which are fabricated from metals and Which are non-corrosive to either sign materials or mounting surface.
2. Anchors and inserts: Use nonferrous metal or hot dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled in place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
3. Double-stick tape mounting: Provide double sided 1/32-inch-thick mounting tape for attachment of door signs onto space adjacent to door strike jamb.

SIGN SCHEDULE
1. FIRE- OR SMOKE- WALL OR PARTITION SIGNS
   A. Provide code-compliant signs fabricated in materials and sizes indicated in these specifications. Mount on both occupied sides of wall, if located at an interior partition condition.
2. SIGN TYPE 1: Fire-Separation Wall Sign: indicating separation and designed using standards from basis-of-design company indicated in these specifications.

ACCESSIBLE INTERIOR SIGN UNITS
1. Provide accessible compliant signs fabricated in materials and finishes indicated on the Drawings, with raised, tactile letters and Braille characters, in size as indicated on the Drawings or as otherwise required for the text in the font type and size required. Provide tactile, pictorial images where indicated, typically for restrooms, elevator and at "outside" stair signs, and as follows:
   A. SIGN TYPE 1: Maximum Occupancy Sign: indicating maximum occupancy of specific, "assembly type" rooms

EXECUTION
1. INSTALL signage in accordance with the approved shop drawings, to be level, plumb, and at height indicated, free from distortion or other defects of appearance. Remove and reinstall signage materials that do not comply with these requirements.
2. MOUNT accessible room signs directly onto wall surface centered nine (9)-inches from the strike-side edge of the door, at 5'-0" AFF to center of sign. Use double sided foam tape to mount to smooth non porous surfaces.
3. CLEAN soiled sign surfaces and protect units from damage until Substantial Completion.

SECTION 10 55 00 POSTAL SPECIALTIES
PROVIDE
1. postal specialties where indicated in the Drawings, as specified herein, and as required for a complete and proper installation. Arrange for local Postmaster 's approval of installed product at completion.

SUBMIT PRODUCT DATA
1. include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of postal specialty.

DELIVERY, STORAGE, AND HANDLING
1. Deliver lock keys to Owner by registered mail or overnight package service with a record of each corresponding lock and key number.

COORDINATE
1. layout and installation of recessed postal specialties with wall construction.

WARRANTY
1. Provide Manufacturer's standard warranty form in which manufacturer agrees to repair or replace components of postal specialties that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to structural failures, faulty operation of hardware, except door locks, and deterioration of metals, metal finishes, and other materials beyond normal weathering.

MAIL-BOX WARRANTY PERIOD
1. Five years from date of Substantial Completion.

MODULAR MAILBOX UNITS:
1. Provide USPS-approved, front-loading, horizontal mailbox units for USPS mail delivery consisting of multiple compartments with fixed, solid compartment enclosures in quantity and configuration as indicated on the Drawings. Provide access to compartments for distributing incoming mail from front of unit by unlocking master lock and swinging side-hinged master door to provide accessibility to entire group of compartments. Provide access to each compartment for removing mail by swinging compartment door. Comply with USPS STD-4C, and as follows:
   A. STANDARD "TENANT" MAIL COMPARTMENTS :with doors not less than 13-1/4 wide x 3-1/4 inch high
   B. 1 EACH OUTGOING MAIL compartment labeled "Outgoing Mail" per unit
   C. FRONT-LOADING MASTER DOOR: Fabricated from extruded aluminum and braced and framed to hold compartment doors; with master door lock and concealed, full-length, stainless-steel piano hinge on one side. Fabricate master door to remain open while mail is deposited.
   D. MASTER DOOR LOCK: Prepare master door to receive lock furnished by local postmaster.
   E. COMPARTMENT DOORS: Fabricated from aluminum sheet reinforced with vertical stiffeners. Equip each compartment door with lock, tenant identification, and concealed, full-length, flush hinge on one side. Provide one compartment with outgoing mail slot and prepared for master door lock.
   F. TENANT IDENTIFICATION: 2-inch-wide by 5/8-inch- high, clear-plastic cardholder set in recessed slot in face of compartment door. Provide cardboard strip and self-adhesive numbers.

EXECUTION
1. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances, roughing-in openings, clearances, and other conditions affecting performance of Work, Examine walls for suitable conditions where recessed units will be installed. Proceed with installation only after unsatisfactory conditions have been corrected.

GENERAL INSTALLATION
1. Install unit(s) level and plumb, according to manufacturer's written instructions and roughing-in drawings. Where aluminum will contact grout, concrete, masonry, wood, or dissimilar metals, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturers of dissimilar metals.
   A. Final acceptance depends on compliance with USPS requirements

INSTALLATION OF HORIZONTAL APARTMENT MAILBOXES
1. Install with center of tenant-door lock cylinder not more than 67 inches above finished floor and bottom of lowest compartment not less than 28 inches above finished floor.

ARRANGE FOR USPS PERSONNEL TO TEST receiving and collection after installation according to USPS regulations. Obtain written final approval from USPS postmaster that authorizes mail collection.

ADJUSTING, CLEANING, AND PROTECTION
1. Remove temporary protective coverings and strippable films, if any, as units are installed, unless otherwise indicated in manufacturer's written installation instructions. Adjust doors to operate easily without binding. Verify that integral locking devices operate properly.

ON COMPLETION OF INSTALLATION
1. clean interior and exterior surfaces as recommended by manufacturer. Touch up marred finishes, or replace postal specialties that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by postal specialty manufacturer. Replace units that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

DIVISION 31: EARTHWORK
SECTION 31 10 00 – SITE CLEARING
1. WORK INCLUDED: Clear the site of all surface vegetation, rubbish and misc manmade objects objectionable to future site development.
2. SITE CONDITIONS: Clear the site w/ min interference of the surrounding properties, streets, walks, etc. Exist streets must be cleaned of any refuse from this operation. Damage to exist curbs, streets or utilities must be repaired at no added cost to the owner.
3. REMOVE trees, shrubs and plants, including stumps and roots. Remove manmade objects such as conc, mtl fence posts, fences, utility lines, asphalt and other materials not intended to be incorporated into the completed const.
4. DO NOT REMOVE TOPSOIL from the site. Stockpile for later distribution on site.
5. REMOVE ALL DEBRIS from this operation to a suitable, legal disposal site.

SECTION 31 20 00 – EARTH MOVING
1. WORK INCLUDED: Excavate, backfill and compact the site to the els shown on the dwgs, as specified herein and as needed to meet the reqs of the const shown in the CDs. Earthwork includes but is not limited to the following: DEMO & REMOVE from the site all earthwork materials not utilized in the new const.
   - ENGINEERED-FILLS including remediated exist soil materials below new const elements. PROVIDE ADDITIONAL SOIL MATERIALS for topsoil at lawn and planter areas, if necessary. ROUGH and FIN GRADING of the site to provide positive slope away from the bldgs and to attain indicated fin grades.
2. A GEOTECHNICAL REPORT may be obtained by the owner. Comply w/ recommendations when available. Base earthwork on the following reqs. until report is available.
3. MECH & ELECT EARTHWORK: Excavation and backfill reqd in conjunction w/ underground mech & elect utilities and buried mech and elect components must comply w/ specified reqs of this section, but is not included as a part of the work of this section.

QUALITY ASSURANCES:
1. A TEST LAB may be retained to: (1) classify proposed on-site and borrow soils to verify soil materials comply w/ specified reqs for quality control testing, (2) approve earthwork materials and (3) to provide cont observation during placement of all fill materials.
2. COMPACTION DENSITY: Any reference to compaction or density is hereby defined as the density obtained in accordance w/ ASTM Specification D-698, UNO.

JOB CONDITIONS:
1. EXIST UTILITIES: Locate existing underground utilities in areas of work. If utilities are to remain in place, provide adequate means of support and protection during earthwork operations. Should uncharted or incorrectly charted, piping or other utilities be encountered during excavation, consult utility owner immediately for directions. Cooperate w/ owner and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.
2. DEMO & COMPLETELY REMOVE site exist underground utilities indicated to be removed. Coord w/ utility companies to shutoff services if lines are active.
3. IF BLASTING IS USED FOR ROCK REMOVAL, engage an entity experienced w/ demonstrable successful prior rock-blasting operations sim to the work of this project. Limit peak velocities at the property lines to less than 2" per second, unless local ordinances req more stringent limitations. Prior to blasting, perform a pre-blast survey of adj struct; and provide vibration monitoring during all blasting operations. Blast w/ smaller amounts of explosives over a # of delays to reduce potential blasting damage.

PRODUCTS:
1. PROVIDE SATISFACTORY BORROW SOIL MATERIALS from off-site when sufficient approved soil materials are not available at the exist site. All fill and backfill materials are subject to the approval of the testing lab.
2. SATISFACTORY FILL MATERIALS are soil or soil-rock mixture free from clay, debris, waste, vegetable and other deleterious matter, complying w/ ASTM D 2487 Soil Classification Groups CL, ML, CL-ML, SP, GP and GW, w/ 100% passing a 3" sieve, no more than 60% passing a 200 sieve and "Fine fraction" (passing the 40 sieve) characteristics of: liquid limit: < 45 and plasticity index: < 25.
3. UNSATISFACTORY SOIL MATERIALS contain clay, rock or gravel larger than 3 " in any dim, debris, waste or frozen materials, vegetable and other deleterious matter and are further defined as those complying w/ ASTM D 2487 Soil Classification Groups GC, SC, ML, MH, CH, OL, OH and PT.
4. STRUCT BACKFILL, GRAVEL SURFACING or SUBBASE MATERIAL (under flr slabs): Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, crushed slag and natural or crushed sand, w/ no more than 5% passing a No. 200 sieve. (tunnel rock and crushed conc will not be permitted).
5. DRAINAGE FILL: washed, evenly graded mixture of crushed stone or crushed or uncrushed gravel, w/ 100% passing a 1 1/2" sieve, no more than 5% passing a No. 4 sieve and no more than 1% passing a No. 200 sieve (tunnel rock & crushed conc not be permitted).
6. FILTERING MATERIAL: Evenly graded mixture of natural or crushed gravel or crushed stone & natural sand, w/ 100% passing a 1 1/2" sieve & 0 to 5% passing a No. 50 sieve.
7. IMPERVIOUS FILL: Clayey gravel & sand mixture capable of compacting to a dense state.
8. STRIP TOPSOIL and stockpile it for re-use on site. Provide additional topsoil if quantity is insufficient, from local sources having sim soil characteristics as the project site.
9. TRENCH BACKFILL AT PAVEMENT: Under and w/in 5' of paved areas, provide a uniformly graded mixture of natural or crushed gravel, crushed stone or crushed slag, w/ 100% passing a No. 4 sieve and not more than 5% passing a No. 200 sieve (tunnel rock and crushed conc will not be permitted).
10. PIPE BEDDING: Provide a uniformly graded mixture of natural or crushed gravel, crushed stone or crushed slag, 1/4" to 3/4" size, meeting ASTM C-33 for soundness and ASTM C-67 for Gradation. Blocking for grade not permitted.
11. TERMITE TREATMENT: commercial chemical or combination of chemical toxicants intended as a soil poisoning to control subterranean termites, approved by AHJ, in max strength allowed.
12. HERBICIDE TREATMENT: Commercial chemical compound for weed control, registered by the EPA, in granular, liquid or wettable powder form.
13. LIME-CHEMICAL STABILIZATION ADDITIVE: "Code L" type lime (locally available calcium oxide by-product also known as lime kiln dust). Add water to allow for proper hydration of lime.

FLY-ASH-CHEMICAL STABILIZATION ADDITIVE: ASTM C 618 Class-C fly ash – between 12 to 16% on a dry-wt basis, per approval of test labDEWATERING:
1. PROTECT SUBGRADES & FDN SOILS from softening & damage by rain/water accumulation.
2. PROVIDE DRAINAGE DITCHES and/or pumping equip necessary to remove promptly and dispose of all water entering the excavations. Dewater by means which will ensure dry excavations and the preservation of final lines and grades of bot of excavations.
3. REMOVE SOFTENED SUB-GRADE: Where soil has been softened or eroded by flooding or placement during unfavorable weather, remove all damaged areas and recompact at no additional cost to the owner.

ENGINEERED-FILL: Backfill over-excavations and fill other areas w/ 1 of the following fill sys:
LOW-PLASTIC APPROVED, IMPORTED SOIL MATERIALS:
1. CRUSHED LIMESTONE consisting of 1" minus material, drained to daylight or to sump pump.
2. LEAN-CONC FILL (if used, widening of the ftg excavation is not reqd) or CHEMICALLY STABILIZED EXIST SOIL material, stabilized by the addition of lime at a rate of 7% or approx 8 lbs of lime per cubic ft of soil. Use pulverizing and tilling equip such as "gators" for mixing the lime into the soil.
3. COMPACT approved soil material in multiple lifts and mech compact to no less than 95% of its max dry density, to the approval of the owner 's soils engineer.
4. FTGS ON BEDROCK: If bedrock is encountered w/in a ftg excavations, extend the fdn down through natural soil so all ftings bear on sim approved bedrock material, to approval of the owner's soil engineer. At the GC 's option, excavate rock no less than 1' below ftg bearing el & backfill w/ engineered-fill, so the fdns will bear on materials of sim subgrade characteristics.
5. EARTHWORK UNDER BLDG FTGS: Insecticide treatment for termites over approved exist, undisturbed soil materials.
6. EARTHWORK UNDER BLDG SLAB-ON-GRADE: Insecticide treatment for termites over 4" thick drainage fill course – compacted to at least 98% of its max dry density, over approved engineered-fill in multiple layers, over approved exist soil material, w/ the top 6" scarified and uniformly moisture conditioned and compacted to not less than 95% of max dry density.
7. EARTHWORK UNDER FLEXIBLE ASPHALT PAVEMENT: Herbicide treatment over crushed stone base: 6" thick at parking areas or 8" thick at drive lanes, over approved exist soil materials or compacted fill materials until reqd subgrade is obtained, w/ the top 6" of approved exist materials scarified and uniformly moisture conditioned and compacted to not less than 95% of max dry density.
8. EARTHWORK UNDER LIGHT-DUTY RIGID CONC PAVEMENT (including walks): Herbicide treatment over approved exist soil materials or compacted fill materials until reqd subgrade is obtained, w/ the top 6" scarified and uniformly moisture conditioned and compacted to no less than 95% of max dry density.

EXCAVATION:
1. EXCAVATION IS UNCLASSIFIED and includes excavation of subgrade els indicated, regardless of the character of materials and obstructions encountered.

CLASSIFIED EXCAVATION:
1. EXCAVATE to subgrade els. Material to be excavated will be classified as earth and rock. Do not excavate rock until it has been classified and verified. The contract sum will be adjusted for rock excavation according to unit prices included in the CDs. Changes in the contract time may be authorized for rock excavation.
2. ROCK EXCAVATION INCLUDES removal and disposal of rock. Remove rock to lines and subgrade els indicated to permit install of permanent const w/o exceeding the following dims: 4" outside of conc forms other than at ftgs. 12" outside of conc forms at ftgs outside of min reqd dims of conc cast against grade. Outside dims of conc walls indicated to be cast against rock w/o forms or ext waterproofing treatments. 6" beneath bot of conc slabs on grade. 6" beneath pipe in trenches and the greater of 24" wider than pipe or 42"-w. 12" below ftgs.
3. EXCAVATE ROCK BELOW FTGS and over-excavate at soft soils to a min 1' below the ftg bot, to allow for more consistent bearing conditions. Do not excavate rock until it has been classified & cross sectioned by the owner 's testing & inspection agency.
4. UNAUTHORIZED EXCAVATION consists of removal of materials beyond reqd subgrade els or dims w/o specific direction. Unauthorized excavation, as well as remedial work, must be at the contractor's expense.
5. STABILITY OF EXCAVATIONS: Slope sides of excavations to comply w/ local codes and ordinances, OSHA and reqs of the testing lab. Step and bank all slopes exceeding 5 horiz to 1 vert, w/ benches spaced so the ht of the cut at the up-slope end of the bench is less than 5'. Shore and brace where sloping is not possible because of space restrictions or stability of the material excavated. Maintain sides and slopes of excavations in a safe condition until completion of backfilling.

EXCAVATION FOR STRUCTURES:
1. CONFORM TO ELS & DIMS SHOWN w/in a tolerance of plus or minus 0.10'. Extend excavation to permit placing and removal of conc formwork, install of services, other const and for inspection.
2. PROTECT EXCAVATION bot against freezing when atmospheric temp is less than 35 deg F.
3. EXCAVATE FOR FTG & FDNS only after general site excavation filling and grading are complete. Take care not to disturb B.O. excavation. Excavate by hand to final grade just before conc reinf is placed. Trim bot to reqd lines and grades to leave solid base to receive other work.
4. EXCAVATION FOR WALKS & PAVEMENTS: Excavate surfaces under walks and pavements to indicated cross sections, els and grades.

EXCAVATION FOR UTILITY TRENCHES:
1. EXCAVATE TRENCHES to uniform widths to provide a working clearance of 12" on ea side of pipe or conduit. Excavate trench walls vert from trench bot to 12" higher than top of pipe or conduit, UNO.
2. TRENCH BOT: Excavate and shape trench bot to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide cont support for bells, jts and barrels of pipes and for jts, fittings and bodies of conduits. Remove stones and sharp objects.
3. FOR PIPES OR CONDUIT LESS THAN 6" in nom dia and for flat-bot, multiple-duct conduit units, hand-excavate trench bot and support pipe and conduit on an undisturbed subgrade.
4. FOR PIPES & CONDUIT 6" OR LARGER in nom dia, shape B.O. trench to support bot 90 deg of pipe circumference. Fill depressions w/ tamped sand backfill. Where encountering rock or another unyielding bearing surface, carry trench excavation 6" below invert el to receive bedding course.

APPROVAL OF SUBGRADE:
1. NOTIFY TESTING LAB when excavations have reached reqd subgrade.
2. UNFORESEEN ADDITIONAL EXCAVATION: If testing lab determines unforeseen unsatisfactory soil is present, cont excavation and replace w/ compacted backfill or fill material as directed. Unforeseen additional excavation and replacement material will be paid for in accordance w/ the const contract 's provisions for changes in work.
3. RECONSTRUCT SUBGRADES damaged by freezing temps, frost, rain, accumulated water or const activities, as directed by the architect, at no added cost to the owner.

UNAUTHORIZED EXCAVATION:
1. FILL UNAUTHORIZED EXCAVATION UNDER FDNS or wall ftgs by extending indicated bot el of conc fdn or ftg to excavation bot, w/o altering reqd top el. Lean conc fill may be used to bring els to proper position when acceptable to the architect.
2. FILL UNAUTHORIZED EXCAVATIONS UNDER OTHER CONST as directed by architect. Where widths of utility trenches are exceeded, provide stronger pipe or special install procedures, as reqd by the architect.

STORAGE OF SOIL MATERIALS:
1. STOCKPILE EXCAVATED MATERIALS acceptable for backfill and fill soil materials, including acceptable borrow materials. Stockpile soil materials w/o intermixing. Place, grade and shape stockpiles to drain surface water. Cover to prevent wind-blown dust.
2. STOCKPILE SOIL MATERIALS away from edge of excavations. Do not store w/in drip line of remaining trees.

BACKFILL:
1. BACKFILL EXCAVATIONS PROMPTLY but not before completing:
2. ACCEPTANCE OF CONST BELOW FIN GRADE including, where applicable, dampproofing, waterproofing and perimeter insul.
3. SURVEYING LOCATIONS of underground utilities for record documents.
4. TESTING, INSPECTING & APPROVAL of underground utilities.
5. REMOVAL OF CONC FORMWORK.
6. REMOVAL OF TRASH and debris from excavation.
7. REMOVAL OF TEMP SHORING and bracing, and sheeting.

INSTALLING PERMANENT or temp horiz bracing on horiz supported walls.
1. PLACE MATERIALS evenly adj to structures, piping/conduit to reqd els. Take care to prevent wedging action of backfill against struct/displacement of piping/conduit by carrying material uniformly around the struct, piping/conduit to approximately same el in ea lift.
2. TERMITE & HERBICIDE TREATMENT: Install termite treatment in subsoil below bldg pad and 5' outside ext perimeter of pad. Install herbicide treatment below all pavements. Comply w/ manuf written instructions for install procedures.
3. PLACE & COMPACT BEDDING COURSE on rock and other unyielding bearing surfaces and to fill unauthorized excavations. Shape bedding course to provide cont support for bells, jts and barrels of pipes and for jts, fittings and bodies of conduits.
4. CONC BACKFILL TRENCHES that carry below or pass under ftgs and are excavated w/in 18" of ftg. Place conc to level of bot of ftg.
5. PROVIDE 4" THICK CONC BASE SLAB support for piping or conduit less than 30" below surface of roadways, streets, parking areas or driveways (vehicular areas). After install and testing, completely encase piping or conduit in a min of 4" of conc before backfilling or placing roadway subbase.
6. PLACE & COMPACT INITIAL BACKFILL of satisfactory soil material or subbase material, free of particles larger than 1" to a ht of 12" over utility pipe or conduit.

CAREFULLY COMPACT material under pipe haunches and bring backfill even up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of utility sys. Coord backfilling w/ utilities testing. Fill voids w/ approved backfill materials as shoring & bracing & sheeting is removed. Place and compact final backfill of satisfactory soil material to final subgrade. Install warning tape directly above utilities, 12" below fin grade, except 6" below subgrade under pavements and slabs.FILL:
1. PREP: Remove vegetation, topsoil, debris, wet and unsatisfactory soil materials, obstructions and deleterious materials from ground surface prior to placing fills. Plow strip or break up sloped surfaces steeper than 1 vert to 4 horiz so fill material will bond w/ exist surface.
2. WHEN SUBGRADE or exist ground surface to receive fill has a density less than reqd for the fill, break up ground surface to depth reqd, pulverize, moisture-condition or aerate soil and recompact to reqd density.
3. PLACE FILL MATERIAL IN LAYERS to reqd els for ea location as indicated above.

MOISTURE CONTROL:
1. UNIFORMLY MOISTEN OR AERATE subgrade and ea subsequent fill or backfill layer before compaction to w/in 2% of optimum moisture content, preventing free water from appearing on the surface during or subsequent to compaction operations.
2. DO NOT PLACE BACKFILL or fill material on surfaces that are muddy, frozen, frost or ice.
3. REMOVE & REPLACE OR SCARIFY & air-dry all satisfactory soil material too wet to compact to spec density. Stockpile or spread & dry remove wet satisfactory soil material. Maintain moisture content until flr slab, pavement or next layer of fill is const. If drying has occurred, scarify, remoisten & recompact subgrade to 9" min depth or remove affected material.

COMPACTION:
1. COMPACTION EQUIP: Utilize sheepsfoot rollers, multiple-wheel pneumatic-tired rollers, etc. able to compact fill to specified density while material is at specified moisture content.
2. COMPACTION MUST BE CONT over area and equip must make sufficient trips to insure reqd density has been obtained.
3. PLACE BACKFILL & FILL MATERIALS in layers no more than 8" in loose depth for material compacted by heavy compaction equip and not more than 4" in loose depth for material compacted by hand-operated tampers.
4. PLACE BACKFILL & FILL MATERIALS EVENLY on all sides of structures to reqd els. Place backfill and fill uniformly along the full length of ea structure.
5. PLACE & COMPACT SOIL MATERIAL in layers to reqd subgrade els and to provide min density spec above in accordance w/ ASTM D 1557, for ea area, to the approval of the owner's testing agency.
6. PROOF-ROLL SUBGRADES at flr slab and pavements w/ a loaded tandem axle dump truck or a scraper when excavation has reached reqd sub-grade els.

GRADING:
1. UNIFORMLY GRADE AREAS to a smooth surface, free from irregular surface changes. Comply w/ compaction reqs and grade to cross sections, lines and els indicated.
2. PROVIDE A SMOOTH TRANSITION between exist adjacent grades and new grades.
3. CUT OUT SOFT SPOTS, fill low spots & trim high spots to conform to reqd surface tolerances.
4. SLOPE GRADES to direct water away from bldgs and to prevent ponding. Fin subgrades to reqd els w/in the following tolerances: Lawn or unpaved areas: +/- 1/2"; walks: +/- 1/2"; pavements: +/- 1/2"; grading Inside bldg lines: fin subgrade to a tolerance of 1/2" when tested w/ a 10' straightedge.

SUBBASE & BASE COURSES:
1. UNDER PAVEMENTS & WALKS, place subbase course material on prepared subgrades. Place base course material over subbases to pavements.
2. COMPACT SUBBASE & BASE COURSES at optimum moisture content to reqd grades, lines, cross sections and thickness to not less than 95% of ASTM D 4254 relative density.
3. SHAPE SUBBASE & BASE to reqd crown els and cross-slope grades.
4. WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE is 6" or less, place materials in a single layer.
5. WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE EXCEEDS 6", place materials in eq layers, w/ no layer more than 6" thick or less than 3" thick when compacted.
6. PAVEMENT SHOULDERS: Place shoulders along edges of subbase and base course to prevent lateral movement. Const shoulders at least 12" wide of acceptable soil materials and compact simultaneously w/ ea subbase and base layer.

DRAINAGE FILL:
1. UNDER SLABS-ON-GRADE, place drainage fill course on prepared subgrade.
2. COMPACT DRAINAGE FILL to reqd cross sections and thickness. When compacted thickness of drainage fill is 6" or less, place materials in a single layer. When compacted thickness of drainage fill exceeds 6" thick place materials in eq layers, w/ no layer more than 6" thick nor less than 3" thick when compacted.
3. APPLY SOIL TREATMENTS in strict compliance w/ manuf recommended dosages and application instructions. Apply to compacted, dry subbase.

FIELD QUALITY CONTROL:
1. TESTING AGENCY SERVICES: Allow testing agency to inspect and test ea subgrade and ea fill or backfill layer, Do not proceed until test results for previously completed work verify compliance w/ reqs.
2. PERFORM FIELD IN-PLACE DENSITY TESTS according to ASTM D 1556, ASTM D 2167, or ASTM D 2937 as applicable. Field in-place density tests may also be performed by the nuclear method according to ASTM D 2922, provided that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D 1556. With ea density calibration check, check the calibration curves furnished w/ the moisture ga according to ASTM D 3017. FTG SUBGRADE: At ftg subgrades, perform at least 1 test of ea soil stratum to verify design bearing capacities. Subsequent verification & approval of other ftg subgrades may be based on a visual comparison of ea subgrade w/ related tested strata when acceptable to the testing lab.
1. PAVED & BLDG SLAB AREAS: At subgrade and at ea compacted fill and backfill layer, perform at least 1 field in-place density test for every 2000 SF or less of paved area or bldg slab, but in no case fewer than 3 tests.
2. FDN WALL BACKFILL: In ea compacted backfill layer, perform at least 1 field in-place density test for ea 100' or less of wall length, but no fewer than 2 tests along a wall face.
3. TRENCH BACKFILL: In ea compacted initial and final backfill layer, perform at least 1 field in-place density test for ea 150' or less of trench, but no fewer than 2 tests.
4. SCARIFY, MOISTEN OR AERATE OR REMOVE & REPLACE SOIL to the depth reqd, recompact and retest until reqd density is obtained, if testing agency reports subgrades, fills or backfills are below specified density.

PROTECTION:
1. PROTECT NEWLY GRADED AREAS from traffic, freezing and erosion.
2. REPAIR & RE-ESTABLISH GRADES to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled or lose compaction due to subsequent const operations or weather conditions. Scarify or remove & replace material to depth directed by the architect; reshape and recompact at optimum moisture content to the reqd density.
3. WHERE SETTLING OCCURS during the project correction period, remove fin surfacing, backfill w/ additional approved material, compact and reconst surfacing.
4. RESTORE APPEARANCE, QUALITY & CONDITION of fin surfacing to match adjacent work and eliminate evidence of restoration to the greatest extent possible.
5. DISPOSE OF SURPLUS SOIL & WASTE MATERIALS including unsatisfactory soil, trash and debris and legally dispose of it off the owner's property.

DIVISION 33: UTILITIES
SECTION 33 46 00 – STORMWATER MANAGEMENT
WORK INCLUDED
1. Provide underground fdn drainage sys, as shown on the dwgs, as specified herein and as needed to meet the reqs of the const shown in the CDs. The work of this section includes, but is not limited to the following: Rigid PVC fdn drains and cleanouts set in drainage fill, enclosed w/in filter-fabric wrap.

PRODUCTS:
1. DRAINAGE MAT WITH FILTER FABRIC
2. TYP FDN DRAINAGE PIPE & FITTINGS: Polyvinyl Chloride pipe, meeting ASTM D 2729, complete w/ bends, reducers, adapters, couplings, collars and jt materials, perforated typ or non-perforated as reqd.
3. SOLID DRAINAGE PIPE & FITTINGS (Provide when sub-drainage sys extends under ftgs, typ): Heavy-Duty DWV-Type Polyvinyl Chloride pipe, meeting ASTM D 2665, complete w/ bends, reducers, adapters, couplings, collars and jt materials as reqd.
4. FILTER FABRIC: Rot resistant fabric designed for drainage trench install. Acceptable products include, but are not limited to the following: "Soil chek" by Brighton By Products Co. Inc., "Mirafi 140N" by Mirafi, Inc.

SOIL MATERIALS:
1. IMPERVIOUS FILL: Clayey gravel & sand mixture capable of compacting to dense composite.
2. DRAINAGE FILL: Evenly graded mixture of washed, clean, natural or crushed gravel or crushed stone w/ 100% passing a 2" sieve and w/ zero to 2% passing a No. 50 sieve.
3. GRANULAR FILL: Evenly graded mixture of natural or crushed gravel or crushed stone, w/ 100% passing a 1-1/2" sieve and w/ zero to 5% passing a No. 50 sieve.

INSTALL OF SUBDRAINAGE SYS:
1. INSTALL OF GRANULAR FILL SUBBASE: At ftgs, after conc has cured and waterproofing is completely installed w/ protection course in place, place a min 6x30"-w supporting layer of granular fill adjacent to the ftgs; sloping no less than 1/8"/ft in the direction of the subdrainage sys flow.
2. PLACE FILTER FABRIC over the granular fill, lapping all jts by 6" min.
3. PLACE DRAINAGE FILL over the filter fabric, in a min 6" thickness and compact.
4. LAY PERFORATED DRAIN PIPE solidly bedded w/in the drainage fill, at all fdn walls, UNO, w/ perforations oriented down & w/ jt tightly closed w/ collars and couplings in accordance w/ pipe manuf recommendations for install. Install piping w/ full bearing for ea pipe section throughout its length, to true grades and alignment and as reqd to provide a cont, positive slope to drain.
5. TEST DRAIN LINES to assure free flow and positive drainage of the sys. Remove obstructions, replace damaged components and retest the sys until a satisfactory install is achieved.
6. FILL AROUND & OVER DRAIN LINES after satisfactory testing, covering lines w/ a min of 6" of drainage fill on top and on both sides to the filter fabric.
7. FULLY WRAP FILTER FABRIC around the drainage fill surrounding the sub-drain lines, lapping a min of 6" at all jts or laps, so fines are completely excluded from the installed sys.
8. DRAINAGE FILL CAP: Place a 6" thick course of drainage fill over the filter fabric wrap and extend up to w/in 2" of the fin grade. Place drainage fill in layers not exceeding 6" in loose depth and compact ea layer placed.

END OF ARCH SPECS

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.2552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@dearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@reed-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2025

PROJ. A_2406

Issued For	Date	#
100% CONSTRUCTION DOCUMENTS	01.16.2026	0

ARCHITECTURAL SPECIFICATIONS

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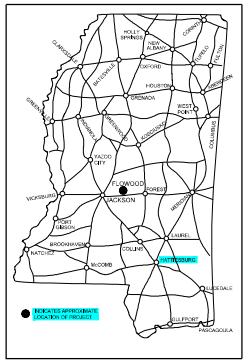
USM WESLEY FOUNDATION
MIXED USE BUILDING
3200 MONTAGUE BLVD

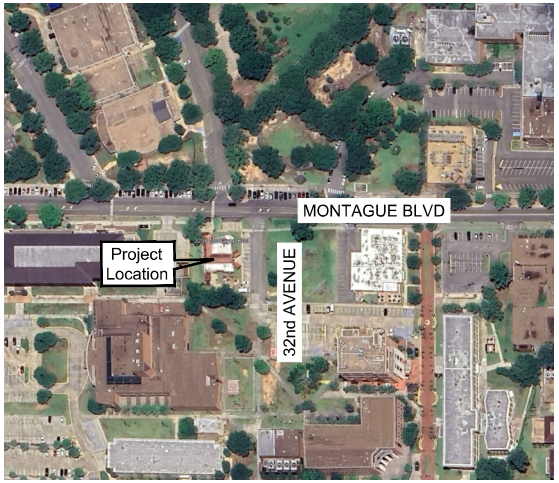
For

Vertikal Collaboration
Hattiesburg, MS

January 16, 2026



LOCATION MAP



VICINITY MAP

NOT TO SCALE

DRAWING INDEX	
Sheet No.	Description
C1.0	Title Sheet
C1.1	Notes, Legend, and Abbreviations
C2.1	Erosion Control Plan
C2.2	Site Plan
C2.3	Grading and Drainage Plan
C2.4	Utility Plan
C3.1	Erosion Control Details
C3.2	Site Details
C3.3	Water Details
C3.4	Sewer Details
C3.5	Storm Details

SHELBY D. MURRAY
ENGINEER
PE-15155
1-16-26
STATE OF MISSISSIPPI

811

Utility Notes:

- The location of utilities are approximate only. Excavation near utilities shown should be done with caution. The Mississippi One-Call Network (1-800-227-6477) should be notified prior to commencing with excavation activities.
- Additional underground utilities may exist. Lacking excavation, however, the exact location of underground utilities cannot be accurately, completely, and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary.

REVISIONS			
NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1551 Jackson Road | Hattiesburg, MS 39402
t:601.261.2000 | clearpointengineers.com

Title Sheet

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C1.0

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 11-7-25

Drawing Location: C:\Users\smurray\Desktop\Clearpoint\92952001-Wesley Hattiesburg\DWG\92952001-C1.dwg

GENERAL NOTES:

1. The location of utilities shown is based on field surveys of utility markings and/or information provided by utility company personnel. Their location should be considered as approximate only, and other utilities may exist that are not shown on these drawings. Excavation near utilities shown should be done with caution. Prior to construction operations, the Contractor shall verify the location of existing utilities on the project site, and at the Contractor's expense, shall promptly repair those which are damaged by his construction operations. The Mississippi One-Call Network (1-800-227-5477) should be notified prior to commencing with excavation activities.

2. Specifications for all materials and construction methods for street, driveway, or parking lot construction shall conform to the applicable provisions of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, Latest Edition.

3. The Contractor must have written approval from the City Engineer and/or Project Engineer of record before any change in the design is made.

4. All requirements specified in the technical specifications, the Storm Water Pollution Prevention Plan (SWPPP), all MDOT permit(s), and the geotechnical report shall be considered to be included within the Contractor's scope of work for the project, and the Contractor shall be responsible for full compliance therein.

5. The Contractor shall warrant all materials and labor for a period of one (1) year for all work performed by the Contractor and Sub-contractor(s).

6. Contractor shall provide a minimum 24 hour notice to the engineer prior to commencing any construction operations, sampling, or testing.

7. Contractor shall provide all necessary fittings and appurtenances necessary for complete installation of all items whether specifically indicated or not.

8. Any local, state, or federal permitting required for construction shall be the responsibility of the Contractor to obtain.

9. CONSTRUCTION SAFETY IS A PROJECT REQUIREMENT. The Contractor shall be responsible for providing safety equipment and/or methods necessary for the safe prosecution of the work by his personnel and the personnel of any Sub-contractors, as well as providing safe access and site conditions to all elements of the project for the Owner, Engineer and their representatives. Such safety requirement shall meet OSHA guidelines.

10. The Contractor shall assign a competent, experienced, and employed superintendent to be on site at all times during all phases of construction. Work on the project site shall cease if the superintendent is not on site for an extended period of time.

11. It is the responsibility of the Contractor to protect existing structures and utilities that are to remain such as pipes, inlets, paved ditches, gas pipelines, water mains, sewer mains, underground power/fiber, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the Contract. No payment to Contractor will be made for replacement or repair of damaged items.

12. All existing signs, fences, mailboxes, and other incidental structures located with the project construction limits shall be temporarily removed and reestablished as required by construction activities. Any damaged items shall be replaced at the Contractor's expense.

13. To prevent damage to adjacent properties, Contractor shall properly establish the property boundaries of the subject property site prior to any construction activities within the subject property. The Contractor shall not enter upon or cause damage to adjacent properties without written permission from adjacent property owner(s).

14. Contractor shall seed, fertilize, and mulch all areas (not proposed as paved or under roof) disturbed by construction activities and insure a complete stand of grass. Apply per seasonal limitations.

15. The Contractor shall be responsible for completing all sampling and testing of materials incorporated into the project and for submission of same to the Engineer for review. All phases of testing, including but not limited to sampling, transporting, and testing of materials, must be performed by a certified testing laboratory. Prior use test results, manufacturer's certificates, or proposed mix designs shall be submitted to the Engineer for review before incorporation into the project. This shall include embankment, back fill, seed, and all other items specified by the Engineer. Quality control/testing shall be the responsibility of the Contractor.

16. Construction staking shall be provided by the Contractor.

17. Contractor shall provide proper traffic control (signs, barricades, flagmen, etc.) when working within highway or county right-of-way. Appropriate personnel shall be notified at least 48 hours prior to commencing any construction operations within highway right-of-way. All traffic control materials and procedures shall be in full compliance with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD). Contractor shall also ensure that access to existing residences and businesses is maintained during all phases of construction, and shall be responsible for all related coordination.

18. Material submittals shall be made to the Owner through the Engineer prior to use, for approval. All materials shall be new; used materials shall not be installed.

19. The Contractor is required to remove all spoil material on a daily basis.

20. The Contractor is responsible for coordinating with existing residences or businesses regarding temporary interruption of access and/or utility service, if required, and shall sequence construction operations as necessary to ensure that said interruption of access and/or utility service is kept to a minimum.

21. The Contractor is responsible for coordinating with the power company regarding establishment of temporary and permanent power, and shall include all required connection and meter fees in their bid.

22. No construction activities shall commence until all approvals and permits have been obtained from governing authorities, including but not limited to those required by the City, County, MS Department of Health, MS Department of Environmental Quality, Mississippi Department of Transportation (MDOT), Corps of Engineers, Utility Associations). Any work performed prior to obtaining said permits and approvals shall occur at the risk of the Contractor and/or Owner.

23. Contractor shall provide minimum 48 hours to M.D.O.T. personnel prior to performing any working within highway right-of-way. Contractor shall keep a copy of the MDOT permit on site at all times (if required).

24. All costs associated with dewatering (if required) shall be absorbed by the Contractor. Contractor shall employ dewatering methods as required for complete installation of storm drainage and utilities. Prior to bid, it is the Contractor's responsibility to consult the geotechnical report and make site visits necessary in order to determine costs required for dewatering effort.

25. At project completion, the Contractor shall provide as-built "markup" drawings to the Engineer, based on field measurements, that accurately show the location of all subsurface utility and drainage improvements (i.e. roof drain/downspout collection, water mains/service lines, sewer service lines, sewer force mains, irrigation, power, communication, gas, etc.).

26. Existing conditions and topography shown on these construction drawings are representative of conditions on October 17, 2023, and may not be representative of existing conditions as of the date of these drawings. Prior to execution of a contract, the Contractor is responsible for visiting the site to determine the scope of work.

27. Prior to construction layout of proposed building(s), the architectural drawings shall be used to verify the building dimensions shown on civil drawings. Should discrepancies exist between architectural drawings and civil drawings, then architectural drawings shall control.

SEWER NOTES:

1. Construction and materials for sanitary sewer improvements shall conform to the specifications of the Mississippi Department of Environmental Quality and the local sewer service provider.

2. All sanitary sewer mains and services shall be PVC SDR-26. Sewer services shall be 6" in diameter, and shall be installed on a minimum 1% slope.

3. Bedding material shall be required beneath all sanitary sewer mains, and beneath all sanitary sewer services located under roadways and paved areas. Bedding material shall be a gravel-sand mixture, all of which passes a 1 1/2 inch sieve, not more than 30 percent of which passes a No. 4 sieve, and not more than 5 percent of which passes a No. 200 sieve.

4. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill sewer pipe trenches.

5. A manhole drop connection is required if the vertical distance between an influent sanitary sewer main or service and the bottom of the manhole exceeds two feet.

6. Sewer mains and services must be buried a minimum of 36" below finished grade.

7. Locator wire (14 gage copper) shall be placed along and attached to all new sewer mains.

8. The Contractor shall verify location, size, and invert elevation of existing sewer mains and/or manholes prior to commencing connection operations. The Contractor shall coordinate with the Engineer regarding any necessary adjustments to new sewer lines as necessary to allow for proper connection and installation.

9. Contractor shall refer to mechanical / plumbing drawings to verify locations and sizes of sewer services prior to installation. Adjustments to sewer service location(s) and invert elevation(s), and grease trap locations (if required) shown on these drawings shall be made as necessary through coordination with the Project Engineer. For sewer services, the scope of these drawings terminates at a location five feet (5') outside of the exterior building wall. Refer to mechanical / plumbing drawings for continuation into the building.

10. The Contractor is responsible for coordinating with the utility service provider prior to connecting to existing sewer or relocation of existing sewer (if required). The Contractor is responsible for ensuring that utility service personnel are present during critical phases of installation (i.e. connection, relocation, testing, etc.). Cost of connection fees shall be responsibility of the Contractor.

11. Prior to being placed into service, all new sewer mains must be tested according to the specifications.

12. The Contractor shall be responsible for providing minimum 48 hours notice to the sewer service provider during critical phases of sewer installation (i.e. connections, relocations, pressure tests, etc.) to allow opportunity for on-site observation.

GRADING AND DRAINAGE NOTES:

1. All available topsoil within the construction limits shall be stripped, stockpiled in a designated area to be approved by the Engineer, and replaced on slopes or as directed by the Engineer. Upon completion of grading, the Contractor shall place a sufficient quantity of topsoil (4" minimum) to insure grass growth on the designated area. Topsoil shall be used to achieve final grades on roadway slopes and on slopes outside of paving limits. Any excess topsoil shall remain stockpiled for future use by the Owner.

2. Finished contours are intended to show a general representation of drainage patterns and slopes after paving, grading, replacement of topsoil, and/or placement of sod. Regardless of the level of grading detail shown on these drawings, Contractor shall take whatever steps necessary to ensure that positive drainage occurs on all areas of project site, specifically away from buildings. Prior to final grading, Contractor shall make allowances for placement of sod and landscape beds to ensure final design grades are achieved and that these areas are free of debris. Contractor shall coordinate with landscaping personnel to ensure that landscape beds are placed sufficiently below building finished floor elevations and that they do not trap water against buildings. Where roof drains are discharged onto the surface, Contractor shall extend downspouts along finished grade beyond landscape areas as needed for free discharge.

3. At the expense of the Contractor, the Contractor shall maintain existing drainage patterns and construct temporary structures, embankments, and culverts as required to maintain the drainage system and capacity in the work area. Any and all temporary structures, embankments, and culverts constructed during the progress of work shall be removed and the area restored to its original condition.

4. The Contractor shall furnish, place, and maintain all sheeting, shoring, and bracing required to support the sides of the required trench excavations. The Contractor shall be responsible for the sufficiency of any such supports to prevent any movement which can in any way damage or delay the work; endanger or cause damage to adjacent pavements, buildings, or other structures; or create undue hazards to workmen.

5. Existing ground elevations are a general representation of existing ground topography prior to demolition operations.

6. In cases where adjacent grades are higher than the building finished floor elevations, then Contractor shall coordinate with the architect regarding special design accommodations and waterproofing.

7. Contractor shall notify Engineer of any conflicts between civil drawings and architectural drawings regarding proposed grading at doorways and entrances.

8. Spot elevations shown adjacent to curb and gutter and/or adjacent to sidewalk are referenced to edge of pavement. Where shown along edge of sidewalks, add 6" for adjacent top of sidewalk elevation.

9. A.D.A. REQUIREMENTS:
- For handicap spaces and aisles, finished grade slopes shall not exceed 1.5% in any direction.
- Longitudinal slopes along sidewalks and handicap accessible routes shall not exceed 4.5%.
- Transverse slopes across sidewalks and handicap accessible routes shall not exceed 1.5%.

10. A geotechnical report for the project has been prepared by W GEOTECHNICAL AND TESTING, INC. DATED MAY 15, 2024. Refer to said report for a description of in-situ soils and all phases of site preparation and testing requirements. It is highly recommended that a representative of Terracon Consultants be present during earthwork operations to ensure the buffer requirements are met and to ensure proper compaction of backfill. If any discrepancies are found between previously mentioned GEOTECHNICAL REPORT and construction plans, the geotechnical report shall govern.

11. Structural design of retaining walls, including backfill and drainage requirements, is not included within the scope of these construction drawings. Structural design of retaining walls shall be provided by the Contractor, and the Contractor is responsible for coordinating with the Owner and Landscape Architect regarding colors, block styles, etc.. Retaining wall design shall be performed by a Professional Engineer registered in the State of Mississippi.

12. See sheet C3.5 for bedding requirements for High Performance (HP) storm drainage pipe.

13. With the exception of curb inlet tops, drainage structures may be pre-cast or cast-in-place. Brick or block inlets are not allowed. Curb inlet or grate inlet tops shall conform to the longitudinal top of curb grade and must be cast-in-place. Precast curb inlet tops are not permitted. For curb inlets on longitudinal grade, precast tops are not permitted. Curb inlet top elevations shown are referenced to the top of curb elevation at the center of the curb inlet box. Where located adjacent to curb and gutter, grate inlet tops shall be set equal to flowline elevation of gutter.

14. All sizes of flared end sections may be furnished with either bell and spigot or tongue and groove joints.

15. The Contractor shall verify location, size, and invert elevation of existing storm drainage pipes, structures, and ditches prior to commencing connection operations. The Contractor shall provide necessary adjustments to new storm drainage lines as necessary to allow for connection and installation.

16. Any accumulated sediment inside new or existing storm drain lines within project construction limits shall be flushed prior to completion of project.

17. No slopes shall be constructed steeper than 3:1, unless specifically noted on drawings.

18. Prior to placement of fill and sub-base course, areas which are at final subgrade or are to receive fill should be proof-rolled with a loaded tandem axle truck to demonstrate stability.

19. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill storm drainage trenches.

20. The Contractor is responsible for field-verifying existing invert elevations or existing ground elevations prior to connecting to existing drainage structures, existing drainage pipes, or existing ground.

WATER NOTES:

1. Construction and materials for the water distribution system shall conform to the specifications of the Mississippi Department of Health and the local water service provider.

2. Water mains and services shall be installed at least 10 feet horizontally and 18 inches vertically from any sewer main or service or sewer manhole. The bottom of the water pipe shall be at least 18 inches from the top of the sewer pipe. Water mains/services shall always be constructed above sewer mains/services. Where local conditions prevent adequate horizontal and vertical separation, the Bureau of Water Supply may allow the water main/service to be laid closer to the sewer main/service if supported by adequate design data from the design engineer. Each situation will be reviewed by the Bureau of Water Supply on a case by case basis. A detailed drawing shall be included in the plans for water line construction submitted to the Bureau of Water Supply for review and approval. Where adequate horizontal and/or vertical separation cannot be maintained, the following requirements shall apply:

- If the 10 foot horizontal separation between water and sewer pipes cannot be maintained then the water pipe should be ductile iron with the water pipe joints located at the maximum distance possible from sewer pipe joints. PVC pipe may be used if it is protected by steel casing. Also, the water and sewer pipes must be in separate trenches with adequate space for maintenance. In some cases, special sewer pipe construction procedures may be required.
- Where the 10 foot horizontal and 18 inch vertical separation cannot be maintained, condition 1 above must be met and the sewer pipe shall be constructed according to water main standards.
- NOTE: Where water pipes cross sewer pipes, the above requirements will be waived if pipe segments are centered to provide a maximum spacing of the joints of both water and sewer pipes and a vertical separation of at least 18 inches (water over sewer) is maintained.

3. Location and size of existing water mains are based on information provided by others and by MS One-Call. The Contractor shall verify location and size of existing water mains prior to commencing boring or connection operations, and shall provide necessary adjustments to both new and existing water lines to allow for connection and installation.

4. Contractor shall refer to mechanical / plumbing drawings to verify locations and sizes of fire and domestic services prior to installation. Adjustments to fire services; domestic services and post indicator valves; and remote fire department connections shown on these drawings shall be made as necessary through coordination with the Project Engineer. For domestic and fire services, the scope of these drawings terminates at a location five feet (5') outside of the exterior building wall. Refer to mechanical / plumbing drawings for continuation into the building.

5. Water mains and services must be buried a minimum of 36" below finished grade.

6. All water pipe shall be PVC C-900, Class 235 (DR 18) pipe, and all service pipe shall be C.T.S. tubing. All fittings shall be ductile iron mechanical joint (MJ) fittings. Concrete thrust blocking and Megalug fittings are required at all bends and tees. All water mains and services located under roadways shall be encased in Schedule 40 PVC casing.

7. All items shown on water lines (i.e. hydrants, valves, fittings) are shown in general locations only and may be slightly adjusted in the field as warranted by installation requirements. Where possible, valves and hydrants are to be installed in unpaved locations.

8. Locator wire (12 gage copper) shall be placed along and attached to all new water mains. Tracer wire to be a minimum of 3 feet in all valve boxes.

9. A ductile iron cap is required at the end of all water mains.

10. Backflow prevention measures for fire services are to be installed within the buildings (see architectural / mechanical drawings).

11. The Contractor is responsible for coordinating with the utility service provider prior to connecting to existing water or relocation of existing water (if required). The Contractor is responsible for ensuring that utility service personnel are present during critical phases of installation (i.e. connection, relocation, testing, etc.). Cost of connection fees and meters shall be responsibility of the Contractor.

12. Prior to being placed into service, all new water mains must be pressure tested and disinfected according to the specifications. A pressure test shall be conducted using a minimum of 150 psi or 1.5 times the working pressure, whichever greater, for two (2) hours under the inspection of an Engineer's representative. Using samples obtained by the water service provider 24 hours apart, two (2) consecutive bacteriological tests are required to be determined as satisfactory by a laboratory certified by the Mississippi State Department of Health.

13. Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill water pipe trenches.

ABBREVIATIONS

AC	ACRES	F.G.	FINISHED GROUND	PM	PLAN MEASURE
AEA	AVERAGE END AREA	FL	FLOW LINE	PMH	PROPOSED MANHOLE
AH	ABSORBED HAUL	FM	FINAL MEASURE	POB	POINT OF BEGINNING
APR	AS PER RECORD	FME	FINAL MEASURE EMBANKMENT	POC	POINT OF COMMENCEMENT
APS	AS PER SURVEY	GA	GAUGE	PRC	POINT OF REVERSE CURVATURE
BC-1	BRANCH CONNECTION	GP	GROUP	PROP.	PROPOSED
C.B.	CHORD BEARING	H.D.	HEAVY DUTY	PT	POINT OF TANGENCY
C.L.	CHORD LENGTH	HP	HIGH POINT	R	CURVE RADIUS
CL	CLASS	HYD	HYDRANT	R.D.	ROOF DRAIN
CMP	CORRUGATED METAL PIPE	INV.	INVERT	R.O.W.	RIGHT-OF-WAY
CONT.	CONTINUOUS	IPF	IRON PIN FOUND	RCAP	REINFORCED CONCRETE ARCH PIPE
CP	CONTROL POINT	IPS	IRON PIN SET	RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE	L	CURVE LENGTH	REQD	REQUIRED
CY	CUBIC YARDS	LB	POUNDS	RT	RIGHT
DS	DOWNSTREAM	LF	LINEAR FEET	SF	SQUARE FOOT
E=	EASTING	LP	LOW POINT	STA.	STATION
E.W.	EACH WAY	LS	LUMP SUM	SY	SQUARE YARD
EA.	EACH	LT	LEFT	TEMP.	TEMPORARY
E.G.	EXISTING GROUND	MPF	METAL PIPE FOUND	T.O.C.	TOP OF CURB
ELEV.	ELEVATION	N=	NORTHING	TYP.	TYPICAL
EMH	EXISTING MANHOLE	O.A.	ON CENTER	U.G.	UNDERGROUND
EX.	EXISTING	OS	OFFSET	US	UPSTREAM
F.B.	FLAT BOTTOM	PC	POINT OF CURVATURE	V.C.	VERTICAL CURVE
FCM	FOUND CONCRETE MARKER	PC-1	PIPE COLLAR	VF	VERTICAL FOOT
FES	FLARED END SECTION	PKF	PINE KNOT FOUND	WV	WATER VALVE

LEGEND

- TEMPORARY STRAW WATTLES
- PROP. REMOTE FIRE DEPT. CONNECTION
- PROP. FIRE HYDRANT WITH VALVE
- PROP. GATE VALVE
- EX. FIRE HYDRANT
- EX. GATE VALVE
- EX. WATER METER
- PROP. PUMP STATION & VALVE PIT
- PROP. SEWER MANHOLE
- PROP. SEWER CLEAN-OUT
- PROP. GREASE TRAP
- PROP. DOMESTIC WATER SERVICE
- PROP. FIRE PROTECTION SERVICE
- PROP. SEWER SERVICE
- EX. PUMP STATION WITH VALVE PIT
- EX. SEWER MANHOLE
- EX. SEWER CLEAN-OUT
- PROP. LIGHT POLE
- EX. LIGHT POLE
- EX. UTILITY POLE
- EX. GUY WIRE
- EX. POWER TRANSFORMER
- PROP. HEAVY-DUTY GRATE INLET
- PROP. LIGHT-DUTY YARD INLET
- PROP. JUNCTION BOX
- PROP. CURB INLET WITH EXTENSION
- EX. HEAVY-DUTY GRATE INLET
- EX. LIGHT-DUTY YARD INLET
- EX. JUNCTION BOX
- EX. CURB INLET WITH EXTENSION
- 260.40 FINISHED GRADE SPOT ELEVATION
- DIRECTION OF SURFACE FLOW
- HORIZONTAL/VERTICAL CONTROL POINT
- BURIED FIBER OPTIC MARKER
- BENCHMARK
- HANDICAP
- STORM AND SEWER FLOW DIRECTION
- ROADWAY SIGN
- BORE HOLE
- CONCRETE RIGHT-OF-WAY MARKER
- PROPERTY CORNER
- HVAC UNIT
- FLAG POLE
- WHEEL STOP

- SUBJECT PROPERTY BOUNDARY
- EX. RIGHT-OF-WAY OR EASEMENT
- PROP. RIGHT-OF-WAY OR EASEMENT
- PUBLIC LAND SYSTEM (40/SECTION) LINES
- PROP. CENTERLINE
- PROP. TEMPORARY SILT FENCE
- CENTERLINE OF DITCH OR SWALE
- 285 PROP. CONTOUR
- 285 EX. MAJOR TOPOGRAPHIC CONTOUR
- 284 EX. MINOR TOPOGRAPHIC CONTOUR
- PROP. SETBACKS
- PROP. CONSTRUCTION LIMITS
- RAILROAD TRACKS
- WOOD FENCE
- EX. CHAIN LINK FENCE
- EX. BARBED-WIRE FENCE
- EX. TREE LINE
- EX, EDGE OF PAVEMENT
- EX. 100 YEAR FLOODPLAIN BOUNDARY (PLOTTED FROM FIRM)
- PROP. ROADWAY DAYLIGHT LINE
- PROP. STORM DRAINAGE PIPE WITH F.E.S.
- EX. STORM DRAINAGE PIPE WITH F.E.S.
- PROP. WATER LINE (WITH SIZE)
- PROP. GRAVITY SEWER MAIN (WITH SIZE)
- 4"FM PROP. FORCE MAIN (WITH SIZE)
- EX. WATER MAIN (WITH SIZE)
- EX. GRAVITY SEWER MAIN (WITH SIZE)
- EX. SEWER FORCE FORCE MAIN (WITH SIZE)
- EX. GAS LINE (WITH SIZE)
- EX. HIGH PRESSURE GAS LINE
- EX. OVERHEAD POWER LINE
- EX. UNDERGROUND POWER LINE
- EX. OVERHEAD TELEPHONE
- EX. UNDERGROUND TELEPHONE LINE
- EX. UNDERGROUND FIBER OPTIC LINE
- EX. BURIED CABLE (UNKNOWN)
- PROP. IRRIGATION SLEEVE
- HEAVY DUTY PAVEMENT
- LANDSCAPED SURFACE
- CONCRETE SURFACE
- RIP-RAP SURFACE
- FLEXAMAT SURFACE

REVISIONS			
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CLEARPOINT ENGINEERS
1001 Jackson Road | Hattiesburg, MS 39402
t 601.261.2666 | clearpointengineers.com

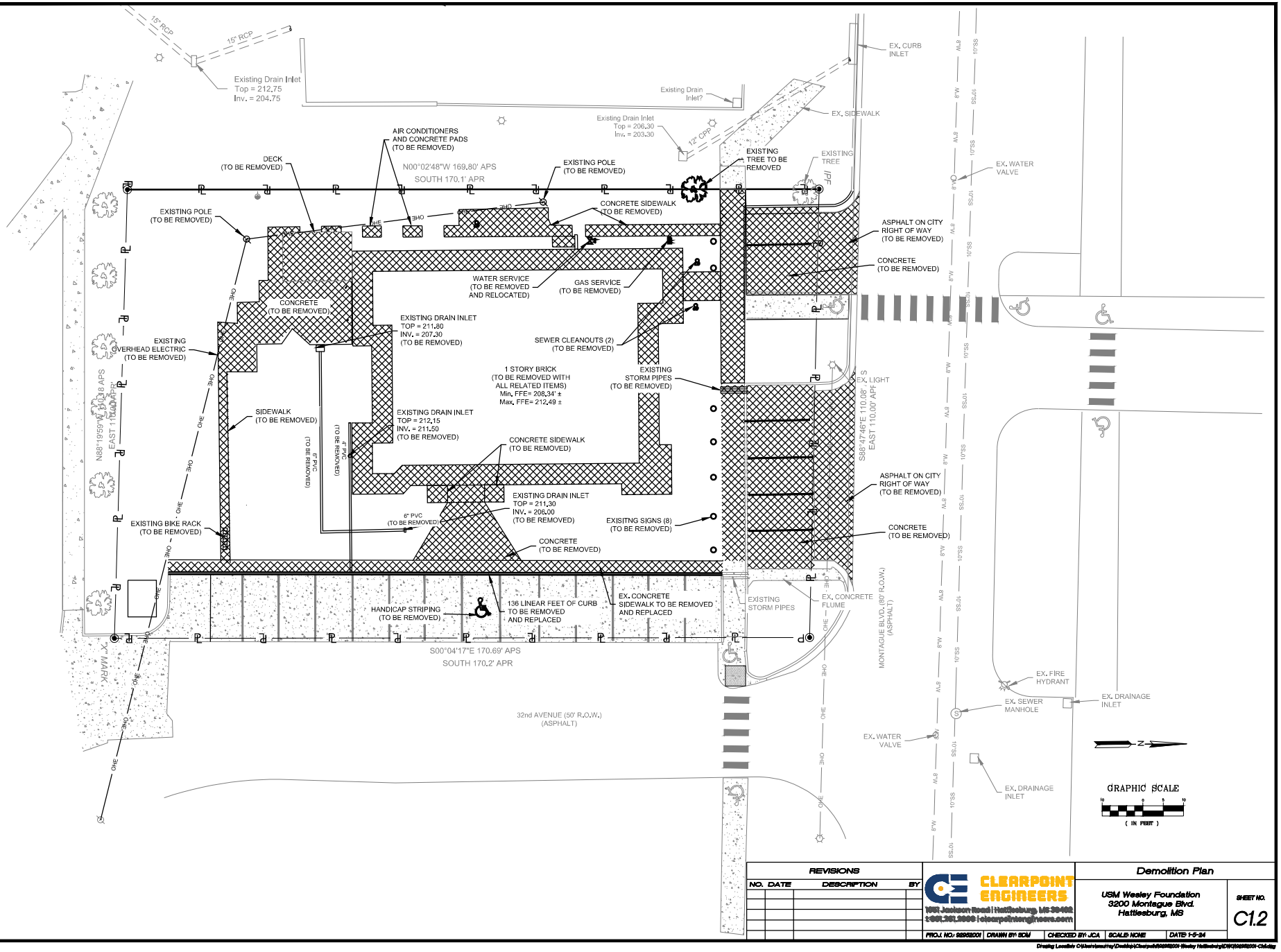
PROJ. NO: 2023200 | DRAWN BY: SCM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Notes, Legend, and Abbreviations

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C1.1

Drawing Location: C:\Users\smurray1\Desktop\Clearpoint\2023200 Wesley Hattiesburg\DWG\2023200-CM.dwg



REVISIONS			
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CLEARPOINT ENGINEERS
1901 Jackson Road | Hattiesburg, MS 39402
t:601.261.5666 | clearpointengineers.com

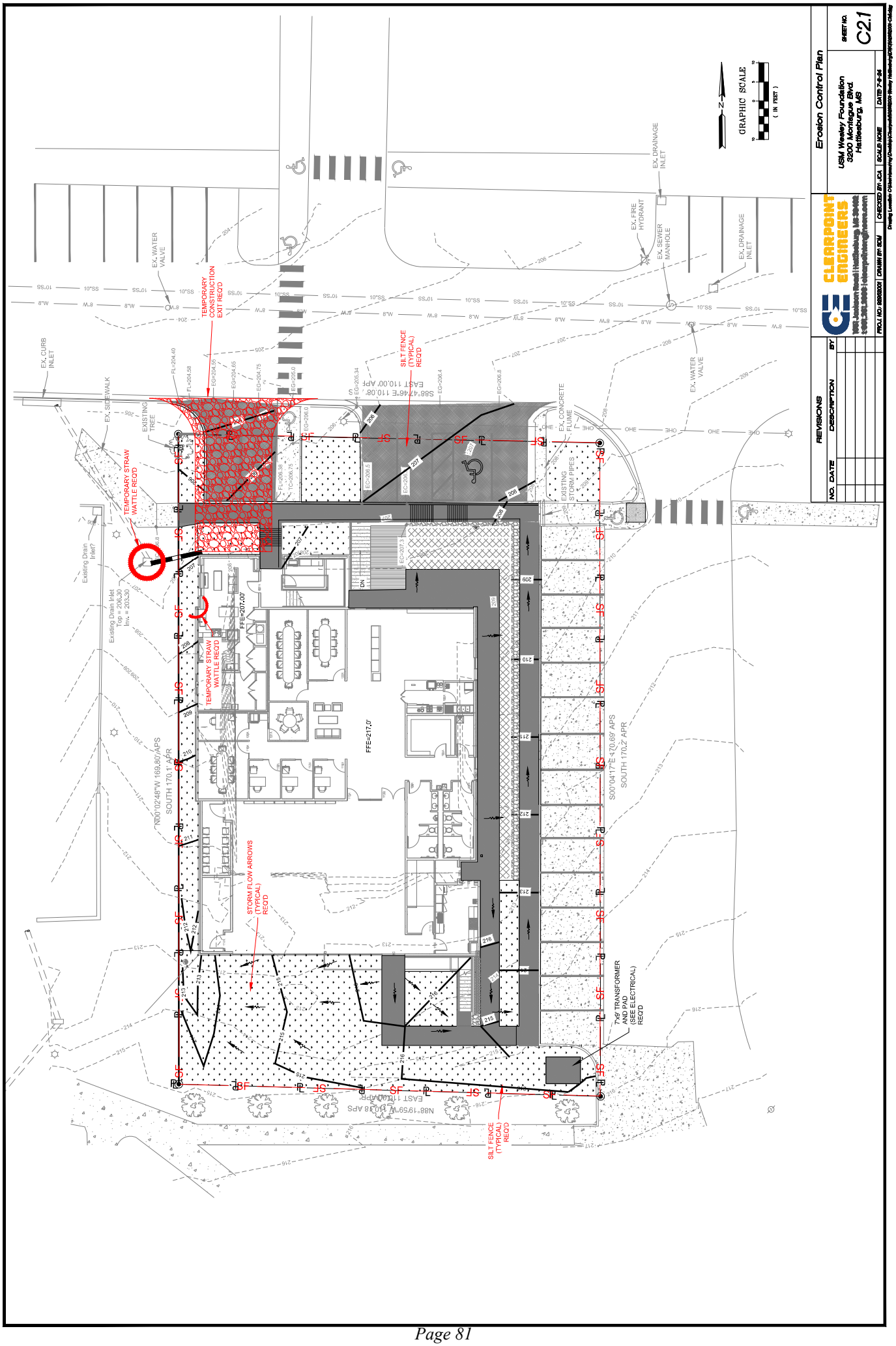
Demolition Plan

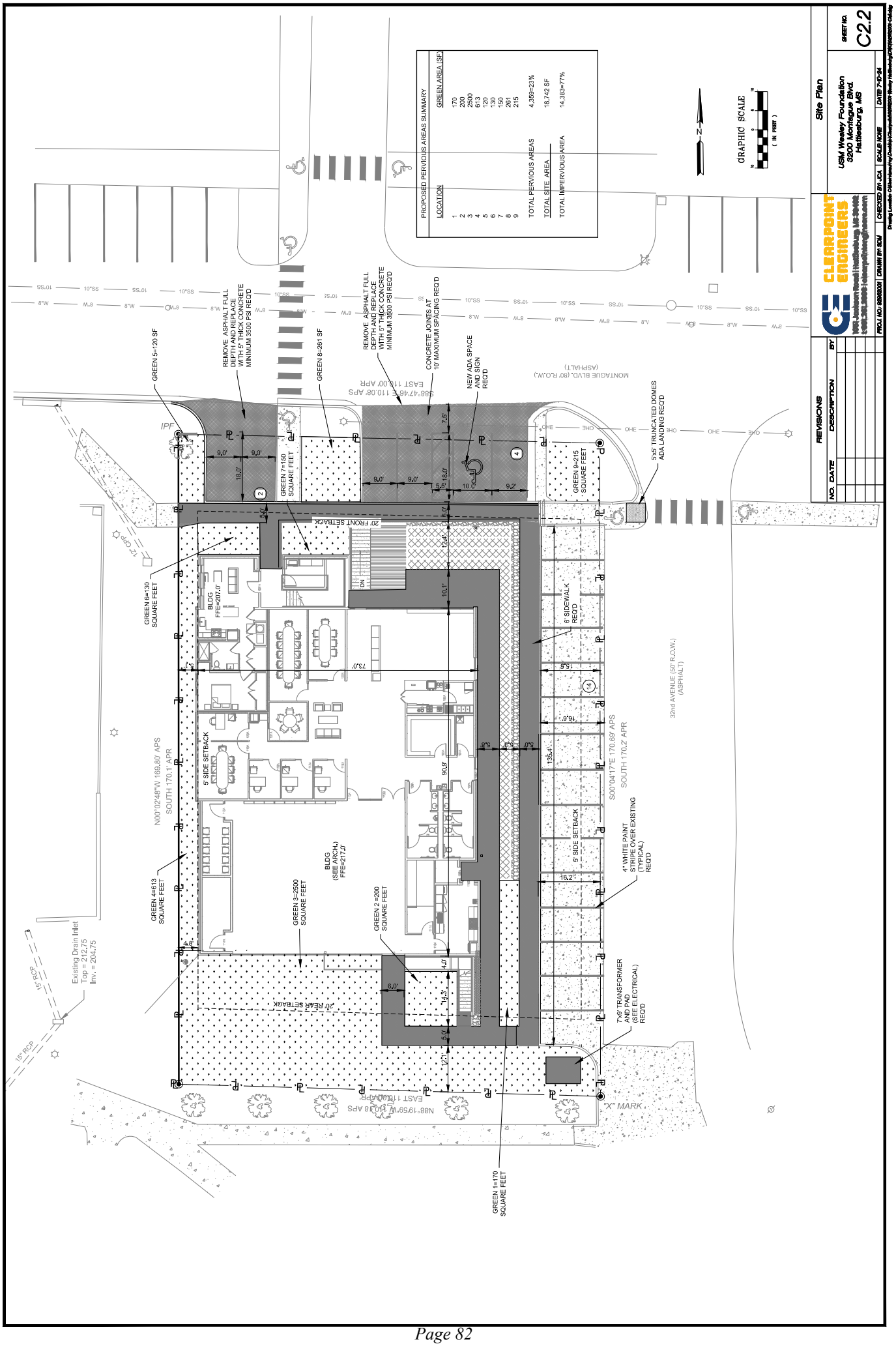
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

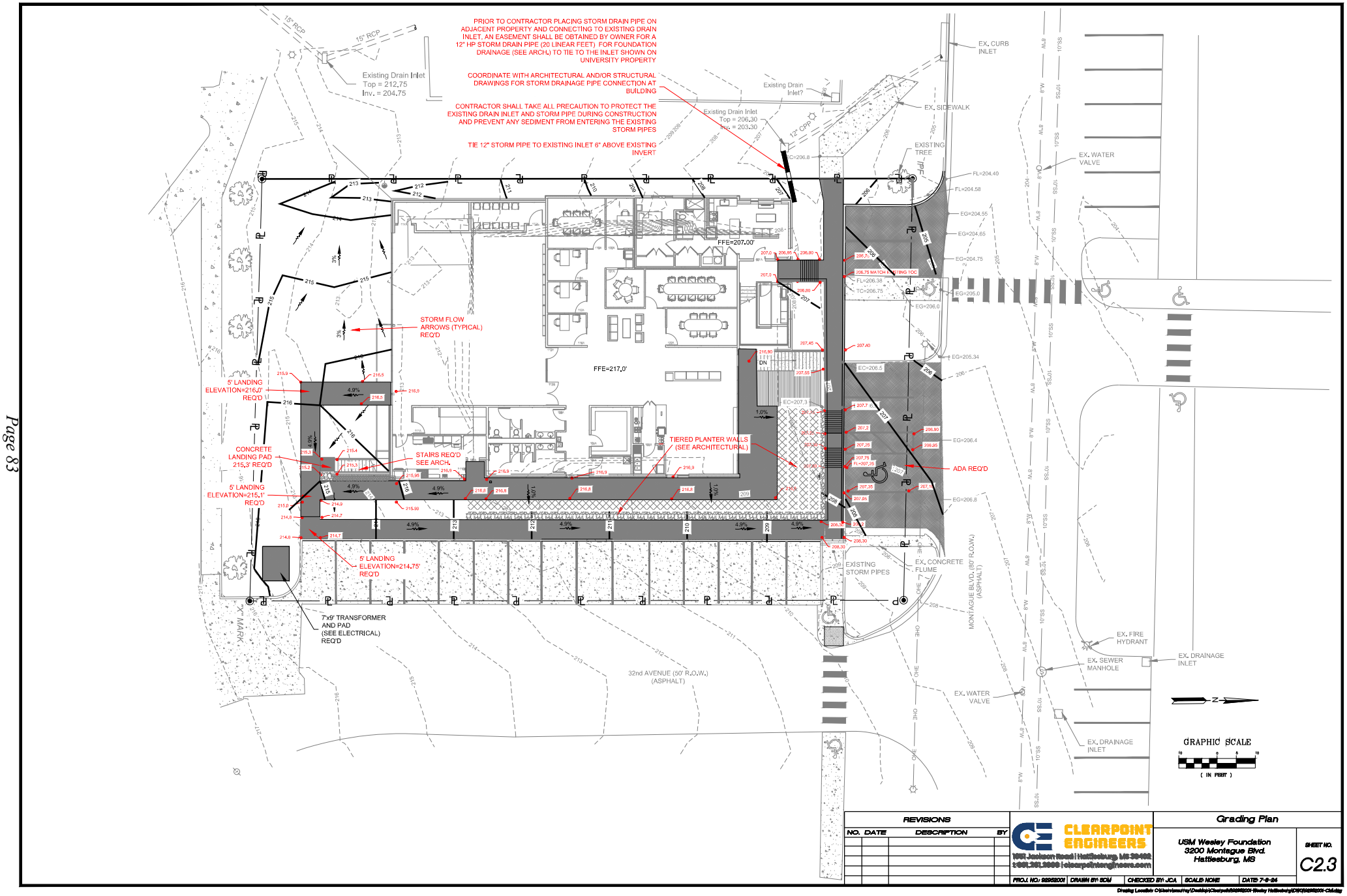
SHEET NO. C1.2

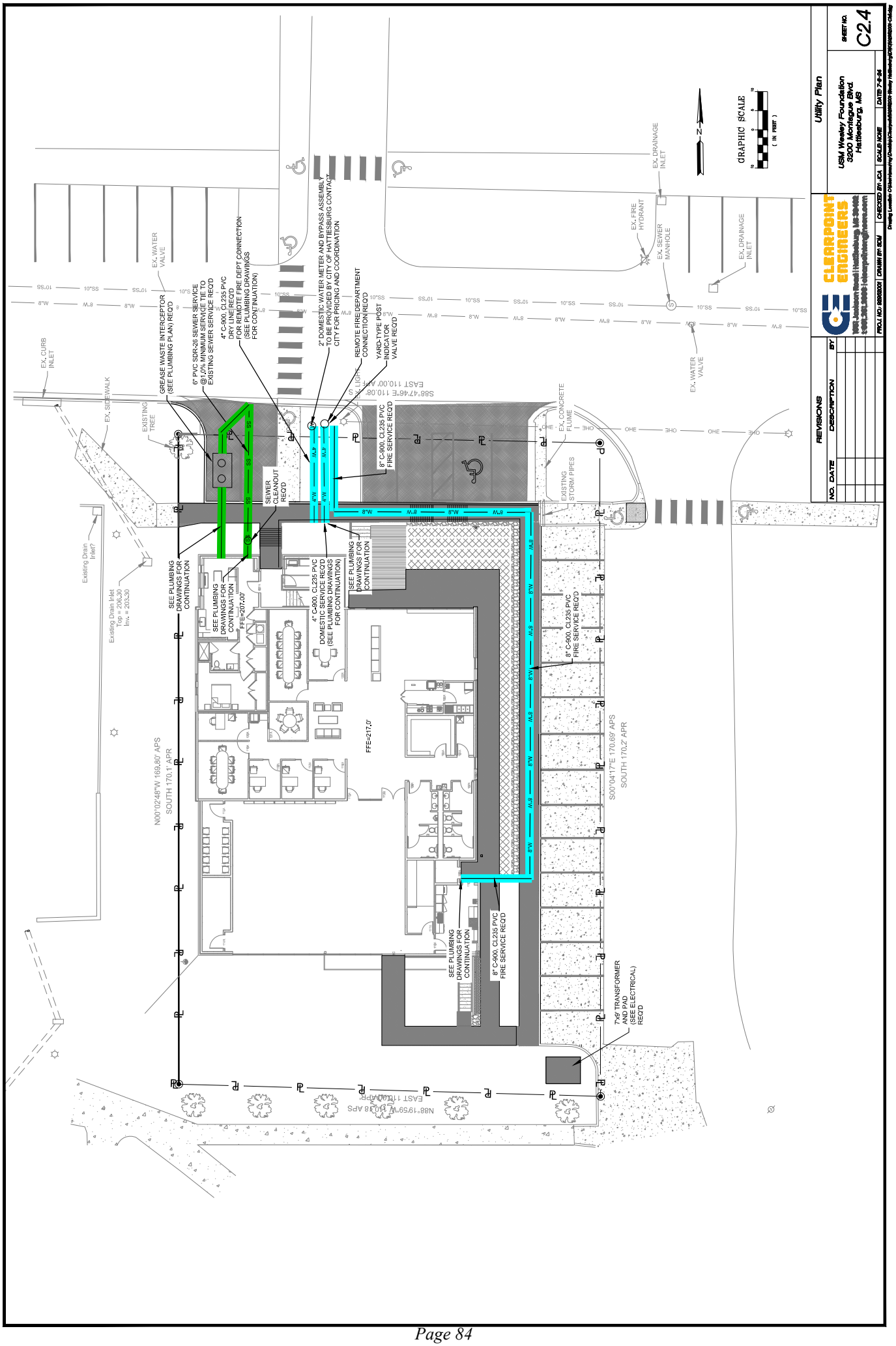
PROJ. NO: 8888001 | DRAWN BY: SCM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: C:\Users\murray\Desktop\Clearpoint\8888001-Wesley Hattiesburg\DWG\8888001-CM.dwg

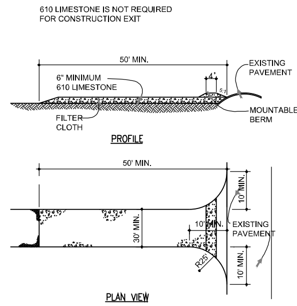

Erosion Control Plan
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS
SHEET NO.
C2.1
CLEARPOINT ENGINEERS
REVISIONS
NO. DATE DESCRIPTION BY
GRAPHIC SCALE
(IN FEET)
TEMPORARY CONSTRUCTION EXIT REQ'D
TEMPORARY STRAW WATTLE REQ'D
SILT FENCE (TYPICAL) REQ'D
STORM FLOW ARROWS (TYPICAL) REQ'D
7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D
FFE=217.0'
FFE=207.00'
EX. CURB INLET
EX. SIDEWALK
EXISTING TREE
EX. WATER VALVE
EX. DRAINAGE INLET
EX. FIRE HYDRANT
EX. SEWER MANHOLE
EX. CONCRETE FLUME
EXISTING STORM PIPES
Existing Drain Inlet
Existing Drain Inlet Top = 206.30 Inv. = 203.30
N00°02'48"W 169.80' APS
SOUTH 170.1' APR
S00°04'17"E 170.69' APS
SOUTH 170.2' APR
N88°19'59"W 110.18' APS
EAST 110.00' APR
S88°47'46"E 110.08' APS
EAST 110.00' APR


PROPOSED PERVIOUS AREAS SUMMARY
LOCATION
GREEN AREA (SF)
1 170
2 200
3 2500
4 613
5 120
6 130
7 150
8 261
9 215
TOTAL PERVIOUS AREAS 4,359=23%
TOTAL SITE AREA 18,742 SF
TOTAL IMPERVIOUS AREA 14,383=77%
GRAPHIC SCALE
(IN FEET)
GREEN 5=120 SF
REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 5" THICK CONCRETE MINIMUM 3500 PSI REQ'D
GREEN 8=261 SF
REMOVE ASPHALT FULL DEPTH AND REPLACE WITH 5" THICK CONCRETE MINIMUM 3500 PSI REQ'D
CONCRETE JOINTS AT 10' MAXIMUM SPACING REQ'D
NEW ADA SPACE AND SIGN REQ'D
MONTAGUE BLVD. (80' R.O.W.) (ASPHALT)
S88°47'46"E 110.08' APS
EAST 110.00' APR
5'x5' TRUNCATED DOMES ADA LANDING REQ'D
GREEN 7=150 SQUARE FEET
GREEN 9=215 SQUARE FEET
20' FRONT SETBACK
GREEN 6=130 SQUARE FEET
BLDG FFE=207.0'
6' SIDEWALK REQ'D
32nd AVENUE (50' R.O.W.) (ASPHALT)
N00°02'48"W 169.80' APS
SOUTH 170.1' APR
S00°04'17"E 170.69' APS
SOUTH 170.2' APR
5' SIDE SETBACK
BLDG (SEE ARCH.) FFE=217.0'
4" WHITE PAINT STRIPE OVER EXISTING (TYPICAL) REQ'D
GREEN 4=613 SQUARE FEET
GREEN 3=2500 SQUARE FEET
GREEN 2=200 SQUARE FEET
Existing Drain Inlet Top = 212.75 Inv. = 204.75
15" RCP
20' REAR SETBACK
7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D
N88°19'59"W 110.18' APS
EAST 110.00' APR
"X" MARK
GREEN 1=170 SQUARE FEET
REVISIONS
NO. DATE DESCRIPTION BY
CLEARPOINT ENGINEERS
Site Plan
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS
SHEET NO.
C2.2
PROJ. NO.: 9993600
DRAWN BY: SDM
CHECKED BY: JCA
SCALE: NONE
DATE: 7-10-24


PRIOR TO CONTRACTOR PLACING STORM DRAIN PIPE ON ADJACENT PROPERTY AND CONNECTING TO EXISTING DRAIN INLET, AN EASEMENT SHALL BE OBTAINED BY OWNER FOR A 12" HP STORM DRAIN PIPE (20 LINEAR FEET) FOR FOUNDATION DRAINAGE (SEE ARCH.) TO TIE TO THE INLET SHOWN ON UNIVERSITY PROPERTY
COORDINATE WITH ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR STORM DRAINAGE PIPE CONNECTION AT BUILDING
CONTRACTOR SHALL TAKE ALL PRECAUTION TO PROTECT THE EXISTING DRAIN INLET AND STORM PIPE DURING CONSTRUCTION AND PREVENT ANY SEDIMENT FROM ENTERING THE EXISTING STORM PIPES
TIE 12" STORM PIPE TO EXISTING INLET 6" ABOVE EXISTING INVERT
Existing Drain Inlet
Top = 212.75
Inv. = 204.75
15" RCP
Existing Drain Inlet?
Existing Drain Inlet
Top = 206.30
Inv. = 203.30
12" CPP
EX. CURB INLET
EX. SIDEWALK
EXISTING TREE
EX. WATER VALVE
FFE=207.00'
FFE=217.0'
STORM FLOW ARROWS (TYPICAL) REQ'D
5' LANDING ELEVATION=216.0' REQ'D
CONCRETE LANDING PAD 215.3' REQ'D
STAIRS REQ'D SEE ARCH.
5' LANDING ELEVATION=215.1' REQ'D
5' LANDING ELEVATION=214.75' REQ'D
TIERED PLANTER WALLS (SEE ARCHITECTURAL)
ADA REQ'D
EXISTING STORM PIPES
EX. CONCRETE FLUME
MONTAGUE BLVD. (80' R.O.W.) (ASPHALT)
7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D
"X" MARK
32nd AVENUE (50' R.O.W.) (ASPHALT)
EX. FIRE HYDRANT
EX. SEWER MANHOLE
EX. DRAINAGE INLET
EX. WATER VALVE
EX. DRAINAGE INLET
GRAPHIC SCALE
(IN FEET)
REVISIONS
NO. DATE DESCRIPTION BY
CLEARPOINT ENGINEERS
Grading Plan
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS
SHEET NO.
C2.3
PROJ. NO.: 92952001
DRAWN BY: SDM
CHECKED BY: JCA
SCALE: NONE
DATE: 7-8-24



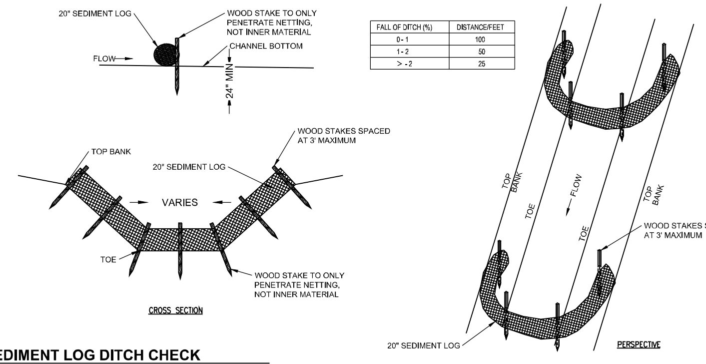
Utility Plan
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS
SHEET NO.
C2.4
CLEARPOINT ENGINEERS
REVISIONS
NO. DATE DESCRIPTION BY
GRAPHIC SCALE
(IN FEET)
EX. DRAINAGE INLET
EX. FIRE HYDRANT
EX. SEWER MANHOLE
EX. WATER VALVE
EX. CURB INLET
EX. SIDEWALK
EXISTING TREE
GREASE WASTE INTERCEPTOR (SEE PLUMBING PLAN) REQ'D
6" PVC SDR-26 SEWER SERVICE @1.0% MINIMUM SERVICE TIE TO EXISTING SEWER SERVICE REQ'D
4" C-900, CL235 PVC DRY LINE REQ'D FOR REMOTE FIRE DEPT CONNECTION (SEE PLUMBING DRAWINGS FOR CONTINUATION)
2" DOMESTIC WATER METER AND BYPASS ASSEMBLY TO BE PROVIDED BY CITY OF HATTIESBURG CONTACT CITY FOR PRICING AND COORDINATION
REMOTE FIRE DEPARTMENT CONNECTION REQ'D
YARD-TYPE POST INDICATOR VALVE REQ'D
8" C-900, CL235 PVC FIRE SERVICE REQ'D
EX. CONCRETE FLUME
EXISTING STORM PIPES
SEWER CLEANOUT REQ'D
SEE PLUMBING DRAWINGS FOR CONTINUATION
SEE PLUMBING DRAWINGS FOR CONTINUATION
FFE=207.00'
4" C-900, CL235 PVC DOMESTIC SERVICE REQ'D (SEE PLUMBING DRAWINGS FOR CONTINUATION)
SEE PLUMBING DRAWINGS FOR CONTINUATION
8" C-900, CL235 PVC FIRE SERVICE REQ'D
FFE=217.0'
Existing Drain Inlet?
Existing Drain Inlet Top = 206.30 Inv. = 203.30
N00°02'48"W 169.80' APS
SOUTH 170.1' APR
S00°04'17"E 170.69' APS
SOUTH 170.2' APR
SEE PLUMBING DRAWINGS FOR CONTINUATION
8" C-900, CL235 PVC FIRE SERVICE REQ'D
7'x9' TRANSFORMER AND PAD (SEE ELECTRICAL) REQ'D
N88°19'59"W 110.18' APS
EAST 110.00' APR



STABILIZED CONSTRUCTION EXIT

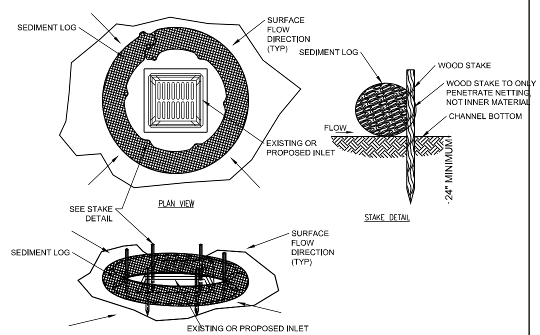
1. STONE SIZE - USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. DEPTH - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - THIRTY (30) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 TEMPORARY CONSTRUCTION EXIT
SCALE: NOT TO SCALE

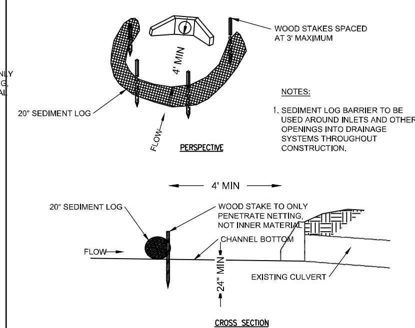


FALL OF DITCH (%)	DISTANCE/FEET
0 - 1	100
1 - 2	50
> - 2	25

2 SEDIMENT LOG DITCH CHECK
SCALE: NOT TO SCALE



3 SEDIMENT LOG INLET PROTECTION
SCALE: NOT TO SCALE



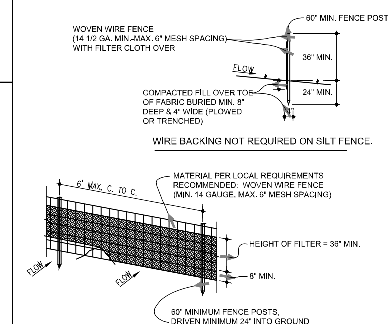
4 SEDIMENT LOG CULVERT SEDIMENT BARRIER
SCALE: NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO SILT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY (6) INCHES AND FOLDED.
4. LOCATE POSTS DOWNSLOPE OF FABRIC FOR FENCE SUPPORT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

   POSTS: STEEL EITHER "T" OR "U" TYPE
   POSTS: LOCATED MAXIMUM 6' O. C.
   FENCE: PER LOCAL REQUIREMENTS OR WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
   FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL.
   PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

6. INDICATED ON EROSION CONTROL PLANS AS "SF———SF—

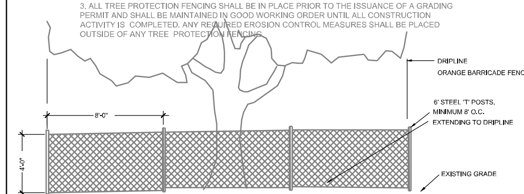


7 SILT FENCE EROSION PROTECTION
SCALE: NOT TO SCALE

1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
2. SILT FENCES AND HAY BALES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND/OR HAY BALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
6. PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
7. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
8. CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD IS NOT ADEQUATELY REMOVED FROM VEHICLES AT THE STABILIZED CONSTRUCTION EXITS.
9. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORMWATER CONVEYANCE SYSTEMS, USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
10. CONTRACTOR WILL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
12. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
13. CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT MEETS OR EXCEEDS 0.5 INCHES OF RAINFALL IN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED ONCE EVERY 14 CALENDAR DAYS. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS. REMOVE ALL SEDIMENT IF IT ACCUMULATES TO 1/3 THE HEIGHT OF THE SILT FENCE.
14. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT, NO SEPARATE PAY.
15. CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
16. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
17. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEMS BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
18. CONTRACTOR SHALL SOLID SOD DISTURBED AREAS IMMEDIATELY AFTER REACHING FINAL GRADE.

5 EROSION CONTROL NOTES
SCALE: NOT TO SCALE

TREE PROTECTION NOTES:
1. THE CRITICAL ROOT AREA OF THE TREES THAT ARE INDICATED TO REMAIN MUST BE PROTECTED, AT A MINIMUM, BY A PROTECTIVE FENCE LOCATED AT A RADIUS MEASURED 1.25 FEET FOR EVERY INCH IN DIAMETER OF THE TREE, OR AT THE DRIP LINE, WHICHEVER IS GREATER. FOR A GROUP OF TREES, A PROTECTIVE FENCE SHALL BE PLACED OUTSIDE THE CRITICAL ROOT RADIUS OF ALL TREES IN THE GROUP.
2. AFTER THE AREAS TO BE SELECTIVELY CLEARED ARE COMPLETED, THE CONTRACTOR SHALL INSTALL THE TREE BARRIER AS INDICATED AROUND THOSE AREAS.
3. ALL TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE ISSUANCE OF A GRADING PERMIT AND SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED. ANY REQUIRED EROSION CONTROL MEASURES SHALL BE PLACED OUTSIDE OF ANY TREE PROTECTION FENCING.



6 TREE PROTECTION - ORANGE BARRIER DETAIL
SCALE: NOT TO SCALE

REVISIONS		
NO. DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

Erosion Control Details

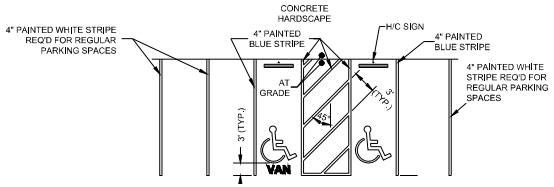
USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.1

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

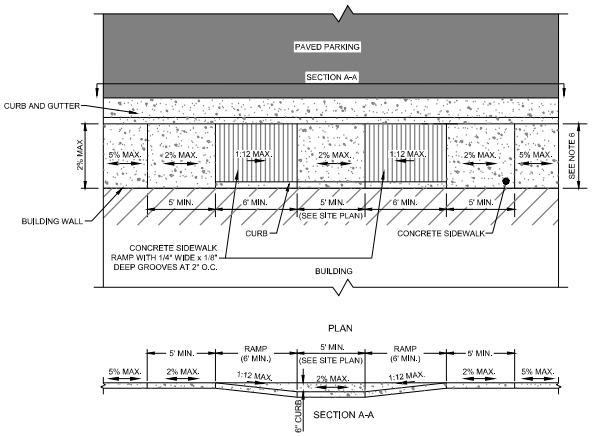
Drawing Location: C:\Users\smurray\Desktop\Clearpoint\92952001-Wesley Hattiesburg\DWG\92952001-Civil.dwg

NOTE:
1. FOR HANDICAP SPACES AND AISLES, FINISHED GRADE SLOPES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
2. SEE PLAN FOR PARKING SPACE DIMENSIONS.

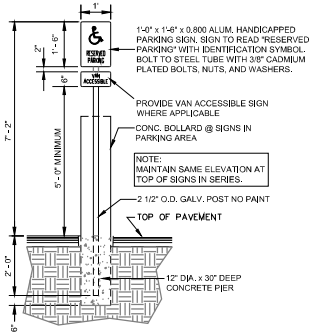


TYPICAL PARKING STRIPING DETAIL

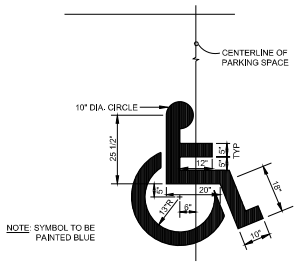
NOTES:
1. LOCATIONS AND TYPES OF CURB RAMPS SHALL BE AS SHOWN ON CIVIL/SITE PLANS.
2. THE CURB RAMP SHALL BE PAID FOR AS SIDEWALK.
3. THE THICKNESS OF THE CURB RAMP SHALL MATCH THAT OF THE SURROUNDING SIDEWALK (SEE DETAIL).
4. ALL RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1 FOR A MAXIMUM ELEVATION INCREASE OF 0.5 FEET.
5. HANDICAP RAMPS CONNECTING TO PUBLIC STREETS SHALL HAVE TRUNCATED DOME SURFACE IN ACCORDANCE WITH ADA REGULATIONS.
6. CURB RAMP WIDTH SHALL CONFORM TO SIDEWALK WIDTH SHOWN ON SITE PLAN.



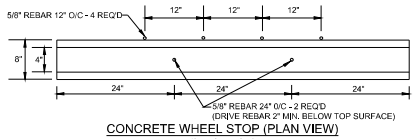
HANDICAP SIDEWALK RAMP DETAIL



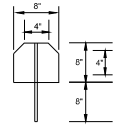
HANDICAP PARKING SIGN DETAIL



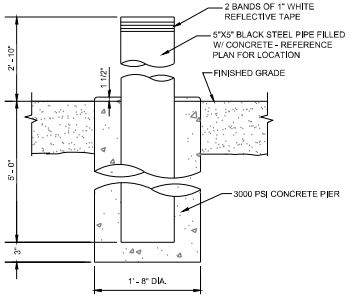
INTERNATIONAL SYMBOL OF ACCESS



CONCRETE WHEEL STOP (PLAN VIEW)
(6'L X 8"W X 6"H)



(PROFILE VIEW)
(6'L X 8"W X 6"H)



EXTERIOR PIPE BOLLARD DETAIL

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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1081 Jackson Road | Hattiesburg, MS 39402
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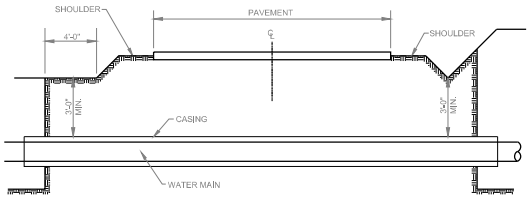
Site Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.2

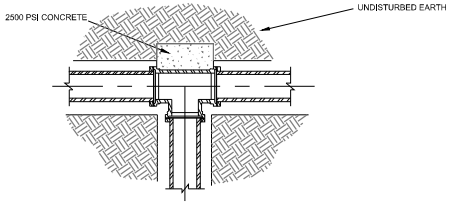
PROJ. NO: 2023-0001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: C:\Users\smurray\Desktop\Clearpoint\2023-0001 Wesley Hattiesburg\DWG\2023-0001.dwg

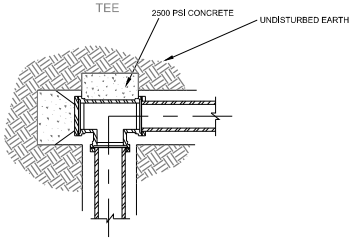


**SEE PLAN FOR WATER MAIN & CASING MATERIAL AND SIZES.

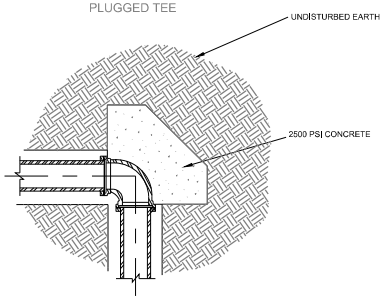
BORED & CASED WATER MAIN



TEE

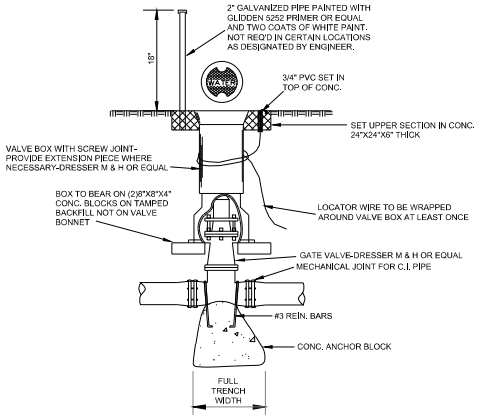


PLUGGED TEE

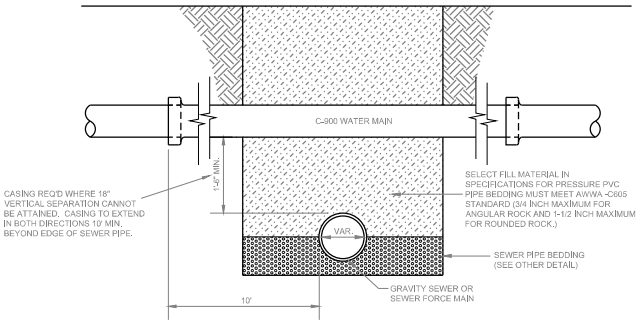


90° BEND

TYPICAL BLOCKING DETAILS



GATE VALVE DETAIL FOR MAINS 2" DIA. & OVER



WATER-SEWER SEPARATION

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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t:601.261.2000 | clearpointengineers.com

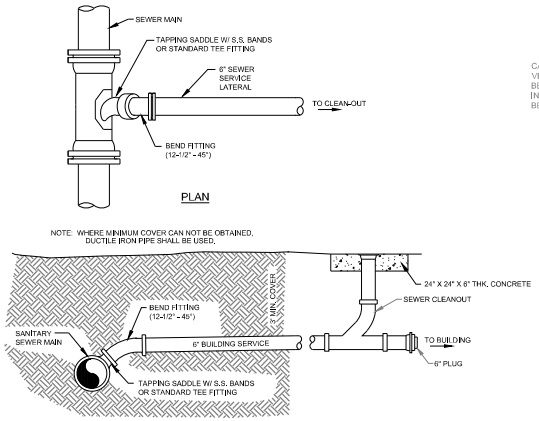
Water Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

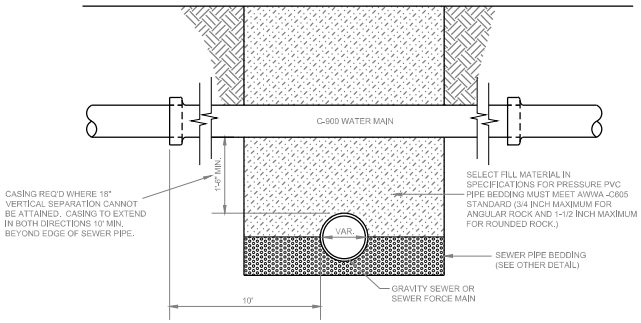
SHEET NO. C3.3

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

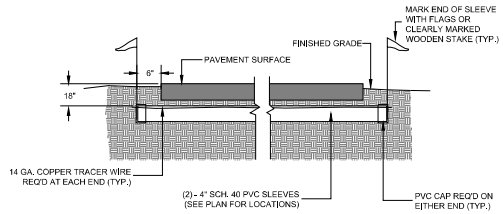
Drawing Location: C:\Users\smurray\Desktop\Clearpoint\92952001-Wesley Hattiesburg\DWG\92952001-C3.dwg



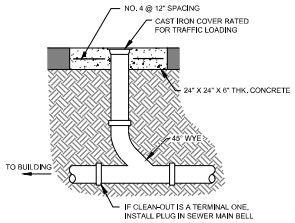
SEWER SERVICE CONNECTION DETAILS



WATER-SEWER SEPARATION

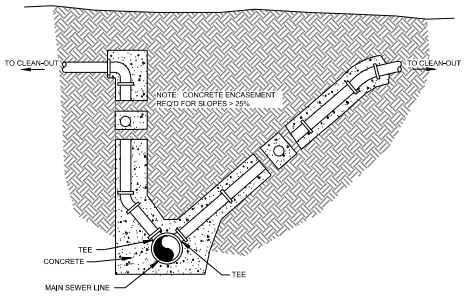


IRRIGATION SLEEVING DETAIL



SEWER CLEAN-OUT DETAILS

N.T.S.



SEWER SERVICE DETAILS FOR DEEP SEWERS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t:601.261.2000 | clearpointengineers.com

Sewer Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. C3.4

PROJ. NO.: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

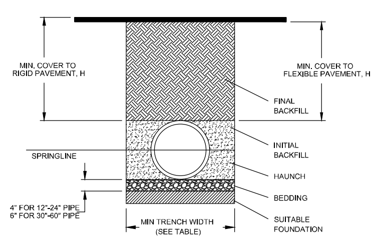
Drawing Location: C:\Users\smurray\Desktop\Clearpoint\92952001-Wesley Hattiesburg\DWG\92952001-C3.dwg

ADS, Inc. Drainage Handbook
Table 5-2
Classes of Embedment and Backfill Materials

ASTM D2321(A) (CSA B182.11) Class	Class Description	ASTM D2487 Notation	ASTM D2487 Description	AASHTO M43 Notation	AASHTO M145 Notation	BNQ 2560	ASTM Dm 2321 (A) (CSA B182.11) Percentage Passing Sieve Sizes: 1 ½ in. (40mm)	3/8" (9.5mm)	No. 4 (4.75mm)	No. 200 (0.075 mm)	Atterberg Limits: LL	PI	Coefficients: Cu	Cc
I(B)	Crushed rock, angular	N/A	Angular crushed stone or rock, crushed gravel, crushed slag; large voids with little or no fines	5, 56, 57(D), 6, 67(D)	N/A		100%	≤25%	≤15%	<12%	Non Plastic		N/A	
II	Clean, coarse-grained soils	GW	Well-graded gravel, gravel-sand mixtures; little or no fines	5, 6	A1, A3	CG-14, MG-20	100%		<50% of "Coarse Fraction"	<5%	Non Plastic		>4	1 to 3
		GP	Poorly-graded gravels, gravel-sand mixtures; little or no fines	56, 57, 67									<4	<1 or >3
		SW	Well-graded sands, gravelly sands; little or no fines						>50% of "Coarse Fraction"				>6	1 to 3
		SPF	Poorly-graded sands, gravelly sands; little or no fines										<6	<1 or >3
	Coarse- Grained Soils, borderline clean to w/fines	GW- GC, SP-SM	Sands and gravels which are borderline between clean and with fines	N/A			100%		Varies	5% to 12%	Non Plastic		Same as for GW, GP, SW and SP	
III	Coarse-grained soils with fines	GM	Silty gravels, gravel-sand-silt mixtures	Gravel & sand with <10% fines	A-2-4, A-2-5, A-2-6, or A-4 or A-6 soils with more than 30% retained on #200 sieve		100%		<50% of "Coarse Fraction"	12% to 50%	N/A	<4 or <"A" Line	N/A	
		GC	Clayey gravels, gravel-sand-clay mixtures									<7 & >"A" Line		
		SM	Silty sands, sand-silt mixtures						>50% of "Coarse Fraction"			>4 or <"A" Line		
		SC	Clayey sands, sand- clay mixtures									>7 & >"A" Line		
	Inorganic fine-grained soils	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, silts with slight plasticity						100%	> 30% (Retained)	<50	<4 or <"A" Line		
		CL	Inorganic clays of low to medium plasticity; gravelly, sandy, or silty clays; lean clays							> 30% (Retained)		>7 & >"A" Line		
IV(E)	Inorganic fine-grained soils	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, silts with slight plasticity	N/A	A-2-7 or A-4 or A-6 soils with 30% or less retained on #200 sieve		100%		100%	< 30% (Retained)	<50	<4 or <"A" Line	N/A	
		CL	Inorganic clays of low to medium plasticity; gravelly, sandy, or silty clays; lean clays	N/A								>7 & >"A" Line		
V (G)	Inorganic fine-grained soils	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	N/A	A5, A7		100%		100%	>50%	>50	<"A" Line	N/A	
		CH	Inorganic clays of high plasticity, fat clays	N/A								>"A" Line		
	Organic soils or Highly organic soils	OL	Organic silts and organic silty clays of low plasticity	N/A			100%		100%	>50%	<50	<4 or <"A" Line	N/A	
		OH	Organic clays of medium to high plasticity, organic silts	N/A							>50	<"A" Line		
		PT	Peat and other high organic soils	N/A										

ADS, Inc. Drainage Handbook
Notes:
A) Refer to ASTM D2321 / CSA B182.11/ BNQ 2560 for more complete soil descriptions.
B) Class I materials allow for a broader range of fines than previous versions of D2321 / B182.11. When specifying class I material for infiltration systems, the engineering shall include a requirement for an acceptable level of fines.
C) All particle faces shall be fractured.
D) Assumes less than 25% passes the 3/8" sieve.
E) Class IV materials require a geotechnical evaluation prior to use and should only be used as backfill under the guidance of a qualified engineer.
F) Uniform fine sands (SP) with more than 50% passing a 100 sieve behave like silts and should be treated as Class III soils if allowed.
G) Class V materials shall not be permitted as bedding and backfill material.

ADS, Inc., August 2016



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

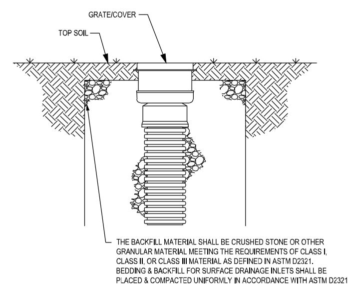
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 85% SPD AND CLASS III COMPACTED TO 90% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

HIGH PERFORMANCE (H.P.) STORM PIPE BEDDING DETAILS & SPECIFICATIONS



NON-TRAFFIC INLINE DRAIN INSTALLATION

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN TRENCH WIDTH
12" (300mm)	30" (750mm)
15" (375mm)	34" (860mm)
18" (450mm)	39" (990mm)
24" (600mm)	48" (1200mm)
30" (750mm)	56" (1420mm)
36" (900mm)	64" (1620mm)
42" (1050mm)	72" (1830mm)
48" (1200mm)	80" (2030mm)
60" (1500mm)	96" (2440mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION: H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12" (300mm)	48" (1200mm)
60" (1500mm)	24" (600mm)	60" (1500mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

PIPE DIA	CLASS I COMPACTED	CLASS II 95%	CLASS II 90%	CLASS II 85%	CLASS III 95%	CLASS III 90%	CLASS IV 95%
12" (300mm)	41 (12.5m)	29 (8.8m)	21 (6.4m)	10 (3.0m)	22 (6.7m)	12 (3.7m)	11 (3.4m)
15" (375mm)	44 (13.4m)	30 (9.1m)	22 (6.7m)	10 (3.0m)	23 (7.0m)	13 (4.0m)	12 (3.7m)
18" (450mm)	38 (11.6m)	26 (7.9m)	19 (5.8m)	9 (2.7m)	20 (6.1m)	12 (3.7m)	11 (3.4m)
24" (600mm)	32 (9.8m)	23 (7.0m)	16 (4.9)	9 (2.7m)	17 (5.2m)	11 (3.4m)	10 (3.0m)
30" (750mm)	35 (10.7m)	25 (7.6m)	18 (5.5m)	9 (2.7m)	18 (5.5m)	12 (3.7m)	11 (3.4m)
36" (900mm)	31 (9.5m)	22 (6.7m)	15 (4.6m)	9 (2.7m)	16 (4.9m)	11 (3.4m)	10 (3.0m)
42" (1050mm)	33 (10.1m)	23 (7.0m)	17 (5.2m)	8 (2.4m)	17 (5.2m)	11 (3.4m)	10 (3.0m)
48" (1200mm)	31 (9.5m)	22 (6.7m)	15 (4.6m)	8 (2.4m)	16 (4.9m)	11 (3.4m)	10 (3.0m)
60" (1500mm)	36 (11.0m)	25 (7.6m)	17 (5.2m)	8 (2.4m)	18 (5.5m)	11 (3.4m)	10 (3.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

Section 2722

Engineered Surface Drainage Products

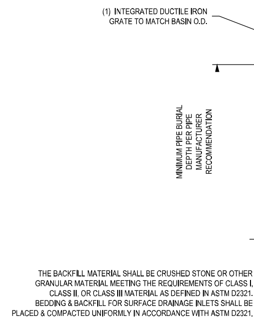
GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

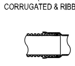
INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

8 IN - 30 IN INLINE DRAIN SPECIFICATIONS



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC



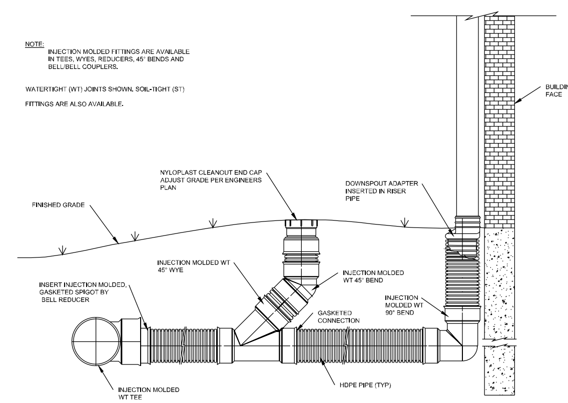
ADAPTER SIZE	B
4"	14.00
6"	14.00
8"	14.00
10"	14.00
12"	14.00
15"	13.50
18"	8.25

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

NYLOPLAST INLINE DRAIN

NOTE: INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.



ROOF DRAIN INLET DETAIL

REVISIONS		
NO. DATE	DESCRIPTION	BY

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

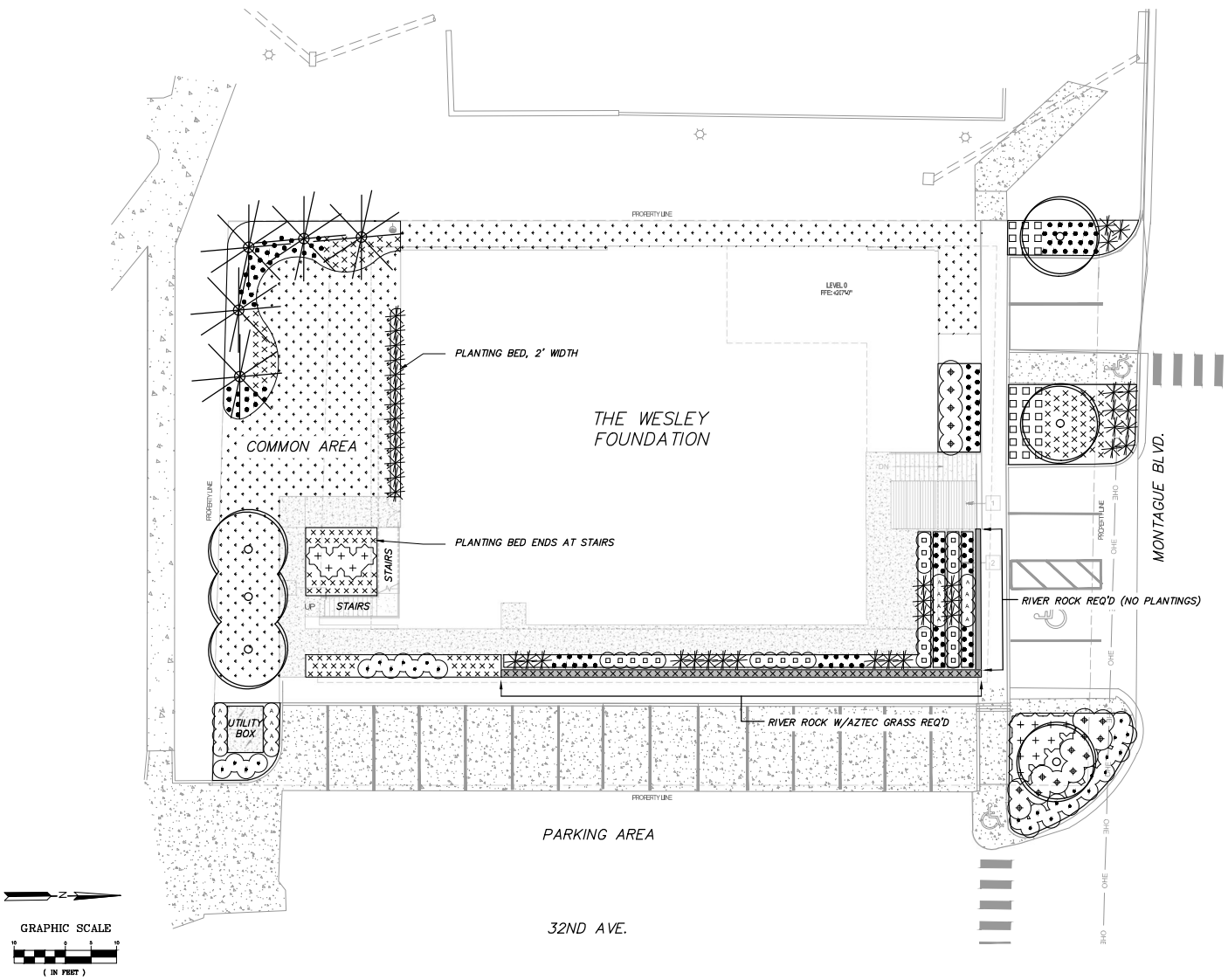
STORM Details

USM Wesley Foundation
3200 Montague Blvd.
Hattiesburg, MS

SHEET NO. **C3.5**

PROJ. NO: 92952001 | DRAWN BY: SDM | CHECKED BY: JCA | SCALE: NONE | DATE: 1-5-24

Drawing Location: C:\Users\smurray\Desktop\Clearpoint\92952001-Wesley Hattiesburg\DWG\92952001-Civil.dwg



LANDSCAPE LEGEND

- 'TEDDY BEAR' MANGOLIA
- 'SHOAL CREEK' CHASTE TREE
- PURPLE PIXIE LOROPETALUM
- DWARF PINK MUHLY GRASS
- 'SHI SHI' CAMELIA
- ROSA CORAL DRIFT
- 'SUNSHINE' LIGUSTRUM
- AZALEA ENCORE 'AUTUMN CORAL'
- RUDBECKIA 'GOLDSTRUM'
- JUNIPER 'BLUE RUG'
- AZTEC GRASS
- SOLID SOD, CENTIPEDE
- RIVER ROCK

NOTE:

TREE BARK MULCH REQ'D AS SURFACE APPLICATION IN ALL PLANTING BEDS UNLESS OTHERWISE NOTED ON THIS SHEET

NOTICE TO DRAWING HOLDER

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REVISIONS

NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION

N-S PROJECT NO.: NS.18901.000	
FILENAME: LANDSCAPE_FINAL.dwg	
SCALE: 1"=10'	
SURVEYED BY: CLEARPOINT ENG.	
DSGN: DAL	DATE: 11/2025
DRWN: DAL	DATE: 12/2025
CHKD: JDT	DATE: 1/2026
QA/QC: RPB	DATE: 1/2026

USM WESLEY FOUNDATION

UNIVERSITY OF SOUTHERN MISSISSIPPI
3200 MONTAGUE BLVD.
HATTIESBURG, MISSISSIPPI

REGISTERED LANDSCAPE ARCHITECT DAVID AUSTIN LOVITT 868 STATE OF MISSISSIPPI
1-19-25

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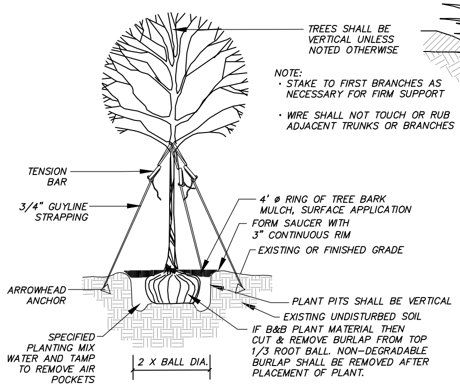
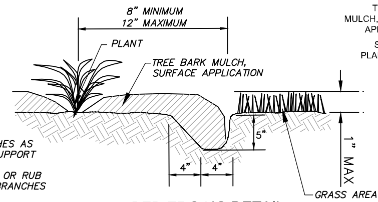
LANDSCAPE PLAN

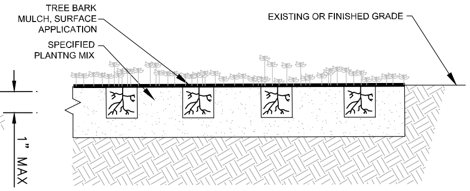
WORKING NUMBER:	DRAWING NUMBER:
LS -1	LS.1



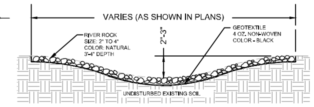
TYPICAL SINGLE-TRUNK TREE PLANTING DETAIL
NOT TO SCALE



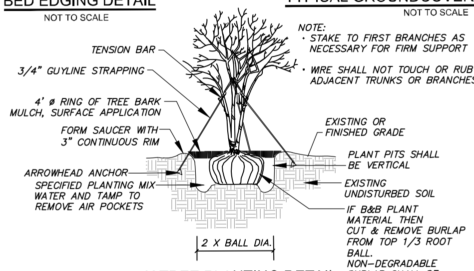
BED EDGING DETAIL
NOT TO SCALE



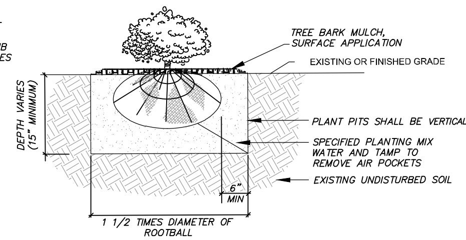
TYPICAL GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



RIVER ROCK DETAIL
NOT TO SCALE



TYPICAL MULTI-TRUNK TREE PLANTING DETAIL
NOT TO SCALE



TYPICAL SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE QUANTITIES & SCHEDULE

LANDSCAPE ITEMS	QTY	SIZE / UNIT	SEASONAL APPLICATIONS – DATES & RATES: SPRING & SUMMER (RATES / DATES)	SEASONAL APPLICATIONS – DATES & RATES: FALL & WINTER (RATES / DATES)	REQUIREMENTS
SOIL TEST	1		N / A	N / A	REQUIRED TO BE SUBMITTED IN ADVANCE OF ALL LANDSCAPE CONSTRUCTION ITEMS; COST ABSORBED IN BED PREP PAY ITEM
TOPSOIL	65	CU YD	N / A	N / A	2" DEPTH IN BED PREP AREAS (20 CY); 1" DEPTH IN AREAS TO RECEIVE SOLID SOD (8 CY); 24" IN PLANTERS ON NORTH SIDE OF BUILDING (34 CY); 1 CU FT PER TREE PLANTED OUTSIDE A BED AREA (0.3 CY)
TREE PLANTING, 'TEDDY BEAR' MAGNOLIA	5	30 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; SINGLE STRAIGHT TRUNK – BRANCHED TO GROUND; 11'–13' H X 5'–6' S
TREE PLANTING, 'SHOAL CREEK' CHASTE TREE	6	30 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; MULTI–TRUNK TREE FORM – 3–5 TRUNKS; 6'–7' H X 3'–4' S
SHRUB PLANTING, 'PURPLE PIXIE' LOROPETALUM	22	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 3' SPACING
SHRUB PLANTING, DWARF PINK MUHLY GRASS	41	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 2.5' SPACING
SHRUB PLANTING, 'SHI SHI' CAMELIA	12	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 3.5' SPACING
SHRUB PLANTING, ROSA CORAL DRIFT	15	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 4' SPACING
SHRUB PLANTING, 'SUNSHINE' LIGUSTRUM	26	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 3' SPACING
SHRUB PLANTING, AZALEA ENCORE 'AUTUMN CORAL'	16	3 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 2.5' SPACING
GROUNDCOVER, RUDBECKIA 'GOLDSTURM'	128	1 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 24" SPACING
GROUNDCOVER, JUNIPER 'BLUE RUG'	27	1 GAL	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 2.5' SPACING
GROUNDCOVER, AZTEC GRASS	203	4" CONTAINER	BY REQUEST ONLY	OCT 1 – APRIL 30	FULL & HEALTHY PLANT; 24" SPACING
SOLID SOD, CENTIPEDE	275	SQ YD	N / A	N / A	CERTIFICATE REQUIRED FOR APPROVAL IN ADVANCE OF ORDERING & INSTALLATION
BED PREPARATION	2700	SQ FT	N / A	N / A	APPLIED TO AREAS SHOWN IN PLANS TO RECEIVE SHRUB & GROUNDCOVER PLANTING; REMOVE EXISTING GRASS & POOR MATERIAL; ADD TOPSOIL & TREE BARK MULCH, SOIL CONDITIONER, AND ROTO–TILL INTO EXISTING SOIL TO A MINIMUM DEPTH OF 6"
TREE BARK MULCH, SURFACE APPLICATION	20	CU YD	N / A	N / A	2" DEPTH IN BED PREP AREAS; SEE BED PREPARATION REQUIREMENTS
TREE BARK MULCH, SOIL CONDITIONER	20	CU YD	N / A	N / A	2" DEPTH IN BED PREP AREAS; SEE BED PREPARATION REQUIREMENTS
FERTILIZER TABLET, 21 GRAM	474	EACH	N / A	N / A	5 TABLETS PER 30 GALLON (55); 2 TABLETS PER 3 GALLON (264); 1 TABLET PER 1 GALLON (155)
FERTILIZER TABLET, 10 GRAM	203	EACH	N / A	N / A	1 TABLET PER 4" CONTAINER
PRE–EMERGENT HERBICIDE	15	LB	N / A	N / A	2 GRAMS PER SQ FT OF BED PREP AREA
WATERING BAGS	11	EACH	N / A	N / A	INSTALLED ON ALL TREE PLANTINGS DURING MAINTENANCE PERIOD; 1 FILL PER WEEK FOR EACH TREE
RIVER ROCK	3	CU YD	N / A	N / A	2"–4" SIZE; 3"–4" DEPTH; COLOR – NATURAL/LOCALLY SOURCED; 4 OZ. NON–WOVEN GEOTEXTILE REQUIRED (COST ABSORBED); APPLIED TO LANDSCAPE BEDS AS CALLED OUT ON LS–1

PLANTING NOTES:

1. CONTRACTOR SHALL MEET THE LICENSE REQUIREMENTS OF THE APPLICABLE LOCAL AND STATE DEPARTMENTS.
2. ALL FINISHED GRADES INCLUDING PLANTING BEDS AND LAWN AREAS SHALL BE BELOW (1" MIN) FINISHED FLOOR ELEVATIONS AND/OR WEEP HOLES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATES THROUGH LOCAL ONE–CALL AND WILL ALSO BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR INFRASTRUCTURE. IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED, ALTERNATE LOCATIONS MAY BE SELECTED BY THE OWNER.
4. PLANT MATERIAL STANDARDS SHALL BE BASED ON THE MOST RECENT EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD FOR NURSERY STOCK.
5. CONTRACTOR TO MAINTAIN ALL INSTALLED LANDSCAPE PLANTINGS (TREES, SHRUBS, GROUNDCOVERS) IN EXCELLENT HEALTH AND APPEARANCE FROM INSTALLATION UNTIL FINAL PROJECT ACCEPTANCE/RELEASE.
6. ALL STANDARDS SHALL BE MET FOR PROPOSED PLANT MATERIAL:
   - A. PLANT MATERIAL MEETS SPECIFIED SIZE REQUIREMENTS.
   - B. PLANT MATERIAL IS TRUE TO SPECIES/VARIETY SPECIFIED AND IS INDIVIDUALLY LABELED BY NOMENCLATURE.
   - C. SINGLE TRUNK – TREE HAS A SINGLE, RELATIVELY STRAIGHT CENTRAL LEADER WITH TAPERED TRUNK, FREE OF CODOMINANT STEMS AND/OR UPRIGHT BRANCHES THAT COMPETE WITH CENTRAL LEADER. CENTRAL LEADER HAS NOT BEEN TOPPED.
   - D. MULTI–TRUNK – TREE HAS MULTIPLE LEADERS (3 OR 5) NONE OF WHICH HAVE BEEN TOPPED AND CLEAR TRUNK FREE OF SUCKERS.
   - E. PLANTING SITE "HOLE" IS PREPARED 2.5 TIMES THE DIAMETER OF THE ROOTBALL AND ONE INCH LESS IN DEPTH THAN THE ROOTBALL HEIGHT (ROOTBALL HEIGHT SHALL BE THE DISTANCE MEASURED FROM THE BOTTOM OF THE ROOTBALL TO THE ROOT FLARE). THE SIDES OF THE HOLE SHALL EITHER BE SCARIFIED OR TAPER UP TO EXISTING GRADE.
   - F. PLANT MATERIAL IS PLACED/CENTERED IN HOLE; ENSURE ROOT FLARE IS ONE INCH ABOVE EXISTING GRADE.
   - G. ALL FOREIGN MATERIAL, TO INCLUDE, BINDINGS, STRING, TWINE, WIRE, WRAPPINGS, WIRE BASKETS AND BURLAP ARE REMOVED FROM TRUNK AND ROOTBALL. IF BALL & BURLAP AND BASED ON THE CONDITION OF THE ROOTBALL, APPROVAL MAY BE GIVEN BY THE OWNER TO LEAVE THE BOTTOM ⅔ OF BURLAP AND WIRE BASKET INTACT.
   - H. BACKFILL IS TAMPED FIRMLY AROUND THE ROOTBALL TO STABILIZE THE PLANT VERTICAL IN THE HOLE. REMAINING BACKFILL IS ADDED AND TAMPED LIGHTLY. BACKFILL CONSISTS OF EXISTING SOIL MIXED WITH TOPSOIL, APPLIED AS NOTED IN TABLE. COMPLIANCE SHALL BE PROVIDED BY SUFFICIENT QUANTITY OF PRODUCT ON SITE FOR ENTIRE PROJECT PRIOR TO PLANTING. FERTILIZER TABLETS REQUIRED AS NOTED IN TABLE.
   - I. PLANT MATERIAL IS THOROUGHLY WATERED DURING INSTALLATION TO SETTLE BACKFILL AND SATURATE THE ENTIRE ROOTBALL. ADDITIONAL BACKFILL AND WATER ARE ADDED AS NECESSARY.
   - J. TREES ARE ANCHORED/SUPPORTED BY GUYLINES WITH TENSION BARS AND GROUND ANCHORS. GUYING SYSTEM SHALL CONSIST OF THREE ARROWHEAD GROUND ANCHORS, ADJUSTABLE TENSION BARS, AND ¾" GUYLINE STRAPPING. OWNER SHALL BE RESPONSIBLE FOR FUTURE STAKE REMOVAL.
   - K. TREE IS SECURED BY GUYLINE ATTACHMENT WHICH SHALL ENCIRCLE THREE MAJOR TRUNKS USING NON–ABRASIVE, ¾" WIDE POLYPROPYLENE GUYLINE STRAPPING. TENSION BARS SHALL BE USED TO ADJUST GUYLINE TENSION EVENLY ACROSS ALL ANCHOR POINTS. GROUND ANCHORS SHALL BE DRIVEN INTO THE SOIL AT A 45° ANGLE AWAY FROM THE TREE TO A DEPTH OF APPROXIMATELY 18"–24" AND SPACED EQUALLY AROUND THE TREE GROUP. GUYLINES SHALL BE ATTACHED TO ANCHORS PER OWNER DIRECTIVE. EACH TREE WILL REQUIRE APPROXIMATELY 16' OF CONTINUOUS TIE. GUYLINE HEIGHT SHALL BE APPROXIMATELY ⅓ THE HEIGHT OF THE TALLEST TRUNK AND ADJUSTED TO BALANCE SUPPORT ACROSS ALL TRUNKS. NO METAL SHALL CONTACT THE BARK DIRECTLY.
   - L. TREE GUYING SYSTEM SHALL BE INSPECTED PERIODICALLY.

NOTICE TO DRAWING HOLDER
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REVISIONS

NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION

N–S PROJECT NO.: NS.18901.000	
FILENAME: LANDSCAPE_FINAL.dwg	
SCALE: NTS	
SURVEYED BY: CLEARPOINT ENG.	
DSGN: DAL	DATE: 11/2025
DRWN: DAL	DATE: 12/2025
CHKD: JDT	DATE: 1/2026
QA/QC: RPB	DATE: 1/2026

USM WESLEY FOUNDATION
UNIVERSITY OF SOUTHERN MISSISSIPPI
3200 MONTAGUE BLVD.
HATTIESBURG, MISSISSIPPI

REGISTERED LANDSCAPE ARCHITECT · DAVID AUSTIN LOVITT · 658 · STATE OF MISSISSIPPI
1-19-25

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LANDSCAPE DETAILS & VEGETATION SCHEDULE

WORKING NUMBER: LS -2
DRAWING NUMBER: LS.2

1. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE ITEMS IN THE SPECIAL INSPECTION TABLE BELOW.

2. THE SPECIAL INSPECTORS SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, AND THE ENGINEER OF RECORD, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE, OR WAIVE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
   B. SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE ENGINEER OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
   C. SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS & SPECIFICATIONS & THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

4. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF A SPECIFIED QUALITY ASSURANCE TESTING PROGRAM, DUPLICATE INSPECTIONS SHALL BE REQUIRED.

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
SOILS		
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE TO ACHIEVE THE BEARING CAPACITY	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	PERIODIC	
3. PERFORM CLASSIFICATION AND COMPACTION TESTING OF CONTROLLED FILL MATERIALS.	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	CONTINUOUS	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PROPERLY PREPARED	PERIODIC	

CONCRETE		
ISOLATED SPREAD FOOTINGS & CONTINUOUS LINE FOOTINGS ARE INCLUDED. ALL SLABS ON GRADE, GRADEBEAM, RETAINING WALLS ARE INCLUDED PATIOS, DRIVEWAYS, & SIDEWALKS ARE EXCLUDED		
1. INSPECTION OF REINFORCING STEEL , PLACEMENT OF SAME	PERIODIC	ACI 318 3.5, 7.1-7.7
2. INSPECT BOLTS TO BE INSTALLED IN CONCRETE, PRIOR TO & DURING PLACEMENT OF CONCRETE	CONTINUOUS	
3. INSPECT EPOXY SET ANCHORS AND EXPANSION ANCHORS INSTALLED IN HARDENED CONCRETE	CONTINUOUS	PRODUCT ICBO REPORT
4. VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318 CH 4, 5.2-5.4
5. SAMPLING FRESH CONCRETE & PERFORMING SLUMP, AIR CONTENT, TEMPERATURE TESTS AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS	CONTINUOUS	ASTM C172, C31 ACI 318 5.6. 5.8
6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	ACI 318 5.9. 5.10
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES	PERIODIC	ACI 318 5.11-5.13
8. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS PRIOR TO PLACING	PERIODIC	ACI 318 6.1.1

STEEL CONSTRUCTION		
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, & WASHERS A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARD REQUIRED. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC	APPLICABLE ASTM MATERIAL SPEC. AISC ASD A3.4
2. INSPECTION OF HIGH STRENGTH BOLTING - BEARING TYPE CONNECTION	PERIODIC	AISC 360, M2.5
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARD REQUIRED. B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED.		ASTM A6, A568
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARD SPECIFIED B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		AISC ASD, A3.6
5. INSPECTION OF WELDING		AWS D1.1
A. COMPLETE & PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS	
B. MULTI-PASS FILLET WELDS	CONTINUOUS	
C. SINGLE PASS FILLET WELDS GREATER THAN 5/16"	CONTINUOUS	
D. SINGLE PASS FILLET WELDS LESS THAN/EQUAL TO 5/16"	PERIODIC	
E. FLOOR & DECK WELDS	PERIODIC	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONTRACT DOCUMENTS	PERIODIC	
A. DETAILS SUCH AS BRACING & STIFFENERS		
B. MEMBER LOCATIONS		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		

WOOD JOISTS	FREQUENCY	REFERENCED STANDARD
AS JOIST ERECTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE		
THE INSPECTION PROGRAM SHALL VERIFY:		
A. JOIST HANGERS INSTALLED PROPERLY	PERIODIC	CONTRACT DOCUMENTS
B. WOOD PLATES ARE BOLTED TO STEEL BEAMS	PERIODIC	CONTRACT DOCUMENTS
C. BRACING INSTALLED AT TOP & BOTTOM CHORDS	PERIODIC	CONTRACT DOCUMENTS
D. SHEATHING ATTACHED AT PROPER SPACING	PERIODIC	CONTRACT DOCUMENTS
E. JOISTS INSTALLED PLUMB, STRAIGHT	PERIODIC	CONTRACT DOCUMENTS
F. JOIST MEMBERS NOT DAMAGED DURING ERECTION	PERIODIC	

(1) NOTES
12" = 1'-0"

GENERAL NOTES:

1. All concrete shall conform to current ACI specifications and shall be as follows: regular sand and gravel with minimum of 3000 psi compressive strength in 28 days in footings, curbs, piers, walks, and gradebeams. Concrete for floor slabs shall have a minimum 28 day compressive strength of 4000 psi. All concrete shall have 3/4" maximum aggregate size, maximum slump of 5".

2. Provide necessary reinforcing steel accessories to hold bars in proper position.

3. Provide corner bars of same size and number as horizontal bars at all corners of gradebeams and walls.

4. All reinforcing shall be deformed, ASTM 615, Grade 60.

5. All detailing and fabrication of reinforcing bars must follow the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures."

6. All placing of reinforcing bars in the forms must follow the CRSI "Recommended Practice for Placing Reinforcing Bars."

7. All bars are to be supported in the forms with wire bar supports meeting the requirements of the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".

8. Lap splices as specifically called for, but as least 36 bar diameters (18" min.).

9. Welded wire fabric must have end laps of one full mesh plus 2" and wiring all laps securely together. Welded wire fabric should extend into supporting beams and walls for anchorage.

10. All concrete slabs that are not otherwise provided for shall have reinforcing consisting of 6"x6"-W2.1x W2.1 welded wire fabric.

11. All reinforcing bars shall be securely wired together in the forms. Two-way mats of steel, column ties, and beam stirrups shall be tied sufficiently to hold them securely in place.

12. Provide keys of 2"x4" at all construction joints. Control joints in slab on grade shall be sawed 1-1/4" deep within 8 hours of pouring slab. Seal all joints with sealant.

13. All reinforcing shall have concrete cover as specified in ACI-318.

14. Design live loads for roofs and wind are in accordance with the "International Building Code", 2024 Edition. Loads for:
   2nd Floor live load - 40 psf, dead load -10 psf, partition load 15 psf
- Roof live load is 20 psf, Dead load is 20 psf, Snow load is 5psf

ULTIMATE WIND SPEED = 133 MPH
IW = 1.0
EXPOSURE CATEGORY = C

15. The contractor shall be responsible for the design, placement, and maintenance of any and all shoring, bracing, or tie-backs needed to support any part of the construction during the construction process. It is the contractor's responsibility to ensure the safety and integrity of the structure until the necessary permanent elements are in place.

STRUCTURAL NOTES:

1. Unless shown otherwise, the following loose lintel schedule shall be used.

Clear Spacing	Lintel angle for each 4" masonry thickness
' to 4'-0"	3-1/2"x 3-1/2x 1/4"
4'-1" to 6'-0"	4"x 3-1/2"x 3/8"
6'-1" to 8'-0"	5"x 3-1/2"x 3/8"
8'-1" to 10'-0"	6"x 3-1/2"x 3/8"
over 10'-0"	consult engineer

2. All wide flange beams and columns shall have a minimum yield strength of 50 ksi, and conform to ASTM A-992

3. All structural steel except as noted above shall conform ASTM specification A-36 or ASTM A-500, Grade B, as applicable.

4. No splices in structural steel shall be accepted without approval of the engineer except where shown on the drawings.

5. Bolts for structural steel shall be ASTM A-325-X high-strength bolts. Anchor bolts shall be ASTM F1554 unless otherwise noted.

6. All welding rods used shall be grade 70xx.

7. All structural steel shall be manufactured and erected in accordance with the Ninth Edition of the American Institute of Steel Construction Manual.

8. Where possible, all bolt holes shall be shop drilled. Holes made at the job site shall be mechanically drilled. No burning of holes will be allowed.

DESIGN

BUILDING CODE
INTERNATIONAL BUILDING CODE - 2024 EDITION

DESIGN CODES
ACI 318 - BUILDING REQUIREMENTS FOR REINFORCED CONCRETE

SOIL BEARING PRESSURE
ALLOWABLE BEARING PRESSURE 2000PSF

WIND LOADING NOTES
BUILDING RISK CATEGORY III
IMPORTANCE FACTOR I=1
ULTIMATE WIND SPEED 133 MILES PER HOUR
EXPOSURE CATEGORY C

SEISMIC NOTES
Ss= 16.0% S1=8.0%
Seismic Design Category B

Seismic Site Class D
Sms=0.22 Sm1=0.17
Sds= 0.14 Sd1=0.11

KEM STUDIO

ARCHITECT'S CONSULTANTS
MEP/FP: JASON GROSSI, jgrossi@ergms.com, 601.362.3552
STRUCTURAL: MIKE GODFREY, secondmoment@comcast.net, 601.845.1655
CIVIL ENGINEERING: SHELBY MURRAY, shelby@clearpointengineers.com, 601.261.2609
ELECTRICAL: CHRIS GREEN, cgreen@thepowersource.us, 601.605.4820
LANDSCAPE: AUSTIN LOVETT, austin.lovett@neel-schaffer.com, 601.545.1565
DEVELOPER: WALKER THRASH, walker@verikalco.com, 601.310.4402

USM -WESLEY
3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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NOTES

S0.1

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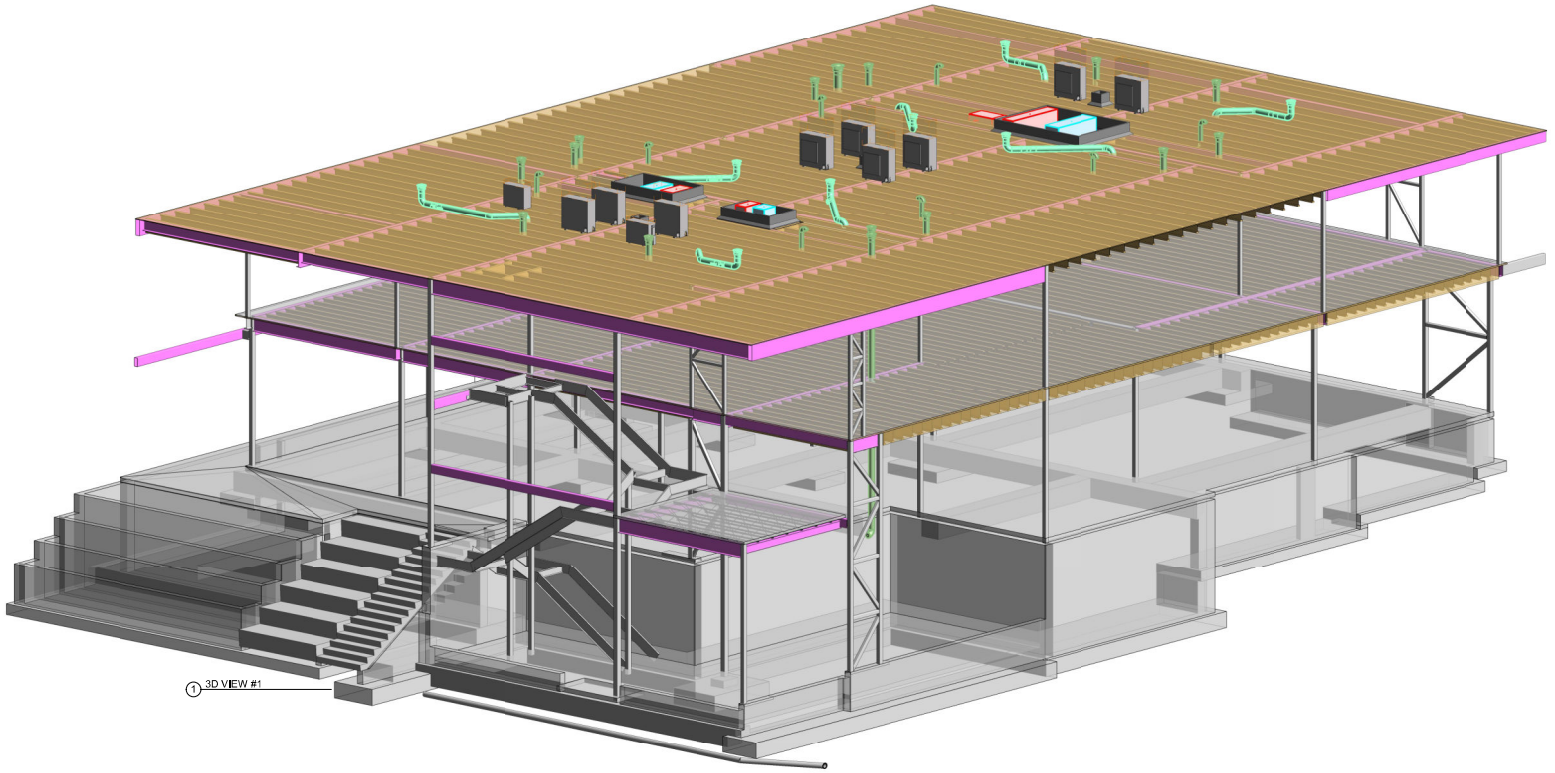

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@mgmv.com
601.202.0552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ukerpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@lepperconsultants.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ewl-studios.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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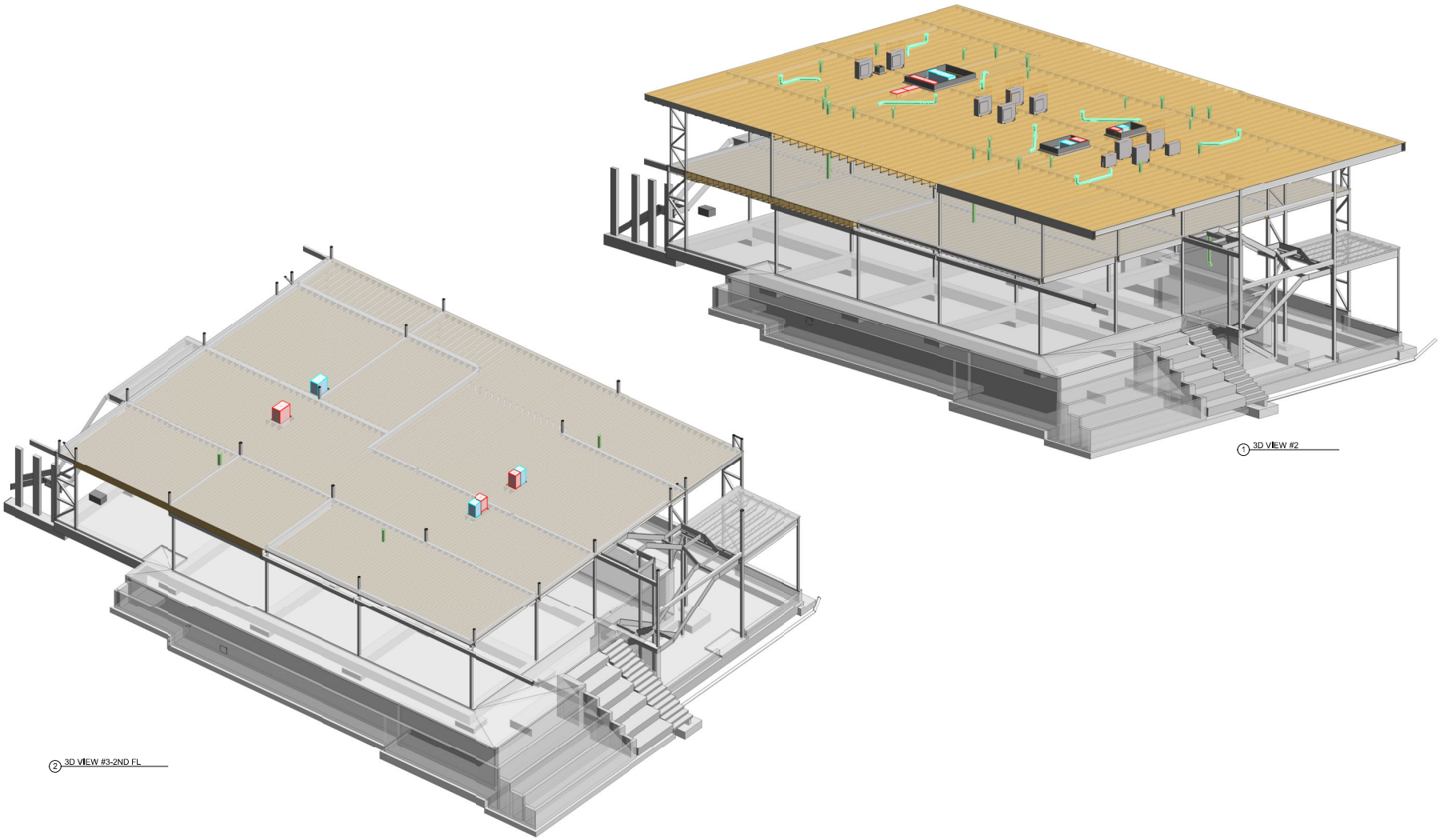
3D VIEWS

S0.2



1 3D VIEW #2

2 3D VIEW #3-2ND FL

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmv.com
601.262.0552

STRUCTURAL
MIKE DOFFREY
wmcintosmerit@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ukerpointengineers.com
601.261.2509

ELECTRICAL
CHRIS GREEN
cgreen@thepowersourcs.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ewl-studios.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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3D VIEWS

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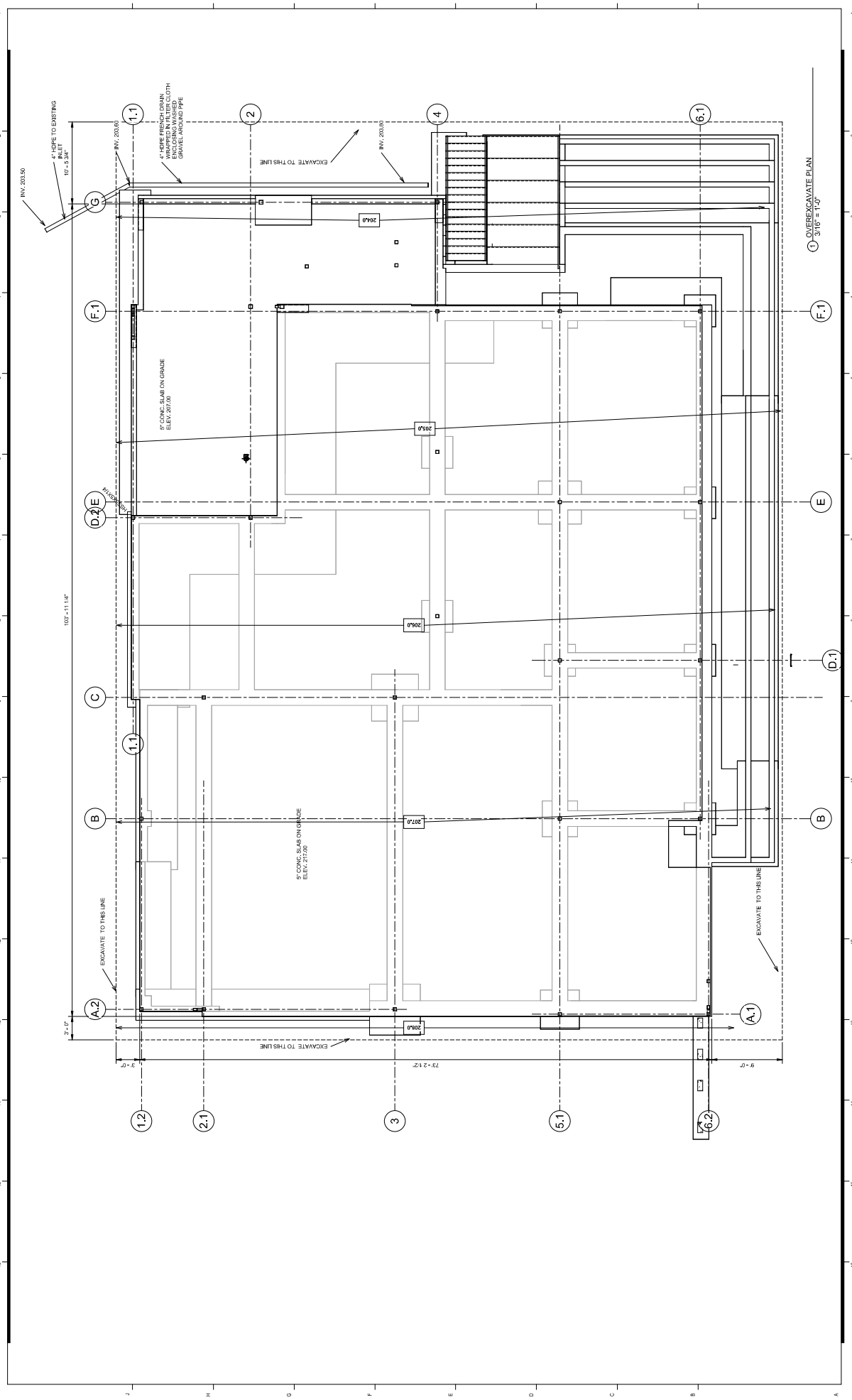
OVEREXCAVATION PLAN
S1.1
1 OVEREXCAVATE PLAN
3/16" = 1'-0"
4" HDPE TO EXISTING INLET
INV. 203.50
INV. 203.60
4" HDPE FRENCH DRAIN WRAPPED IN FILTER CLOTH EXCAVATE AND BACKFILL WITH GRAVEL AROUND PIPE
EXCAVATE TO THIS LINE
INV. 203.80
5" CONC. SLAB ON GRADE ELEV. 207.00
EXCAVATE TO THIS LINE
EXCAVATE TO THIS LINE
EXCAVATE TO THIS LINE
204.0
205.0
206.0
207.0
208.0
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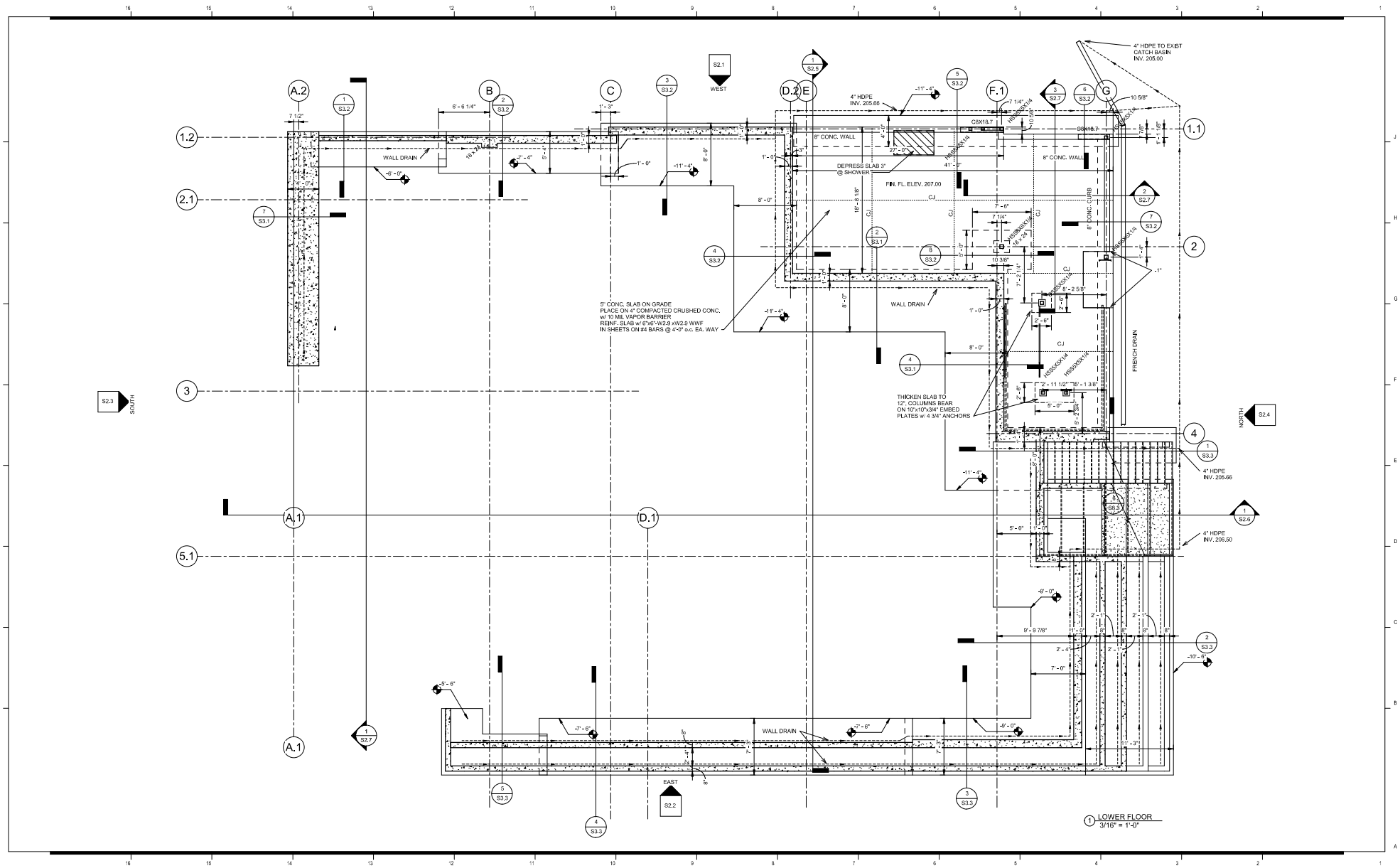

1 LOWER FLOOR
3/16" = 1'-0"

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@mgmtv.com
601.262.0552

STRUCTURAL
MIKE GODFREY
sconsteamer@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY BURNAY
shelby@sherpaengineers.com
601.261.2509

ELECTRICAL
CHRIS GREEN
cgreen@freepenersource.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ewi-studios.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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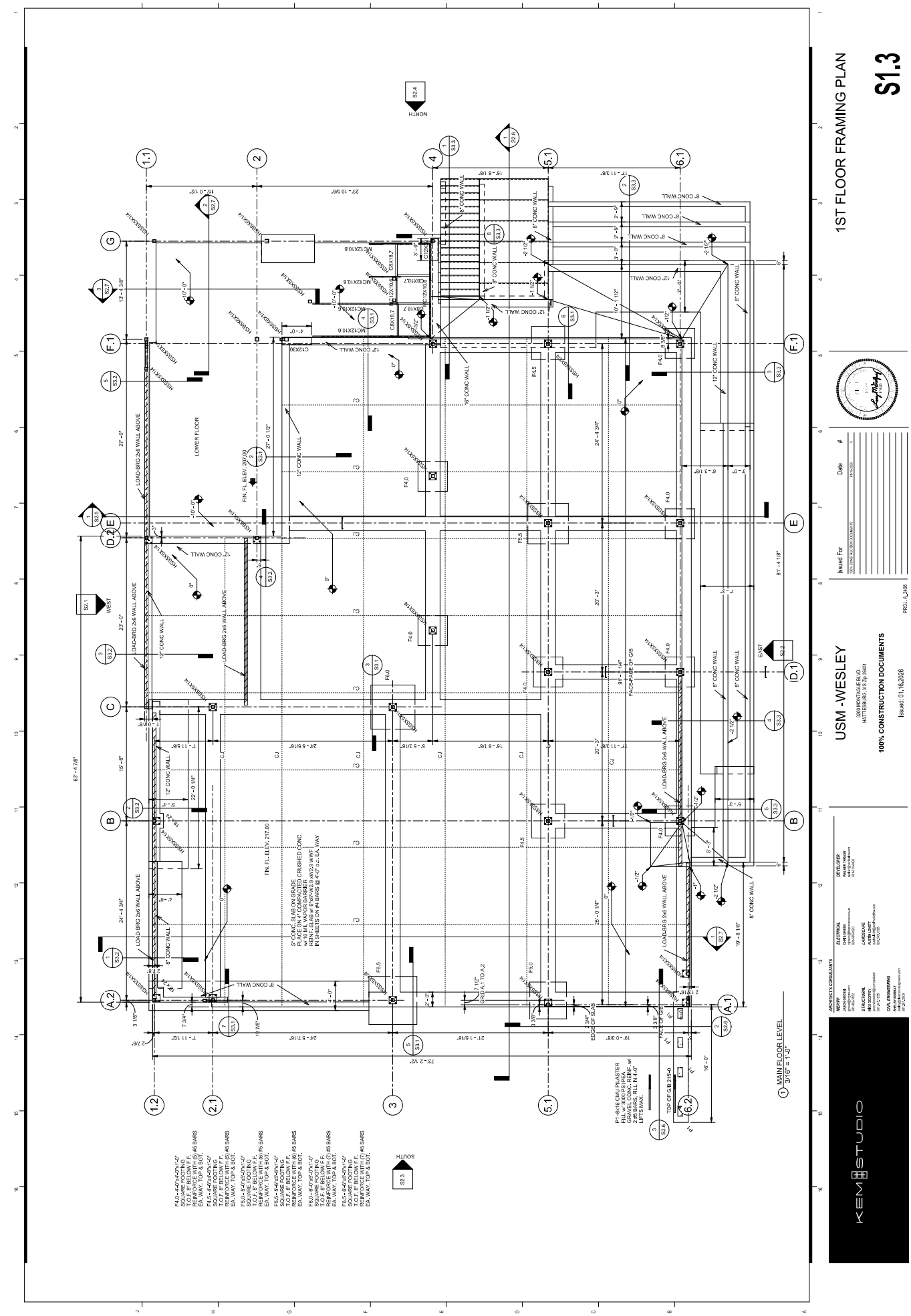
FOUNDATION PLAN -LOWER LEVEL

S1.2


1ST FLOOR FRAMING PLAN
S1.3
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MEP/FP
ELECTRICAL
DEVELOPER
STRUCTURAL
LANDSCAPE
CIVIL ENGINEERING
KEM STUDIO
MAIN FLOOR LEVEL
3/16" = 1'-0"
LOWER FLOOR
FIN. FL. ELEV. 207.00
FIN. FL. ELEV. 217.00
5" CONC. SLAB ON GRADE
PLACE ON 4" COMPACTED CRUSHED CONC.
w/ 10 MIL VAPOR BARRIER
REINFORCE WITH 6x6 - W2.9 x W2.9 WWF
IN SHEETS ON #4 BARS @ 4'-0" o.c. EA. WAY
LOAD-BRG 2x6 WALL ABOVE
12" CONC WALL
8" CONC WALL
16" CONC WALL
NORTH
SOUTH
EAST
WEST
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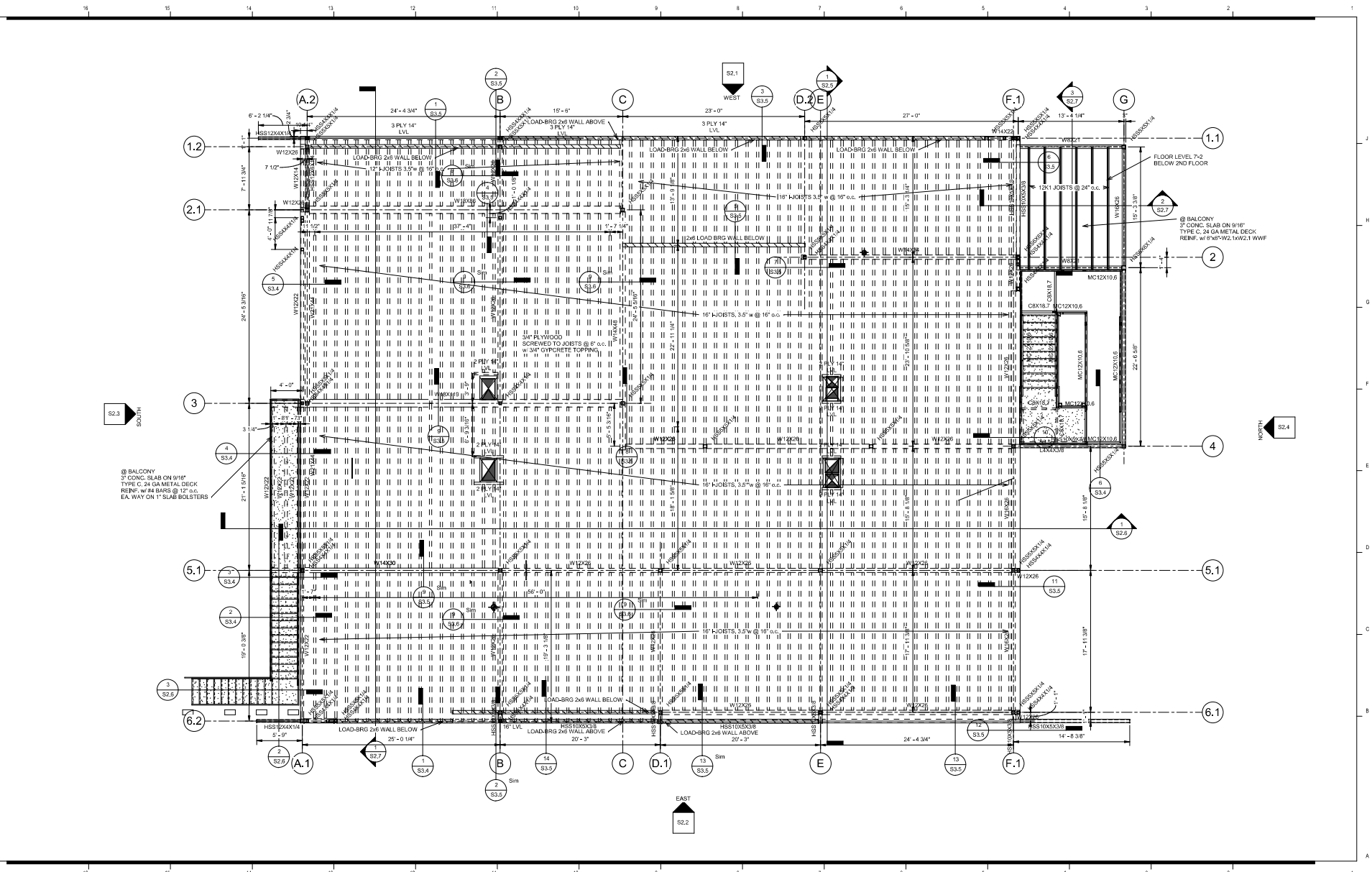

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2ND FLOOR

KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kgmpv.com
601.362.2752

STRUCTURAL
MIKE GODFREY
wmcelvenny@comcast.net
601.241.1109

CIVIL ENGINEERING
SHELBY BURRAY
sburray@dandsengineers.com
601.261.2009

ELECTRICAL
CHRIS GREEN
cgreen@bepowersource.us
BSJE45420

LANDSCAPE
AUSTIN LOVETT
austinlovett@live-outlook.com
BSLA5,1509

DEVELOPER
WALKER TWIGH
walker@vinhill.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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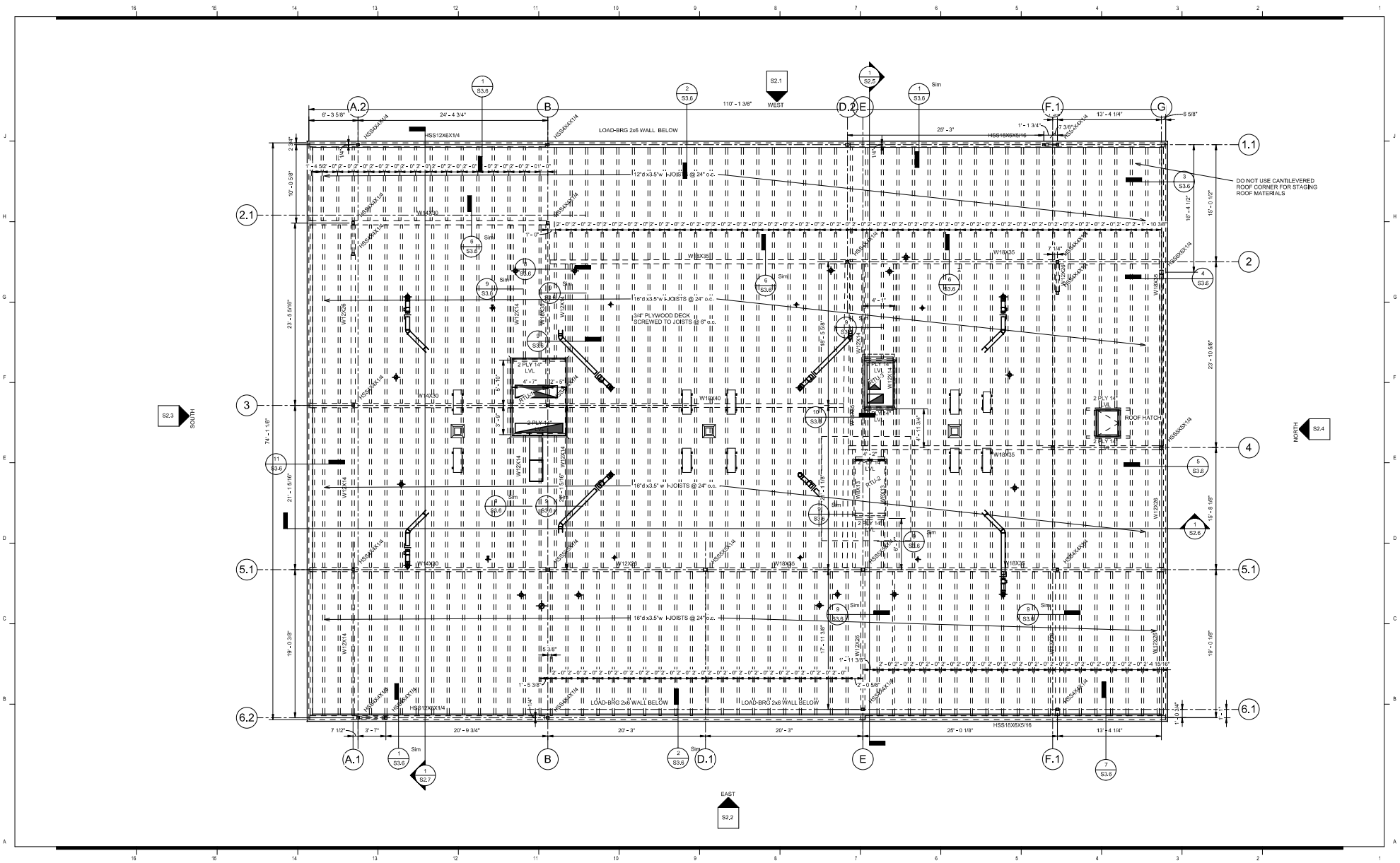
2ND FLOOR FRAMING PLAN

S1.4



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmrv.com
601.202.0552

STRUCTURAL
MIKE GOOFREY
mike.goofrey@comsatcent
601.245.1555

CIVIL ENGINEERING
SHELBY BURNAY
shelby@ukerpontengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@lepperconsultants.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ecoinstructions.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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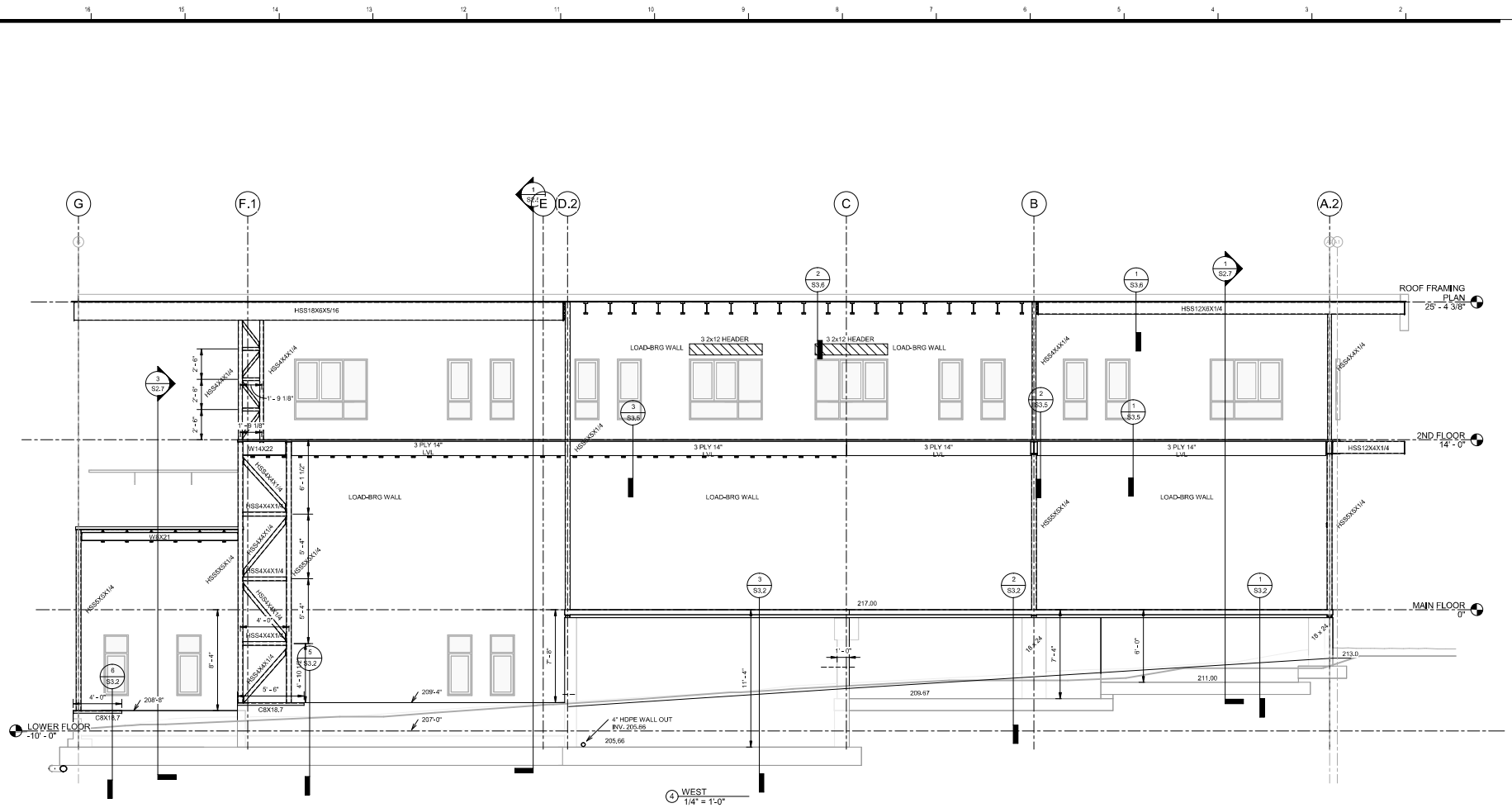
ROOF FRAMING PLAN

S1.5



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmcgrey.com
601.262.0552

STRUCTURAL
MIKE GODFREY
econstructure@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
smiley@ukerpontengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@kepmcgrey.com
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ukerpontengineers.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
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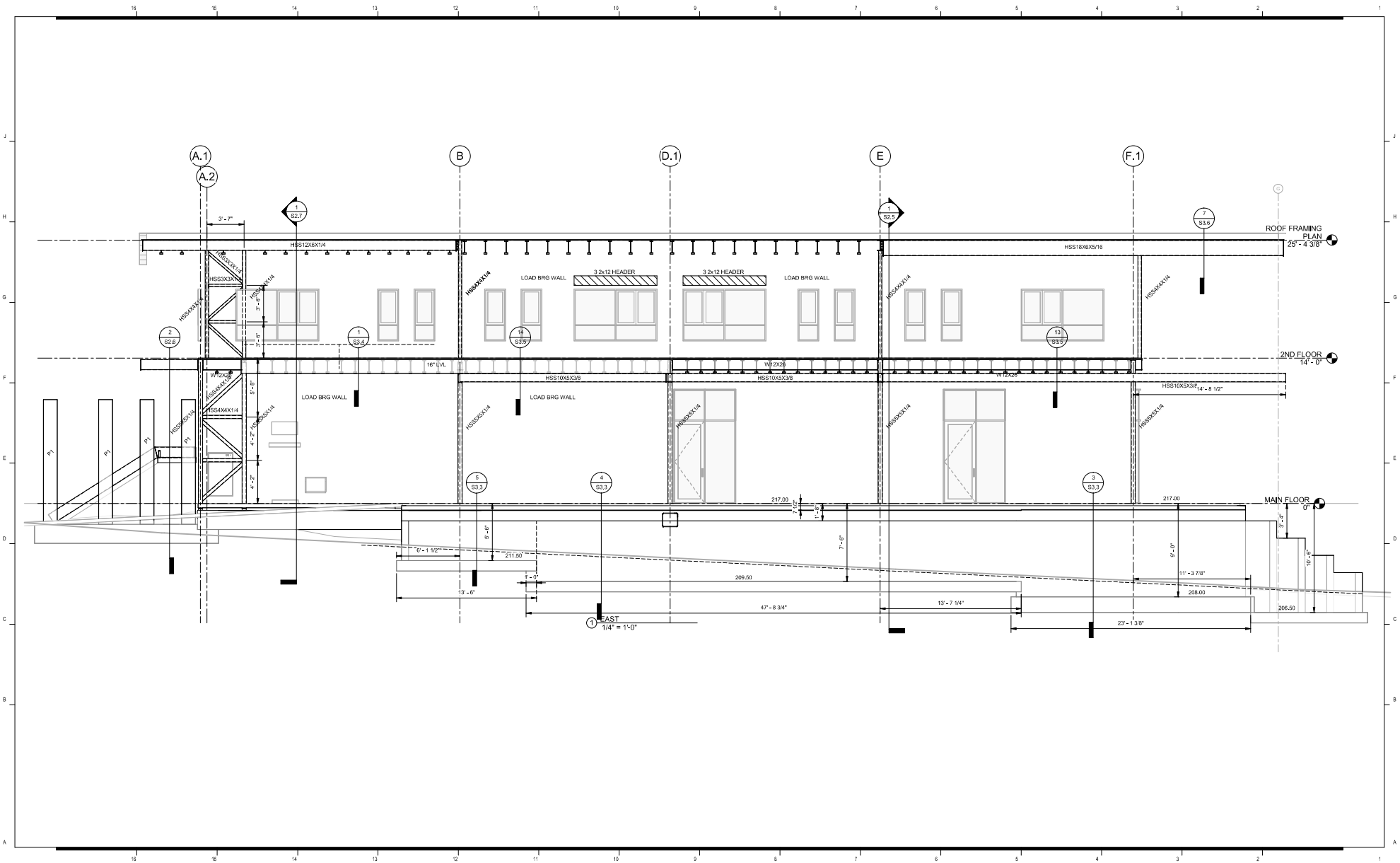
BUILDING ELEVATIONS

S2.1



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmrs.com
601.262.0552

STRUCTURAL
MIKE GOOFREY
mcoofrey@kemstudio.net
601.245.1555

CIVIL ENGINEERING
SHELBY BURNAY
shelby@kemstudio.net
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@kepmrs.com
601.582.4820

LANDSCAPE
AUSTIN LOVETT
austin.lovett@kemstudio.net
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikal.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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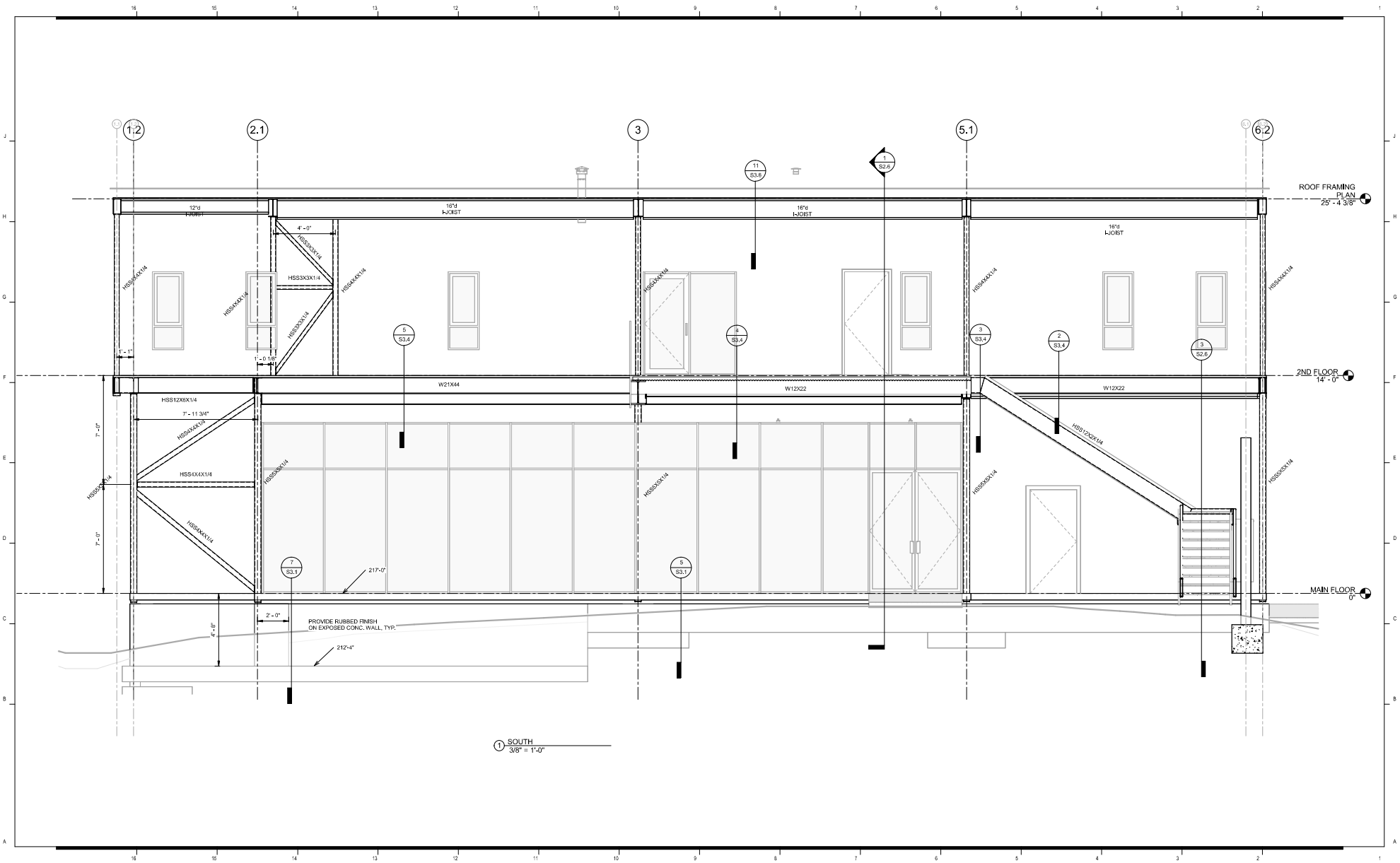
BUILDING ELEVATIONS

S2.2



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmrs.com
601.262.0552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ukerpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@kepmrs.com.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ecd-studios.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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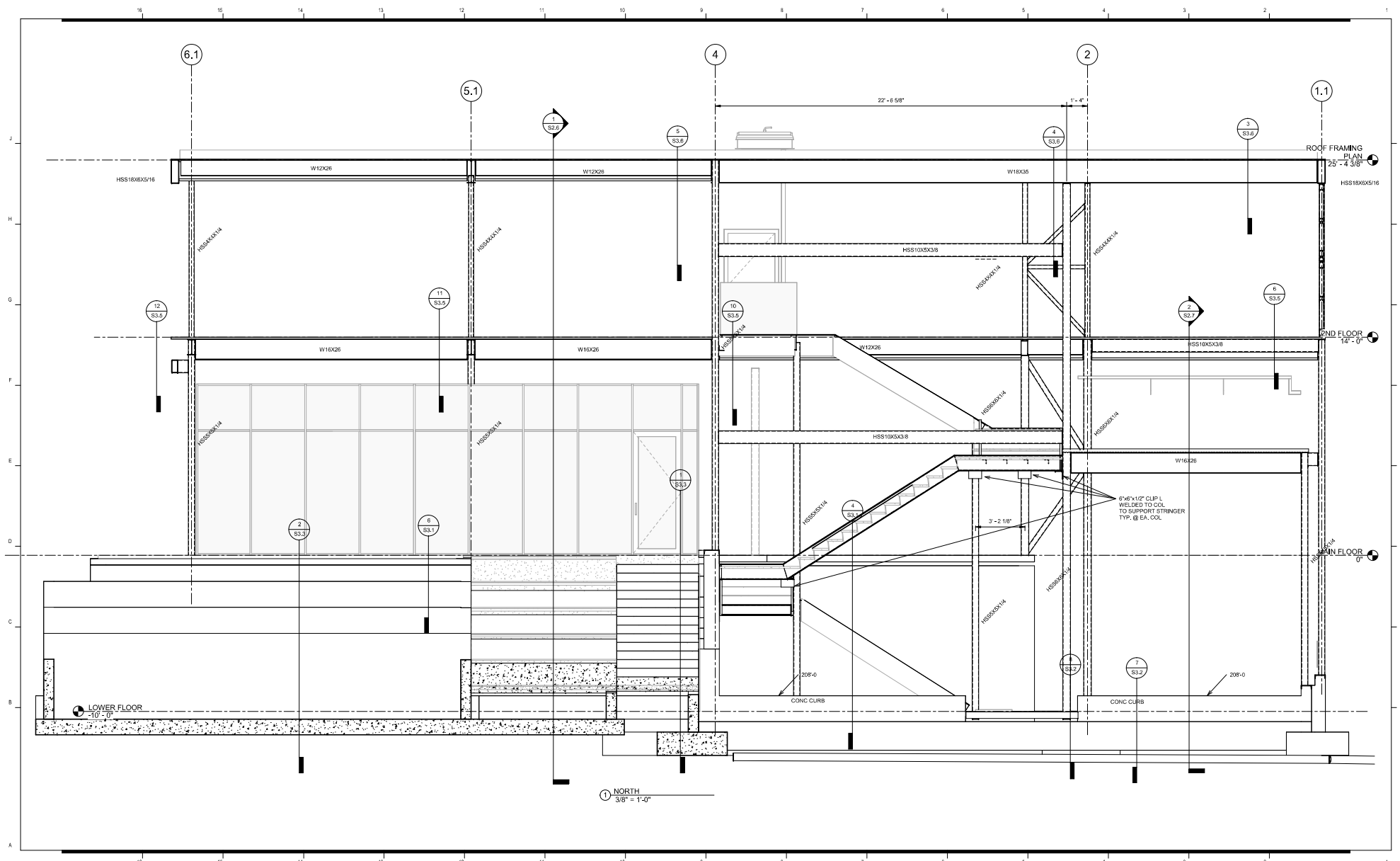
BUILDING ELEVATIONS

S2.3



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmcs.com
601.262.0552

STRUCTURAL
MIKE GODFREY
wcon@kepmcs@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ukerpenengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@kepmcs.com.us
601.582.4820

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ecoinstruction.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
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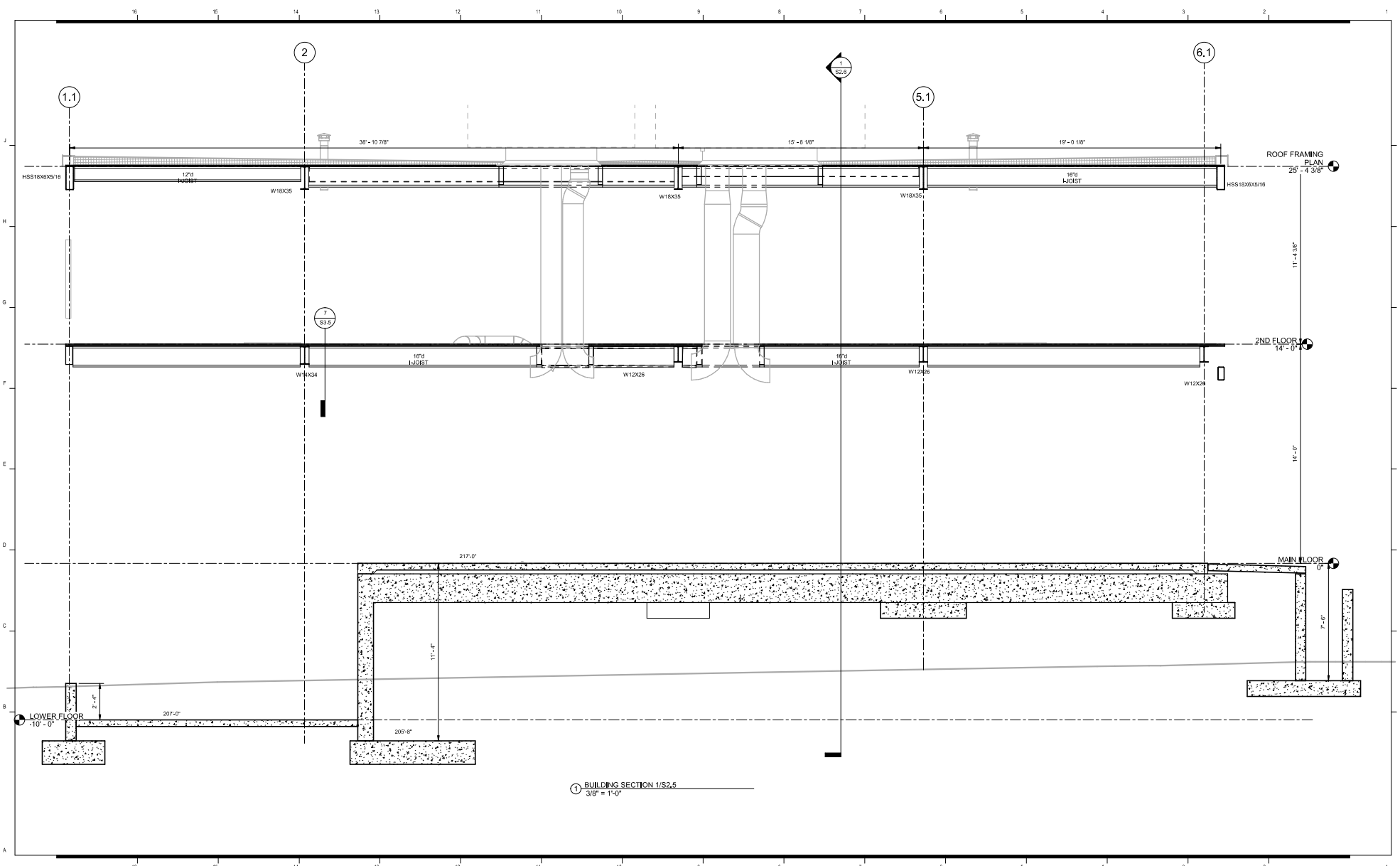
BUILDING ELEVATIONS

S2.4



1 BUILDING SECTION 1/S2.5
3/8" = 1'-0"

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kemstu.com
601.202.0552

STRUCTURAL
MIKE GOOFREY
wcoonsteamer@comcast.net
601.245.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ukerpontengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@freepenersourcs.us
601.582.4920

LANDSCAPE
AUSTIN LOVETT
austin.lovett@ecoinstructive.com
601.545.1585

DEVELOPER
WALKER THRASH
walker@vertikalcs.com
601.212.2402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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BUILDING SECTIONS

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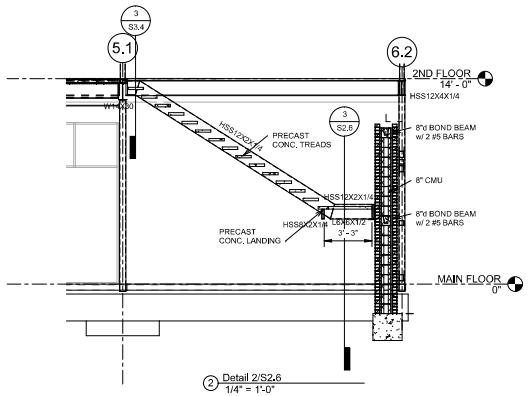
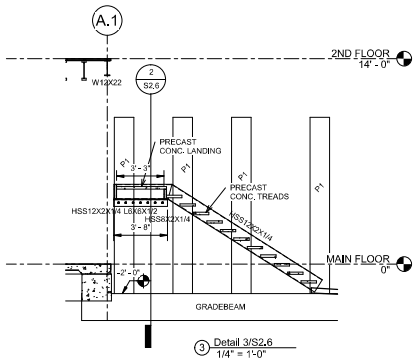
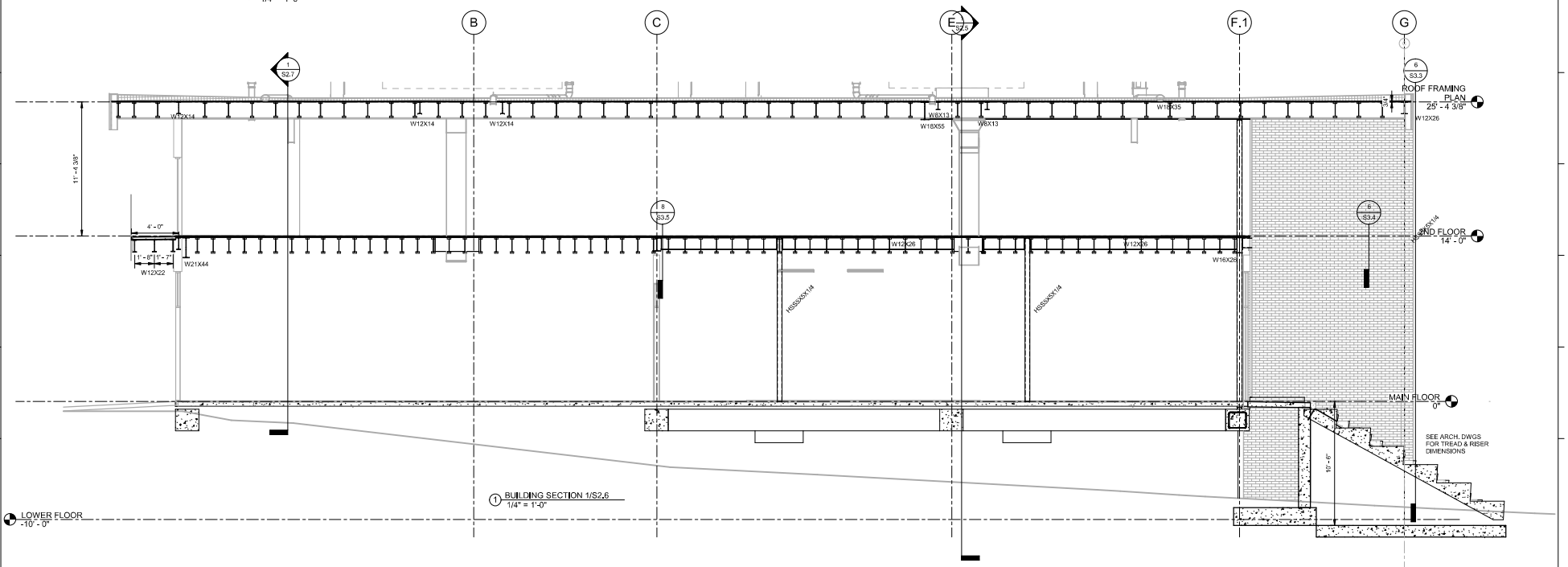


2 Detail 2/S2.6
1/4" = 1'-0"



3 Detail 3/S2.6
1/4" = 1'-0"



1 BUILDING SECTION 1/S2.6
1/4" = 1'-0"

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kgmpv.com
601.362.2252

STRUCTURAL
MIKE GODFREY
wmcelvenner@comcast.net
601.345.1709

CIVIL ENGINEERING
SHELBY BURRAY
shelby@sterlingengineers.com
601.261.2809

ELECTRICAL
CHRIS GREEN
cgreen@bayareasource.us
BAS/EMS/ED

LANDSCAPE
AUSTIN LOVETT
austin.lovett@landforms.com
BIG/HOUSE

DEVELOPER
WALKER TWASH
walker@vertikal.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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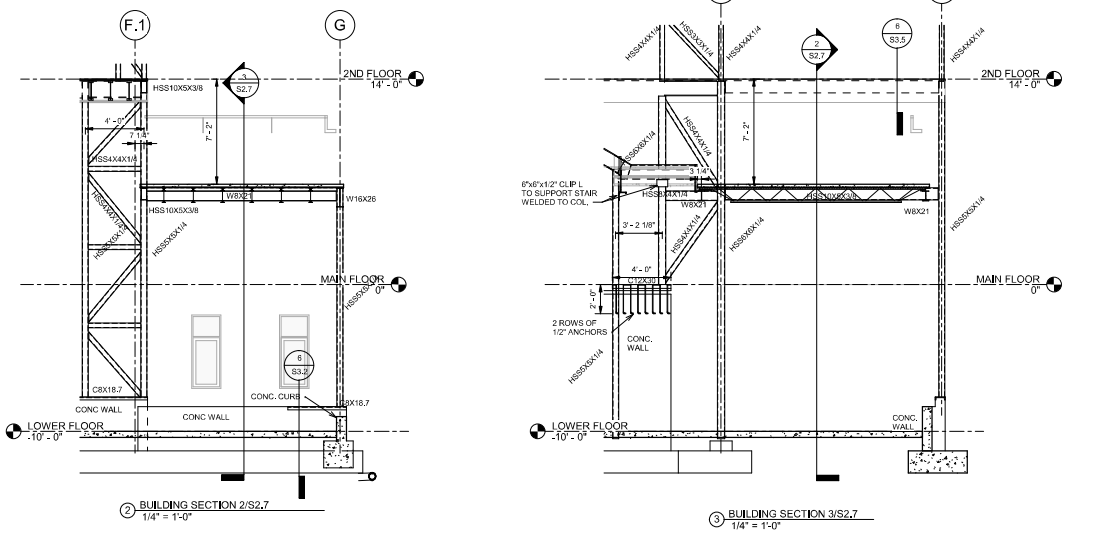
BUILDING SECTIONS

S2.6



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1/4" = 1'-0"

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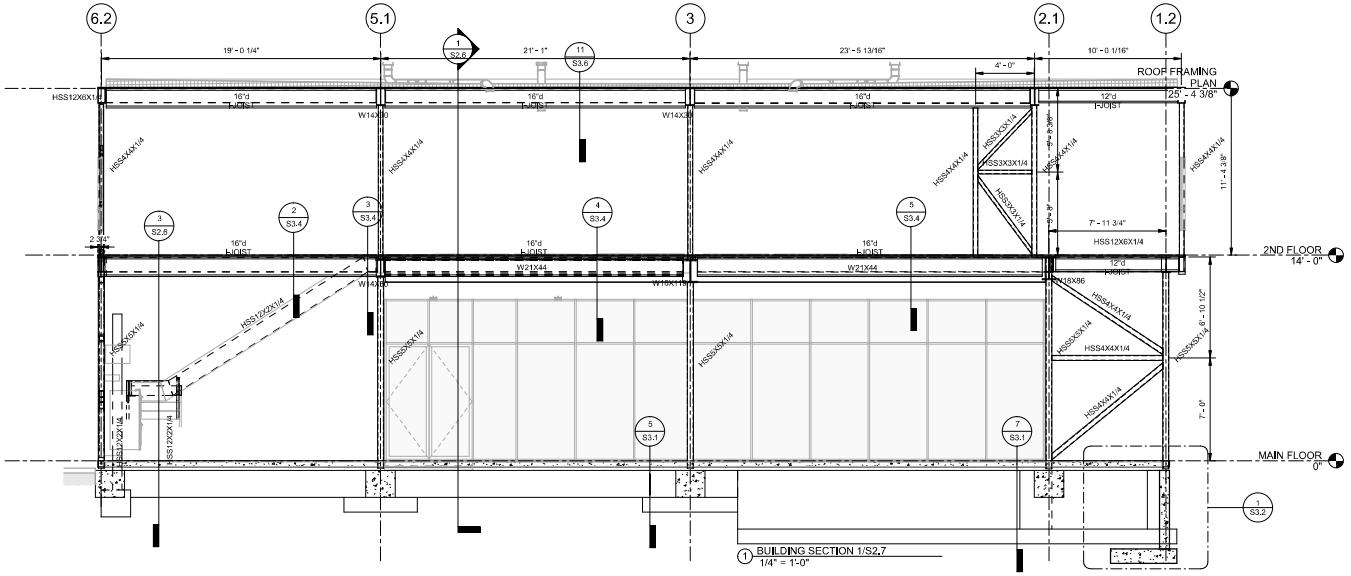
1/4" = 1'-0"



1 BUILDING SECTION 1/S2.7
1/4" = 1'-0"

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GRIGG
jgrigg@mgmv.com
601.362.2552

ELECTRICAL
CHRIS GREEN
cgreen@keystonesource.us
BAUER-KEY

DEVELOPER
WALKER TWASH
walker@wmbd.com
601.213.4402

STRUCTURAL
MIKE GODFREY
wmcstevens@comcast.net
601.241.1709

LANDSCAPE
AUSTIN LOVETT
austin.lovett@landsolutions.com
BAUER-KEY

CIVIL ENGINEERING
SHELBY BURRAY
shelby@dandcengineers.com
601.261.2009

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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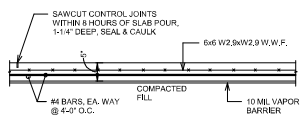

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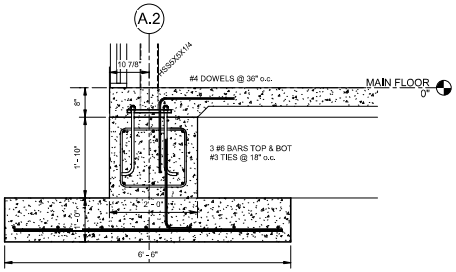

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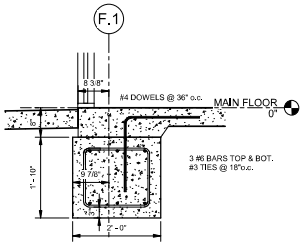

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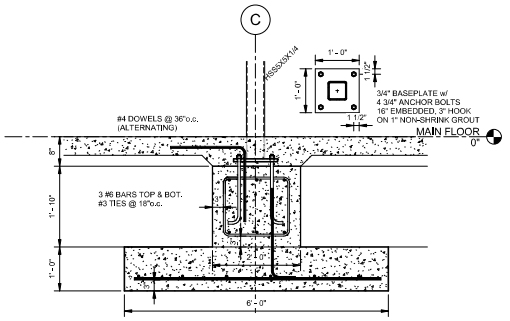

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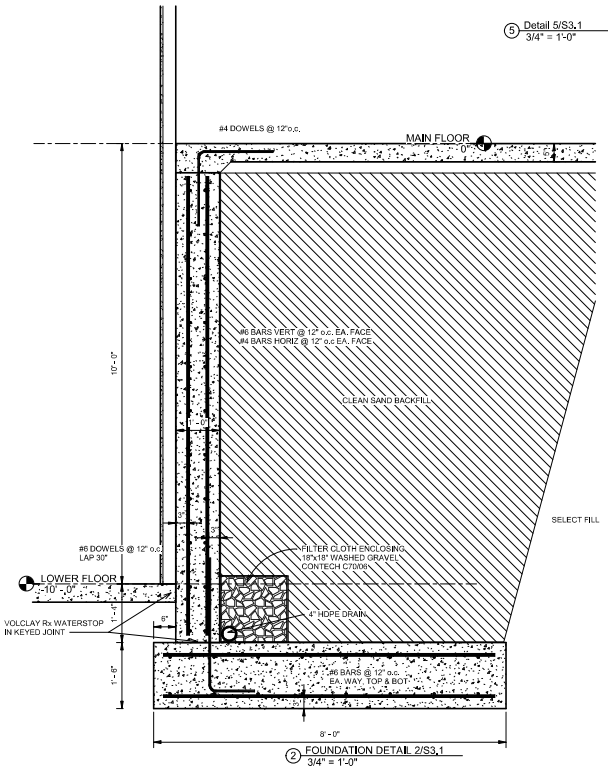

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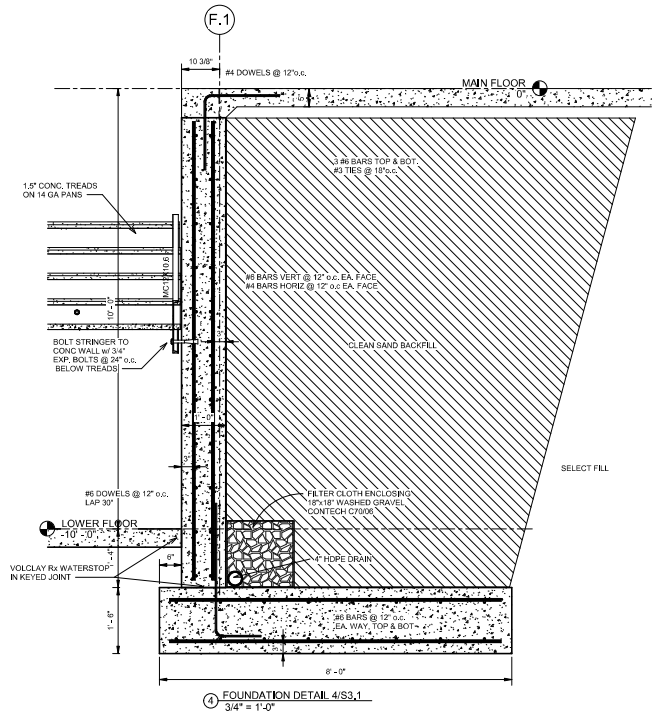

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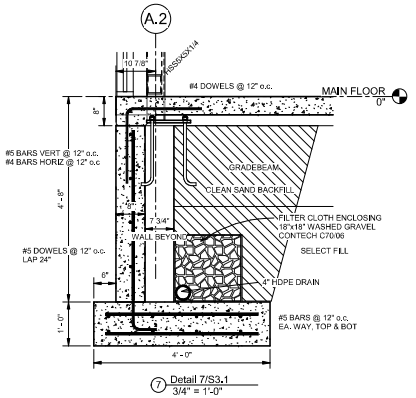

7 Detail 7/S3.1
3/4" = 1'-0"

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KEM STUDIO

ARCHITECT'S CONSULTANTS
MEP/FP
JASON GROSS
jgross@mgmv.com
601.982.0753
STRUCTURAL
MIKE GODFREY
www.wheimer@comcastnet
601.915.1705
CIVIL ENGINEERING
SHELBY BURRAY
shelby@lenardengineers.com
601.261.2009
ELECTRICAL
CHRIS GREEN
cgreen@lbpowersource.us
BIG/DEA/20
LANDSCAPE
AUSTIN LOVETT
austinlovett@landsflow.com
BIG/DEA/20
DEVELOPER
WALKER TARASH
walker@vertikal.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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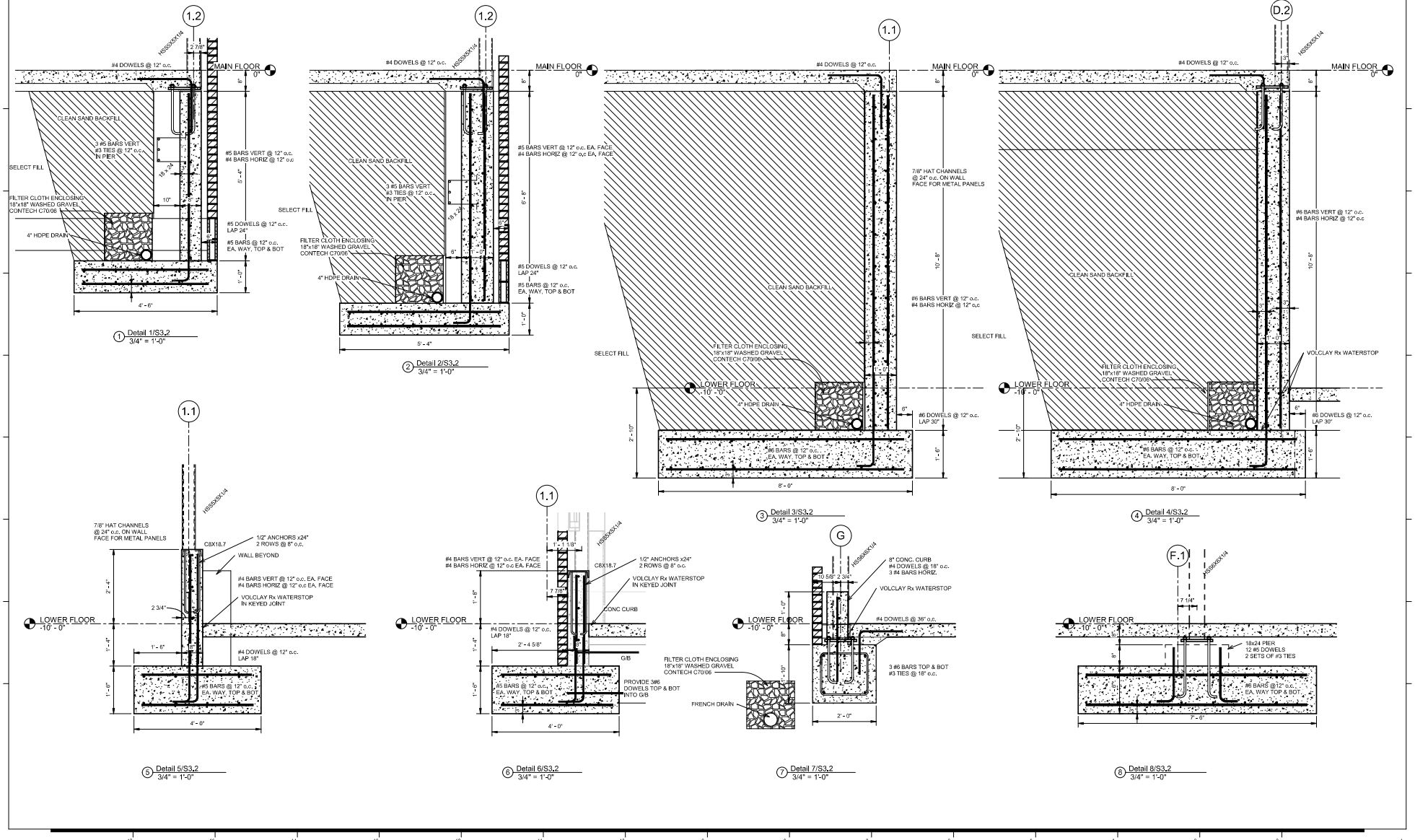
FOUNDATION DETAILS

S3.1



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kepmm.com
601.982.0753

STRUCTURAL
MIKE GODFREY
wmcstevens@comcast.net
601.345.1705

CIVIL ENGINEERING
SHELBY BURRAY
shelby@dierkerengineers.com
601.261.2009

ELECTRICAL
CHRIS GREEN
cgreen@keppermarsou.co.us
BOUS45403

LANDSCAPE
AUSTIN LOVETT
austinlovett@landsolutions.com
BOUS45.1555

DEVELOPER
WALKER TARASH
walker@vertikal.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
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FOUNDATION DETAILS

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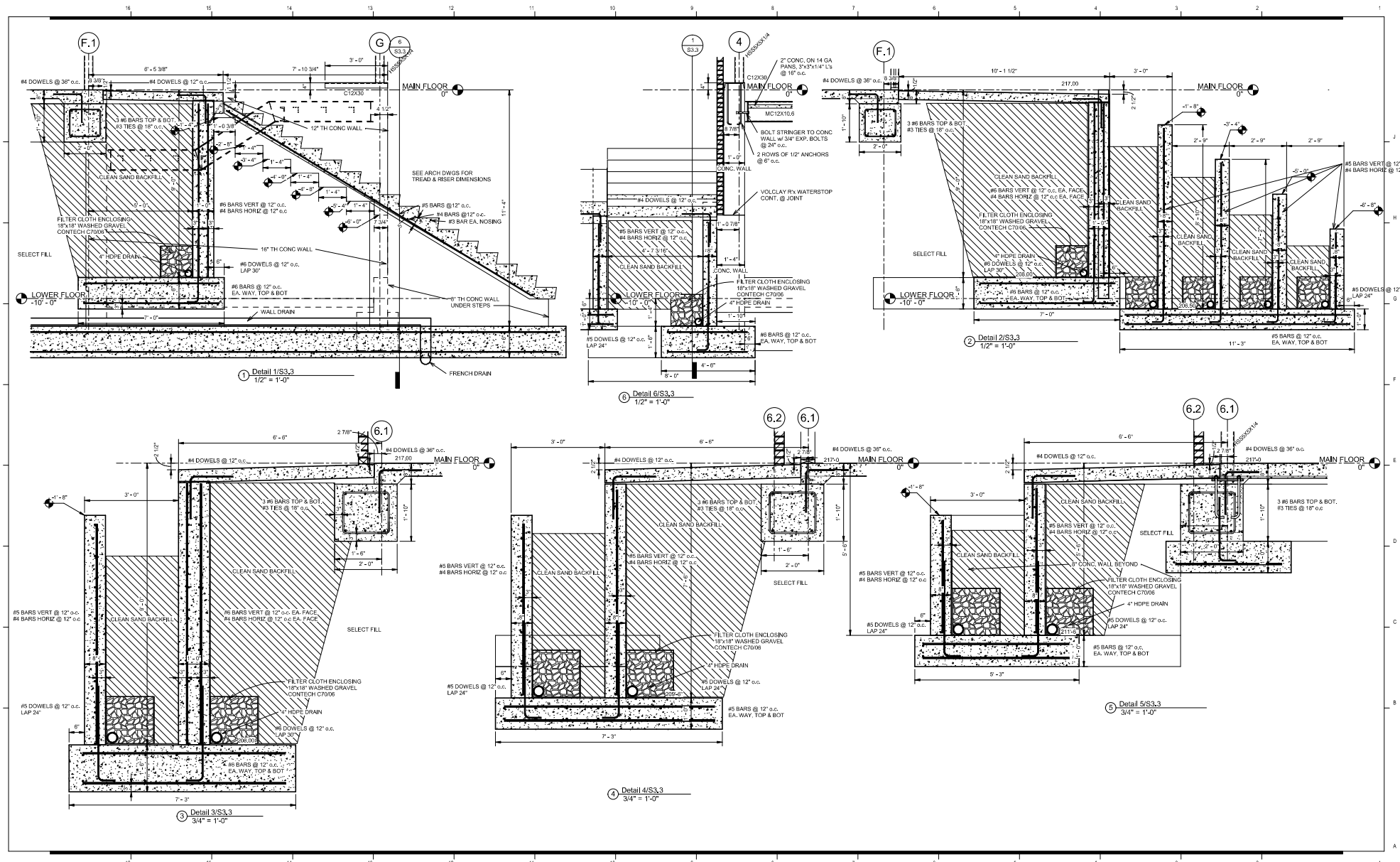

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@mepmw.com
601.982.0753

ELECTRICAL
CHRIS GREEN
cgreen@lbopowersource.us
601.954.4420

DEVELOPER
WALKER TARASH
walker@wmbk.com
601.213.4402

STRUCTURAL
MIKE GODFREY
www.wiseman@comcastnet
601.213.1705

LANDSCAPE
AUSTIN LOVETT
austinlovett@outlook.com
843.345.1565

CIVIL ENGINEERING
SHELBY BURRAY
shelby@alliancengineers.com
601.261.2009

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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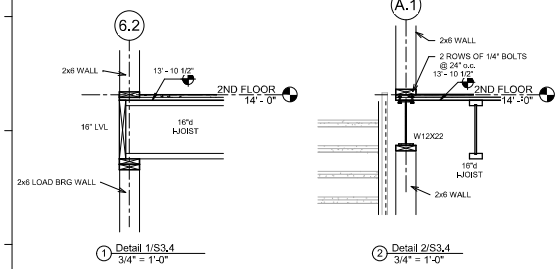
FOUNDATION DETAILS

S3.3



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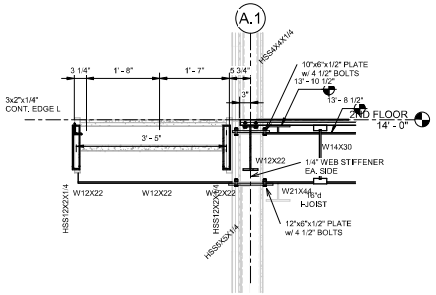

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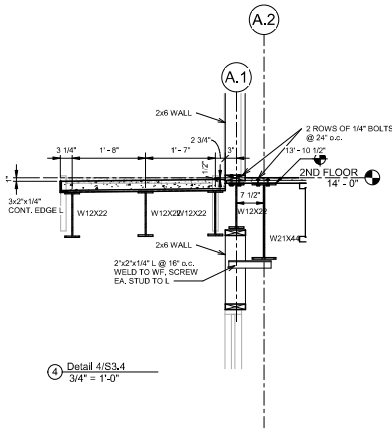

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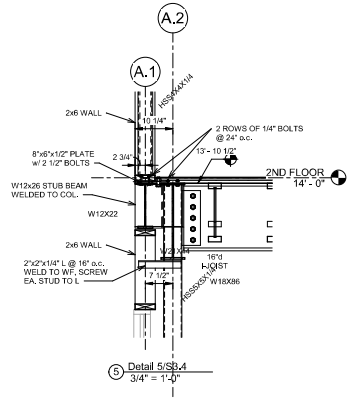

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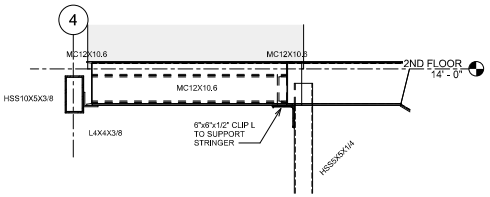

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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@kgmpe.com
601.982.0753

STRUCTURAL
MIKE GODFREY
www.wisemen@comcast.net
601.941.1109

CIVIL ENGINEERING
SHELBY BURRAY
shelby@sandersengineers.com
601.261.2809

ELECTRICAL
CHRIS GREEN
cgreen@bayareasource.us
BAS/EMS/ED

LANDSCAPE
AUSTIN LOVETT
austin.lovett@landstudios.com
BAS/EMS/ED

DEVELOPER
WALKER TWIGHT
walker@wmtwight.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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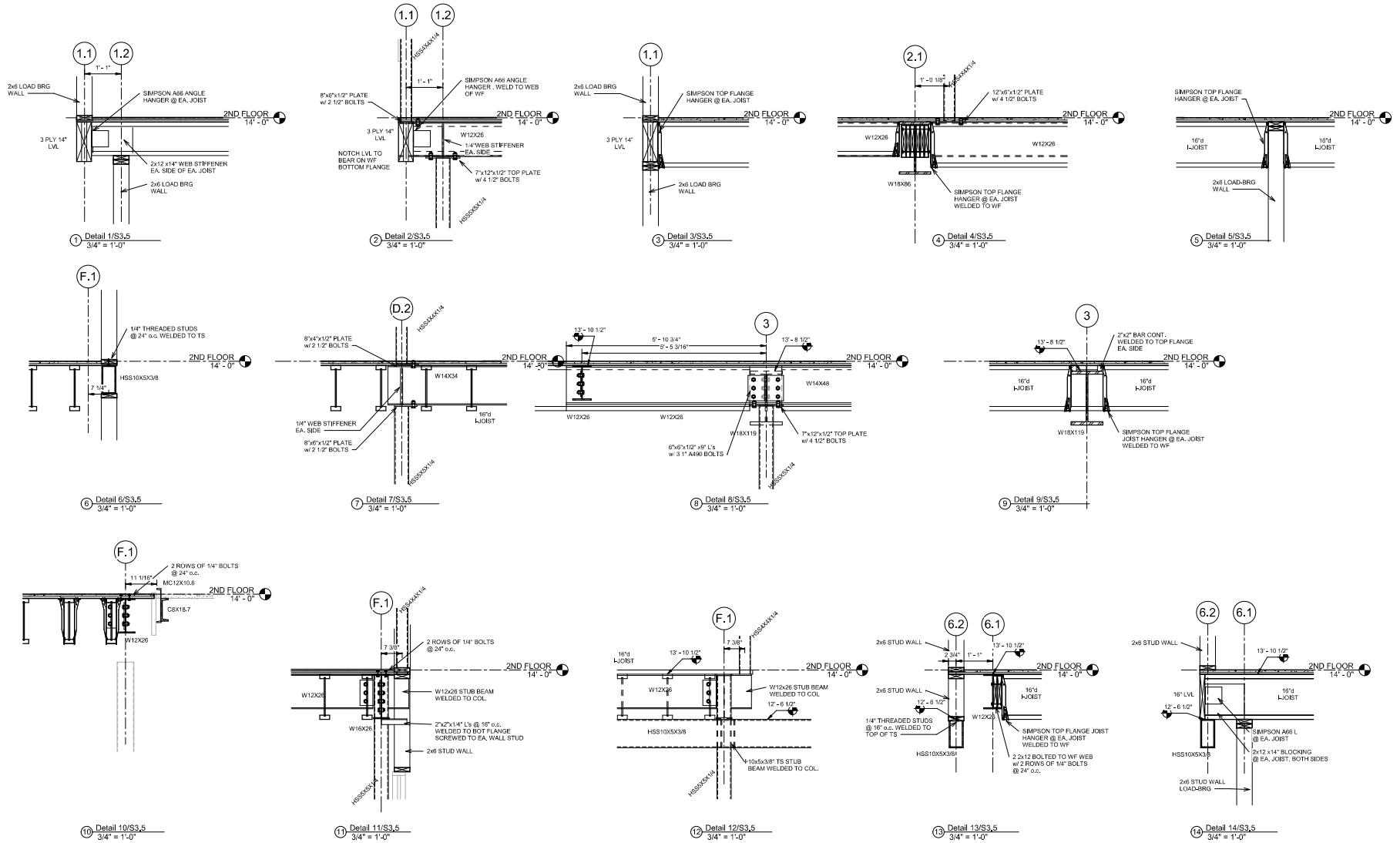
DETAILS

S3.4



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5 Detail 5/S3.5 3/4" = 1'-0"
6 Detail 6/S3.5 3/4" = 1'-0"
7 Detail 7/S3.5 3/4" = 1'-0"
8 Detail 8/S3.5 3/4" = 1'-0"
9 Detail 9/S3.5 3/4" = 1'-0"
10 Detail 10/S3.5 3/4" = 1'-0"
11 Detail 11/S3.5 3/4" = 1'-0"
12 Detail 12/S3.5 3/4" = 1'-0"
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KEM STUDIO

ARCHITECT'S CONSULTANTS
MEP/FP
JASON GROSS
jgross@kgmv.com
601.362.2252
STRUCTURAL
MIKE GODFREY
mmcelveen@comeaswell.com
601.213.1109
CIVIL ENGINEERING
SHELBY BURRAY
shelby@stantecengineers.com
601.261.2009
ELECTRICAL
CHAS GREEN
cgreen@bayareasource.us
BAS/EA/23
LANDSCAPE
AUSTIN LOVETT
austinlovett@att-hotbox.com
BAS/EA/1569
DEVELOPER
WALKER TARAH
walker@wmbk.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

100% CONSTRUCTION DOCUMENTS

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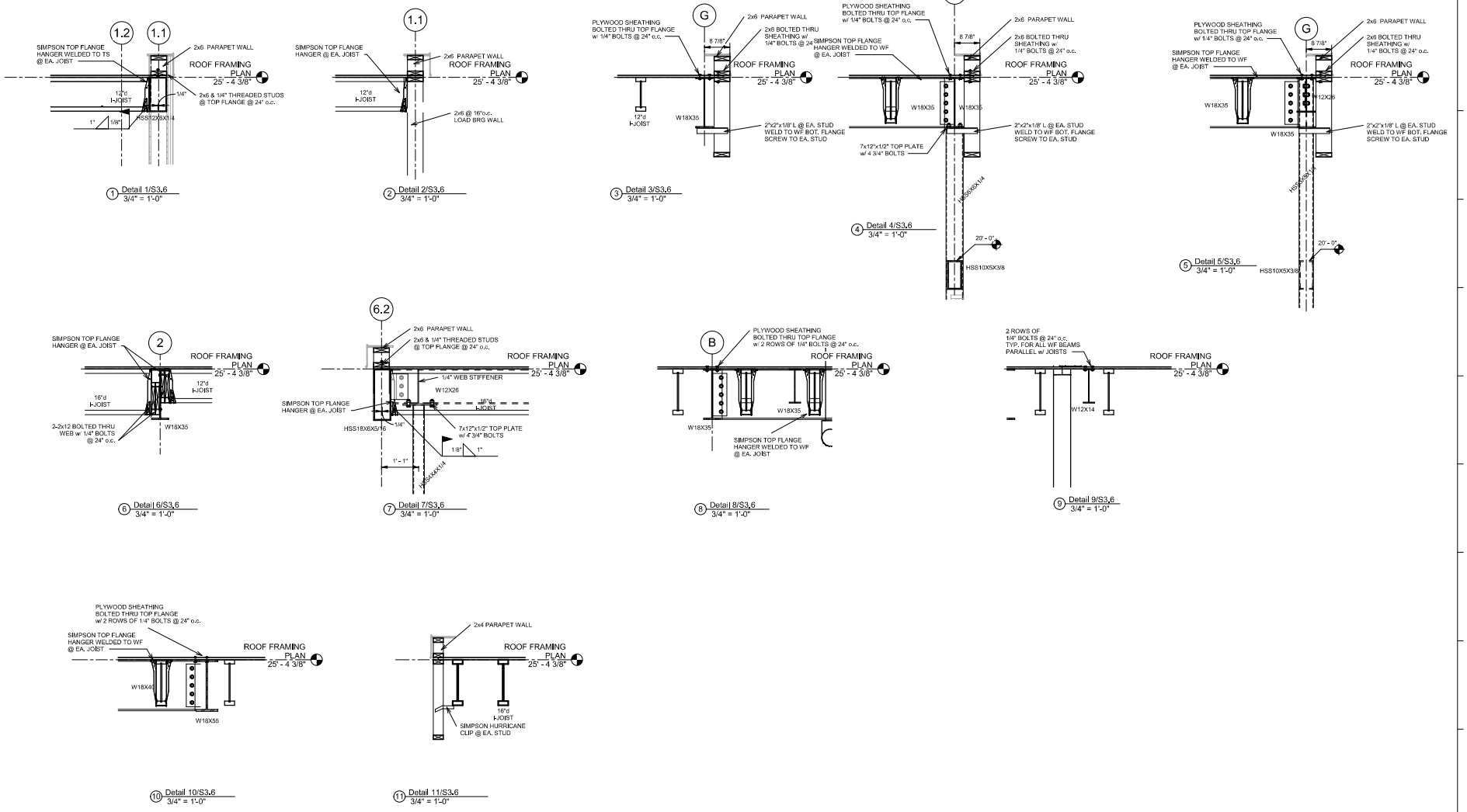
2ND FLOOR DETAILS

S3.5



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KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSS
jgross@mgmv.com
601.362.2252

STRUCTURAL
MIKE GODFREY
wmcelvenny@comcast.net
601.941.1705

CIVIL ENGINEERING
SHELBY BURRAY
shelby@deanengineers.com
601.261.2009

ELECTRICAL
CHRIS GREEN
cgreen@lbopowersource.co.us
BUS:985-4333

LANDSCAPE
AUSTIN LOVETT
austinlovett@landoftrees.com
BUS:545-7555

DEVELOPER
WALKER THRASH
walker@vinhill.com
601.213.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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ROOF DETAILS

S3.6

SECTION 03 10 00 - CONCRETE FORM WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections apply to work specified in this section.

1.2 DESCRIPTION OF WORK:

A. Formwork for cast-in-place concrete with shoring, bracing and anchorage. Form accessories and stripping forms.

1.3 QUALITY ASSURANCE:

A. Codes and Standards: Comply with provisions of following codes, specifications and standards, except where more stringent requirements are shown or specified:

1. ACI 301 "Specifications for Structural Concrete for Buildings".

2. ACI 347 "Recommended Practice for Concrete Formwork".

3. PS 1 "Construction and Industrial Plywood"

B. Design, engineer, and construct formwork, shoring, and bracing to meet design and code requirements, so that resultant concrete conforms to required shapes, lines and dimensions.

C. The design and engineering of the formwork, as well as its construction, shall be the responsibility of the General Contractor and in accordance with ACI 301 and ACI 347.

D. Design formwork for loads, lateral pressures, and allowable stresses outlined in Section 102 and 103 of ACI-347. Recommended Practices for Concrete Formwork and wind loads so specified by the governing building code.

PART 2 - Forms shall conform to the shapes, lines, and dimensions of the members as called for on the plans, and shall be constructed as to ensure that the concrete surfaces will conform to the tolerances of ACI-347, Section 203.1.

PART 3 - PRODUCTS

PART 4 - FORM MATERIALS:

A. Lumber: Southern Yellow Pine species; #2 S4S grade with grade stamp clearly visible. Use only on unexposed surfaces.

5.4 REMOVAL OF FORMS:

A. Formwork not supporting weight of concrete, such as sides of beams, walls, columns, and similar parts of the work, may be removed after cumulatively curing at not less than 50 degrees F. (10 degrees C.) for twenty-four hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operations, and provided curing and protection operations are maintained.

5.5 RE-USE OF FORMS:

A. Clean and repair surfaces of forms to be reused in work. Split, frayed, delaminated or otherwise damaged form facing material will not be acceptable for exposed surfaces. Apply new form coating compound as specified for new formwork.

B. When forms are extended for successive concrete placement, thoroughly clean surfaces, remove fins and laitance, and tighten forms to close joints. Align and secure joint to avoid offsets. Do not use "patched" forms for exposed concrete surfaces, except as acceptable to Architect.

END OF SECTION

SECTION 031500 - CONCRETE ACCESSORIES

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope:
1. CONTRACTOR shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish and install concrete accessories.
2. The types of concrete accessories required include the following:
a. Construction joints.
b. Expansion joints and fillers.
c. Control joints.

B. General: All joints subject to hydrostatic pressure shall be provided with continuous water stop.

C. Related Work Specified Elsewhere:

1. Section 033001 - Concrete Formwork.

1.2 QUALITY ASSURANCE

A. Reference Standards: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
1. ACI 301, Specifications for Structural Concrete for Buildings, Chapter 6, Joints and Embedded Items.
2. ASTM A 36, Structural Steel.
3. ASTM D 1752, Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction.
4. ASTM B 164, Nickel-Copper Alloy Rod and Bar.

B. All manufactured items shall be installed in accordance with manufacturer's instructions.

1.3 SUBMITTALS

A. Samples: Submit for approval the following samples:
1. Cork expansion joint fillers.
2. Multipolymer plastic bearing strips.

B. Shop Drawings: Submit for approval the following:
1. Manufacturer's specifications and installation instructions for all materials required.
2. Layout of all construction joint locations prior to the submittal of steel reinforcing drawings.

D. Vertical Joints:

1. Apply roughener to the form in a thin, even film by brush, spray or roller in accordance with the manufacturer's instructions. After roughener is dry, concrete may be placed.

2. When concrete has been placed and the form removed, wash loosened material off with high pressure water spray to obtain roughened surface subject to approval by ENGINEER.

E. Place two layers of 1/8 inch thick bearing strips on concrete bearing surface prior to placing concrete slab to provide sliding bearing as shown.

3.3 EXPANSION JOINTS

A. Comply with ACI 301, Chapter 6, and as specified below.

B. Locate and install expansion joints as shown. Install cork filler in accordance with manufacturer's instructions.

3.4 BONDING WITH EPOXY ADHESIVE

A. Use adhesive for the following:
1. Bonding of fresh concrete to concrete cured at least 28 days or to existing concrete.
2. Bonding of horizontal construction joints where these are required by the Drawings or approved by ENGINEER for foundation mats that are five feet thick or greater.

B. Handle and store epoxy adhesive in compliance with the manufacturers printed instructions, including safety precautions.

C. Mix the epoxy adhesive in complete accordance with the instructions of the manufacturer.

D. Before placing fresh concrete, thoroughly roughen and clean hardened concrete surfaces and coat with epoxy grout not less than 1/16-inch thick. Place fresh concrete while the epoxy material is still tacky, without removing the in-place grout coat, and as directed by the epoxy manufacturer.

3.5 WATERSTOPS

A. Install waterstops for all joints indicated on the Drawings. Waterstops shall be continuous around all corners and intersections so that a continuous, water-tight seal is provided.

END OF SECTION

PART 2 - PRODUCTS

2.1 PREMOLDED EXPANSION JOINT FILLER

A. Premolded joint filler (PJF) for interior expansion joints shall be self-expanding cork consisting of preformed strips that have been formed from clean granulated cork particles securely bound together by a synthetic resin of an insoluble nature. The PJF shall be capable of expanding 140 percent of its original thickness, which shall be 3/4-inch unless shown otherwise on the Drawings. The PJF shall meet the specification requirements of the latest revision of Corps of Engineers' Specification CRD-C 509, Type III and ASTM D 1752 Type III. Manufacturers meeting the specification requirements are: Sealtight Products by W.R. Meadows, Inc., P.O. Box 543, Elgin, IL 60120, (312) 683-4500 and Tex-Mastic Products by J & P Petroleum Products, Inc., P.O. Box 4206, Dallas, TX 75208, (214) 331-5401. Other products shall not be used without prior review and acceptance by the Engineer.

B. Premolded joint filler (PJF) for exterior expansion joints between concrete slabs and structural walls, where specifically shown on the Drawings shall be asphalt impregnated fiber board conforming to the latest revision of ASTM D 1751. Thickness of the PJF shall be 3/4-inch unless otherwise shown on the Drawings. Manufacturers meeting the specification requirements are: Sealtight Products by W.R. Meadows, Inc., P.O. Box 543, Elgin, IL 60120, (312) 683-4500 and Tex-Mastic Products by J & P Petroleum Products, Inc., P.O. Box 4206, Dallas, TX 75208, (214) 331-5401. Other products shall not be used without prior review and acceptance by the Engineer.

2.2 CONCRETE CONSTRUCTION JOINT ROUGHENER

A. Provide a water-soluble non-flammable, surface-retardant roughener.

B. Product and Manufacturer: Provide one of the following:
1. Rugasol-S by Sika Chemical Corporation, for horizontal joints only.
2. EAC-S by Preco Industries, Ltd., for horizontal joints only.
3. Tuf-Cote (Deep Etch) by Preco Industries Ltd., for vertical joints.
4. Or equal.

2.4 EPOXY BONDING AGENT

A. Provide an epoxy-resin bonding agent, two component, polyamide type.

B. Product and Manufacturer: Provide one of the following:
1. Sikadur Hi-Mod by Sika Chemical Corporation
2. Epoxtite Binder (Code #2390) by A.C. Horn, Inc.
3. Or equal.

2.5 PREFORMED BEARING STRIPS

A. Provide a multipolymer plastic bearing strip with a coefficient of friction less than .01. Bearing strip to be 1/8 inch thick by nine inches wide.

B. Product and Manufacturer:
1. Korolath bearing strips by Koro Corporation.
2. Or equal.

2. Reinforced Foundation Systems: Not less than 3" and not more than 5".

3. Slab: Not less than 4" nor more than 5".

4. Other Concrete: Not less than 4" and not more than 5".

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSSI
jgrossi@ergms.com
601,362,3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601,605,4820

DEVELOPER
WALKER THRASH
walker@verikalco.com
601,310,4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601,845,1655

LANDSCAPE
AUSTIN LOVETT
austin.lovett@neel-schaffer.com
601,545,1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601,261,2609

KEM STUDIO

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01,16,2026

PROJ. A_2406

Issued For	Date	#
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SPECIFICATIONS

S4.1

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SECTION 05 1200 - STRUCTURAL STEEL FRAMING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Structural steel framing members, support members

B. Base plates.

C. Grouting under base plates.

1.02 RELATED REQUIREMENTS

A. Section 05 5000 - Metal Fabrications: Steel fabrications affecting structural steel work.

B. Section 07 8100 - Applied Fireproofing: Fireproof protection to framing.

1.03 REFERENCE STANDARDS

A. AISC (MAN) - Steel Construction Manual; American Institute of Steel Construction, Inc.

B. AISC S303 - Code of Standard Practice for Steel Buildings and Bridges; American Institute of Steel Construction, Inc.

C. AISC S348 - Specification for Structural Joints Using ASTM A325 or A490 Bolts.

D. ASTM A1 - Standard Specification for Carbon Steel Tee Rails.

E. ASTM A36 - Standard Specification for Carbon Structural Steel.

F. ASTM A53 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

G. ASTM A108 - Standard Specification for Steel Bar, Carbon and Alloy, Cold Finished.

H. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

I. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

J. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength.

K. ASTM A325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.

L. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.

M. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.

N. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts.

M. ASTM A992 - Standard Specification for Structural Steel Shapes.

N. ASTM C1107 - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink).

O. ASTM E94 - Standard Guide for Radiographic Examination.

P. ASTM E164 - Standard Practice for Ultrasonic Contact Examination of Weldments.

Q. ASTM F436 - Standard Specification for Hardened Steel Washers.

R. ASTM F959 - Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners.

S. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength.

T. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; American Welding Society.

U. AWS D1.1 - Structural Welding Code - Steel; American Welding Society.

V. SSPC-Paint 15 - Steel Joist Shop Primer; Society for Protective Coatings.

W. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings.

X. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings:
1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and fasteners.
2. Connections not detailed.
3. Indicate welded connections with AWS A2.4 welding symbols. Indicate net weld lengths.

C. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.05 QUALITY ASSURANCE

A. Fabricate structural steel members in accordance with AISC "Steel Construction Manual."

B. Comply with Section 10 of AISC "Code of Standard Practice for Steel Buildings and Bridges" for architecturally exposed structural steel.

C. Fabricator: Company specializing in performing the work of this section with minimum 5 years of documented experience.

D. Erector: Company specializing in performing the work of this section with minimum 5 years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS

A. Steel Angles and Plates: ASTM A36.
B. Steel W Shapes and Tees: ASTM A992.
C. Rolled Steel Structural Shapes: ASTM A992.
D. Steel Shapes, Plates, and Bars: ASTM A36.
E. Cold-Formed Structural Tubing: ASTM A500, Grade B.
F. Hot-Formed Structural Tubing: ASTM A501, seamless or welded.
G. Pipe: ASTM A53, Grade B, Finish black.
H. High-Strength Structural Bolts, Nuts, and Washers: ASTM A325, Type 1, medium carbon.
I. Unheaded Anchor Rods: ASTM F1554, Grade 36, plain, with matching ASTM A563 nuts and ASTM F436 Type 1 washers.
J. Load Indicator Washers: Provide washers complying with ASTM F959 at all connections requiring high-strength bolts.
K. Welding Materials: AWS D1.1; type required for materials being welded.
L. Grout: Non-shrink, non-metallic aggregate type, complying with ASTM C1107 and capable of developing a minimum compressive strength of 5,000 psi at 28 days.
M. Shop and Touch-Up Primer: Fabricator's standard.
N. Touch-Up Primer for Galvanized Surfaces: Fabricator's standard.

2.02 FABRICATION

A. Shop fabricate to greatest extent possible.
B. Continuously seal joined members by continuous welds. Grind exposed welds smooth.
C. Fabricate connections for bolt, nut, and washer connectors.

2.03 FINISH

A. Prepare structural component surfaces in accordance with SSPC PS 14.
B. Shop prime structural steel members. Do not prime surfaces that will be fireproofed, field welded, in contact with concrete, or high strength bolted.

2.04 SOURCE QUALITY CONTROL

A. Welded Connections: Visually inspect all shop-welded connections and test at least 5 percent of welds using one of the following:
1. Radiographic testing performed in accordance with ASTM E94.
2. Ultrasonic testing performed in accordance with ASTM E164.
3. Liquid penetrant inspection performed in accordance with ASTM E165.
4. Magnetic particle inspection performed in accordance with ASTM E709.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that conditions are appropriate for erection of structural steel and that the work may properly proceed.

3.02 ERECTION

A. Erect structural steel in compliance with AISC "Code of Standard Practice for Steel Buildings and Bridges".
B. Allow for erection loads, and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.
C. Field weld components indicated on shop drawings.
D. Use carbon steel bolts only for temporary bracing during construction, unless otherwise specifically permitted on drawings. Install high-strength bolts in accordance with AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts".
E. Do not field cut or alter structural members without approval of architect and engineer.
F. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.
G. Grout solidly between column plates and bearing surfaces, complying with manufacturer's instructions for nonshrink grout. Trowel grouted surfaces smooth, splaying neatly to 45 degrees.

3.03 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
B. Maximum Offset From True Alignment: 1/4 inch

3.04 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 4000.
B. High-Strength Bolts: Verify that all bolts are in place, tightened, and are of the correct diameter and type.
C. Welded Connections: Visually inspect all field-welded connections. Test any suspect connection using one of the following:
1. Radiographic testing performed in accordance with ASTM E94.
2. Ultrasonic testing performed in accordance with ASTM E164.
3. Liquid penetrant inspection performed in accordance with ASTM E165.
4. Magnetic particle inspection performed in accordance with ASTM E709.

END OF SECTION

SECTION 31 00 01 - CRUSHED CONCRETE

PART 1 - GENERAL

1.1 DESCRIPTION

A. CONTRACTOR shall furnish and place crushed concrete, of the types specified at locations shown.

B. Work includes providing a crushed concrete surface on a prepared subgrade as required for building slab.

1.2 SUBMITTALS

A. CONTRACTOR shall furnish representative samples of the crushed concrete and shall advise of the source location.

1.3 QUALITY ASSURANCE

A. Tests:

1. Source Quality Control: CONTRACTOR shall be responsible for payment for all testing required to determine acceptability of crushed concrete at the locations where the material is obtained.
2. Field Quality Control Testing: The CONTRACTOR shall retain the services of a qualified testing laboratory to make tests and determine acceptability of the crushed concrete upon delivery to the job site.
3. CONTRACTOR shall give full cooperation to the testing lab personnel so that the required tests can be taken in an efficient and timely manner.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Crushed Concrete (Recycled Concrete) Gradation size shall be the same as that required by no. 610 crushed limestone aggregate as specified in Section 703.04.2 of the *"Mississippi Standard Specification for Road and Bridge Construction"*, 2004 Edition.

B. CONTRACTOR shall submit samples meeting the above requirements to an approved commercial testing laboratory for sieve analysis. The laboratory analysis results shall be approved by the ARCHITECT before any material is ordered.

C. After the materials are delivered to the job site, the ARCHITECT will take two samples from each shipment of material. The CONTRACTOR shall have a sieve analysis performed on these samples by the CONTRACTOR's testing laboratory. If the results of the samples taken in the field do not conform to those previously approved, the material will be rejected and shall be modified or removed from the job site.

PART 3 - EXECUTION

3.1 COMPACTION

A. Crushed concrete sub-base should be compacted with a vibratory plate compactor.

3.2 INSPECTION

A. Examine the subgrade on which the crushed concrete shall be installed and notify the ARCHITECT in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to the ARCHITECT.

END OF SECTION 032221

SECTION 05 31 00 - STEEL DECKING

GENERAL

RELATED DOCUMENTS:

A. Drawings and general provisions of the Contract, including General and Supplementary

1.2 DESCRIPTION OF WORK:

A. Extent of metal decking is indicated on the drawings, including basic layout and type of deck units required.

1.3 QUALITY ASSURANCE:

A. Codes and Standards: Comply with provisions of the following codes and standards, except as otherwise indicated or specified:

1. AISI "Specification for the Design of Cold-Formed Steel Structural Members".
2. AWS "Structural Welding Code".
3. SDI "Design Manual for Floor Decks and Roof Decks".

B. Qualification of Field Welding: Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure".

C. Decking in place is subject to inspection and testing. Expense of removing and replacing portions of decking for testing purposes will be borne by Owner if attachment is found to be satisfactory. Remove work found to be defective and replace with new acceptable work.

1.4 SUBMITTALS:

A. Product Data: Submit manufacturer's specifications and installation instructions for each type of decking and accessories. Include manufacturer's certification as may be required to show compliance with these specifications.

B. Shop Drawings: Submit detailed drawings showing layout and types of deck panels, Anchorage details, and conditions requiring closure panels, supplementary framing, sump pans, cant strips, cut openings, special jointing or other accessories.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS:

A. Manufacturer: Subject to compliance with requirements, provide products of one of the following:

Metal Deck Units:

1. Epic Metals Corp.
2. United Steel Deck, Inc.
3. Vulcraft/Div. Nucor Corp.
4. Wheeling Corrugating Co.
5. Consolidated Systems

2.2 MATERIALS:

A. Steel for Galvanized Metal Deck Units: ASTM A 446, Grade A.

B. Miscellaneous Steel Shapes: ASTM A 36.

C. Sheet Metal Accessories: ASTM A 526, commercial quality, galvanized.

D. Galvanizing: ASTM A 525, G60.

E. Galvanizing Repair Paint: High zinc-dust content paint for repair of damaged galvanized surfaces complying with Military Specifications MIL-P-21035 (Ships).

F. Flexible Closure Strips: Manufacturer's standard vulcanized, closed-cell, synthetic rubber.

2.3 FABRICATION:

A. General: Form deck units in lengths to span all supports, with flush, interlocking or nested side laps, unless otherwise indicated. Deck Units: Provide deck configurations complying with SDI "Deck Specifications", of metal thickness, depth and width as shown.

PART 3 - EXECUTION

3.1 INSTALLATION:

A. General: Install deck units and accessories in accordance with manufacturer's recommendations and final shop drawings, and as specified herein.

B. Place deck units on supporting steel framework and adjust to final position with ends accurately aligned and bearing on supporting members before being permanently fastened. Do not stretch or contract side lap interlocks.

C. Place deck units flat and square, secured to adjacent framing without warp or excessive deflection.

D. Coordinate and cooperate with structural steel erector in locating decking bundles to prevent overloading of structural members.

E. Do not use floor deck units for storage or working platforms until permanently secured.

F. Fastening Deck Units:

1. Fasten deck units to steel supporting members with self tapping screws. Where deck attaches to wide flange beams with flanges greater than ¼" thick, deck may be welded. Space of welds / screws at 12" o.c, at beams, midspan for side laps.
2. Use self-tapping No. 8 or larger machine screws at 6" o.c. for fastening end closures.
3. Mechanically fasten side laps of adjacent deck units between supports, using self-tapping No. 10 or larger machine screws.
4. Cutting and Fitting: Cut and neatly fit deck units and accessories around other work projecting through or adjacent to the decking, as shown.
5. Reinforcement at Openings: Provide additional steel reinforcement and closure pieces as required for strength, continuity of decking and support of other work shown.
6. Closure Strips: Provide metal closure strips at open uncovered ends and edges of roof decking, and in voids between decking and other construction. Weld into position to provide a complete decking installation.
7. Touch-Up Painting: After decking installation, wire brush, clean and paint scarred areas, wields and rust spots on top and bottom surfaces of decking units and supporting steel members.
   a. Touch-up galvanized surfaces with galvanizing repair paint applied in accordance with manufacturer's instructions.
   b. Touch-up painted surfaces with same type of shop paint used on adjacent surfaces.
8. In areas where shop-painted surfaces are to be exposed, apply touch-up paint to blend into adjacent surfaces.

END OF SECTION

SECTION 31 00 00 - EARTHWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this section.

1.2 DESCRIPTION OF WORK:

A. Extent of earthwork is indicated on drawings and described herein.

B. Site grading to elevations indicated on drawings is included as part of this work.

C. Preparation of subgrade for building slabs is included as part of this work.

D. Soil compaction and control is included as a part of this work.

E. Drainage fill course for support of building slabs is included as part of this work.

F. Backfilling of trenches within building lines is included as part of this work.

G. Excavation of Mechanical/Electrical Work: Refer to Divisions 15 and 16 sections for excavation required in conjunction with underground mechanical and electrical utilities, backfilling of excavated trenches shall be in accordance with this section.

H. Definition: "Excavation" consists of removal of material encountered to subgrade elevations indicated and subsequent disposal or relocation of materials removed.

1.3 QUALITY ASSURANCE:

A. Codes and Standards: Perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction.

B. Testing and Inspection Service: Employ, at contractor's expense, testing laboratory to perform soil testing and inspection service for quality control testing during earthwork operations.

1.4 JOB CONDITIONS:

A. Existing Utilities: Locate existing underground utilities in areas of work. If utilities are to remain in place, provide adequate means of support and protection during earthwork operations.

B. Should uncharted, or incorrectly charted, piping, or other utilities be encountered during excavation, consult utility owner immediately for directions. Cooperate with Owner and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.

[[EARTHWORK_REST]]

KEM STUDIO

ARCHITECT'S CONSULTANTS

MEP/FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVETT
austin.lovett@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@verikal.co.com
601.310.4402

USM -WESLEY

3200 MONTAGUE BLVD.
HATTIESBURG, MS Zip 39401

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1/14/26

SPECIFICATIONS

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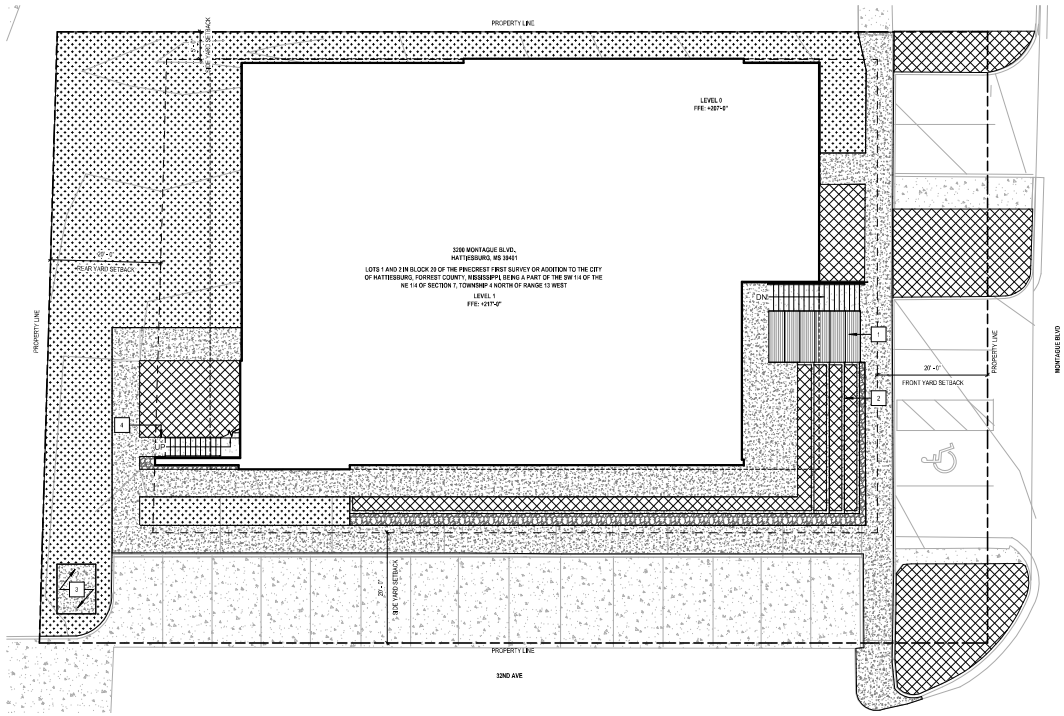
SITE PLAN GENERAL NOTES

A. SITE PLAN IS DIAGRAMMATIC. RE CIVIL DWGS FOR ALL NEW AND EXIST GRADES, UTILITY LOCATIONS, SIDEWALKS, ROADS, CURBS, GUTTERS, PARKING LAYOUT, RAMPS, EASEMENTS, PROPERTY LINES, ETC.
B. RE LANDSCAPE DWGS FOR LANDSCAPE DESIGN.
C. RE CIVIL DWGS FOR PAVEMENT DEMO & BUILD BACK.
D. RE CIVIL DWGS FOR PERVIOUS/IMPERVIOUS AREA CALCULATIONS.



TURF / LANDSCAPE AREA. REFERENCE LANDSCAPE DRAWINGS

CONCRETE

GRAVEL

MULCH

ARCHITECTURAL SITE PLAN LEGEND

NOT TO SCALE

SITE PLAN KEYED NOTES

#	DESCRIPTION
1	STADIUM SEATING
2	MULTI-TIERED PLANTER, C.I.P. CONCRETE SITE WALLS
3	TRANSFORMER PAD
4	EXTERIOR CONCRETE-FILLED METAL PAN EGRESS STAIRS

N

ARCHITECTURAL SITE PLAN
3/32" = 1'-0"

5A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engmus.com
601.362.2992

STRUCTURAL
MIKE GODFREY
steelframer@bellsouth.net
601.545.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@blackwaterengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
601.649.4500

LANDSCAPE
AUSTIN LOVITT
austin.jlm@makeshiftllc.com
601.545.1555

DEVELOPER
WALKER TIRASH
walker@vertikalllc.com
662.217.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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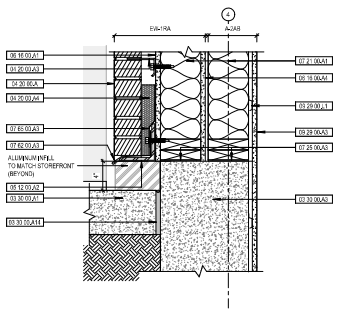
ARCHITECTURAL SITE PLAN

A001



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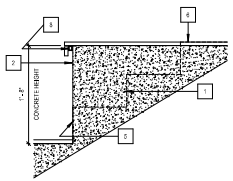
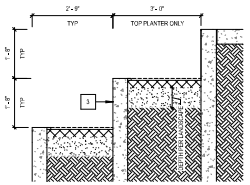
1 1/2" = 1'-0"	



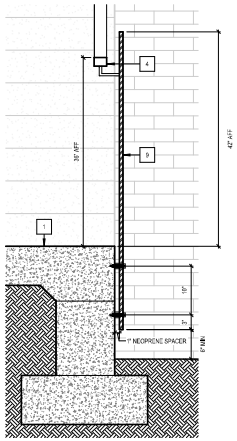
SECTION DETAIL	9F
1" = 1'-0"	



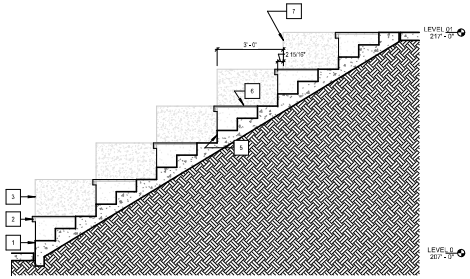
SECTION DETAIL	5F
1/2" = 1'-0"	

STAIR GENERAL NOTES

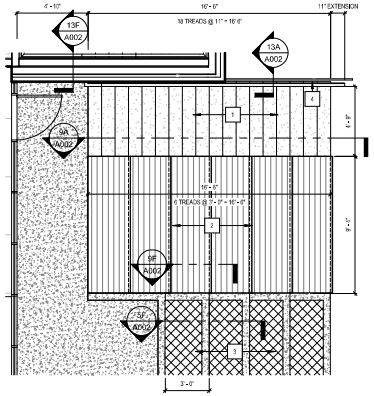
A. FV ALL OPENINGS AND HTS PRIOR TO FABRICATION AND INSTALL.
B. ALL STAIR COMPONENTS MUST BE ADA AND CODE COMPLIANT.
C. ALL RISERS TO BE UNIFORM HT - 7" MAX.
D. ALL TREADS TO BE EQ DEPTH - 11" MIN.
E. PROVIDE 1/2" MAX RADIUS AT ALL STAIR NOSINGS. NOSINGS MUST BE SLIP-RESISTANT.
F. PROVIDE CONCEALED, FIRE TREATED (WHERE REQD) WD BLOCKING FOR HANDRAIL CONNECTIONS AT PARTITION WALLS.
G. RE: STRUCT DWGS FOR SLAB EDGES, STL CONNECTIONS, AND ANCHORAGE.
H. GRIND ALL WELDS AND BLEND ALL EDGES SMOOTH.
I. ALL STL MUST BE PRIMED AND READY FOR PT FIN, UNO.
K. PT ALL EXPOSED STL. COLOR PER ARCHITECT.
L. ALL RISERS SHALL BE CLOSED.
M. WALL TYPES INDICATED AT STAIR SHAFTS ARE CONT AT EA LEVEL.
N. COORD ALL REQS W/ STRUCT AND MEPFP DWGS & SPECS.



SECTION DETAIL	13A
1" = 1'-0"	



ENLARGED SECTION	9A
3/8" = 1'-0"	



ENLARGED PLAN	5A
1/4" = 1'-0"	

SITE DETAILS KEYED NOTES

#	DESCRIPTION
1	CAST-IN-PLACE CONCRETE STEPS
2	CAST-IN-PLACE STADIUM SEATING W/ WOOD SEAT
3	CAST-IN-PLACE CONCRETE PLANTER
4	RECTANGULAR STEEL HANDRAIL, ANCHORED INTO WALL AT TOP OF STAIRS AND INTO GROUND AT BOTTOM OF STAIRS, INTERMEDIATE WELDED SUPPORTS TO GUARDRAIL, EXTENSIONS PER IBC SEC 1014.
5	ALIGN CONCRETE FACES (BEYOND), TYP..
6	ALIGN CONCRETE STEP TO T.O. WOOD (BEYOND), TYP.
7	OFFSET FACE OF PATIO TO ACHIEVE 36" FALL PROTECTION
8	OUTDOOR LED STRIP LIGHT IN ALUMINUM CHANNEL, CONCEALED BY WOOD SEAT
9	STEEL PLATE GUARDRAIL, POWDERCOATED BLACK. HELD OFF CONCRETE WITH SPACER, FASTENING PER STRUCTURAL.

KEYNOTES

NUMBER	DESCRIPTION
03 30 00.A1	CONCRETE SLAB ON GRADE, RE: STRUCT.
03 30 00.A3	CONCRETE FOUNDATION; RE: STRUCT
03 30 00.A14	CONTINUOUS COMPRESSIBLE FILLER & JOINT SEALANT AT SLAB EDGE
04 20 00.A	BRICK, REF ELEVATIONS
04 20 00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
04 20 00.A4	MORTAR NET
05 12 00.A2	STEEL ANGLE, RE: STRUCT
06 16 00.A1	5/8" EXTERIOR GLASS MAT GYPSUM WALL SHEATHING WITH FACTORY APPLIED WEATHER BARRIER
06 16 00.A4	5/8" TYPE X GYPSUM SHEATHING
07 21 00.A1	BATT INSULATION
07 25 00.A3	SILL GASKET
07 62 00.A3	PREFINISHED SHEET METAL FLASHING
07 65 00.A3	FLASHING TAPE
09 29 00.A3	5/8" GYB, PAINTED, RNISH PER SPEC AND LEGEND
09 29 00.L1	RESILIENT CHANNEL

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engnw.com
KS LIC.#1992

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
KS LIC#14920

DEVELOPER
WALKER TIRRASH
walker@ventralks.com
402.217.2402

STRUCTURAL
MIKE GODFREY
steve@hoerner@bconsult.net
KS LIC.#21005

LANDSCAPE
AUSTIN LOVITT
austin.l@mikeschaffer.com
KS LIC.#21005

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
KS LIC.#21005

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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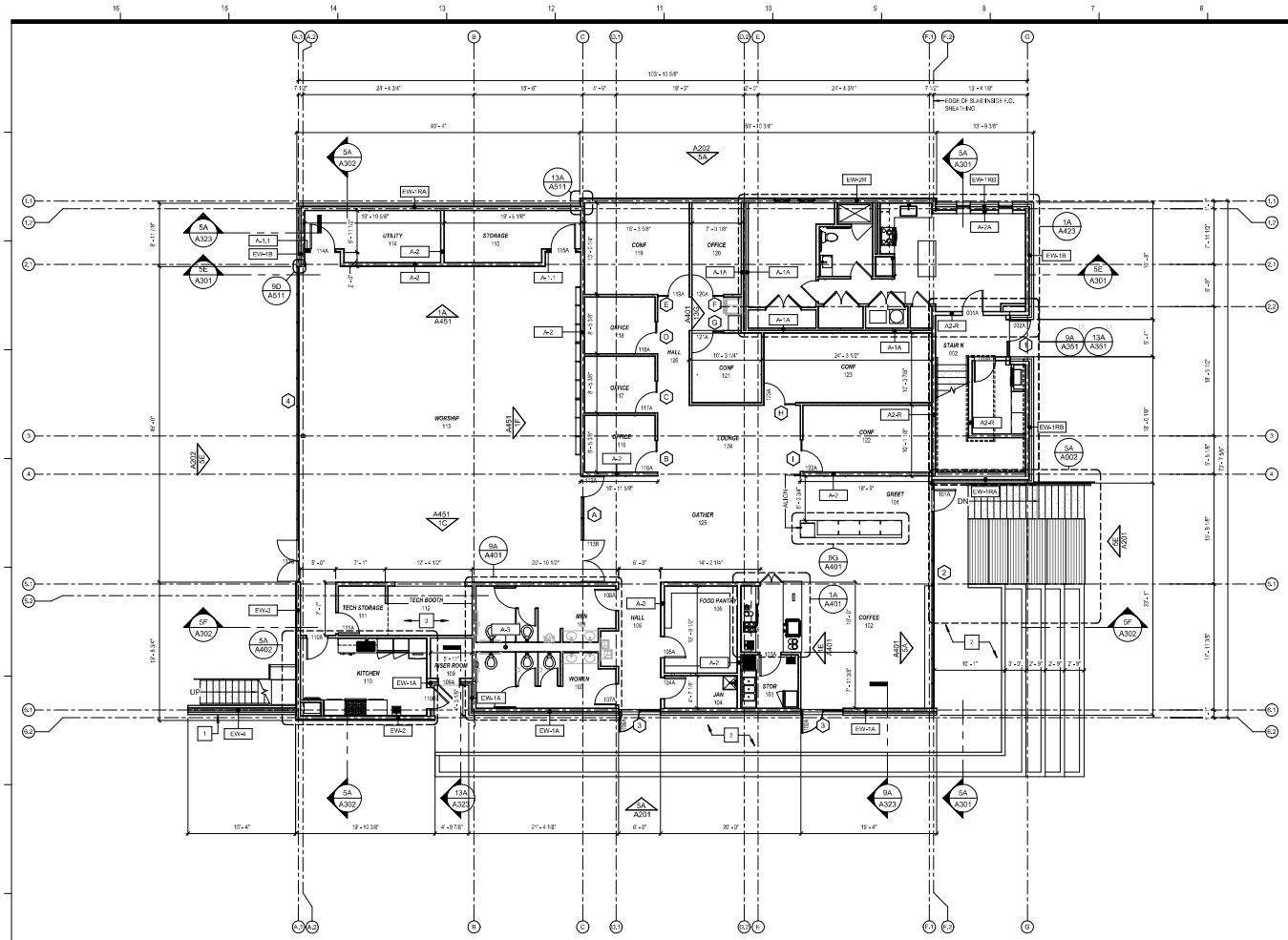
ARCHITECTURAL SITE DETAILS

A002



PLAN GENERAL NOTES

A. REF G000 SERIES FOR CODE, FIRE RATING, & EGRESS INFORMATION.
B. REF G010 SERIES FOR ABBREVIATIONS & ACCESSIBILITY INFORMATION.
C. REF G020 FOR SERIES GRAPHIC SYMBOLS.
D. REF A000 SERIES FOR ARCH SITE PLANS & DETAILS.
E. REF A100 SERIES FOR ARCH PLANS
F. REF A600 SERIES FOR PARTITION TYPES, ASSEMBLIES & A610 FOR FINISH PLANS AND SCHEDULES.
G. REF A630 SERIES FOR DOORS & WINDOWS.
H. REF A650 & A660 SERIES FOR STOREFRONT.
J. REF A700 SERIES FOR FF&E.
K. COORD SECURITY, IT & A/V REQTS W/ OWNER. PROVIDE CONDUIT AND PULL STRING AS NEEDED.
L. COORD UTILITY ENTRANCES W/ CIVIL & MEPFP DWGS. PAINT UTILITY CABINETS, METERS & ASSOCIATED PIPING PER ARCHITECT'S DIRECTION.
M. ALL INT WALLS ARE TYPE A-1 UNO.
N. ALL FIN (TILE, CLGS, CARPET, ETC.) STARTING & STOPPING POINTS TO BE DETERMINED BY ARCHITECT IN FIELD.
P. ALL DRS ARE TO BE LOCATED XX" FROM ADJACENT WALL FACE, UNO. INT GLASS DRS PER ELIS
Q. INFORM ARCHITECT OF ALL FIRE MARSHALS LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
R. ADD VERT CJTS @ 30' OC IN NEW GYP BD WALLS. VERIFY FINAL LOCATIONS W/ ARCHITECT PRIOR TO INSTALL. WHERE CJTS OCCUR AT FIRE-RATED ASSEMBLIES, PROVIDE FIRE-RATED CJTS.
S. ALL PJR PENETRATION LOCATIONS SHALL BE COORD AND VERIFIED FOR STRUCT AND MEPFP FOR ELEMENTS INCLUDING ITEMS LOCATED ON FLRS ABOVE & BELOW CONCEALED WORK (EMBEDS, REBAR, ETC.) NOTIFY ARCHITECT OF ANY ISSUES PRIOR TO DRILLING. PROVIDE X-RAY OR SONAR SCANS AS REQD.
T. COORD SLAB EDGES & BRACING LOCATIONS W/ STRUCT DWGS. NOTIFY ARCHITECT OF ANY ISSUES
U. ON WALLS WHERE GRAPHICS / SIGNAGE OCCUR PROVIDE LEVEL 5 FIN. AT THESE LOCATIONS NO EXIT SIGNS OR ANY ELECT / FIRE ALARM / MECH / ETC. DEVICES SHALL BE INSTALLED. IF CONFLICT EXISTS, NOTIFY ARCHITECT FOR RESOLUTION.
V. DIMS ARE TO FIN FACE OF WALLS, COL GRIDS AND OUTSIDE FACE OF STOREFRONT FRAMING.
W. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
X. AT ALL STOREFRONT LOCATIONS PROVIDE BLOCKING AND SHIMS AS REQD. PROVIDE SEALANT AND BACKER ROD, BOTH SIDES, ALL AROUND. SEALANT COLOR PER ARCHITECT.
Y. IF REQD BY AHJ, PROVIDE CODE AND ADA COMPLIANT SIGNAGE AT ALL PUBLIC RESTRMS AND SERVICE RMS THROUGHOUT (JANITOR CLOSET, DATA, ELECT), SIGNAGE SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
Z. ALL FURNITURE INDICATED IS FOR REFERENCE ONLY, UNO.
AA. RE FFE PLANS FOR APPLIANCE LEGEND AND ALL APPLIANCE LOCATIONS IN ALL UNITS.
BB. ALL APPLIANCES ARE PROVIDED AND INSTALLED BY GC, UNO. CONSULT MEP DWGS FOR REQS. PROVIDE CONCEALED, MOISTURE-RESISTANT OR FIRE-TREATED BLOCKING AS REQD.
CC. ALL COLORS AND LOCATIONS OF WALL MOUNTED ELECT DEVICES, COVER PLATES, SPRINKLER HEAD COVERS, ETC. SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
DD. COORD ALL PRIMARY & OVERFLOW STORM DRAIN DROPS W/ PLUMB AND ARCH DWGS.
EE. PROVIDE FIRE EXTINGUISHERS AND CABINETS AS INDICATED ON DWGS. FINAL LOCATIONS SHALL BE COORD W/ AHJ. INFORM ARCHITECT OF ALL FIRE MARSHALS LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
FF. PROVIDE FULL HT PERIMETER AND ROOF INSUL TO MEET REQD IECC R-VALUE THROUGHOUT.
GG. ALL BLOCKING WITH RATED WALLS SHALL BE FIRE RESISTANT PER UL ASSEMBLIES.
HH. COORD ELECT DEVICE LOCATIONS W/ FURNITURE LAYOUT AS DIRECTED BY ARCHITECT PRIOR TO INSTALL OF ELECT DEVICES.
JJ. ALL LOCATIONS AND ALIGNMENTS OF CLG MOUNTED DEVICES / ELEMENTS NEEDS TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALL.
KK. NO PENETRATIONS OR OPENINGS ALLOWED IN SHAFT WALLS UNLESS THEY EXPRESSLY SERVE THE SHAFT.
LL. PROVIDE NON-COMBUSTIBLE MATERIALS IN RETURN PLENUMS (WALLS AND SOFFIT).

FLOOR PLAN KEYED NOTES

#	DESCRIPTION
1	BRICK SITE WALL
2	CONCRETE PATIO.
3	RAISED FLOOR IN TECH BOOTH. FRAME AS NEEDED USING 2X WOOD MEMBERS, 24" APF, COVER WITH 3/4" PLYWOOD SHEATHING

LEVEL 1 - FLOOR PLAN
1/8" = 1'-0"

5A

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engnw.com
816.CALL.ENG

STRUCTURAL
MIKE GODFREY
sean@mwengr@comcast.net
816.945.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@tbcpowersource.us
816.CALL.ENG

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
816.945.1555

DEVELOPER
WALKER THRASH
walker@yardbuilt.com
662.217.2462

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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FLOOR PLAN - LEVEL 1

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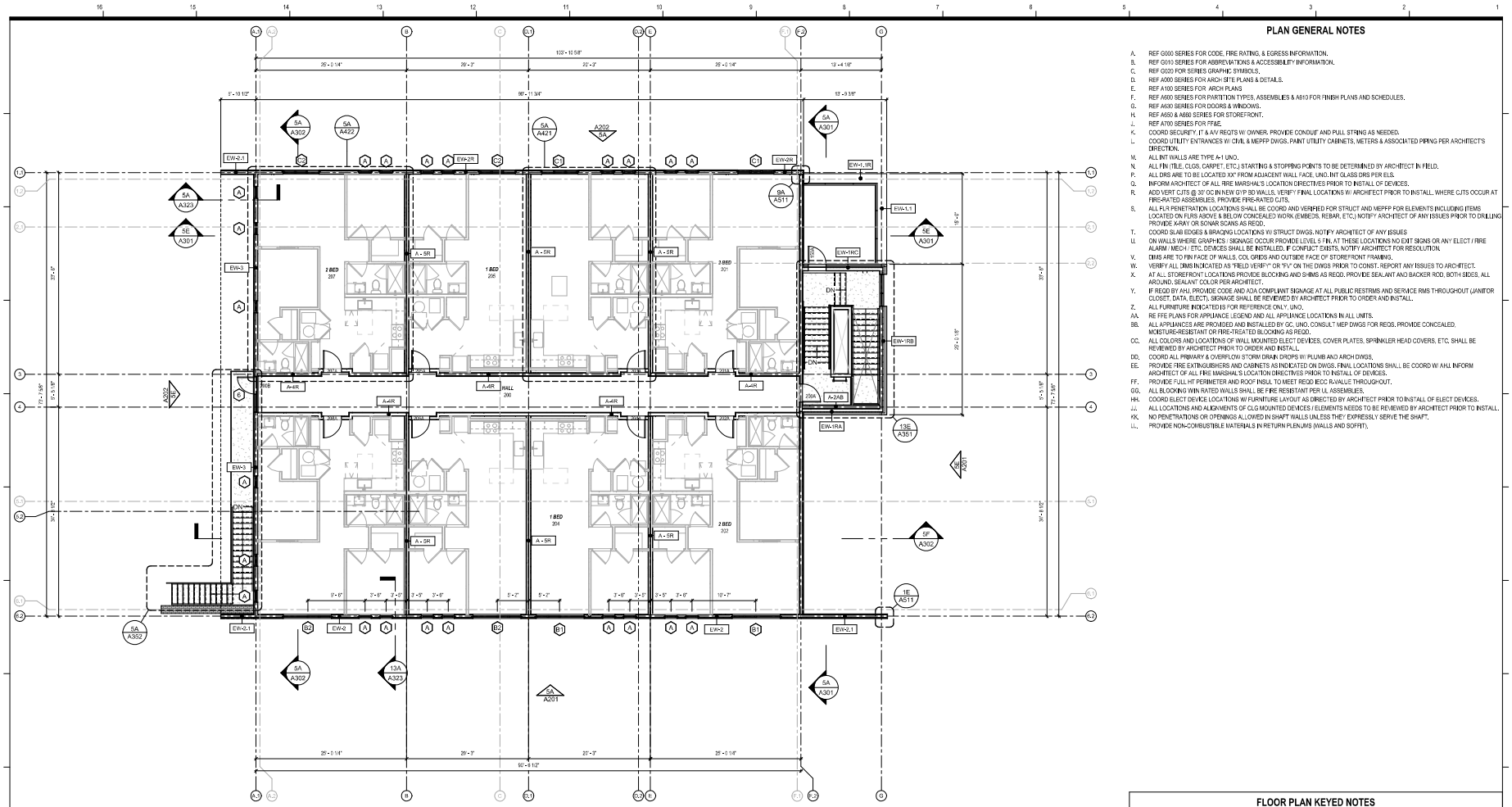

PLAN GENERAL NOTES

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J. REF A700 SERIES FOR FF&E.
K. COORD SECURITY, IT & A/V REQTS W/ OWNER. PROVIDE CONDUIT AND PULL STRING AS NEEDED.
L. COORD UTILITY ENTRANCES W/ CIVIL & MEPFP DWGS. PAINT UTILITY CABINETS, METERS & ASSOCIATED PIPING PER ARCHITECT'S DIRECTION.
M. ALL INT WALLS ARE TYPE A-1 UNO.
N. ALL FIN (TILE, CLGS, CARPET, ETC.) STARTING & STOPPING POINTS TO BE DETERMINED BY ARCHITECT IN FIELD.
P. ALL DRS ARE TO BE LOCATED XX" FROM ADJACENT WALL FACE, UNO. INT GLASS DRS PER ELS.
Q. INFORM ARCHITECT OF ALL FIRE MARSHALS LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
R. ADD VERT CJTS @ 30' OC IN NEW GYP BD WALLS. VERIFY FINAL LOCATIONS W/ ARCHITECT PRIOR TO INSTALL. WHERE CJTS OCCUR AT FIRE-RATED ASSEMBLIES, PROVIDE FIRE-RATED CJTS.
S. ALL PLR PENETRATION LOCATIONS SHALL BE COORD AND VERIFIED FOR STRUCT AND MEPFP FOR ELEMENTS INCLUDING ITEMS LOCATED ON FLRS ABOVE & BELOW CONCEALED WORK (EMBEDS, REBAR, ETC.) NOTIFY ARCHITECT OF ANY ISSUES PRIOR TO DRILLING. PROVIDE X-RAY OR SONAR SCANS AS REQD.
T. COORD SLAB EDGES & BRACING LOCATIONS W/ STRUCT DWGS. NOTIFY ARCHITECT OF ANY ISSUES
U. ON WALLS WHERE GRAPHICS / SIGNAGE OCCUR PROVIDE LEVEL 5 FIN. AT THESE LOCATIONS NO EXIT SIGNS OR ANY ELECT / FIRE ALARM / MECH / ETC. DEVICES SHALL BE INSTALLED. IF CONFLICT EXISTS, NOTIFY ARCHITECT FOR RESOLUTION.
V. DIMS ARE TO FIN FACE OF WALLS, COL GRIDS AND OUTSIDE FACE OF STOREFRONT FRAMING.
W. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
X. AT ALL STOREFRONT LOCATIONS PROVIDE BLOCKING AND SHIMS AS REQD. PROVIDE SEALANT AND BACKER ROD, BOTH SIDES, ALL AROUND. SEALANT COLOR PER ARCHITECT.
Y. IF REQD BY AHJ, PROVIDE CODE AND ADA COMPLIANT SIGNAGE AT ALL PUBLIC RESTRMS AND SERVICE RMS THROUGHOUT (JANITOR CLOSET, DATA, ELECT), SIGNAGE SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
Z. ALL FURNITURE INDICATED IS FOR REFERENCE ONLY, UNO.
AA. RE FFE PLANS FOR APPLIANCE LEGEND AND ALL APPLIANCE LOCATIONS IN ALL UNITS.
BB. ALL APPLIANCES ARE PROVIDED AND INSTALLED BY GC, UNO. CONSULT MEP DWGS FOR REQS. PROVIDE CONCEALED MOISTURE-RESISTANT OR FIRE-TREATED BLOCKING AS REQD.
CC. ALL COLORS AND LOCATIONS OF WALL MOUNTED ELECT DEVICES, COVER PLATES, SPRINKLER HEAD COVERS, ETC. SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
DD. COORD ALL PRIMARY & OVERFLOW STORM DRAIN DROPS W/ PLUMB AND ARCH DWGS.
EE. PROVIDE FIRE EXTINGUISHERS AND CABINETS AS INDICATED ON DWGS. FINAL LOCATIONS SHALL BE COORD W/ AHJ. INFORM ARCHITECT OF ALL FIRE MARSHALS LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
FF. PROVIDE FULL HT PERIMETER AND ROOF INSUL TO MEET REQD IECC R-VALUE THROUGHOUT.
GG. ALL BLOCKING WITH RATED WALLS SHALL BE FIRE RESISTANT PER UL ASSEMBLIES.
HH. COORD ELECT DEVICE LOCATIONS W/ FURNITURE LAYOUT AS DIRECTED BY ARCHITECT PRIOR TO INSTALL OF ELECT DEVICES.
JJ. ALL LOCATIONS AND ALIGNMENTS OF CLG MOUNTED DEVICES / ELEMENTS NEEDS TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALL.
KK. NO PENETRATIONS OR OPENINGS ALLOWED IN SHAFT WALLS UNLESS THEY EXPRESSLY SERVE THE SHAFT.
LL. PROVIDE NON-COMBUSTIBLE MATERIALS IN RETURN PLENUMS (WALLS AND SOFFIT).

FLOOR PLAN KEYED NOTES

#	DESCRIPTION
1	BRICK SITE WALL
2	CONCRETE PATIO.
3	RAISED FLOOR IN TECH BOOTH. FRAME AS NEEDED USING 2X WOOD MEMBERS, 24" AFF. COVER WITH 3/4" PLYWOOD SHEATHING

LEVEL 2 - FLOOR PLAN
1/8" = 1'-0"

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engnw.com
601.345.2950

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
601.540.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@mcpowersource.us
601.249.4500

LANDSCAPE
AUSTIN LOVITT
austin.jlan@makeshiftlee.com
601.540.1555

DEVELOPER
WALKER TIRASH
walker@ventkellco.com
662.371.2462

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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FLOOR PLAN - LEVEL 2

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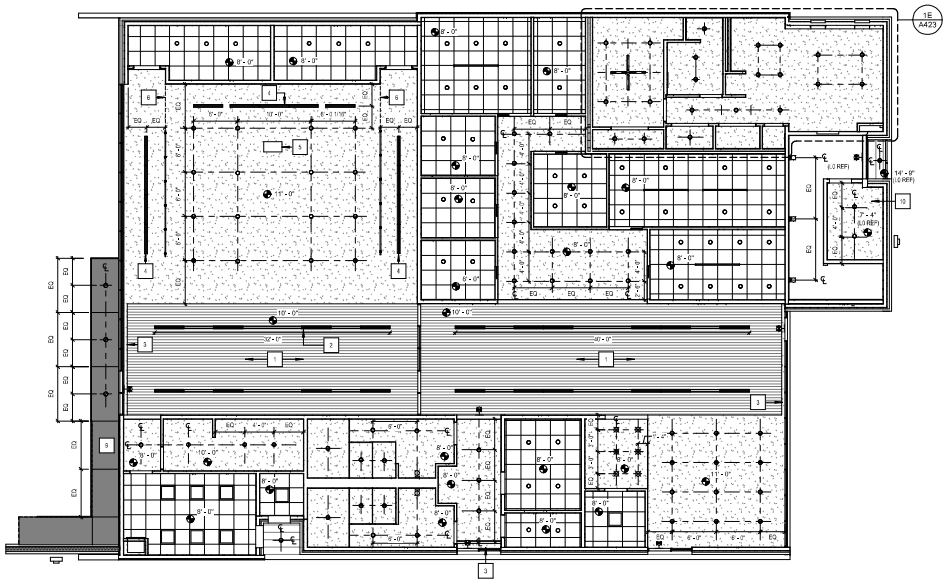

REFLECTED CEILING PLAN GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHED THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. COORD SECURITY, IT & A/V REQS W/ OWNER. PROVIDE CONDUIT AND PULL STRING AS NEEDED, A/V TBD.
C. INFORM ARCHITECT OF ALL FIRE MARSHAL'S LOCATION DIRECTIVES PRIOR TO INSTALL OF DEVICES.
D. ADD HORIZ. CJS @ 30' O.C. IN NEW GYP BD CLGS. VERIFY FINAL LOCATIONS W/ ARCHITECT PRIOR TO INSTALL. WHERE CJTS OCCUR AT FIRE-RATED ASSEMBLIES, PROVIDE FIRE-RATED CJTS.
E. ALL FLR PENETRATION LOCATIONS SHALL BE COORD AND FV FOR STRUCT AND MEPFP FOR ELEMENTS INCLUDING ITEMS LOCATED ON FLRS ABOVE & BELOW CONCEALED WORK (EMBEDS, REBAR, ETC.) NOTIFY ARCHITECT OF ANY ISSUES PRIOR TO DRILLING. PROVIDE X-RAY OR SONAR SCANS AS REQD.
F. ALL INT CLNGS TO BE TYPE 'XXX', UNO.
G. RE A600 SERIES FOR FLR, WALL AND CLG TYPES.
H. RE A600 DWG SERIES FOR FIN SCHED.
J. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
K. COORD ALL PRIMARY AND OVERFLOW STORM DRAIN DROPS W/ PLUMB AND ARCH DWGS.
L. ALL BLOCKING WIN RATED CLGS SHALL BE FIRE RESISTANT PER UL ASSEMBLIES.
M. NO PENETRATIONS OR OPENINGS ALLOWED IN SHAFT WALLS UNLESS THEY EXPRESSLY SERVE THE SHAFT.
N. PROVIDE NON-COMBUSTIBLE MATERIALS IN RETURN PLENUMS (WALLS AND SOFFIT).
P. ALL FIN (TILE, CLGS, CARPET, ETC.) STARTING & STOPPING POINTS TO BE DETERMINED BY ARCHITECT IN FIELD.
Q. MAINTAIN ALL REQ FIRE RATINGS AT WALLS, DRS, STAIRWELLS, CLG AND FLR ASSEMBLIES WHERE OCCURS.
R. 'OTS' = OPEN TO STRUCTURE. PT PER SCHED.
S. ALL WIRING AND CABLING TO BE IN HARD CONDUIT IN AREAS EXPOSED TO STRUCTURE, MC CABLING NOT ACCEPTABLE.
T. PROVIDE ACOUSTICAL BATT INSUL ABOVE ALL BEDRM, BATHRM, CONFERENCE RMS AND OFFICES (WHERE OCCURS) HARD LID CLGS.
U. ALL GYP BD SOFFITS SHALL BE PTD PER SCHED.
V. ACCESS SHALL BE PROVIDED FOR INSTALL AND MAINTENANCE OF ABOVE CLG ELEMENTS. LOCATIONS AND TYPES OF ACCESS PNLS SHALL BE COORD W/ OTHER TRADES AND REVIEWED BY THE ARCHITECT PRIOR TO ORDER AND INSTALL.
W. SUBMIT A FULLY COORD AND DIN RCP INDICATING THE PLACEMENT OF ALL LIGHT FIXTURES, SPEAKERS, FIRE LIFE SAFETY ELEMENTS, ETC. WHETHER INDICATED ON NOT FOR ARCHITECTS REVIEW. PROVIDE SHOP DWG SHOWING SPECIFIC, DIM LOCATIONS OF EA ITEM.
X. ALL LOCATIONS AND ALIGNMENTS OF CLNG MOUNTED DEVICES / ELEMENTS NEEDS TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALL.
Y. ALL LIGHT FIXTURE DIMS ARE TO THE CTR LINE, UNO.
Z. REMOVE ALL MANUF TAGS FROM FIXTURES. DO NOT REMOVE UL LABELS.
AA. PROVIDE EXIT SIGNS PER ELECT AND ALL ALIGNMENT TO BE VERIFIED W/ ARCHITECT PRIOR TO INSTALL.
BB. ALL SPRINKLER HEADS SHALL BE CONCEALED TYPE WITH HARD LID CLGS. COORD COLOR AND LOCATION W/ ARCHITECT PRIOR TO ORDER AND INSTALL.
CC. CONTACT ARCHITECT IF THERE IS A DISCREPANCY BETWEEN ELECT LIGHTING PLAN AND ARCHITECTURAL RCP.
DD. ALL COLORS OF CLG MOUNTED ELECT DEVICES, COVER PLATES, SPRINKLER HEAD COVERS, ETC. SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL. ALL LIGHTS SHALL BE ACCESSIBLE FOR MAINTENANCE. NOTIFY ARCHITECT OF ANY ISSUES PRIOR TO ORDER AND INSTALL.
EE. ALL PENDANT FIXTURE MOUNTING HTS SHALL BE DETERMINED ON SITE BY THE ARCHITECT. FIXTURE MUST BE WORKING MOCK-UP TO DETERMINE FINAL MOUNTING HT.
FF. RE TO ELECT FOR ALL FIXTURE AND LAMPING SPECS.
GG. ALL PIPING, DUCTING, CONDUIT, FIRE PROTECTION PIPES, ETC, RUNS / LOCATIONS IN EXPOSED CLGS SHALL BE COORD W/ THE ARCHITECT PRIOR TO INSTALL. ALL NEW & EXIST PIPES, CONDUITS, DUCTWORK TO BE PTD, PT COLOR PER ARCHITECT.
HH. CORRIDOR LIGHT FIXTURES SHALL BE CTRD IN CORRIDOR AND ALIGNED PER ARCHITECT PRIOR TO INSTALL.
JJ. MOUNTING HT OF ALL EXPOSED DUCTWORK SHALL BE CONFIRMED W/ ARCHITECT IN FIELD PRIOR TO INSTALL.
KK. CLG FAN (WHERE OCCURS) SHALL BE CTRD IN RM, UNO. PROVIDE BLOCKING AS REQD.
LL. AT ALL LIGHT COVES (WHERE OCCURS) THERE SHALL BE NO VISIBLE OR SHADOW CASTING CONDUIT, DUCTING, PIPING, DEVICES, ETC, LOCATED WITH THEM.
MM. ALL NEW CLG DIFFUSER/ RETURN GRILLE LOCATIONS SHALL BE COORD W/ ARCHITECT PRIOR TO INSTALL. COLOR PER ARCHITECT.
NN. CLG ELS GIVEN REPRESENT APPROXIMATIONS BASED ON EXIST FIN FLR. ACTUAL CLG EL WILL DIFFER FROM LISTED. CONTACT ARCHITECT TO SET FINAL ELS.
PP. ONLY NEW SWITCHING AND ELECT OUTLETS SHOWN IN ARCH RCP. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALL / RELOCATION OF ELECT DEVICES. COORD MOUNTING HTS W/ ARCHITECT PRIOR TO INSTALL.
QQ. COORD LOCATION AND MOUNTING HT OF SUSPENDED PROJECTORS & AUDIO SPEAKERS W/ ARCHITECT PRIOR TO INSTALL. PROVIDE CONCEALED BLOCKING AS REQD.
RR. CIRCUITRY SHOWN FOR REFERENCE ONLY.
SS. DESIGN / BUILD MEPFP CONTRACTOR TO COORD ALL DIFFUSER, GRILLE, EXHAUST, LIGHTING, DEVICE, ETC. LOCATIONS W/ ARCHITECT PRIOR TO ORDER & INSTALL.
TT. DESIGN / BUILD ELECT CONTRACTOR TO REVIEW LIGHTING LAYOUT TO DETERMINE ANY UNDER AND OVER-LIT AREAS. THESE AREAS, IF ANY, TO BE RECONCILED W/ ARCHITECT PRIOR TO ORDER & INSTALL OF ASSOCIATED MATERIALS & FIXTURES.
UU. MAINTAIN ALL PLASTER CLGS, UNO. WHERE PLASTER CANNOT BE RESTORED TO A LIKE NEW CONDITION TO RECEIVE NEW PT FIN, DEMO AND REPLACE W/ CONVENTIONAL GYP BD FRAMED CONST.
VV. PATCH, REPAIR AND CLEAN ALL EXT AND INT LINTELS TO LIKE NEW CONDITION. RE STRUCT DWGS.
WW. MAINTAIN ALL EXISTING HISTORIC PLASTER WALL BASE, WD WDW SILL TRIM, TRANSOM WD TRIM, STAIR WD TRIM AND WD DR FRAMES / THROUGHOUT. WHERE DETERIORATED BEYOND REPAIR, REPLACE IN KIND TO MATCH HISTORIC CONFIGURATION AND PREP TO RECEIVE NEW PT FIN.

- LINEAR PENDANT FIXTURE
- 2 X 2
- 6" RECESSED CAN
- DECORATIVE FIXTURE
- WALL MOUNTED EXIT SIGN
- EXTERIOR GROUND MOUNTED LINEAR WALL WASH FIXTURE
- WALL SURFACE MOUNTED FIXTURE
- COVE LIGHT
- ACT CEILING 2' X 2'
- GYP. CEILING
- WA2: PREFINISHED METAL PANEL, ALUCOBLUX OR SIM
- WD-1C WOOD PLANK SOFFIT (INTERIOR)
- WD-2C: WOOD PLANK SOFFIT (EXTERIOR)
- MORIN SOFFIT PANEL TO MATCH WA1

REFLECTED CEILING PLAN KEYED NOTES

#	DESCRIPTION
1	WOOD SLATS. WD-1 RE: FINISH LEGEND.
2	RECESSED FIXTURE CONTAINING LIGHT FIXTURES & MECH DIFFUSERS. SLOTS TO BE CENTERED ON SPACE AND WITHIN THE WIDTH OF A FULL WD-1C SOFFIT PANEL. COORDINATE ADDITIONAL DEVICE/FIRE SPRINKLER INTEGRATION IN SHOP DRAWINGS
3	CEILING PULLED 6" AWAY FROM GLASS. RE. DETAILS
4	CONTINUOUS LINEAR DIFFUSERS, RE. MECH FOR TOTAL LINEAR FEET
5	CEILING MOUNTED PROJECTOR
6	ALIGN TRACK LIGHTS WITH DOOR COVES
8	EXTERIOR COVE LIGHT, RE. DETAILS.
9	WA2: ALIGN PANEL JOINTS TO GUARDRAIL JOINTS. RE. ELEVATIONS
10	1-HR RATED ROOM. F-2 ASSEMBLY PER HORIZONTAL ASSEMBLIES
11	ROOF ACCESS

LEVEL 1 - REFLECTED CEILING PLAN
1/8" = 1'-0"

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON CROSS
jgross@jgmgroup.com
913.C96.2950
STRUCTURAL
MIKE GODFREY
steve@hoenerstl@comcast.net
816.945.1000
CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
601.955.4500
LANDSCAPE
AUSTIN LOVITT
austin.jlan@makestaffer.com
601.345.1000
DEVELOPER
WALKER THRASH
walker@ventkillco.com
662.371.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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REFLECTED CEILING PLAN - LEVEL 1

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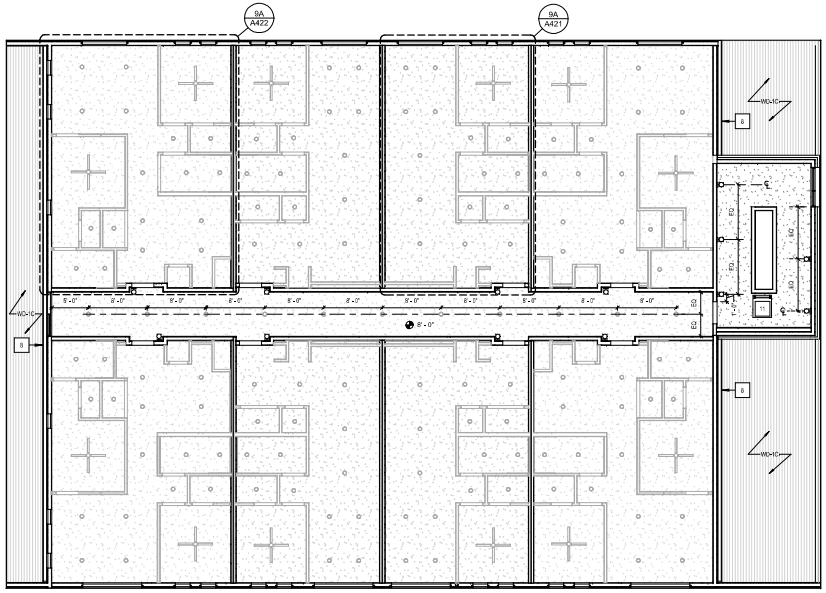
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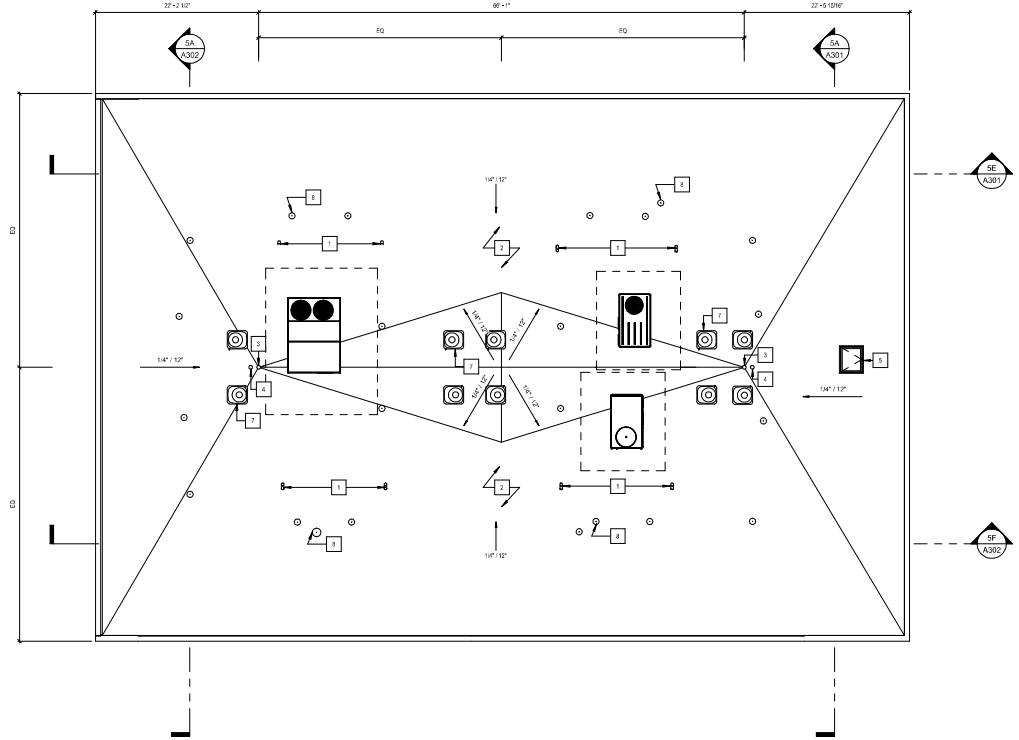

ROOF PLAN GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHED THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. ALL ELEMENTS INDICATED ON THE ROOF ARE DIAGRAMMATIC AND MUST BE COORD W/ MEPFP AND STRUCT ELEMENTS. ALL ROOF PENETRATION LOCATIONS SHALL BE COORD AND VERIFIED FOR STRUCT AND MEPFP ELEMENTS INCLUDING ITEMS LOCATED ON FLRS ABOVE & BELOW AND CONCEALED WORK (EMBEDS, REBAR, ETC.) NOTIFY ARCHITECT OF ANY ISSUES PRIOR TO DRILLING. PROVIDE X-RAY OR SONAR SCANS AS REQD.
C. LOCATE & COORD ALL PRIMARY & OVERFLOW STORM DRAIN DROPS W/ PLUMB DWGS. NOTIFY ARCHITECT OF ANY ROUTING ISSUES.
D. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
E. ROOFTOP EQUIP AND ELEMENTS REQUIRING MAINTENANCE / ACCESS SHALL NOT BE INSTALLED W/IN 10' OF THE PRIMARY ROOF EDGE. PROPOSED LOCATIONS FOR EQUIP AND OTHER ELEMENTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALL.
F. PROVIDE FLEXIBLE ROOF WALKWAY PADS AT ALL EQUIP AND ELEMENTS REQUIRING MAINTENANCE / ACCESS IN THE FORM OF A SECOND LAYER OF ROOF MEMBRANE IN A COLOR CONTRASTING (UNO) THE PRIMARY MEMBRANE (SUBMIT COLORS FOR REVIEW & SELECTION). PROVIDE 30"-W PATHS AND 48"-W PATHS AROUND EQUIP.
G. COORD UTILITY ENTRANCES W/ CIVIL & MEPFP DWGS.
H. COORD SECURITY, IT & A/V REQS W/ OWNER.
J. COORD SPRINKLER REQS AT CLEAR SPACE BETWEEN ROOF SURFACE AND DECK FRAMING. COORD AND CONFIRM COMPLIANCE OF SPRINKLER SYS W/ LOCAL AHJ AND NFPA 13.
K. PROVIDE FULL HT PERIMETER AND ROOF INSUL TO MEET REQD IECC R-VALUE THROUGHOUT.
L. GUTTER AND DS LOCATIONS TO BE COORD W/ CIVIL, MEP & FLR PLANS.
M. VERIFY SNOWGUARD SPACING AND LOCATION W/ AHJ.
N. VERIFY SLOPE W/ ARCHITECT IN AREAS NOT INDICATED.
P.

ROOF PLAN KEYED NOTES

#	DESCRIPTION
1	DRYER VENTS, RE. MEP
2	RT-1, TPO ROOF, RE. A602
3	INTERNAL ROOF DRAIN, RE. PLUMBING
4	OVERFLOW ROOF DRAIN, RE. PLUMBING
5	ROOF ACCESS HATCH, COORDINATE LOCKING WITH MANUFACTURER.
7	CONDENSING UNITS, RE. MEP
8	MECHANICAL VENTS, RE. MEP

ROOF PLAN
1/8" = 1'-0"

5A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engrnw.com
KS LIC#12760

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
KS LIC#14500

DEVELOPER
WALKER TARASH
walker@yardbird.com
KS LIC#14402

STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
KS LIC#21020

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefield.com
KS LIC#21020

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
KS LIC#21020

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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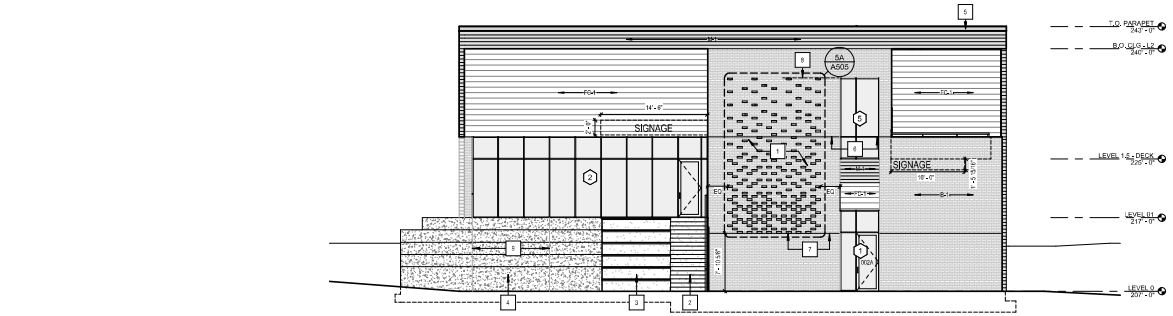
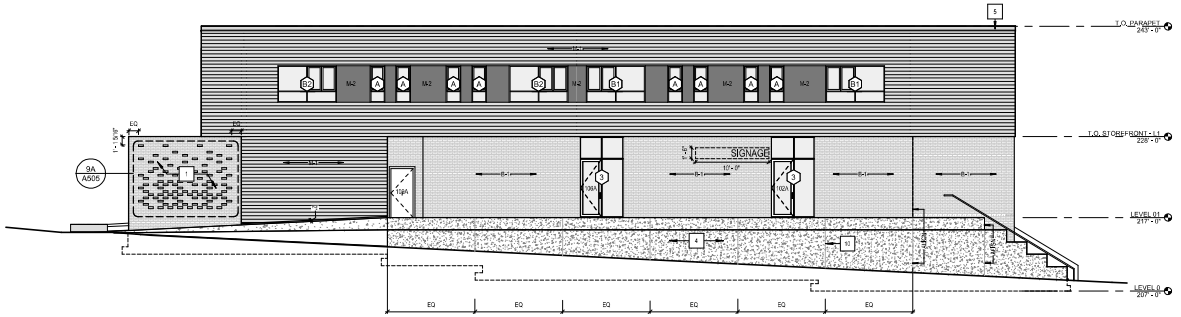
ROOF PLAN

A151



EXTERIOR ELEVATION
1/8" = 1'-0"

5E



EXTERIOR ELEVATION
1/8" = 1'-0"

5A

EXTERIOR ELEVATION GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHEDULE THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. RE TO CIVIL DWGS FOR ALL SITE RELATED FILL AND GRADING REQS.
C. RE A600 SERIES DWGS FOR DOOR, FRAME & HARDWARE SCHED.
D. RE A700 SERIES DWGS FOR WDW & STOREFRONT TYPES.
E. COORD UTILITY ENTRANCES W/ CIVIL & MEP DWGS. PT UTILITY CABINETS, METERS & ASSOCIATED PIPING PER ARCHITECT'S DIRECTION.
F. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
G. COORD ALL FDN DEPTHS AND LOCATIONS W/ STRUCT DWGS.
H. PROVIDE WATERPROOFING AT ALL AREAS WHERE SLAB IS BELOW GRADE. COORD W/ CIVIL AND STRUCT DWGS & SPECS.
J. ALL LIGHT FIXTURES LOCATED AT EXT OPENINGS WILL BE CTRD OVER THAT OPENING, UNO.
K. PROVIDE KEY ACCESS WALL HYDRANTS (WHERE OCCURS) PER PLUMB DWGS. COORD FINAL MOUNTING LOCATIONS W/ ARCHITECT.
L. PT ALL EXT HOLLOW MTL DRS AND FRAMES TO MATCH ADJACENT WALL MATERIAL, UNO.
M. ALL LOCATIONS AND ALIGNMENTS OF WALL MOUNTED DEVICES / ELEMENTS NEEDS TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALL.
N. ALL FLASHINGS & MTL TRIM COLOR AROUND STOREFRONTS SHALL MATCH STOREFRONT. ALL FLASHINGS & MTL TRIM ADJACENT TO MTL PNL'S (WHERE OCCURS) SHALL MATCH THOSE MTL PNLS. NOTIFY ARCHITECT FOR ANY CLARIFICATIONS.
P. PROVIDE TEMPERED GLAZING WHERE REQD BY CODE.
Q. RE SPECS FOR HAZARDOUS MATERIALS REMEDIATION.
R. RE SPECS FOR HISTORIC TREATMENT PROCEDURES.
S. RE SPECS FOR CUTTING AND PATCHING.
T. SUBMIT EL SHOP DWGS INDICATING ALL PNL JT LAYOUTS.
U. ALL AREAS OF DAMAGED / SPALLED BRICK OR BLOCK (WHETHER SPECIFICALLY INDICATED OR NOT) SHALL BE PATCHED, RE-TUCKPOINTED AND REPLACED TO MATCH EXIST. REPLACMENT BRICKS OR BLOCK SHALL COME FROM SALVAGED STOCK. FULL BRICKS OR BLOCKS ONLY – NO CUT UNITS. ALL INSTALL SHALL BE KEYED IN, CLEAN ALL MASONRY PER SPECS AND AS OUTLINED IN THE NATIONAL PARK SERVICE PRESERVATION BRIEFS AND IN PREP FOR ANY NEW SCHED RIN.
V. GROUT SHALL BE REPLACED WHERE DAMAGED OR MISSING. GROUT MAKE-UP, COLOR AND TUCKPOINT TO MATCH EXIST. PROVIDE COLOR SAMPLES AND MOCK-UP TO ARCHITECT PRIOR TO PROCEEDING W/ INSTALL.
W. WHERE DISSIMILAR MTLS WILL CONTACT ONE ANOTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC REACTION BY PTG CONTACT SURFACES W/ BITUMINOUS COATING OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY FABRICATOR OR MANUF OF DISSIMILAR MATERIALS.
X. WHERE INSTALLING MTL FLASHING DIRECTLY ON CEMENTITIOUS OR WD SUBSTRATES, INSTALL A COURSE OF FELT UNDERLAYMENT AND COVER W/ A SLIP SHT OR INSTALL A POLYETHYLENE UNDERLAYMENT.
Y. INSTALL SHT MTL TRIM W/O OIL CANNING, BUCKLING AND TOOL MARKS.
Z. INSTALL SHT MTL FLASHING AND TRIM TRUE TO LINE AND LEVELS INDICATED, PROVIDE UNIFORM, NEAT SEAMS W/ MIN EXPOSURE OF SOLDER, WELDS AND ELASTOMETRIC SEALANT.
AA. VERIFY PNL JTS W/ ARCHITECT PRIOR TO ORDER AND INSTALL. TRIM TO MATCH ADJACENT MTL PNL COLOR, UNO.
BB. INSTALL SHT MTL FLASHING AND TRIM TO FIT SUBSTRATES AND TO RESULT IN WATERTIGHT PERFORMANCE. VERIFY SHAPES AND DIMS OF SURFACES TO BE COVERED BEFORE FABRICATING SHT MTL.

B-1: STANDARD BRICK: CHEROKEE VELOUR PRIMROSE

M-1: PREFINISHED METAL PANEL SIDING, CONCEALED FASTENER, HORIZONTAL MORIN INTEGRITY XAS-16, 16" PANELS. STANDARD FINISH PER ARCHITECT, 22 GA, ST.L, BEARS COORDINATED WITH ARCHITECT IN SHOP DRAWINGS.

M-2: PREFINISHED METAL PANEL SIDING, ALUCOBLUX OR SIM.

FC-1: FIBER CEMENT SIDING, HORIZONTAL SHIPLAP HARDIE: ARTISAN SERIES, 10.25" PANEL 9" EXPOSURE

WD-HW: WOOD PLANK WALL (EXTERIOR)

EXTERIOR ELEVATION LEGEND

NOT TO SCALE

EXTERIOR BUILDING ELEVATION KEYED NOTES

#	DESCRIPTION
1	BRICK DETAILING. RE DETAILS.
2	CAST-IN-PLACE CONCRETE STAIRS CAST IN ARCHITECTURAL FORMS
3	CAST-IN-PLACE STADIUM SEATING CAST IN ARCHITECTURAL FORMS, W/ WOOD SEAT
4	CAST-IN-PLACE TIERED PLANTERS CAST IN ARCHITECTURAL FORMS
5	PREFINISHED SHEET METAL FLASHING. TO MATCH M-1. RE. DETAILS
6	BRICK CONTROL JOINT TO ALIGN WITH STOREFRONT MULLIONS AND TOP OF BRICK GUARDRAIL
7	BOTTOM OF BRICK TEXTURE TO ALIGN WITH BRICK CONTROL JOINT
8	TOP OF BRICK TEXTURE TO ALIGN WITH TOP OF WINDOW MULLION
9	CONCRETE CONTROL JOINTS, ALIGNED WITH STOREFRONT MULLIONS
10	CONCRETE CONTROL JOINTS

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@kgmep.com
913.345.2992

STRUCTURAL
MING GODFREY
seandrewengr@comcast.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsonengineers.com
913.381.2000

ELECTRICAL
CHRIS GREEN
cgreen@lcpowersource.us
913.815.4400

LANDSCAPE
AUSTIN LOVITT
austin.jlm@makethatlike.com
913.345.1555

DEVELOPER
WALKER TIRRASH
walker@wmtrailco.com
662.371.2402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR ELEVATIONS

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C. RE A800 SERIES DWGS FOR DOOR, FRAME & HARDWARE SCHED.
D. RE A700 SERIES DWGS FOR WDW & STOREFRONT TYPES.
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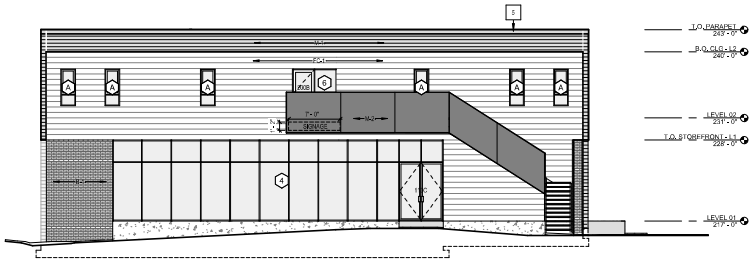
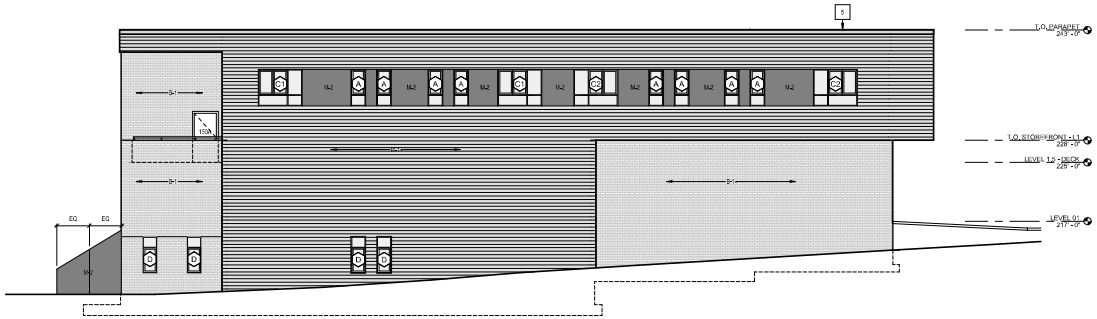


	EXTERIOR ELEVATION 1/8" = 1'-0"	5E



	EXTERIOR ELEVATION 1/8" = 1'-0"	5A

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EXTERIOR ELEVATION LEGEND

NOT TO SCALE

EXTERIOR BUILDING ELEVATION KEYED NOTES

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jmgmep.com
913.C.W.GROSS

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
913.C.W.GREEN

DEVELOPER
WALKER THRASH
walker@unitedlux.com
662.371.2402

STRUCTURAL
MIKE GODFREY
steve@mwengineers.net
913.C.W.GODF

LANDSCAPE
AUSTIN LOVITT
austin.l@mikeschaffer.com
913.C.W.LOVE

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
601.261.2000

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR ELEVATIONS

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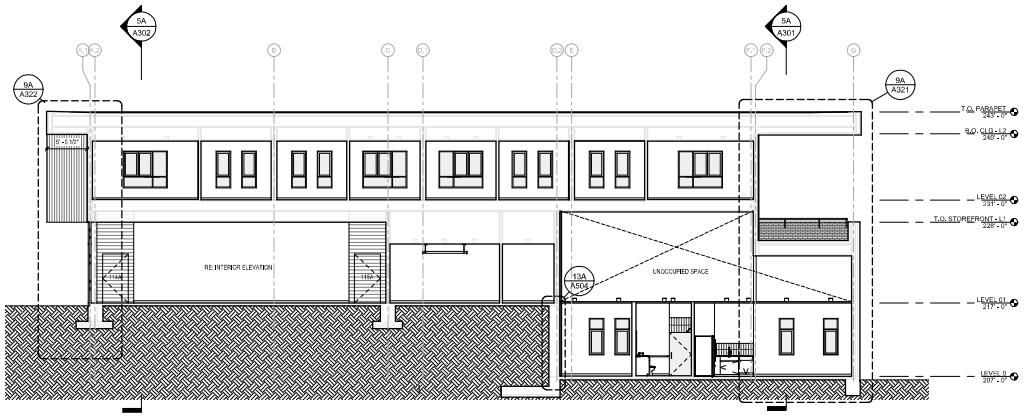
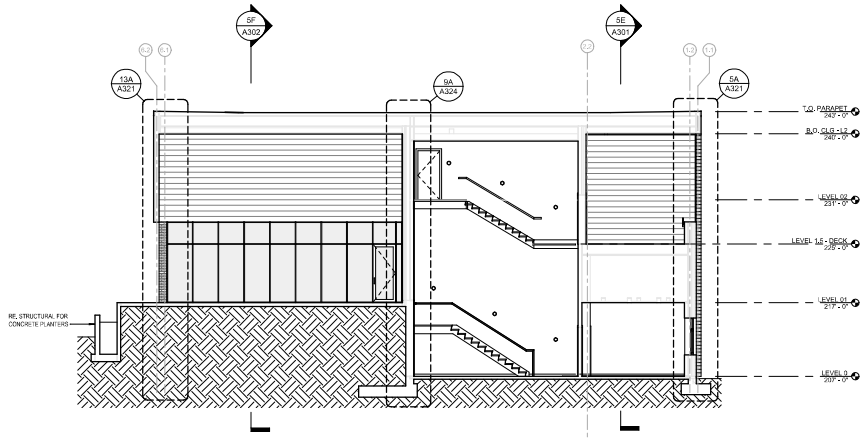


BUILDING SECTION
1/8" = 1'-0"

5E



BUILDING SECTION
1/8" = 1'-0"

5A

BUILDING SECTION GENERAL NOTES

A. ALL EXPOSED STRUCTURE AND SLAB EDGES SHALL HAVE CLEAN EDGES WHERE VISIBLE INSIDE THE FINISHED BLDG / SPACE OR THROUGH EXT GLAZING.
B. ALL CONC WALKS, FIN GRADES AND SLOPES SHALL POSITIVELY DRAIN AWAY FROM THE BLDG (ALL AROUND).
C. RE CIVIL DWGS FOR SITE WORK DESIGN.
D. RE LANDSCAPE DWGS FOR LANDSCAPE DESIGN.
E. RE STRUCT FOR ALL FTGS, FDNS, SLABS AND STL.
F. PROVIDE DRAIN TILE AND FILTER FABRIC AS REQD BY CIVIL, LANDSCAPING AND / OR STRUCT.
G. PROVIDE WATERPROOFING AT ALL FDNS / WALLS WHERE SLAB IS BELOW FIN GRADE. COORD W/ ARCHITECT AND STRUCT ENGINEER.
H. RE EXT ELS FOR INFO ON THE BEYOND CONDITIONS.
J. RE A700 SERIES DWGS FOR WDW & STOREFRONT TYPES.

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engnw.com
601.345.2950
STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
601.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
shelby@stevensengineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@mcpowersource.us
601.345.4500
LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilkinsoffler.com
601.345.1555
DEVELOPER
WALKER TIRASH
walker@venturellc.com
601.214.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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BUILDING SECTIONS

A301

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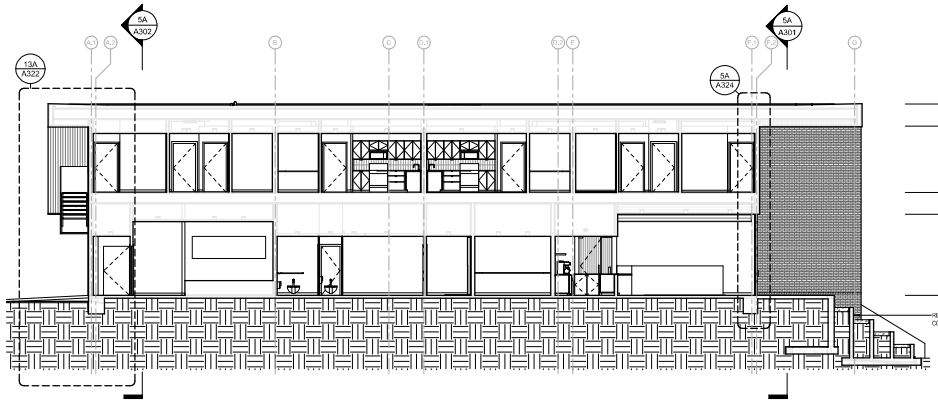

BUILDING SECTION
1/8" = 1'-0"

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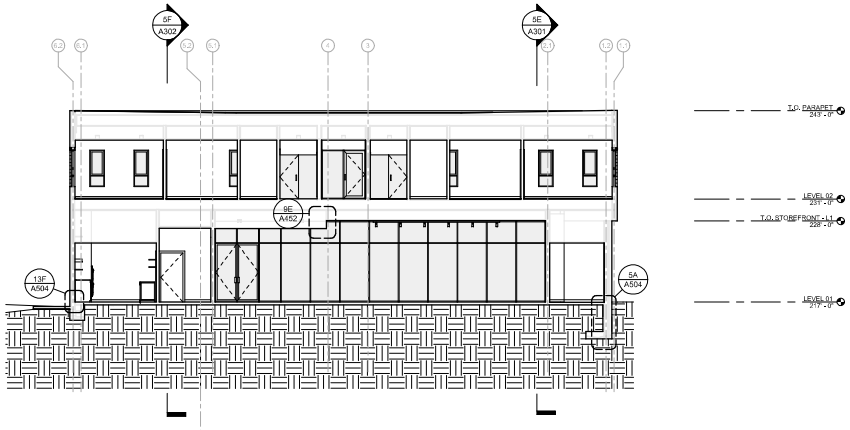

BUILDING SECTION
1/8" = 1'-0"

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engrnw.com
601.345.2950

STRUCTURAL
MIKE GODFREY
steve@mwengr@comcast.net
601.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.649.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
601.345.1555

DEVELOPER
WALKER TIRASH
walker@vertikalllc.com
601.271.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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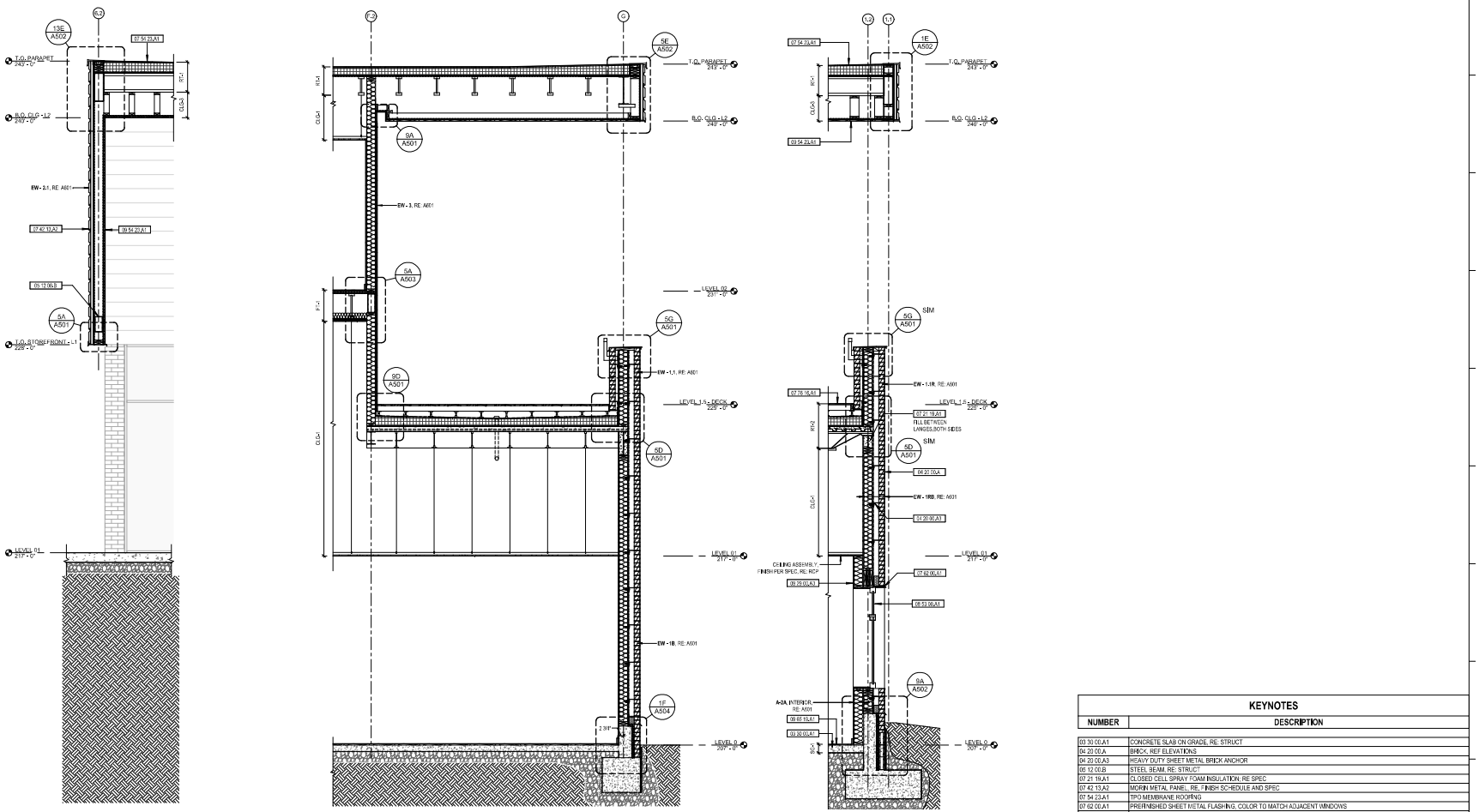
BUILDING SECTIONS

A302



WALL SECTION 3/8" = 1'-0"	13A	WALL SECTION 3/8" = 1'-0"	9A	WALL SECTION 3/8" = 1'-0"	5A

KEYNOTES

NUMBER	DESCRIPTION
03 30 00.A1	CONCRETE SLAB ON GRADE, RE: STRUCT
04 20 00.A	BRICK, REF ELEVATIONS
04 21 00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
05 12 00.B	STEEL BEAM, RE: STRUCT
07 21 19.A1	CLOSED CELL SPRAY FOAM INSULATION; RE SPEC
07 42 13.A2	MORIN METAL PANEL, RE, FINISH SCHEDULE AND SPEC
07 54 23.A1	TPO MEMBRANE ROOFING
07 62 00.A1	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH ADJACENT WINDOWS
07 76 16.A1	DECKING PLANKS ON RAISED PEDESTAL SYSTEM, RE: SPEC
08 53 00.A1	VINYL WINDOW, RE: SCHEDULE & SPEC
09 29 00.A3	5/8" GWB, PAINTED, FINISH PER SPEC AND LEGEND
09 54 23.A1	DIRECT ATTACH LINEAR METAL CEILING PANEL
09 65 19.A1	RESILIENT FLOORING, RE: FINISH PLAN AND LEGEND

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@degmo.com
MO,NE,IA,KS

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
MO,NE,IA,KS

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsonengineers.com
MO,NE,IA,KS

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
MO,NE,IA,KS

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wallerdesign.com
MO,NE,IA,KS

DEVELOPER
WALKER THRASH
walker@ventkillco.com
662.217.2402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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PROJ. A_2406

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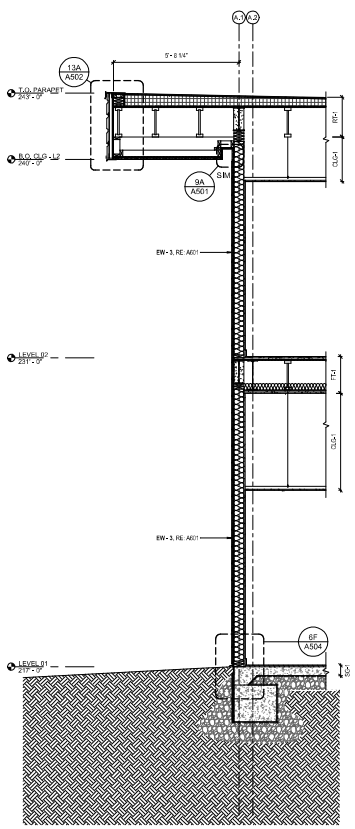
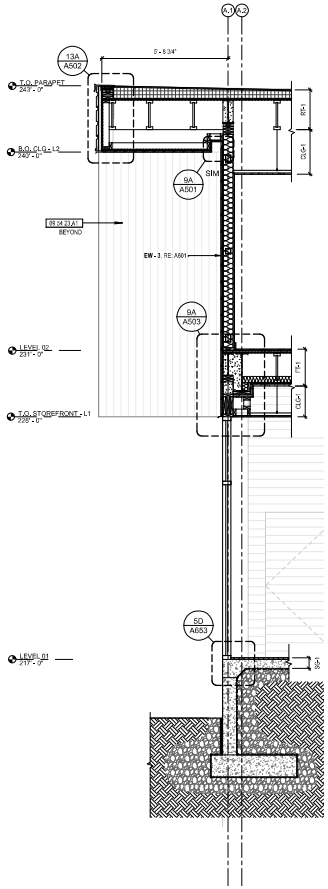
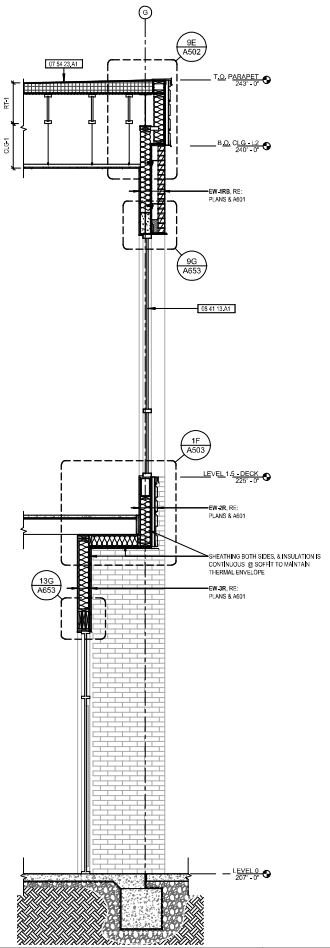
WALL SECTIONS

A321







WALL SECTION 3/8" = 1'-0"	13A	WALL SECTION 3/8" = 1'-0"	9A	WALL SECTION 3/8" = 1'-0"	5A

KEYNOTES

NUMBER	DESCRIPTION
07.54.23.A1	TPO MEMBRANE ROOFING
08.41.13.A1	EXTERIOR STOREFRONT, REF. EXTERIOR ELEVATIONS
09.54.23.A1	DIRECT ATTACH LINEAR METAL CEILING PANEL

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t. 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engnw.com
913.345.2992

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsonengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@lcpowersource.us
601.249.4400

LANDSCAPE
AUSTIN LOVETT
austin.j.lovett@wilkinsoffice.com
601.345.1555

DEVELOPER
WALKER TIRRASH
walker@vertikalllc.com
601.214.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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WALL SECTIONS

A322

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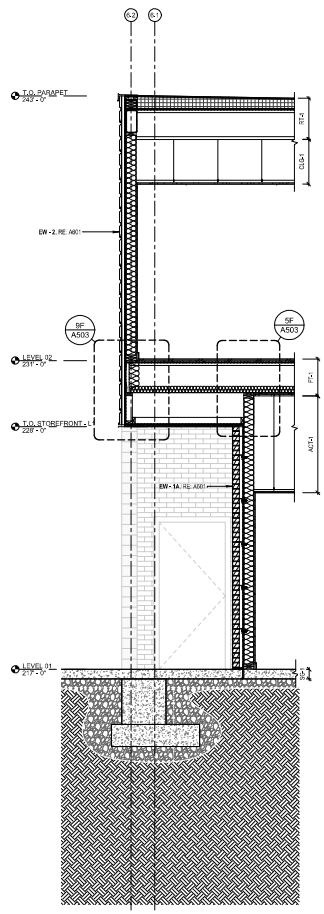
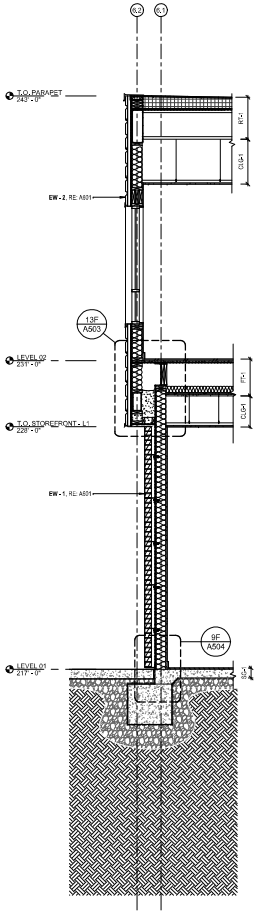


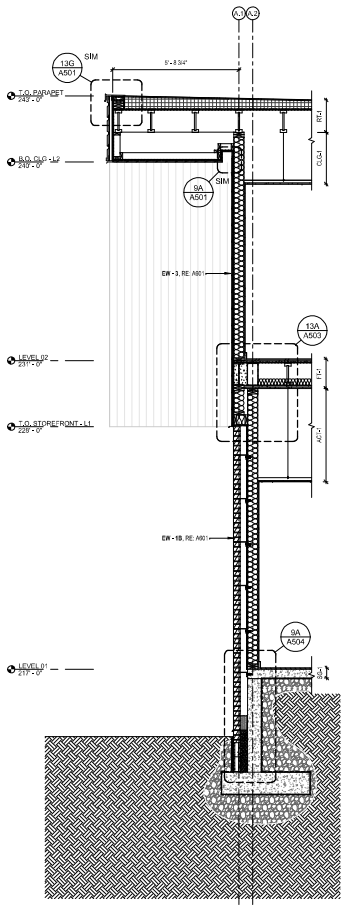
WALL SECTION
3/8" = 1'-0"

13A



WALL SECTION
3/8" = 1'-0"

9A



WALL SECTION
3/8" = 1'-0"

5A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engnw.com
913.345.2150

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.345.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
601.345.1555

DEVELOPER
WALKER TIRASH
walker@ventkdc.com
601.213.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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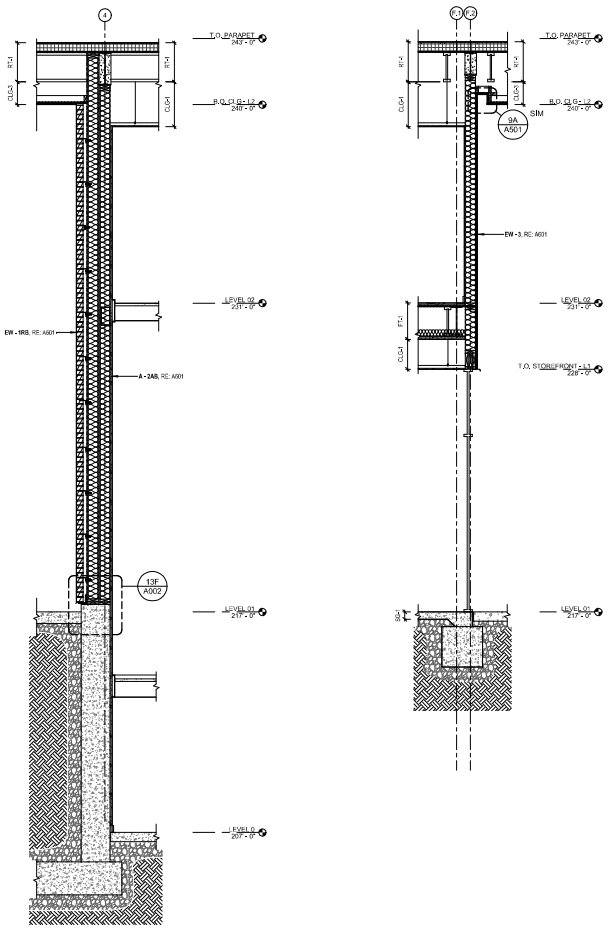
WALL SECTIONS

A323



WALL SECTION
3/8" = 1'-0"
9A

WALL SECTION
3/8" = 1'-0"
5A

1/16/2026 5:28:22 PM

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@kemstudio.com
601.362.0592

STRUCTURAL
MIKE GODFREY
mike@kemstudio.com
601.362.0592

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoveringengineers.com
601.261.2020

ELECTRICAL
CHRIS GREEN
cgreen@kemstudio.com
601.665.6020

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@kemstudio.com
601.362.0592

DEVELOPER
WALKER TIMASH
wtimash@kemstudio.com
601.218.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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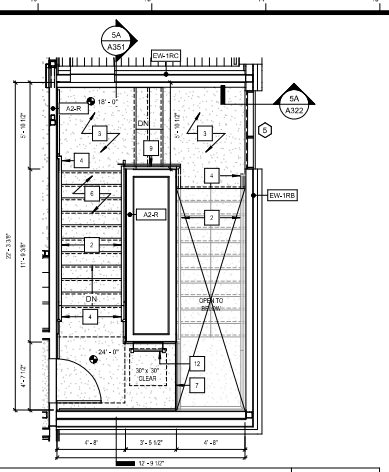
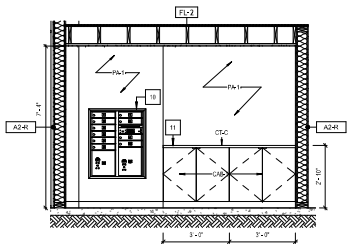
WALL SECTIONS

A324



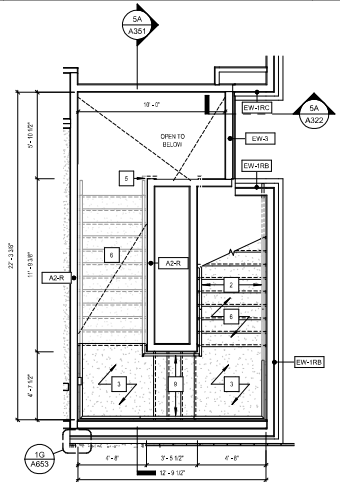
ENLARGED STAIR PLAN - L2
1/4" = 1'-0"
13E



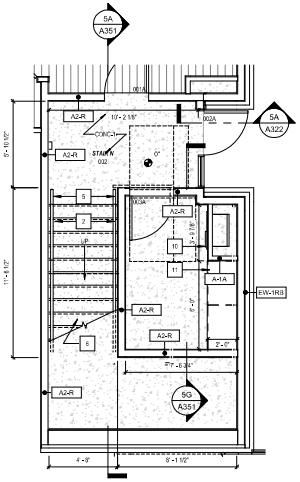
ENLARGED SECTION
3/8" = 1'-0"
5G

STAIR GENERAL NOTES

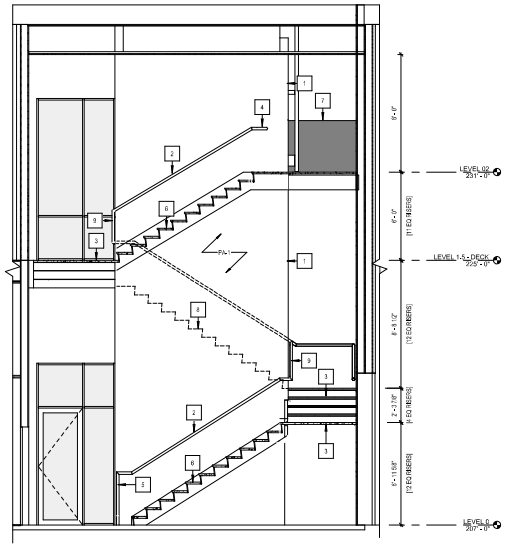
A. FV ALL OPENINGS AND HTS PRIOR TO FABRICATION AND INSTALL.
B. ALL STAIR COMPONENTS MUST BE ADA AND CODE COMPLIANT.
C. ALL RISERS TO BE UNIFORM HT. - 7" MAX.
D. ALL TREADS TO BE EQ DEPTH - 11" MIN.
E. PROVIDE 1/2" MAX RADIUS AT ALL STAIR NOSINGS, NOSINGS MUST BE SLIP-RESISTANT.
F. PROVIDE CONCEALED, FIRE TREATED (WHERE REQD) WD BLOCKING FOR HANDRAIL CONNECTIONS AT PARTITION WALLS.
G. RE: STRUCT DWGS FOR SLAB EDGES, STL CONNECTIONS, AND ANCHORAGE.
H. GRIND ALL WELDS AND BLEND ALL EDGES SMOOTH.
I. ALL STL MUST BE PRIMED AND READY FOR PT FIN, UNO.
K. PT ALL EXPOSED STL. COLOR PER ARCHITECT.
L. ALL RISERS SHALL BE CLOSED.
M. WALL TYPES INDICATED AT STAIR SHAFTS ARE CONT AT EA LEVEL.
N. COORD ALL REQS W/ STRUCT AND MEPFP DWGS & SPECS.



ENLARGED STAIR PLAN - L1
1/4" = 1'-0"
13A



ENLARGED STAIR PLAN - L0
1/4" = 1'-0"
9A



ENLARGED SECTION
1/4" = 1'-0"
5A

STAIR KEYED NOTES

#	DESCRIPTION
1	WALL PER PLANS
2	36" HIGH, 1 1/2" PAINTED STEEL HANDRAIL, WALL MOUNTED, COLOR PER ARCHITECT.
3	INTERMEDIATE STAIR LANDING - FRAMING PER STRUCTURAL
4	RETURN HANDRAIL INTO WALL
5	RETURN HANDRAIL TO FLOOR
6	CONCRETE-FILLED METAL PAN STAIR
7	42" STEEL PLATE GUARDRAIL
8	STAIR RUN BEYOND
9	CONTINUOUS HANDRAIL
10	USPS COMPLIANT FRONT LOAD MAILBOXES
11	MAIL COUNTER & STORAGE; RE: ELEVATION.
12	PROVIDE PERMANENT LADDER AS INDICATED. COORDINATE POSITION AND INSTALLATION WITH ROOF HATCH OVERHEAD FOR ROOF MAINTENANCE ACCESS ONLY.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jbgmp.com
601.982.2950

STRUCTURAL
MIKE GODFREY
steve@mwengr@comcast.net
601.940.1000

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.649.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
601.940.1000

DEVELOPER
WALKER TIRASH
walker@vertikalllc.com
662.371.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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VERTICAL CIRCULATION

A351

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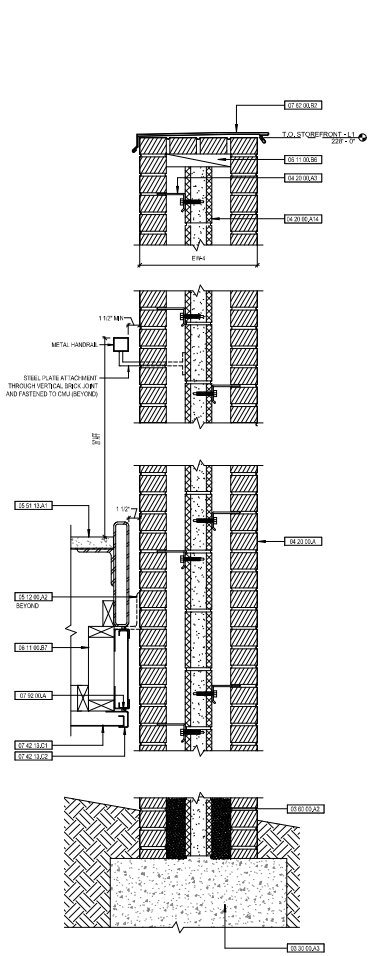
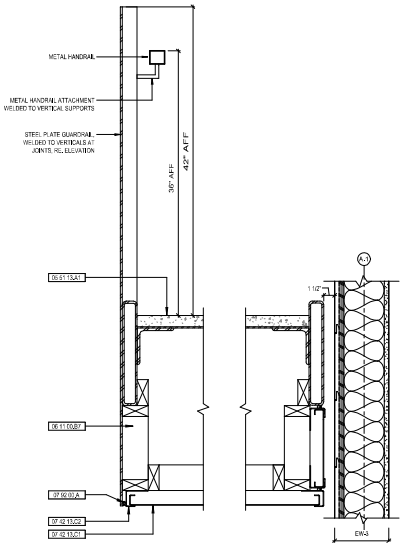
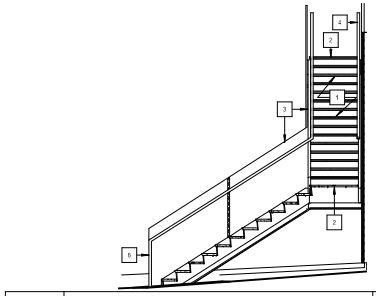
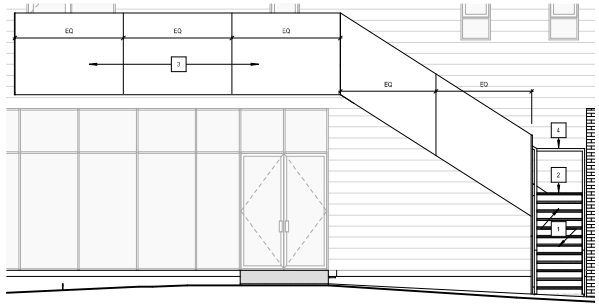


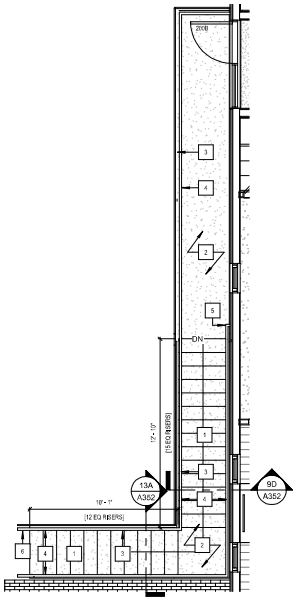


SECTION DETAIL
1 1/2" = 1'-0"
9D



ENLARGED SECTION
1/4" = 1'-0"
5G





KEYNOTES

NUMBER	DESCRIPTION
03 30 00,A3	CONCRETE FOUNDATION; RE: STRUCT
03 60 00,A2	GROUT W/ CAVITY
04 20 00,A	BRICK; REF ELEVATIONS
04 20 00,A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
04 20 00,A14	
05 12 00,A2	STEEL ANGLE; RE: STRUCT
05 51 13,A1	METAL PAN STAIRS WITH CONCRETE FILL; RE: STRUCTURAL
06 11 00,B6	TREATED WOOD NAILER
06 11 00,B7	TREATED WOOD SOFFIT FUR DOWN
07 42 13,C1	ALUCOLUX FLAT METAL PANEL; RE: FINISH SCHEDULE AND SPEC
07 42 13,C2	ALUCOLUX TERMINATION FLASHING; RE: MANUFACTURER
07 62 00,B2	LOW PROFILE, PREFINISHED SHEET METAL COPING, COLOR TO MATCH M-1
07 92 00,A	CONTINUOUS SEALANT AND BACKER ROD

EXT STAIR KEYED NOTES

#	DESCRIPTION
1	METAL PAN STAIR
2	METAL PAN LANDING
3	STEEL PLATE GUARDRAIL; POWDERCOATED BLACK
4	STEEL HANDRAIL; CONTINUOUS AT INSIDE OF LANDING
5	RETURN HANDRAIL INTO WALL
6	RETURN HANDRAIL TO GROUND

SECTION DETAIL
1 1/2" = 1'-0"
13A

ENLARGED SECTION
1/4" = 1'-0"
9A

ENLARGED PLAN
1/4" = 1'-0"
5A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engmus.com
601.982.0760

STRUCTURAL
MIKE GODFREY
steve@hoerner@jbconsult.net
601.940.1000

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@tbcpowersource.us
601.940.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilkinsoffler.com
601.940.1000

DEVELOPER
WALKER THRASH
walker@vertikalllc.com
662.371.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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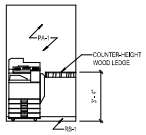
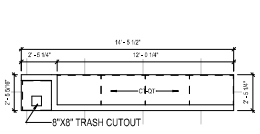
VERTICAL CIRCULATION

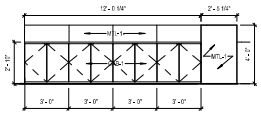
A352



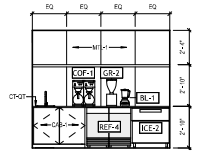
INTERIOR ELEVATION 1/4" = 1'-0"	13G



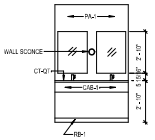
ENLARGED PLAN 1/4" = 1'-0"	9G



INTERIOR ELEVATION 1/4" = 1'-0"	5G



INTERIOR ELEVATION 1/4" = 1'-0"	1G



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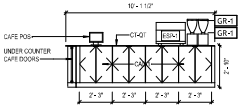

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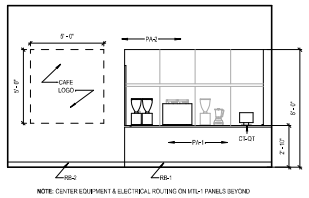
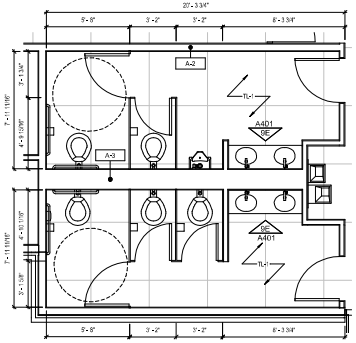
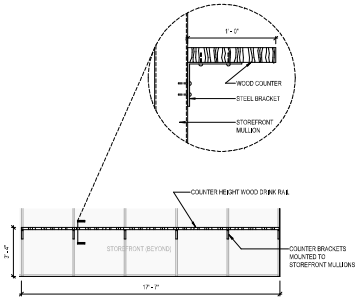


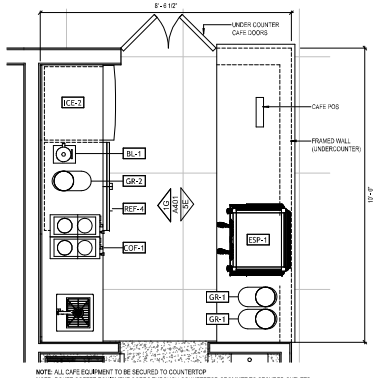
INTERIOR ELEVATION 1/4" = 1'-0"	1E



ENLARGED PLAN - LEVEL 1 RESTROOMS 1/4" = 1'-0"	9A



ENLARGED ELEVATION 1/4" = 1'-0"	5A



ENLARGED PLAN 1/2" = 1'-0"	1A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@dgmgroup.com
MO LIC#12950

STRUCTURAL
MIKE GODFREY
mike@mwengr@comcast.net
MO LIC#2008

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
MO LIC#12000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
MO LIC#14500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
MO LIC#12000

DEVELOPER
WALKER TIRRASH
walker@vertikalbv.com
662.371.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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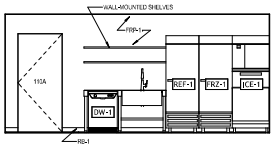
ENLARGED PLANS & ELEVATIONS

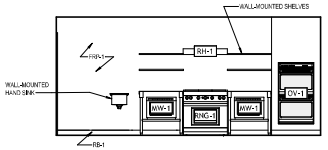
A401

ENLARGED PLAN GENERAL NOTES

A. CABINETS TO COMPLY W/ THE KITCHEN CABINET MANUFACTURING ASSOCIATION (KCMA) QUALITY STANDARD A161.1 FOR CABINETS.
B. ALL CASEWORK SHALL HAVE CONCEALED HINGES AND SELF CLOSING EPOXY-COATED-MTL DRAWER GUIDES, DESIGNED TO PREVENT REBOUND WHEN DRAWERS ARE CLOSED. W/ NYLON-TIRED, BALL-BEARING ROLLERS.
C. RE FIN LEGEND FOR CABINET PULL SELECTIONS.
D. RE PLUM DWGS AND SPECS FOR ALL FIXTURES.
E. FV ALL PLUMB ROUGH IN LOCATIONS FOR POTENTIAL EXIST STRUCT CONFLICTS. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALL.
E. INSTALL BLOCKING WIN BATHRM WALLS FOR FASTENING OF TOWEL BARS, TOILET PAPER HOLDERS, CURTAIN ROD, LIGHT FIXTURES (AS REQD), MIRRORS (AS REQD) AND ACCESSIBLE GRAB BARS.
F. INSTALL OF DEVICES ON TILE SHALL BE CTRD / EVENLY SPACED ON THE TILE IN ALL DIRECTIONS. VERIFY LOCATIONS W/ ARCHITECT PRIOR TO INSTALL.
G. RE FIN LEGEND FOR FIN MATERIALS.
H. ALL ACCESSORIES SHALL BE INSTALLED AND SEALED TO PROTECT STRUCT ELEMENTS FROM MOISTURE.
J. ALL BATHROOM ACCESSORIES SHALL BE CHROME WHERE APPLICABLE.
K. ALL BATHROOM ACCESSORIES SHALL BE BOBRICK OR REVIEWED EQ.
L. RE G000 SERIES FOR STANDARD ADA MOUNTING HTS.
M. ALL EXPOSED TILE EDGES TO RECEIVE AN ANODIZED SCHLUTER SHIENE STRIP PER SPECS.
N. RE INT ELS FOR ACCESSORY LOCATIONS.
P. PROVIDE EQ SPACED FILLER PNLS WHERE APPLICABLE IN EXIST LOCATIONS.



ENLARGED ELEVATION
1/4" = 1'-0"
5G



ENLARGED ELEVATION
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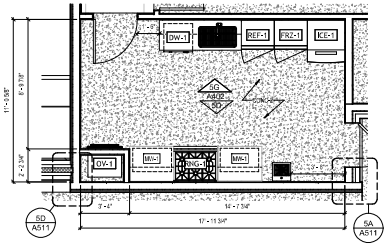
5D



N
ENLARGED PLAN
1/4" = 1'-0"
5A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engmo.com
816.CALL.ENG

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
816.CALL.ENG

DEVELOPER
WALKER TIRASH
walker@yardbird.com
662.274.2402

STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
601.545.1555

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilkinsoffice.com
601.540.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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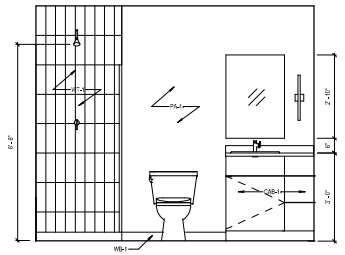
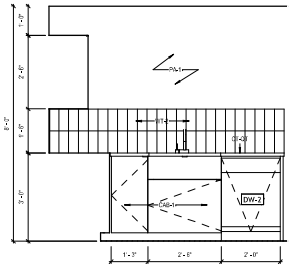
ENLARGED PLANS & ELEVATIONS

A402



INTERIOR ELEVATION
1/2" = 1'-0"
13G



INTERIOR ELEVATION
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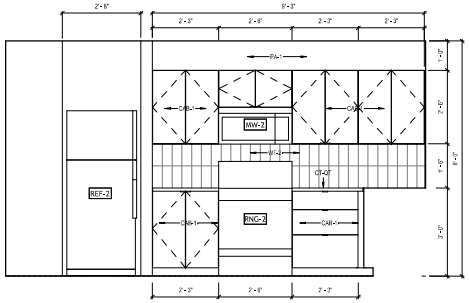
9G



INTERIOR ELEVATION
1/2" = 1'-0"
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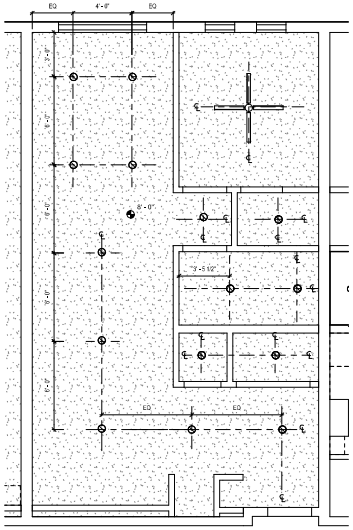

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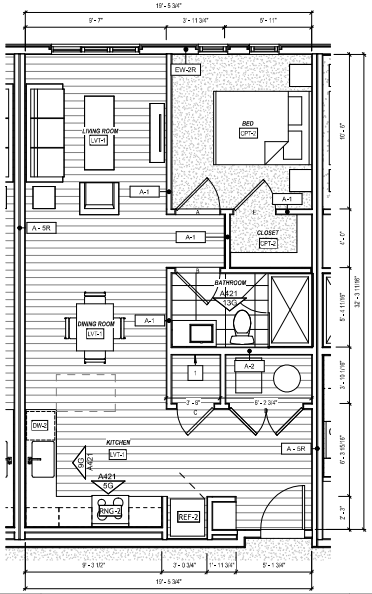
ENLARGED RCP
1/4" = 1'-0"
9A



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ENLARGED PLAN
1/4" = 1'-0"
5A

UNIT KEYED NOTES

#	DESCRIPTION
1	WASHER/DRYER HOOKUPS, RE. MEP.

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jmgmep.com
601.345.2950

STRUCTURAL
MIKE GODFREY
steelframer@bellsouth.net
601.545.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@thcpowersource.us
601.649.4920

LANDSCAPE
AUSTIN LOVITT
austin.jlm@mikeshaffer.com
601.545.1555

DEVELOPER
WALKER THRASH
walker@worthdev.com
601.213.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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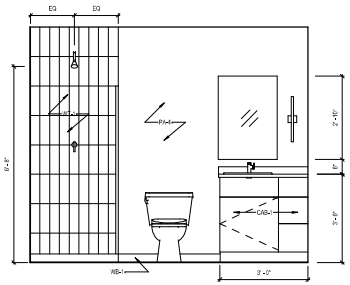
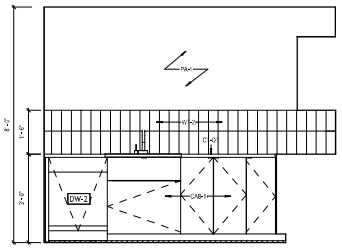
ENLARGED UNIT PLANS & ELEVATIONS - 1 BED

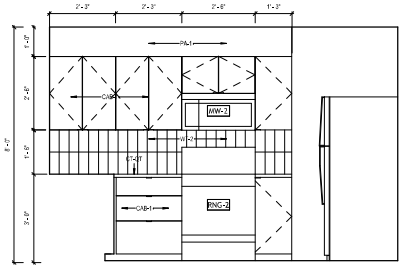
A421



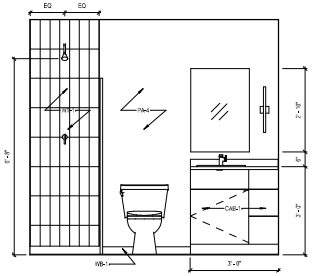
INTERIOR ELEVATION	13G



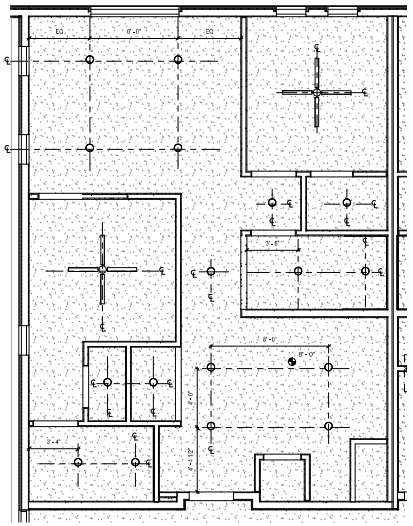
INTERIOR ELEVATION 1/2" = 1'-0"	9G



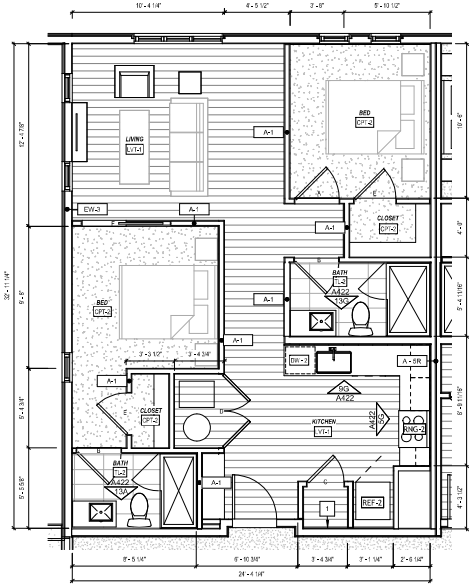
INTERIOR ELEVATION 1/2" = 1'-0"	5G



INTERIOR ELEVATION 1/2" = 1'-0"	13A



ENLARGED RCP 1/4" = 1'-0"	9A



ENLARGED PLAN 1/4" = 1'-0"	5A

UNIT KEYED NOTES

#	DESCRIPTION
1	WASHER/DRYER HOOKUPS, RE. MEP.

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jdgmep.com
601.345.2050

STRUCTURAL
MIKE GODFREY
steve@hoenerstructural.net
601.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.649.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
601.345.1555

DEVELOPER
WALKER THRASH
walker@venturellc.com
662.371.2402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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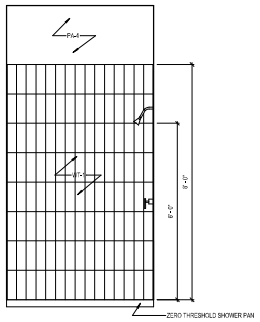
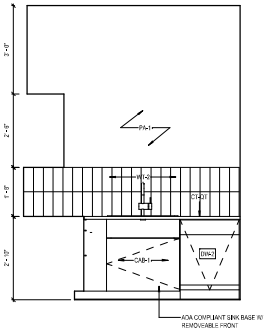
ENLARGED UNIT PLANS & ELEVATIONS - 2 BED

A422



INTERIOR ELEVATION
1/2" = 1'-0"
13E



INTERIOR ELEVATION
1/2" = 1'-0"
8E

UNIT KEYED NOTES	
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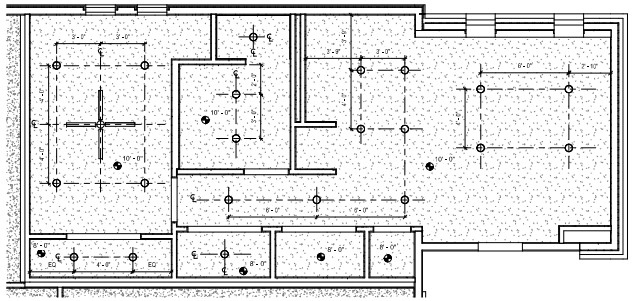
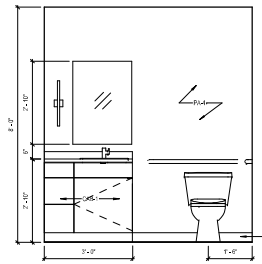
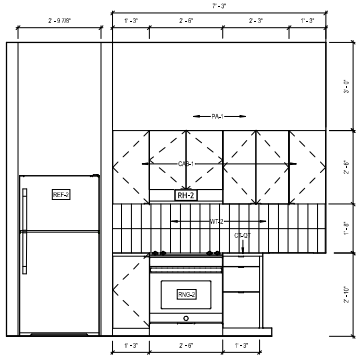


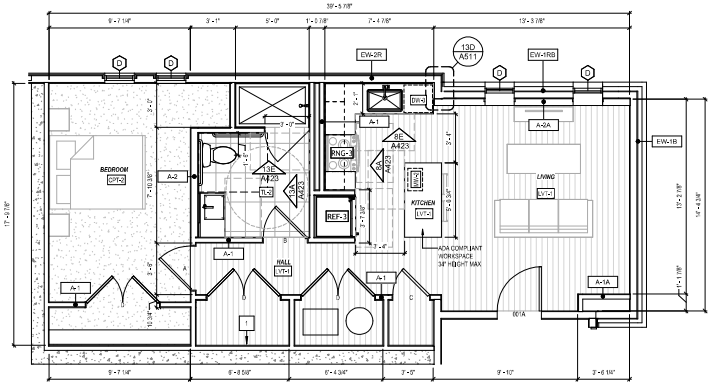
ENLARGED RCP
1/4" = 1'-0"
1E



INTERIOR ELEVATION
1/2" = 1'-0"
13A



INTERIOR ELEVATION
1/2" = 1'-0"
8A



ENLARGED PLAN
1/4" = 1'-0"
1A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jmgmep.com
913.C.M.C.0783

STRUCTURAL
MIKE GODFREY
steve@hoener@jbconsult.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
913.381.2000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.C.M.C.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
913.345.1555

DEVELOPER
WALKER THRASH
walker@vertikalkc.com
816.CITY.LAND

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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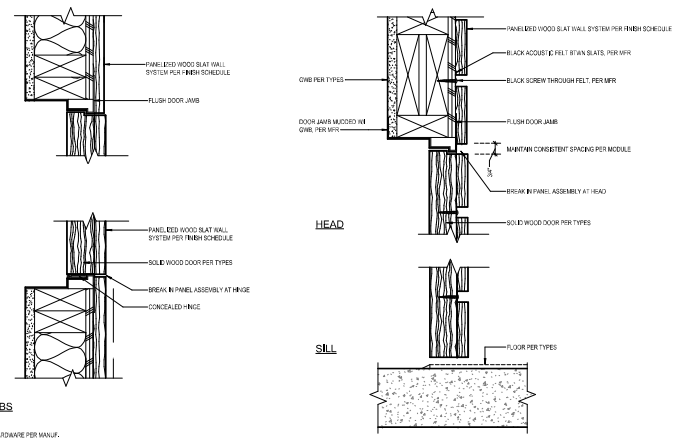
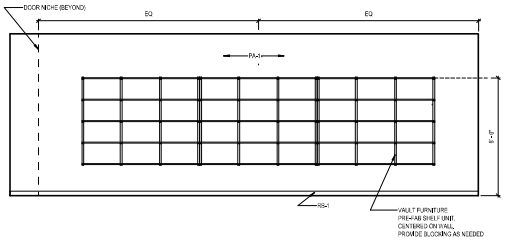
ENLARGED UNIT PLANS &
ELEVATIONS - 1 BED - TYPE A

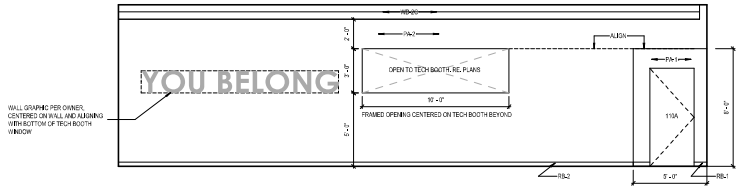
A423



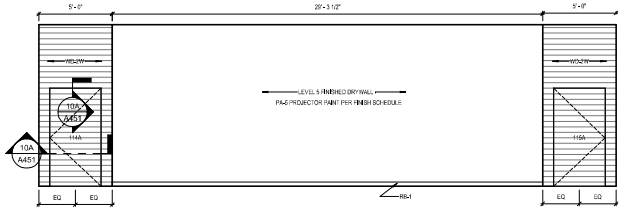
SECTION DETAIL 3" = 1'-0" **10A**



INTERIOR ELEVATION 1/4" = 1'-0" **1F**



INTERIOR ELEVATION 1/4" = 1'-0" **1C**



INTERIOR ELEVATION 1/4" = 1'-0" **1A**

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engrnw.com
913.C.W.GROSS

ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
913.C.W.GROSS

DEVELOPER
WALKER THRASH
walker@worthkc.com
816.CITY.LAND

STRUCTURAL
MIKE GODFREY
steveathorner@kcmosd.net
913.C.W.GROSS

LANDSCAPE
AUSTIN LOVITT
austin.jlam@makethatlike.com
913.C.W.GROSS

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
913.381.2000

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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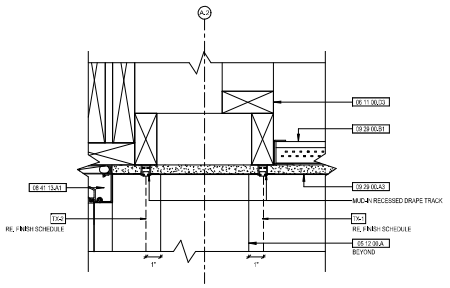
INTERIOR ELEVATIONS

A451



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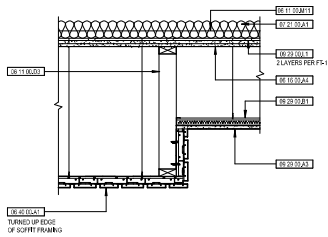

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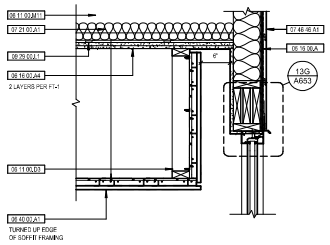

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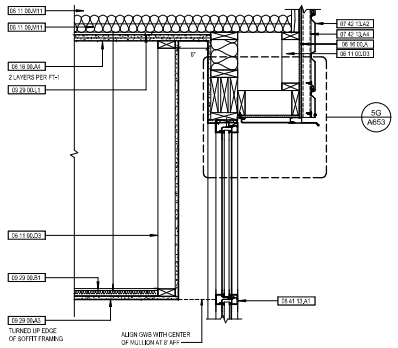

SECTION DETAIL	1E
1" = 1'-0"	

KEYNOTES

NUMBER	DESCRIPTION
05 12 00.A	STEEL COLUMN, RE: STRUCT
06 11 00.D3	2X FRAMING
06 11 00.M11	SHOP FABRICATED WOOD JOISTS, RE: STRUCT
06 16 00.A	5/8" ZIP SHEATHING WITH INTEGRAL WEATHER BARRIER
06 16 00.A4	5/8" TYPE X GYPSUM SHEATHING
06 40 00.A1	INTERIOR WOOD LINEAR SOFFIT PANEL, RE: FINISH SCHEDULE, CLIP SYSTEM PER MANUFACTURER
07 21 00.A1	BATT INSULATION
07 42 13.A2	MORIN METAL PANEL, RE: FINISH SCHEDULE AND SPEC
07 42 13.A4	Z GIRT, RE: MANUF. INSTALL INSTRUCTIONS
07 46 46 A1	HARDIE FIBER CEMENT SIDING, ARTISAN SHIPLAP SIDING, COLOR PER FINISH LEGEND
08 41 13.A1	EXTERIOR STOREFRONT, REF EXTERIOR ELEVATIONS
09 29 00.A3	5/8" GWB, PAINTED, FINISH PER SPEC AND LEGEND
09 29 00.B1	1 ½" DRYWALL GRID
09 29 00.L1	RESILIENT CHANNEL

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engrnw.com
KY LIC.(PE)

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
KY LIC.(PE)

DEVELOPER
WALKER THRASH
walker@yardbuilt.com
KS LIC.(LAND)

STRUCTURAL
MIKE GODFREY
steve@morrow@jbconsult.net
KS LIC.(PE)

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
KS LIC.(LAND)

CIVIL ENGINEERING
SHELBY MURRAY
smurray@jbconsultengineers.com
KS LIC.(PE)

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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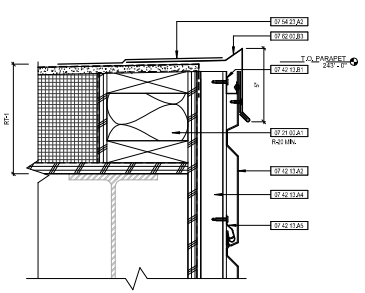
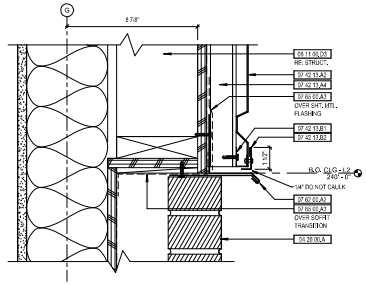
INTERIOR DETAILS

A452



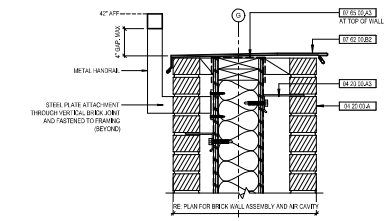
SECTION DETAIL
3" = 1'-0"

13G



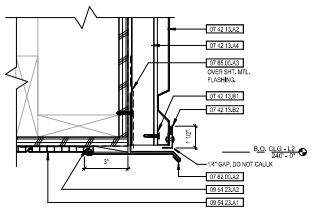
SECTION DETAIL
3" = 1'-0"

9G



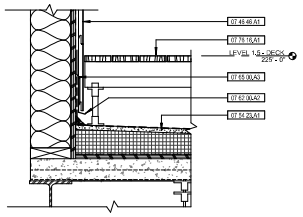
SECTION DETAIL
1 1/2" = 1'-0"

5G



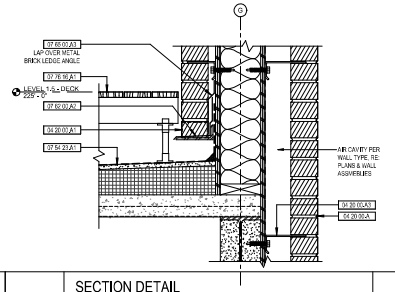
SECTION DETAIL
3" = 1'-0"

13D



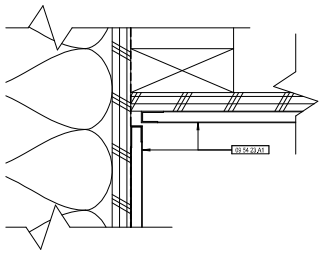
SECTION DETAIL
1 1/2" = 1'-0"

9D



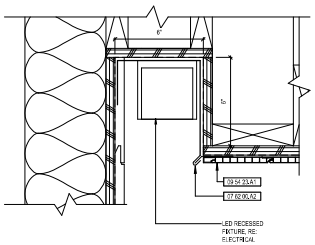
SECTION DETAIL
1 1/2" = 1'-0"

5D



SECTION DETAIL
6" = 1'-0"

13A



SECTION DETAIL
3" = 1'-0"

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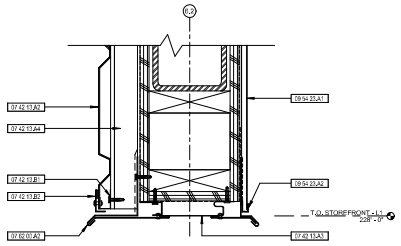

SECTION DETAIL
3" = 1'-0"

5A

KEYNOTES

NUMBER	DESCRIPTION
04 20 00.A	BRICK, REF ELEVATIONS
04 20 00.A1	MASONRY WEEP VENT
04 20 00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
06 11 00.D3	2X FRAMING
07 21 00.A1	BATT INSULATION
07 42 13.A2	MORIN METAL PANEL, RE: FINISH SCHEDULE AND SPEC
07 42 13.A3	MORIN SOFFIT PANEL, RE: FINISH SCHEDULE AND SPEC, COLOR TO MATCH M-1
07 42 13.A4	Z GIRT, RE: MANUF. INSTALL INSTRUCTIONS
07 42 13.A5	MORIN PANEL CLIP, RE: MANUF. INSTALL INSTRUCTIONS
07 42 13.B1	FILLER FLASHING, RE: MANUF. INSTALLATION INSTRUCTIONS
07 42 13.B2	METAL EDGE FLASHING, COLOR TO MATCH M-1
07 46 46.A1	HARDIE FIBER CEMENT SIDING, ARTISAN SHIPLAP SIDING, COLOR PER FINISH LEGEND
07 54 23.A1	TPO MEMBRANE ROOFING
07 54 23.A2	TPO MEMBRANE FLASHING STRIP, HEAT WELD TO SHEET METAL GRAVEL STOP AND ROOF MEMBRANE
07 62 00.A2	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH M-1
07 62 00.B2	LOW PROFILE, PREFINISHED SHEET METAL COPING, COLOR TO MATCH M-1
07 62 00.B3	PREFINISHED SHEET METAL GRAVEL STOP, COLOR TO MATCH M-1
07 65 00.A3	FLASHING TAPE
07 76 16.A1	DECKING PLANKS ON RAISED PEDESTAL SYSTEM, RE: SPEC
09 54 23.A1	DIRECT ATTACH LINEAR METAL CEILING PANEL
09 54 23.A2	TERMINATION CHANNEL PER MANUFACTURER

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jmgmep.com
913.C90.0760

STRUCTURAL
MIKE GODFREY
steve@hoener@jbconsult.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.C90.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefield.com
913.345.1555

DEVELOPER
WALKER THRASH
walker@ventralliv.com
662.217.2402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR DETAILS

A501

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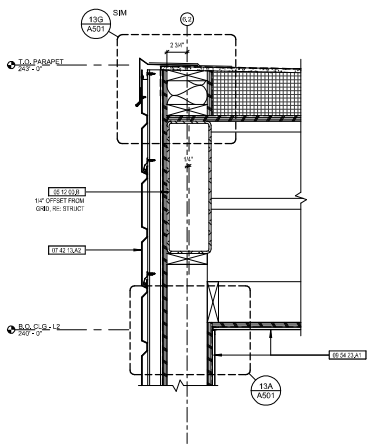
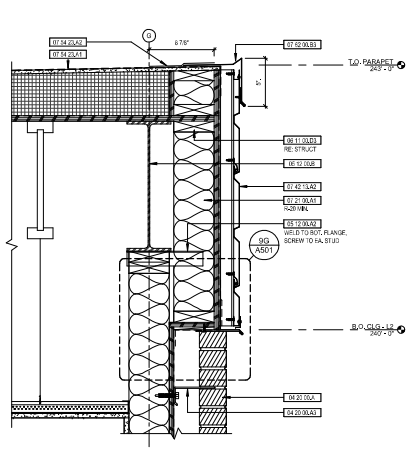


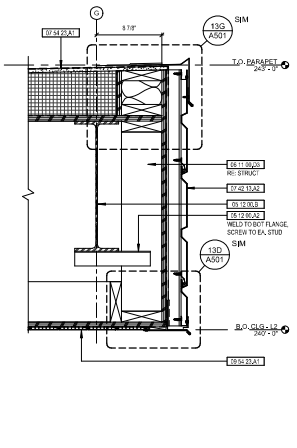
SECTION DETAIL
1 1/2" = 1'-0"

13E



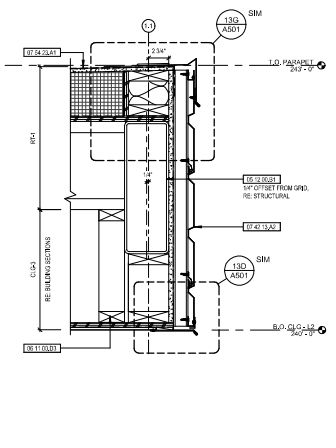
SECTION DETAIL
1 1/2" = 1'-0"

9E



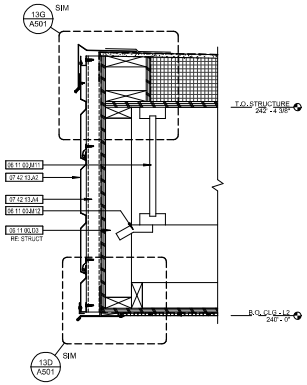
SECTION DETAIL
1 1/2" = 1'-0"

5E



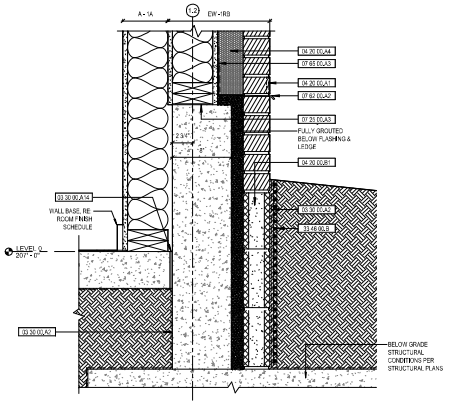
SECTION DETAIL
1 1/2" = 1'-0"

1E



SECTION DETAIL
1 1/2" = 1'-0"

13A



SECTION DETAIL
1 1/2" = 1'-0"

9A

KEYNOTES

NUMBER	DESCRIPTION
03 30 00.A2	VAPOR RETARDER
03 30 00.A14	CONTINUOUS COMPRESSIBLE FILLER & JOINT SEALANT AT SLAB EDGE
04 20 00.A	BRICK, REF ELEVATIONS
04 20 00.A1	MASONRY WEEP VENT
04 20 00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
04 20 00.A4	MORTAR NET
04 20 00.B1	4" X 8" X 16" CMU
05 12 00.A2	STEEL ANGLE, RE: STRUCT
05 12 00.B	STEEL BEAM, RE: STRUCT
05 12 00.B1	STEEL TUBE, RE: STRUCT
06 11 00.D3	2X FRAMING
06 11 00.M11	SHOP FABRICATED WOOD JOISTS; RE: STRUCT
06 11 00.M12	SIMPSON HURRICANE CLIP, RE: STRUCT
07 21 00.A1	BATT INSULATION
07 25 00.A3	SILL GASKET
07 42 13.A2	MORIN METAL PANEL, RE, FINISH SCHEDULE AND SPEC
07 42 13.A4	Z GIRT, RE: MANUF, INSTALL INSTRUCTIONS
07 54 23.A1	TPO MEMBRANE ROOFING
07 54 23.A2	TPO MEMBRANE FLASHING STRIP, HEAT WELD TO SHEET METAL GRAVEL STOP AND ROOF MEMBRANE
07 62 00.A2	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH M-1
07 62 00.B3	PREFINISHED SHEET METAL GRAVEL STOP, COLOR TO MATCH M-1
07 65 00.A3	FLASHING TAPE
09 54 23.A1	DIRECT ATTACH LINEAR METAL CEILING PANEL
33 46 00.B	SUBGRADE DRAINAGE MAT & FILTER FABRIC

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jgmgmt.com
601.345.2950
STRUCTURAL
MIKE GODFREY
mike@mwengr@comcast.net
601.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
shelby@buckenterprises.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.345.4500
LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefield.com
601.345.1555
DEVELOPER
WALKER THRASH
walker@ventkillco.com
662.371.2462

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR DETAILS

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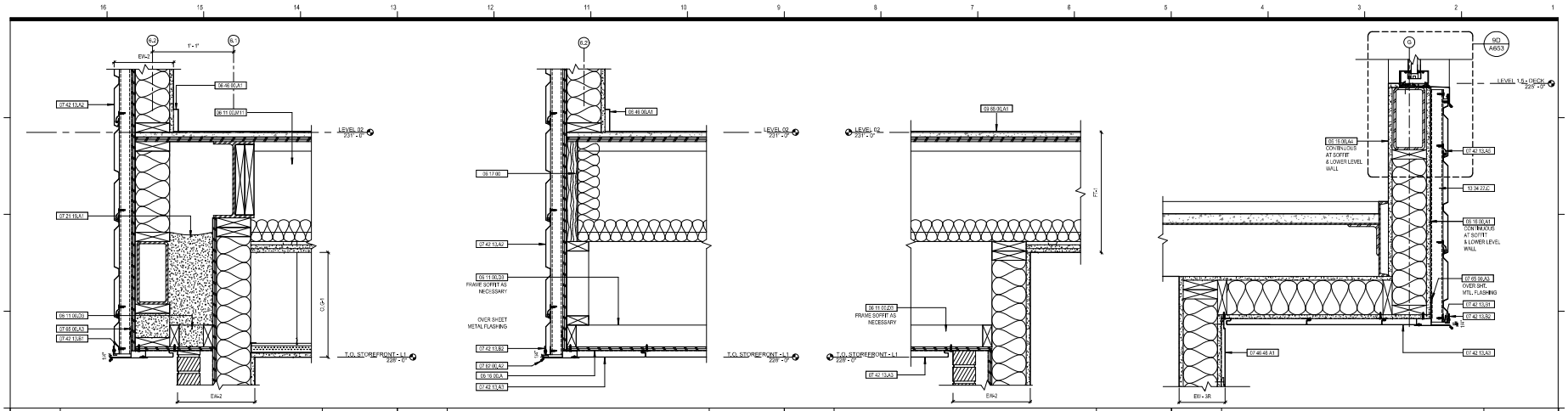
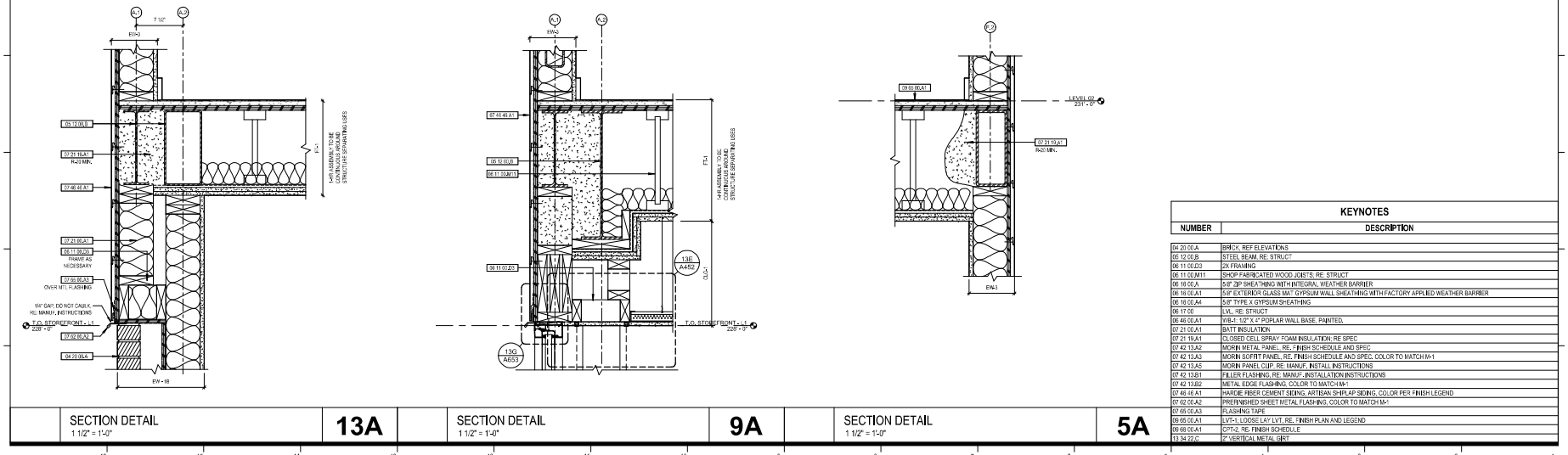


SECTION DETAIL 1 1/2" = 1'-0"	13F	SECTION DETAIL 1 1/2" = 1'-0"	9F	SECTION DETAIL 1 1/2" = 1'-0"	5F	SECTION DETAIL 1 1/2" = 1'-0"	1F



SECTION DETAIL 1 1/2" = 1'-0"	13A	SECTION DETAIL 1 1/2" = 1'-0"	9A	SECTION DETAIL 1 1/2" = 1'-0"	5A

KEYNOTES

NUMBER	DESCRIPTION
04 20 00.A	BRICK, REF ELEVATIONS
05 12 00.B	STEEL BEAM, RE: STRUCT
06 11 00.D3	2X FRAMING
06 11 00.M11	SHOP FABRICATED WOOD JOISTS, RE: STRUCT
06 16 00.A	5/8" ZIP SHEATHING WITH INTEGRAL WEATHER BARRIER
06 16 00.A1	5/8" EXTERIOR GLASS MAT GYPSUM WALL SHEATHING WITH FACTORY APPLIED WEATHER BARRIER
06 16 00.A4	5/8" TYPE X GYPSUM SHEATHING
06 17 00	LVL, RE: STRUCT
06 46 00.A1	WB-1; 1/2" X 4" POPLAR WALL BASE, PAINTED.
07 21 00.A1	BATT INSULATION
07 21 19.A1	CLOSED CELL SPRAY FOAM INSULATION; RE SPEC
07 42 13.A2	MORIN METAL PANEL, RE.: FINISH SCHEDULE AND SPEC
07 42 13.A3	MORIN SOFFIT PANEL, RE: FINISH SCHEDULE AND SPEC, COLOR TO MATCH M-1
07 42 13.A5	MORIN PANEL CUP, RE: MANUF, INSTALL INSTRUCTIONS
07 42 13.B1	FILLER FLASHING, RE: MANUF, INSTALLATION INSTRUCTIONS
07 42 13.B2	METAL EDGE FLASHING, COLOR TO MATCH M-1
07 46 46.A1	HARDIE FIBER CEMENT SIDING, ARTISAN, SHIPLAP SIDING, COLOR PER FINISH LEGEND
07 62 00.A2	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH M-1
07 65 00.A3	FLASHING TAPE
09 65 00.A1	LVT-1; LOOSE LAY LVT, RE: FINISH PLAN AND LEGEND
09 68 00.A1	CPT-2, RE: FINISH SCHEDULE
13 34 22.C	2" VERTICAL METAL GIRT

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@engrus.com
KY LIC.#31950

STRUCTURAL
MING GODFREY
seandhoerner@bconnect.net
KY LIC.#21555

CIVIL ENGINEERING
SHELBY MURRAY
smurray@pbcivilengineers.com
KY LIC.#31,2000

ELECTRICAL
CHRIS GREEN
cgreen@thcpowersource.us
KY LIC.#31950

LANDSCAPE
AUSTIN LOVITT
austin.jlam@makeshiftlee.com
KY LIC.#21555

DEVELOPER
WALKER THRASH
walker@worthillco.com
KY LIC.#11,2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR DETAILS

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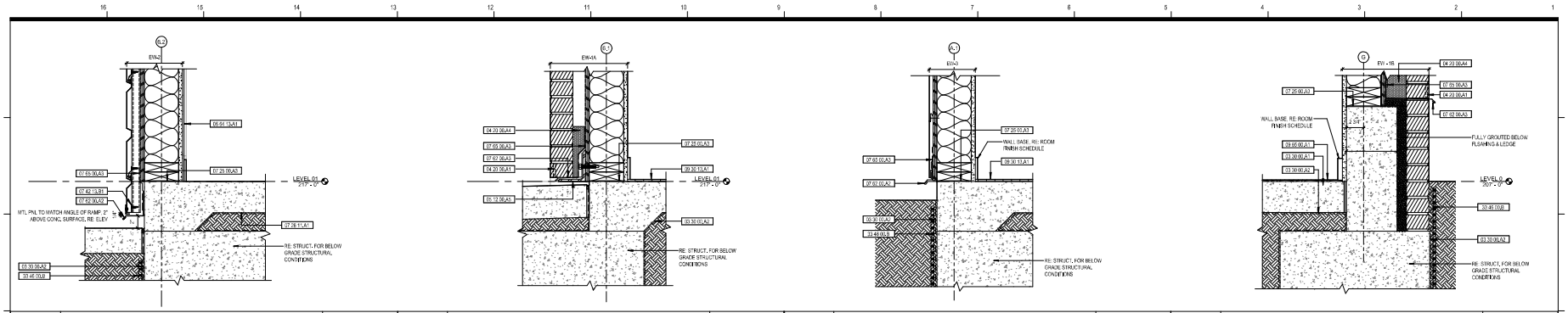
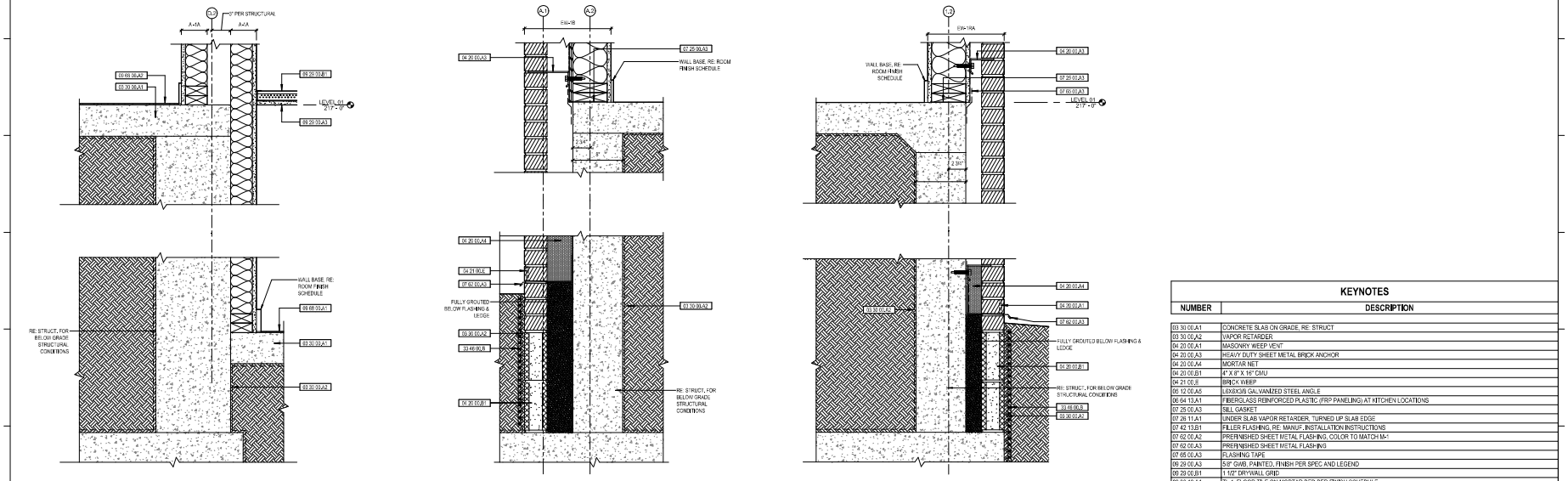


SECTION DETAIL 1 1/2" = 1'-0"	13F	SECTION DETAIL 1 1/2" = 1'-0"	9F	SECTION DETAIL 1 1/2" = 1'-0"	6F	SECTION DETAIL 1 1/2" = 1'-0"	1F



SECTION DETAIL 1 1/2" = 1'-0"	13A	SECTION DETAIL 1 1/2" = 1'-0"	9A	SECTION DETAIL 1 1/2" = 1'-0"	5A

KEYNOTES

NUMBER	DESCRIPTION
03 30 00.A1	CONCRETE SLAB ON GRADE, RE: STRUCT
03 30 00.A2	VAPOR RETARDER
04 20 00.A1	MASONRY WEEP VENT
04 20 00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
04 20 00.A4	MORTAR NET
04 20 00.B1	4" X 8" X 16" CMU
04 21 00.E	BRICK VEER
05 12 00.A5	L6X6X5 GALVANIZED STEEL ANGLE
06 64 13.A1	FIBERGLASS REINFORCED PLASTIC (FRP PANELING) AT KITCHEN LOCATIONS
07 25 00.A3	SILL GASKET
07 26 11.A1	UNDER SLAB VAPOR RETARDER, TURNED UP SLAB EDGE
07 42 13.B1	FILLER FLASHING, RE: MANUF. INSTALLATION INSTRUCTIONS
07 62 00.A2	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH M-1
07 62 00.A3	PREFINISHED SHEET METAL FLASHING
07 65 00.A3	FLASHING TAPE
09 29 00.A3	5/8" GWB, PAINTED, FINISH PER SPEC AND LEGEND
09 29 00.B1	1 1/2" DRYWALL GRID
09 30 13.A1	TL-1, FLOOR TILE ON MORTAR BED PER FINISH SCHEDULE
09 65 00.A1	LVT-1; LOOSE LAY LVT, RE. FINISH PLAN AND LEGEND
09 68 00.A1	CPT-2, RE. FINISH SCHEDULE
09 68 00.A2	CPT-1, RE. FINISH SCHEDULE
33 46 00.B	SUBGRADE DRAINAGE MAT & FILTER FABRIC

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON CROSS
jgross@jpmgmu.com
KY LIC.(PE)

ELECTRICAL
CHRIS GREEN
cgreen@thcpowersource.us
KY LIC.#(E)

DEVELOPER
WALKER THRASH
walker@ventkc.com
KS LIC.# (LA)

STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
KS LIC.(SE)

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilsonhaffke.com
KS LIC.(LA)

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
KS LIC.(PE)

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR DETAILS

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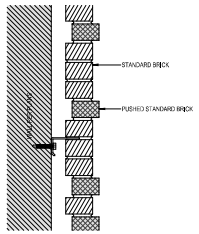
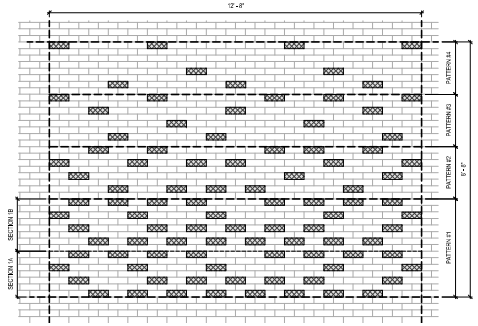


NOTE: PATTERN PER ELEVATIONS (SAMA)
NOTE: ALL BRICK TO BE OF SAME SIZE AND COLOR. PUSHED BRICKS TO PROJECT OUTWARD FROM FACE OF WALL ACHIEVE PATTERN RE: SAMA.

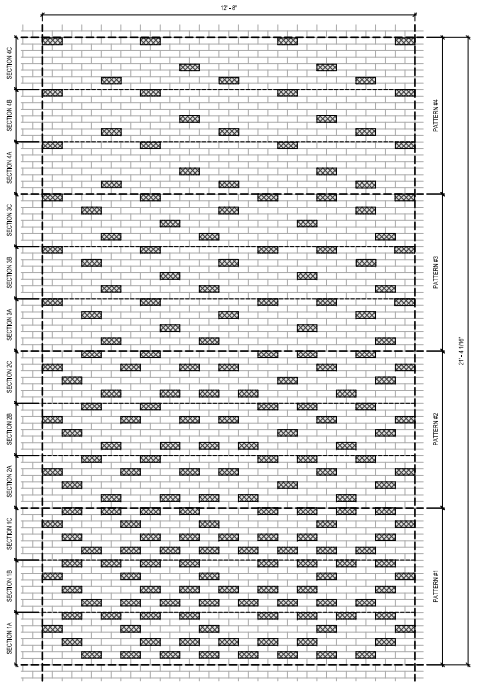
	ENLARGED DETAIL 1 1/2" = 1'-0"	13F



NOTE: ALL 4 PATTERNS CORRESPOND TO SAME PATTERNS IN DETAIL SAMA05
NOTE: ONLY PATTERN #1 TO HAVE 2 REPEATING SECTIONS AT REAR LOCATION

REFERENCE EXTERIOR ELEVATIONS FOR CRITICAL BUILDING ALIGNMENTS, TO BE COORDINATED IN SHOP DRAWINGS

	ENLARGED ELEVATION 1/2" = 1'-0"	9A



NOTE: ALL 4 PATTERNS REPRESENT A UNIQUE SET OF 3 REPEATING SECTIONS
NOTE: ALL 3 SECTIONS (WITHIN A PATTERN) REPRESENT THE SAME SET OF 3 REPEATING ROWS

REFERENCE EXTERIOR ELEVATIONS FOR CRITICAL BUILDING ALIGNMENTS, TO BE COORDINATED IN SHOP DRAWINGS

	ENLARGED ELEVATION 1/2" = 1'-0"	5A

1/16/2026 5:28:37 PM

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jmgmep.com
816.CALL.JMG

STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
816.945.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
601.261.2000

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
601.649.4920

LANDSCAPE
AUSTIN LOVITT
austin.jlan@makestuffbe.com
601.940.1555

DEVELOPER
WALKER TWRASH
walker@vertikalllc.com
662.371.2462

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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EXTERIOR DETAILS

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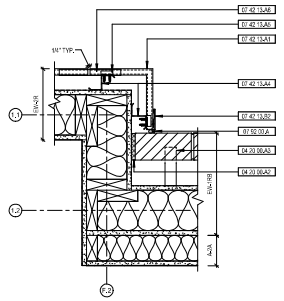
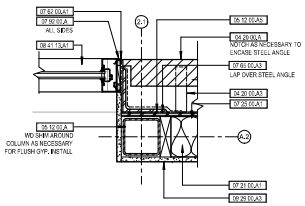


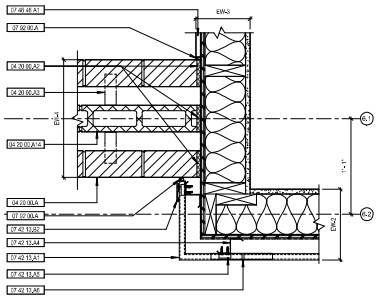
PLAN DETAIL
1 1/2" = 1'-0"

13D



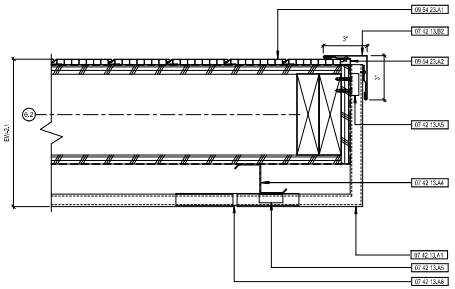
PLAN DETAIL
1 1/2" = 1'-0"

9D



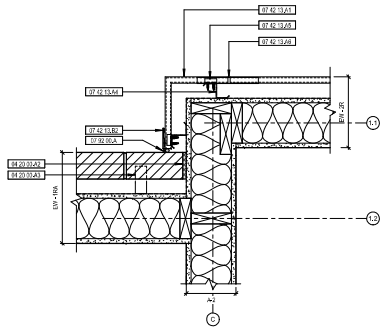
PLAN DETAIL
1 1/2" = 1'-0"

5D



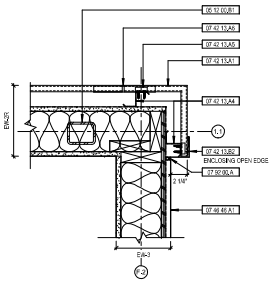
PLAN DETAIL
3" = 1'-0"

1E



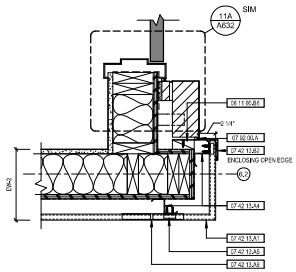
PLAN DETAIL
1 1/2" = 1'-0"

13A



PLAN DETAIL
1 1/2" = 1'-0"

9A



PLAN DETAIL
1 1/2" = 1'-0"

5A

KEYNOTES

NUMBER	DESCRIPTION
04 20.00.A	BRICK, REF ELEVATIONS
04 20.00.A2	MIN. 1/2" DRAINAGE PATH - FILL W/ FREE DRAINING NEOPRENE COMPRESSIBLE MATERIAL
04 20.00.A3	HEAVY DUTY SHEET METAL BRICK ANCHOR
04 20.00.A14	
05 12.00.A	STEEL COLUMN, RE: STRUCT
05 12.00.A5	L6X6X3/8 GALVANIZED STEEL ANGLE
05 12.00.B1	STEEL TUBE, RE: STRUCT
06 11.00.B6	TREATED WOOD NAILER
07 21.00.A1	BATT INSULATION
07 25.00.A1	WEATHER RESISTIVE BARRIER
07 42.13.A1	MORIN MITERSEAM CORNER PANEL
07 42.13.A4	Z GIRT, RE: MANUF, INSTALL INSTRUCTIONS
07 42.13.A5	MORIN PANEL CUP, RE: MANUF, INSTALL INSTRUCTIONS
07 42.13.A6	MORIN SPLICE PLATE, RE: MANUF, INSTALL INSTRUCTIONS
07 42.13.B2	METAL EDGE FLASHING, COLOR TO MATCH M-1
07 46.46.A1	HARDIE FIBER CEMENT SIDING, ARTISAN SHIPLAP SIDING, COLOR PER FINISH LEGEND
07 62.00.A1	PREFINISHED SHEET METAL FLASHING, COLOR TO MATCH ADJACENT WINDOWS
07 65.00.A3	FLASHING TAPE
07 92.00.A	CONTINUOUS SEALANT AND BACKER ROD
08 41.13.A1	EXTERIOR STOREFRONT, REF EXTERIOR ELEVATIONS
09 29.00.A3	5/8" GWB, PAINTED, FINISH PER SPEC AND LEGEND
09 54 23.A1	DIRECT ATTACH LINEAR METAL CEILING PANEL
09 54 23.A2	TERMINATION CHANNEL PER MANUFACTURER

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@gmgnw.com
KY LIC.(JFR)

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
KY LIC.(JFR)

CIVIL ENGINEERING
SHELBY MURRAY
shelby@discoverengineers.com
KY LIC.(JFR)

ELECTRICAL
CHRIS GREEN
cgreen@incpowersource.us
KY LIC.(JFR)

LANDSCAPE
AUSTIN LOVITT
austin.jlan@makeshiftlex.com
KY LIC.(JFR)

DEVELOPER
WALKER THRASH
walker@vertikalllc.com
KY LIC.(JFR)

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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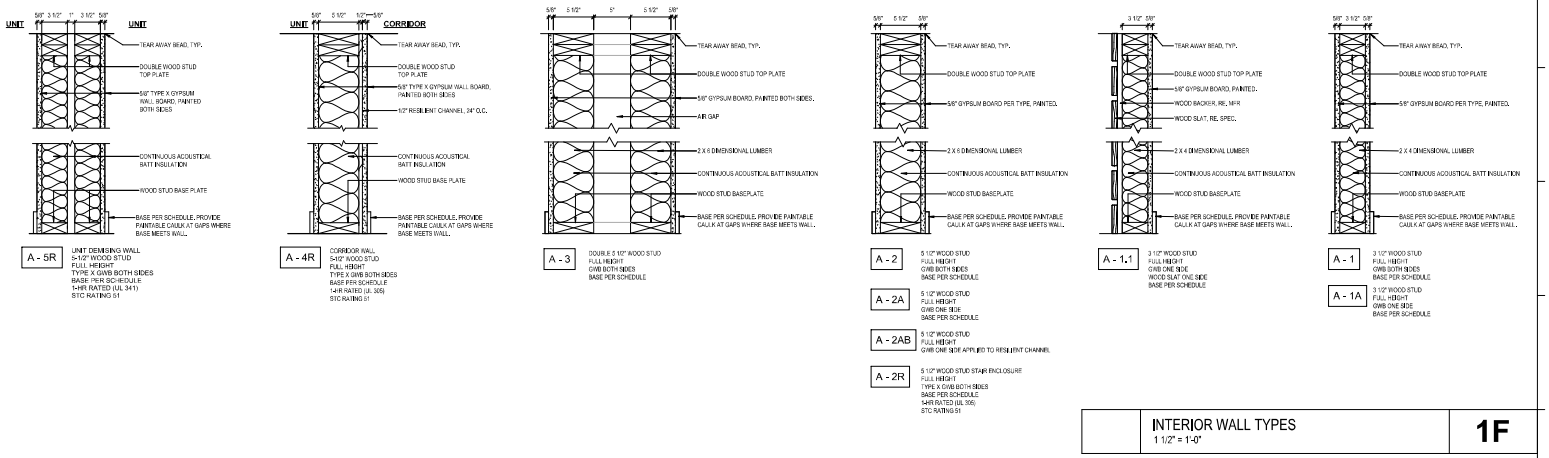
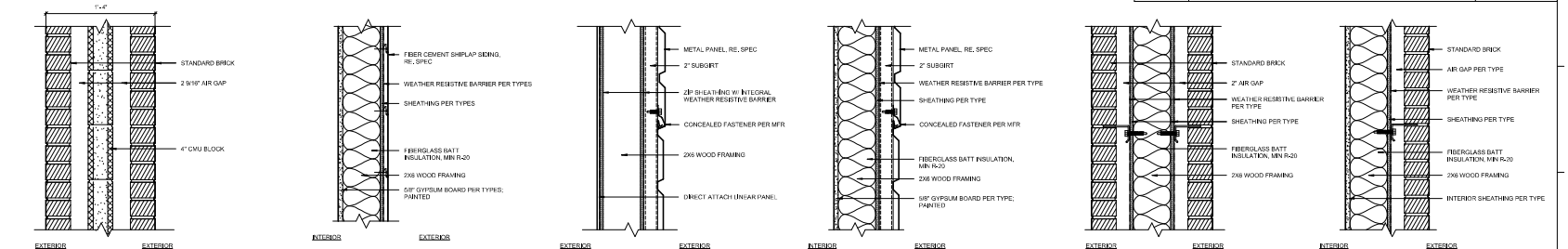
PLAN DETAILS

A511



INTERIOR WALL TYPES
1 1/2" = 1'-0"

1F



EXTERIOR WALL TYPES
1 1/2" = 1'-0"

1A

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@kjmgmu.com
601.982.0783
STRUCTURAL
MIKE GODFREY
steve@hoenerc@comcast.net
601.940.1000
CIVIL ENGINEERING
SHELBY MURRAY
smurray@stevenengineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.948.4600
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@meadhaffaker.com
601.940.1000
DEVELOPER
WALKER THRASH
walker@vertikalllc.com
601.214.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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WALL TYPES

A601

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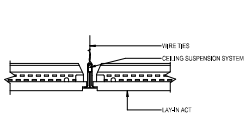
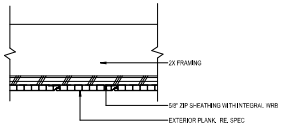
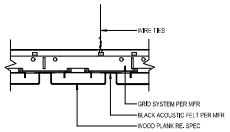


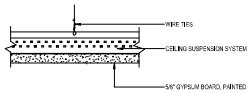
ACT-1 ACOUSTIC CEILING TILE CEILING



CLG-3 WOOD PLANK CEILING (EXTERIOR)



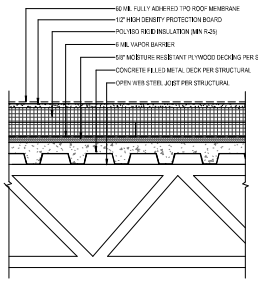
CLG-2 WOOD PLANK CEILING (INTERIOR)



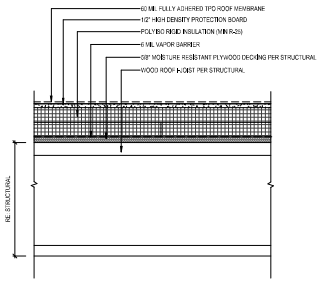
CLG-1 SUSPENDED GYPSUM BOARD

CEILING TYPES
3" = 1'-0"

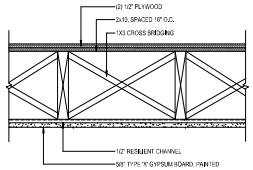
1G



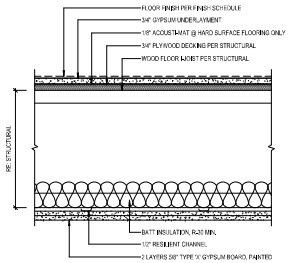
RT-2 TPO ROOF CONCRETE DECK



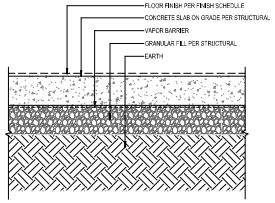
RT-1 TPO ROOF WOOD I-JOISTS



FT-2 1 HR FLOOR ASSEMBLY (UL L569)



FT-1 1 HR FLOOR ASSEMBLY (UL L570) STC 59



SG-1 CONCRETE SLAB ON GRADE FINISH PER SCHEDULE

HORIZONTAL ASSEMBLIES
1 1/2" = 1'-0"

1A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engrsys.com
KS LIC#12760

ELECTRICAL
CHRIS GREEN
cgreen@kcpowersource.us
KS LIC#14520

DEVELOPER
WALKER THRASH
walker@vertikalllc.com
KS LIC#11442

STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
KS LIC#12020

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilsonbutler.com
KS LIC#01055

CIVIL ENGINEERING
SHELBY MURRAY
smurray@kcconsultingservices.com
KS LIC#12020

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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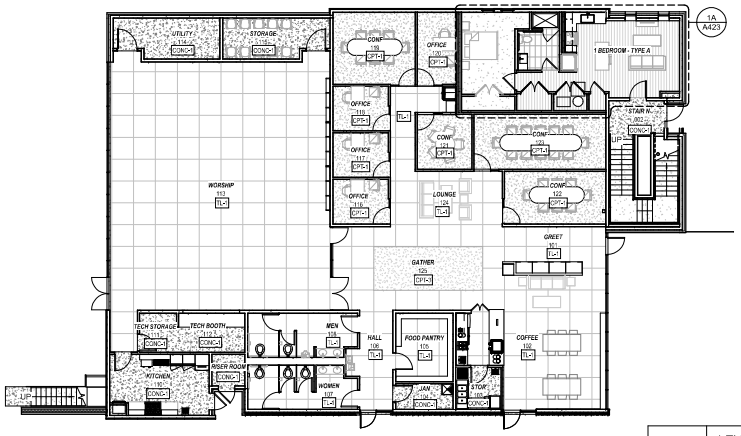
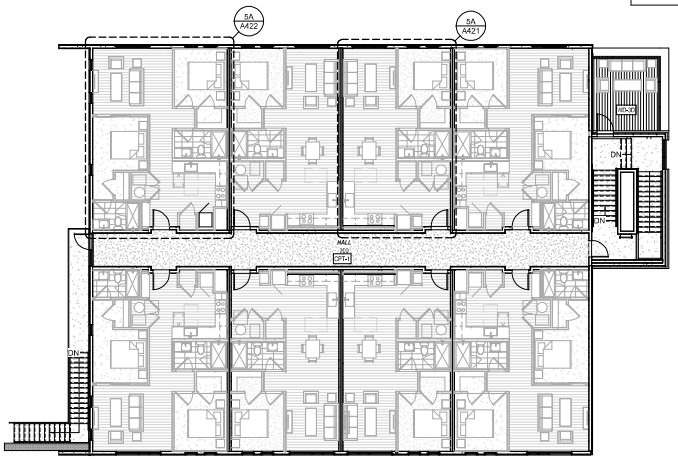
HORIZONTAL ASSEMBLIES

A602



LEVEL 1 - FINISHED FLOOR PLAN
3/32" = 1'-0"

5E



LEVEL 2 - FINISH PLAN
3/32" = 1'-0"

5A

FINISH PLAN - INTERIOR GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHED THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. DASHED LINES INDICATE OVERHEAD ITEMS ABOVE, RE RCP AND ROOF PLANS.
C. ON WALLS WHERE GRAPHICS / SIGNAGE OCCUR PROVIDE LEVEL 5 FIN. AT THESE LOCATIONS NO EXIT SIGNS OR ANY ELECT / FIRE ALARM / MECH / ETC. DEVICES SHALL BE INSTALLED. IF CONFLICT EXISTS, NOTIFY ARCHITECT FOR RESOLUTION.
D. VERIFY ALL DIMS INDICATED AS "FIELD VERIFY" OR "FV" ON THE DWGS PRIOR TO CONST. REPORT ANY ISSUES TO ARCHITECT.
E. PROVIDE NON-COMBUSTIBLE MATERIALS IN RETURN PLENUMS (WALLS AND SOFFIT).
F. ALL FIN (TILE, CLGS, CARPET, ETC.) STARTING & STOPPING POINTS TO BE DETERMINED BY ARCHITECT IN FIELD.
G. PROVIDE 4" X 4" PT SWATCH OF EA COLOR SCHED FOR REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
H. PROVIDE 4" X 4" STAIN SWATCH OF EA COLOR SCHED FOR R REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
J. PROVIDE 10' X 10' MOCK-UP OF EA CARPET TILE PATTERN FOR REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
K. PAINT HOLLOW MTL DRS AND FRAMES TO MATCH ADJACENT WALLS (SEMI-GLOSS), UNO.
L. ALL GYP BD WALLS SCHEDULED TO BE PTD IN RESTRMS OR OTHER WET LOCATIONS SHALL USE EPOXY TYPE PT.
M. AT TILE LOCATIONS PROVIDE 1/8" GROUT LINES MAX, UNO. PROVIDE MOCK-UP FOR REVIEW PRIOR TO INSTALL.
N. EXTEND ALL FIN (INCLUDING PT) BENEATH, BEHIND AND AROUND FURNITURE, CASEWORK, EQUIP, SIGNAGE, ETC. WHETHER SPECIFICALLY INDICATED OR NOT.
P. PROVIDE CEMENT BD IN LIEU OF GYP BD WHERE WALL "TILE IS SPECIFIED, UNO.
Q. PROVIDE MOCK-UPS OF ALL FLR FOR REVIEW AND ACCEPTANCE PRIOR TO PROCEEDING W/ BALANCE OF INSTALL.
R. ALL DR TRANSITIONS & THRESHOLDS PER SPECS, UNO.
S. ALL BASEBRD CORNERS SHALL BE MITER CUT AND ALL RUNS SHALL BE KERF CUT, PATCH, SAND AND PT ALL FASTENER HOLES IN BASEBDS. FIN PER SCHED.
T. RE FIN SCHED FOR ALL FLR, CLG & WALL FIN.
U. ALL MATERIAL TRANSITIONS TO BE COORD W/ THE SPECS. LOCATIONS AND ALIGNMENTS TO BE DETERMINED BY ARCHITECT PRIOR TO INSTALL.

LVT-1
CPT-1
CPT-2
CPT-3
CONC-1
CONC-2
TL-1
TL-2
WD-3D

FINISH PLAN LEGEND
NOT TO SCALE

KEYNOTES	
NUMBER	DESCRIPTION

FINISH FLOOR PLAN KEYED NOTES	
#	DESCRIPTION

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engnw.com
913.345.2950
STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
913.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
913.381.2000
ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.915.4500
LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilsonhalfter.com
913.345.1555
DEVELOPER
WALKER TIRRASH
walker@vertikalkc.com
402.217.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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FINISH FLOOR PLANS

A610

FINISH INDEX

DIVISION (hide)	CODE	DESCRIPTION	BASIS OF DESIGN/MANUFACTURER	MODEL	COLOR	SIZE	REMARKS
DIVISION 03: CONCRETE							
DIVISION 03: CONCRETE	CONC-1	INTERIOR CONCRETE	POLISHED & SEALED	SALT AND PEPPER GRIND - LOW GLOSS	-	-	-
DIVISION 04: MASONRY							
DIVISION 04: MASONRY	B-1	EXTERIOR BRICK	CHEROKEE	STANDARD	VELOUR PRIMROSE	7 5/8 X 3 5/8 X 2 1/4	CONTACT: ADAM PITTMAN (601-731-0882), COLUMBIA BLOCK AND BRICK
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES							
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	FRP-1	FIBER REINFORCED PANEL	MARLITE	STANDARD PVC TRIM	S 490N LIGHT GREY	-	-
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WB-1	SOLID WOOD BASE	POPLAR DIMENSIONAL LUMBER	-	TO MATCH PA-1	1/2" x 4"	-
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WD-1C	SOLID WOOD CEILING PLANKS	RULON	LINEAR OPEN	STAINED TO MATCH WD-2C	4 1/2" W	
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WD-1W	SOLID WOOD WALL PLANKS	RULON	LINEAR PANELIZED	STAINED TO MATCH WD-2C	4 1/2" W	
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WD-2C	SOLID WOOD CEILING PLANKS	RULON	ENDURE LINEAR 400	NATURAL MAPLE 413	4" W	-
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WD-2W	SOLID WOOD WALL PLANKS	RULON	ENDURE LINEAR 400	NATURAL MAPLE 413	4" W	-
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	WD-3D	PRESSURE TREATED DECK BOARDS	-	-	STAINED TO MATCH WD-2C	1 1/4 X 6"	
DIVISION 07: THERMAL AND MOISTURE PROTECTION							
DIVISION 07: THERMAL AND MOISTURE PROTECTION	FC-1	FIBER CEMENT SIDING	JAMES HARDIE	ARTISAN SHIPLAP SIDING - SMOOTH	PPG518-1 DELICATE WHITE	10.250" PANEL, 9" EXPOSURE	
DIVISION 07: THERMAL AND MOISTURE PROTECTION	M-1	CORRUGATED METAL PANEL	MORIN	INTEGRITY XAB-16	DARK BRONZE	16" PANELS	
DIVISION 07: THERMAL AND MOISTURE PROTECTION	M-2	FLAT SHEET METAL INFILL	ALUCOBOND	ALUCOLUX	TBD	PER DWGS	
DIVISION 08: DOORS AND WINDOWS							
DIVISION 08: DOORS AND WINDOWS	GL-1	GLAZING		CLEAR		RE: INT. ELEV	
DIVISION 08: DOORS AND WINDOWS	GL-2	GLAZING, FROSTED FILM	LLUMAR DECORATIVE WINDOW FILM	MATTE FROST SERIES - MIST (NRM80 PS2)		RE INT. DTLS	
DIVISION 09: FINISHES							
DIVISION 09: FINISHES	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE 2X2		2 X 2 FT	REFER TO SPEC FOR FINISH
DIVISION 09: FINISHES	CAB-1	SHOP APPLIED SPRAY FINISH CABINET	SAUDER CABINETRY		WHITE COLOR TO MATCH PA-1, SATIN FINISH - 5% MATTE LOW VOC		SAUDER CABINETRY AS B.O.D.
DIVISION 09: FINISHES	CPT-1	CARPET TILE	INTERFACE	LIGHTHEARTED, HEARTBEATS	107400 ENDURANCE	50 CM X 50 CM	INSTALL IN MONOLITHIC ORIENTATION
DIVISION 09: FINISHES	CPT-2	BROADLOOM	SHAW CONTRACT	ENDEAVOR	00541 AMBITION	BROADLOOM	
DIVISION 09: FINISHES	CPT-3	CARPET TILE	INTERFACE	WG100 WOVEN GRADIENCE, 13127	108065 AMBER	50CM X 50 CM	INSTALL IN MONOLITHIC ORIENTATION, INSET INTO SURROUNDING TILE AT RM 125. PROVIDE AS RUG AT RM 101 & 124.
DIVISION 09: FINISHES	LVT-1	LVT	KARNDEAN	LOOSE LAY	NUDE DANISH OAK LLP358	59.06" X 9.84"	
DIVISION 09: FINISHES	PA-1	PAINT	PPG	EGGSHELL	PPG518-1 DELICATE WHITE	-	REFER TO SPEC FOR FINISH
DIVISION 09: FINISHES	PA-2	PAINT	PPG	EGGSHELL	PPG0995-7 STARLESS SKY	-	REFER TO SPEC FOR FINISH
DIVISION 09: FINISHES	PA-3	PAINT	PPG	FLAT	PPG518-1 DELICATE WHITE	-	REFER TO SPEC FOR FINISH
DIVISION 09: FINISHES	PA-4	PAINT	PPG	SEMI-GLOSS	PPG518-1 DELICATE WHITE	-	REFER TO SPEC FOR FINISH
DIVISION 09: FINISHES	PA-5	PROJECTOR PAINT					SPEC PER A/V CONSULTANT
DIVISION 09: FINISHES	PA-5	WOOD CLEAR FINISH	CONVERSION VARNISH	CLEAR	-	-	-
DIVISION 09: FINISHES	RB-1	RUBBER BASE	ROPPE	PINNACLE - TYPE - TS	161 SNOW	4"	-
DIVISION 09: FINISHES	RB-2	RUBBER BASE	ROPPE	PINNACLE - TYPE - TS	100 BLACK	4"	-
DIVISION 09: FINISHES	TL-1	LARGE FORMAT TILE	CONCEPT SURFACES	ICON	DOVE GRAY - MATTE	48" X 48"	-
DIVISION 09: FINISHES	TL-2	TILE	CONCEPT SURFACES	ICON	DOVE GRAY - MATTE	12" X 24"	-
DIVISION 09: FINISHES	WT-1	PORCELAIN WALL TILE	DALTILE	COLOR WHEEL LINEAR	MATTE ARCHITECTURAL GRAY 0709	4" X 12"	VERTICAL STACK BOND
DIVISION 09: FINISHES	WT-2	PORCELAIN WALL TILE	DALTILE	COLOR WHEEL LINEAR	MATTE BISCUIT K775	4" X 12"	VERTICAL STACK BOND
DIVISION 10: SPECIALTIES							
DIVISION 10: SPECIALTIES	MTL-1	BRASS PANEL	OCTOLUX	CLASSIC	ANTIQUE BRASS BRUSHED	4' X 8'	REFER TO SPEC
DIVISION 12: FURNISHINGS							
DIVISION 12: FURNISHINGS	CT-C	LAMINATE COUNTERTOP	FORMICA	COLORCORE2 LAMINATE	909 BLACK - MATTE (58)	-	-
DIVISION 12: FURNISHINGS	CT-Q1	QUARTZ COUTERTOP	DALTILE	ONE QUARTZ MARBLE LOOK	VALOR WHITE - POLISHED	3CM, 136 X 79	-
DIVISION 12: FURNISHINGS	TX-1	TEXTILE - DRAPERY	SAMELSON-CHATELANE	MASCOT	BISQUE	RE: RCP	DOUBLE TRACE TRACK W/ MUD IN FLANGE RE RCP
DIVISION 12: FURNISHINGS	TX-2	TEXTILE - DRAPERY	SAMELSON-CHATELANE	FONT	HEMP	RE: RCP	DOUBLE TRACE TRACK W/ MUD IN FLANGE RE RCP

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH EAST	WALL FINISH NORTH	WALL FINISH SOUTH	WALL FINISH WEST	CEILING FINISH
002	STAIR N	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
003	MAIL	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
101	GREET	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	WD-2C
102	COFFEE	TL-1	RB-1	PA-1	PA-1	PA-2	PA-1	PA-3
103	STOR	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
104	JAN	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
105	FOOD PANTRY	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
106	HALL	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
107	WOMEN	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
108	MEN	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
109	RISER ROOM	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
110	KITCHEN	CONC-1	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1
111	TECH STORAGE	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
112	TECH BOOTH	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
113	WORSHIP	TL-1	RB-1	PA-2	PA-1	PA-1	PA-5	PA-3
114	UTILITY	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
115	STORAGE	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
116	OFFICE	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
117	OFFICE	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
118	OFFICE	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
119	CONF	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
120	OFFICE	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
121	CONF	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
122	CONF	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
123	CONF	CPT-1	RB-1	PA-1	PA-1	PA-1	PA-1	ACT-1
124	LOUNGE	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
125	GATHER	CPT-3	RB-1	PA-2	PA-1	PA-1	PA-1	WD-2C
126	HALL	TL-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
200	HALL	CPT-3	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3
209	STAIR N	CONC-1	RB-1	PA-1	PA-1	PA-1	PA-1	PA-3

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH EAST	WALL FINISH NORTH	WALL FINISH SOUTH	WALL FINISH WEST	CEILING FINISH
1 BED - TYPE A	LIVING	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED - TYPE A	KITCHEN	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED - TYPE A	HALL	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED - TYPE A	BATH	TL-2	WB-1	PA-4	PA-4	PA-4	PA-4	PA-4
1 BED - TYPE A	BEDROOM	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED - TYPE A	CLOSET	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	BED	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	CLOSET	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	BATH	TL-2	WB-1	PA-4	PA-4	PA-4	PA-4	PA-4
1 BED	LIVING	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	ENTRY	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	KITCHEN	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
1 BED	DINING	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	BED	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	BATH	TL-2	WB-1	PA-4	PA-4	PA-4	PA-4	PA-4
2 BED	CLOSET	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	BATH	TL-2	WB-1	PA-4	PA-4	PA-4	PA-4	PA-4
2 BED	BED	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	LIVING	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	KITCHEN	LVT-1	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3
2 BED	CLOSET	CPT-2	WB-1	PA-1	PA-1	PA-1	PA-1	PA-3

FINISH SCHEDULE GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHEDULE THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. ON WALLS WHERE GRAPHICS / SIGNAGE OCCUR PROVIDE LEVEL 5 FIN. AT THESE LOCATIONS NO EXIT SIGNS OR ANY ELECT / FIRE ALARM / MECHL / ETC. DEVICES SHALL BE INSTALLED. IF CONFLICT EXISTS, NOTIFY ARCHITECT FOR RESOLUTION.
C. ALL FIN (TILE, CLGS, CARPET, ETC.) STARTING & STOPPING POINTS TO BE DETERMINED BY ARCHITECT IN FIELD.
D. PROVIDE 4' X 4' PAINT SWATCH OF EA COLOR SCHED FOR REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
E. PROVIDE 4' X 4' STAIN SWATCH OF EA COLOR SCHED FOR R REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
F. PROVIDE 10' X 10' MOCK-UP OF EA CARPET TILE PATTERN FOR REVIEW & ACCEPTANCE PRIOR TO BALANCE ON INSTALL.
G. PT HOLLOW MTL DRS AND FRAMES TO MATCH ADJACENT WALLS (SEMI-GLOSS), UNO.
H. ALL GYP BD WALLS SCHED TO BE PTD IN RESTROOMS OR OTHER WET LOCATIONS SHALL USE EPOXY TYPE PT.
J. AT TILE LOCATIONS PROVIDE 1/8" GROUT LINES MAX, UNO. PROVIDE MOCK-UP FOR REVIEW PRIOR TO INSTALL.
K. EXTEND ALL FIN (INCLUDING PT) BENEATH, BEHIND AND AROUND FURNITURE, CASEWORK, EQUIP, SIGNAGE, ETC. WHETHER SPECIFICALLY INDICATED OR NOT.
L. PROVIDE CEMENT BD IN LIEU OF GYP BD WHERE WALL TILE IS SPECIFIED, UNO.
M. ALL DR TRANSITIONS & THRESHOLDS PER SPECS, UNO.
N. ALL BASEBD CORNERS SHALL BE MITER CUT AND ALL RUNS SHALL BE KERF CUT. PATCH, SAND AND PT ALL FASTENER HOLES IN BASEBDS.
P. PROVIDE MOCK-UPS OF ALL FLR FOR REVIEW AND ACCEPTANCE PRIOR TO PROCCEDING W/ BALANCE OF INSTALL.
Q. COORD ELEVATOR FLR FIN W/ ARCHITECT.

UNIT APPLIANCE SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	FINISH	NOTES
DW-2	FRIGIDAIRE	DISHWASHER	STAINLESS STEEL	OFCI
DW-3	FRIGIDAIRE	ADA DISHWASHER	STAINLESS STEEL	OFCI
MW-2	FRIGIDAIRE	OVER-RANGE RECIRCULATING MICROWAVE	STAINLESS STEEL	OFCI
REF-2	FRIGIDAIRE	REFRIGERATOR	STAINLESS STEEL	OFCI
REF-3	FRIGIDAIRE	ADA REFRIGERATOR	STAINLESS STEEL	OFCI
RH-2	FRIGIDAIRE	ADA HOOD	STAINLESS STEEL	OFCI
RNG-2	FRIGIDAIRE	RANGE	STAINLESS STEEL	OFCI
RNG-3	FRIGIDAIRE	ADA RANGE	STAINLESS STEEL	OFCI

KITCHEN APPLIANCE SCHEDULE

MARK	MANUFACTURER	MODEL	FINISH	NOTES
DW-1	GE	PDT795SYVFS	STAINLESS STEEL	OFCI
FRZ-1	-	-	STAINLESS STEEL	OFCI
ICE-1	HOSHIZAKI	KML-700MAJ	STAINLESS STEEL	OFCI
MW-1	GE	JES1657SMSS	STAINLESS STEEL	OFCI
OV-1	GE	JTD3000SNSS	STAINLESS STEEL	OFCI
REF-1	-	27" REACH-IN REFRIGERATOR	STAINLESS STEEL	OFCI
RH-1	GREENHECK	GRRS	STAINLESS STEEL	OFCI
RNG-1	ZLINE	SGR36	STAINLESS STEEL	OFCI

CAFE APPLIANCE SCHEDULE

MARK	DESCRIPTION	NOTES
BL-1	BLENDER	OFCI
COF-1	COFFEE MAKER	OFCI
ESP-1	ESPRESSO MACHINE	OFCI
GR-1	ESPRESSO GRINDER	OFCI
GR-2	COFFEE GRINDER	OFCI
ICE-2	30" UNDERCOUNTER ICE MAKER	OFCI
REF-1	27" REACH-IN REFRIGERATOR	OFCI
REF-4	36" UNDERCOUNTER FRIDGE	OFCI

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@ned-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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FINISH INDEX & FINISH SCHEDULE

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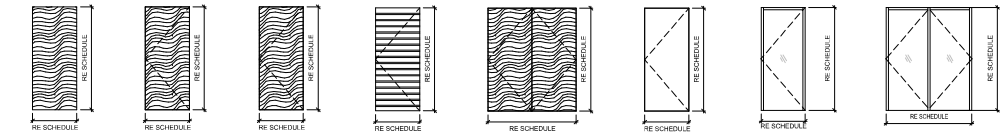
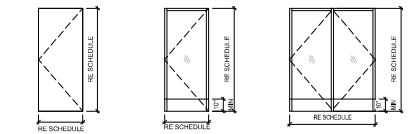
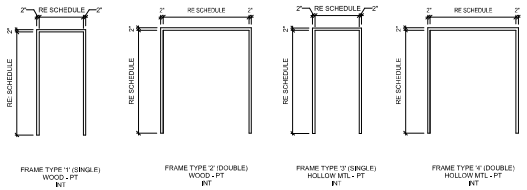




DOOR TYPES
1/4" = 1'-0"

13F



FRAME TYPES
1/4" = 1'-0"

13C

DOOR SCHEDULE GENERAL NOTES

A. DURING BIDDING / PRICING PHASE, GC SHALL DETERMINE AVAILABILITY OF ALL MATERIALS. ANY DELIVERY SCHED THAT MAY CAUSE COORD PROBLEMS SHALL BE REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALL.
B. RE SPECS FOR DR HARDWARE SCHED AND SET TYPES. THE HARDWARE SCHED REPRESENTS THE DESIGN INTENT. THEY ARE A GUIDELINE ONLY AND SHOULD NOT BE CONSIDERED A DETAILED HARDWARE SCHED. DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT W/ CORRECTIONS MADE PRIOR TO THE BIDDING PROCESS AND INSTALL. OMITTED ITEMS NOT INCLUDED IN A HARDWARE SET SHOULD BE SCHED W/ THE APPROPRIATE ADDITIONAL HARDWARE REQD FOR PROPER APPLICATION AND FUNCTIONALITY.
C. PRIOR TO BIDDING ALL HARDWARE COLORS / FIN SHALL BE COORD W/ ARCHITECT.
D. ALL HARDWARE MUST BE ADA AND IBC CODE COMPLIANT.
E. ALL DOOR HARDWARE MUST BE REVIEWED W/ OWNER AND ARCHITECT PRIOR TO ORDER AND INSTALL.
F. ACCOUNT FOR REQD HARDWARE QUANTITIES FOR PAIRS OF DRS WHERE APPLICABLE.
G. PANIC HARDWARE: REQD ON DRS SERVING ASSEMBLY OCCUPANCIES W/ 50 OR MORE OCCUPANTS PER SECTION 1008.1.10. REQD ON ALL LOWER LEVEL EXIT DRS. REQD IN ELECT RMS (DRS SWINGING OUT) W/ EQUIP RATED 800 AMPERES OR MORE AND OVER 6' WIDE THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES PER 1008.1.10.
H. DR SHALL SWING IN THE DIRECTION OF EGRESS IF SERVING 50 OR MORE OR IF > 800 AMPS PER 1008.1.10.
J. PROVIDE FLR / WALL MOUNTED DR STOPS AS REQD. COLOR TO MATCH DR HARDWARE COLOR. NOTIFY ARCHITECT OF TYPE & LOCATIONS BEING PROPOSED PRIOR TO ORDER & INSTALL.
K. ALL KEYING SHALL BE COORD W/ OWNER.
L. PROVIDE TEMPERED GLAZING AT ALL LOCATIONS REQD BY CODE.
M. DR AND STOREFRONT FRAMES SHALL MATCH HISTORIC COLORS AT EXT LOCATIONS.
N. FULLY REPLACED HISTORIC DRS SHALL CLOSELY MATCH ORIGINAL HISTORICAL DRS IN TERMS OF CONFIGURATION, DIM, COLOR AND PROFILES. FV ALL EXIST CONDITIONS.
P. SHPO AND NPS SHALL APPROVE SHOP DWGS OF PROPOSED DRS PRIOR TO ORDER AND INSTALL.
Q. ANY MUNTIN GRIDS MUST BE APPLIED TO THE EXT AND INT OF DR LITES W/ A SPACER BETWEEN INSULATED GLAZING.
R. RE FLR PLANS FOR DR SWING OPERATION.

DOOR & HARDWARE SCHEDULE

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME FINISH	GLASS TYPE	HARDWARE
LEVEL 0										
001A	3' - 0"	6' - 8"	1 HR	A	WD	PT	1	PT	-	01
002A	3' - 0 1/4"	7' - 11 1/2"	-	J	ALUM	BLK ANOD	-	-	GL-1	AL01
003A	3' - 0"	6' - 8"	1 HR	A	WD	PT	1	PT	-	02
LEVEL 01										
101A	3' - 0 3/4"	7' - 10 1/4"	-	J	ALUM	BLK ANOD	-	-	GL-1	AL01
102A	3' - 0"	7' - 10 1/4"	-	J	ALUM	BLK ANOD	-	-	GL-1	AL01
103A	3' - 0"	6' - 8"	-	F	HM	PT	3	PT	-	03
104A	3' - 0"	6' - 8"	-	F	HM	PT	3	PT	-	04
105A	3' - 0"	6' - 8"	-	F	HM	PT	3	PT	-	04
106A	2' - 10 1/4"	7' - 10 1/4"	-	J	ALUM	BLK ANOD	-	-	GL-1	AL01
107A	3' - 0"	6' - 8"	-	A	WD	PT	1	PT	-	05
108A	3' - 0"	6' - 8"	-	A	WD	PT	1	PT	-	05
109A	3' - 0"	6' - 8"	-	I	HM	PT	3	PT	-	06
110A	3' - 0"	6' - 8"	-	F	HM	PT	3	PT	-	07
110B	3' - 0"	6' - 8"	-	I	HM	PT	3	PT	-	06
111A	3' - 0"	6' - 8"	-	F	HM	PT	3	PT	-	08
113A	2' - 10 1/4"	7' - 11 1/2"	-	G	ALUM	BLK ANOD	-	-	GL-3	AL03
113B	5' - 10 1/4"	7' - 11 1/2"	-	H	ALUM	BLK ANOD	-	-	GL-3	GL02
113C	6' - 10 1/4"	7' - 10 1/4"	-	K	ALUM	BLK ANOD	-	-	GL-1	AL02
114A	3' - 6"	6' - 8"	-	D	WD	WD-1W	-	-	-	16
115A	3' - 6"	6' - 8"	-	D	WD	WD-1W	-	-	-	16
116A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
117A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
118A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
119A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
120A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
121A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
122A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
123A	3' - 0"	8' - 0"	-	G	ALUM	BLK ANOD	-	-	GL-2	GL01
LEVEL 1.5 - DECK										
150A	3' - 0"	6' - 8"	1 HR	I	HM	PT	3	PT	-	10
LEVEL 02										
200A	3' - 0"	6' - 8"	1 HR	A	WD	PT	1	PT	-	11
200B	2' - 10 1/4"	6' - 5 1/2"	-	J	ALUM	BLK ANOD	-	-	GL-1	AL01
201A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
202A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
203A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
204A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
205A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
206A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
207A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01
208A	3' - 0"	6' - 8"	20 MIN	A	WD	PT	1	PT	-	01

UNIT DOOR & HARDWARE SCHEDULE

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR FIRE RATING	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE
A	3' - 0"	6' - 8"	-	C	WD	PT	1	PT	12
B	3' - 0"	6' - 8"	-	C	WD	PT	1	PT	12
C	2' - 8"	6' - 8"	-	C	WD	PT	1	PT	13
D	5' - 0"	6' - 8"	-	E	WD	PT	2	PT	14
E	2' - 10"	6' - 8"	-	C	WD	PT	1	PT	13
F	3' - 0"	6' - 8"	-	B	WD	PT	1	PT	15

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engrus.com
913.C.W.GRSS
STRUCTURAL
MIKE GODFREY
steve@hoerner@jbcmcnd.net
913.345.1000
CIVIL ENGINEERING
SHELBY MURRAY
smurray@olsson-engineers.com
913.381.2000
ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.C.P.WER
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@mkstudios.com
913.345.1000
DEVELOPER
WALKER THRASH
walker@vertikalbv.com
662.LIVE.LAND

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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DOOR SCHEDULE, FRAMES AND TYPES

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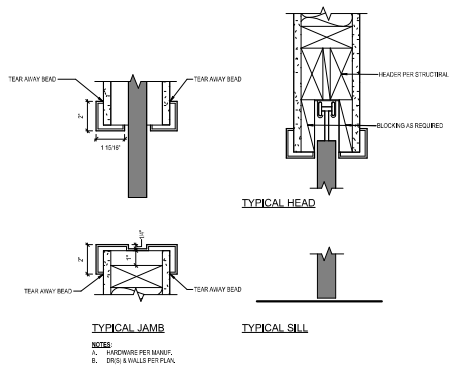
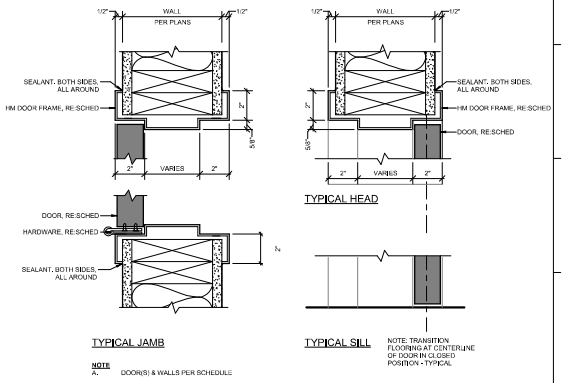
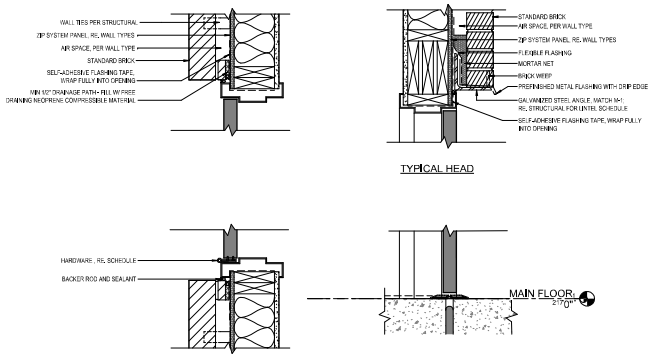


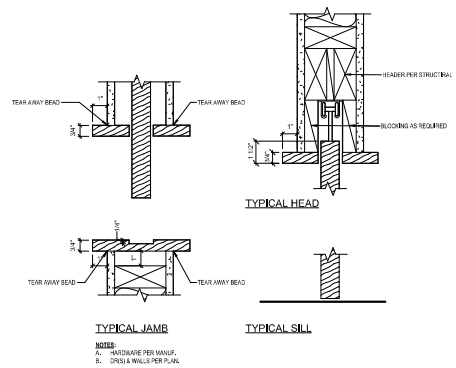
TYP HM POCKET
3" = 1'-0"
6E



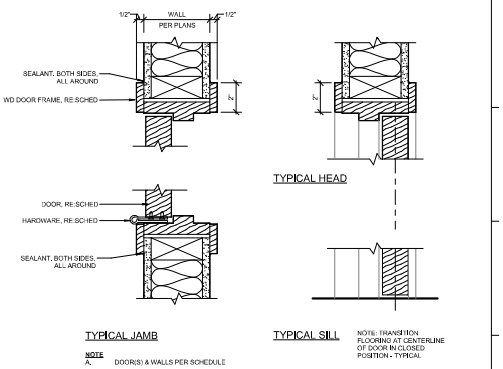
TYP HM SWINGING
3" = 1'-0"
1E



TYP HM EXT DOOR
1 1/2" = 1'-0"
11A



TYP WOOD POCKET
3" = 1'-0"
6A



TYP WOOD SWINGING
3" = 1'-0"
1A

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t. 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@engnw.com
601.345.2950
STRUCTURAL
MIKE GODFREY
steve@hoerner@comcast.net
601.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
shelby@pbcivilengineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
601.649.4920
LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilkinsoffice.com
601.345.1555
DEVELOPER
WALKER TWRASH
walker@ventkillco.com
601.271.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2025

PROJ. A_2406

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DOOR DETAILS

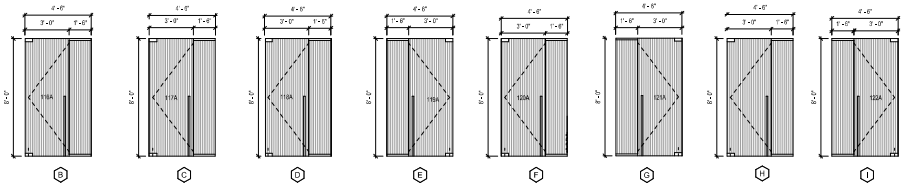
A632

INTERIOR GLAZING SCHEDULE

MARK	WIDTH	HEIGHT	GLAZING	NOTES
A	15' - 1"	10' - 0"	GL-1	
B	9' - 6"	9' - 0"	GL-2	
C	9' - 6"	9' - 0"	GL-2	
D	9' - 6"	9' - 0"	GL-2	
E	9' - 6"	9' - 0"	GL-2	
F	9' - 6"	9' - 0"	GL-2	
G	9' - 6"	9' - 0"	GL-2	
H	9' - 6"	9' - 0"	GL-2	
I	9' - 6"	9' - 0"	GL-2	

INTERIOR ELEVATION GENERAL NOTES

A. CABINETS TO COMPLY W/ THE KITCHEN CABINET MANUFACTURING ASSOCIATION (KCMA) QUALITY STANDARD A161.1 FOR CABINETS.
B. ALL CASEWORK SHALL HAVE CONCEALED HINGES AND SELF CLOSING EPOXY-COATED-MTL DRAWER GUIDES, DESIGNED TO PREVENT REBOUND WHEN DRAWERS ARE CLOSED. W/ NYLON-TIRED, BALL-BEARING ROLLERS.
C. RE FIN LEGEND FOR CABINET PULL SELECTIONS.
D. RE PLUMB DWGS AND SPECS FOR ALL FIXTURES.
E. F/V ALL PLUMB ROUGH IN LOCATIONS FOR POTENTIAL EXIST STRUCT CONFLICTS. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALL.
F. INSTALL BLOCKING W/IN BATHROOM WALLS FOR FASTENING OF TOWEL BARS, TOILET PAPER HOLDERS, CURTAIN ROD, LIGHT FIXTURES (AS REQD), MIRRORS (AS REQD) AND ACCESSIBLE GRAB BARS.
G. INSTALL OF DEVICES ON TILE SHALL BE CTRD / EVENLY SPACES ON THE TILE IN ALL DIRECTIONS.
H. RE FIN LEGEND FOR FIN MATERIALS.
J. ALL ACCESSORIES SHALL BE INSTALLED AND SEALED TO PROTECT STRUCT ELEMENTS FROM MOISTURE.
K. ALL BATHROOM ACCESSORIES SHALL BE CHROME WHERE APPLICABLE.
L. ALL BATHROOM ACCESSORIES SHALL BE BOBRICK OR REVIEWED EQ.
M. RE G300 SERIES DWGS FOR STANDARD ADA MOUNTING HTS.
N. ALL EXPOSED TILE EDGES TO RECEIVE AN ANODIZED SCHLUTER SHIENE STRIP PER SPECS.
P. SCRIBE STRIPS NOT TO HAVE MORE THAN A 1/8" VARIANCE FROM TOP TO BOT.
Q. SCRIBE WALL BASE TO FLR AS REQD.
R. SCRIBE ALL MILLWORK TO FLR.
S. MOUNTING HTS FOR PENDANT FIXTURES TO BE COORD W/ ARCHITECT ON SITE.
T. PROVIDE TOILET TANK FLUSH CONTROL ON SIDE AWAY FROM WALL, TYP.
U. PROVIDE FLR AND BASE AT REFRIGERATOR AND RANGE LOCATIONS.
V. PROVIDE NON-COMBUSTIBLE MATERIALS IN RETURN PLENUMS (WALLS ON SOFFIT).
W. ACOUSTICALLY INSULATE WALLS (AND SOFFITS WHERE APPLICABLE) SURROUNDING MECH UNITS.
X. ALL EXPOSED EDGES OF CABINETS, FILLER PNLS, COUNTERTOPS AND END PNLS TO BE FIN, INCLUDING AT ROLL UNDER SINKS AT 'TYPE A' ACCESSIBLE UNITS.
Y. PROVIDE AND INSTALL SHOWER SEATS IN ALL ACCESSIBLE "TYPE A" UNITS.
Z. AT ROLL-UNDER SINKS W/ FRONT APPROACH, INSULATE PIPES OR PROVIDE VALANCE PNL COMPLYING W/ ACCESSIBLE KNEE AND TOE CLEARANCES.
AA. PROVIDE SWITCH FOR KITCHEN EXHAUST IN FACE OF CABINET AT ACCESSIBLE "TYPE A" UNITS.
BB. PROVIDE HANDSHOWER W/ 59" MIN HOSE LENGTH AT SHOWERS IN ALL "TYPE A" UNITS.
CC. PROVIDE FIN FLR AND BASE AT ROLL-UNDER SINKS.
DD. PROVIDE LIGHT SWITCHES, OUTLETS, THERMOSTATS, CHECK-IN AND ENVIRONMENTAL CONTROLS W/IN ACCESSIBLE REACH RANGE.
EE. PROVIDE CLOTHES ROD AND SHELF AT 6'-0" AFF WHERE INDICATED ON PLANS. MOUNTING HT AT "TYPE A" UNITS AT 4'-0" AFF TO TOP OF SHELF.
FF. PROVIDE 1/2" THRESHOLD MAX AT ACCESSIBLE SHOWERS.
GG. RE A600 SERIES FOR APPLIANCE SCHED.
HH. ALIGN TILE JTS W/ CASEWORK REVEALS WHERE APPLICABLE, UNO.

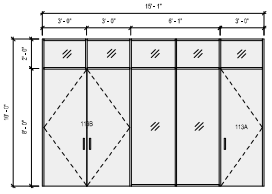


INTERIOR ELEVATIONS
1/4" = 1'-0"

5D

KEYNOTES

NUMBER	DESCRIPTION



INTERIOR ELEVATION
1/4" = 1'-0"

5A

INTERIOR ELEVATION KEYED NOTES

#	DESCRIPTION

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@dgmgroup.com
913.345.2700

STRUCTURAL
MIKE GODFREY
mike@hoerrschmidt.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
913.381.1555

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.815.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wilsonhalfter.com
913.345.1555

DEVELOPER
WALKER THRASH
walker@vertikalllc.com
662.371.2402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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INTERIOR GLAZING ELEVATIONS

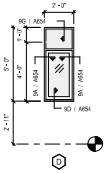
A651

STOREFRONT SCHEDULE

MARK	WINDOW WIDTH	WINDOW HEIGHT	FINISH	MANUF	NOTES
1	9' - 6 1/2"	11'- 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37
2	32'- 0 1/2"	11'- 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37
3	9' - 0"	11'- 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37
4	40' - 0"	11'- 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37
5	9' - 4"	11'- 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37
6	9' - 9"	7' - 0"	DARK BRONZE	EFCO	EFCO 403 THERMAL STOREFRONT 2"X4 1/2" W/ 1" INSULATED GLASS U-FACTOR = 0.37

WINDOW SCHEDULE

MARK	WINDOW HEIGHT	WINDOW WIDTH	WINDOW OPERATION	WINDOW SILL HEIGHT	WINDOW GLAZING	WINDOW MANUF	FRAME MATERIAL	FRAME FINISH	NOTES
A	6' - 0"	2' - 0"	CASEMENT	1' - 8"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2
B1	5' - 0"	3' - 0"	CASEMENT (LEFT)	1' - 8"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2
B2	5' - 0"	3' - 0"	CASEMENT (RIGHT)	1' - 8"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2
C1	5' - 0"	3' - 0"	CASEMENT (LEFT)	1' - 8"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2
C2	5' - 0"	3' - 0"	CASEMENT (RIGHT)	1' - 8"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2
D	5' - 0"	3' - 0"	CASEMENT	2' - 11"	GL-1	QUAKER	VINYL	BLK	V300 SERIES, CARDINAL 366 IG #2



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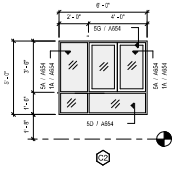

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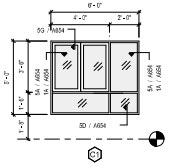
NOTE: SEE BUILDING ELEVATIONS FOR JAMB CONDITION AT EACH INSTANCE.



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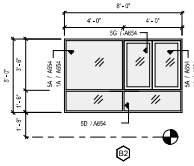

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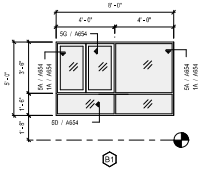

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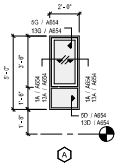
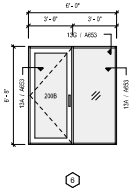


A

NOTE: SEE BUILDING ELEVATIONS FOR HEAD, JAMB, & SILL CONDITION AT EACH INSTANCE.



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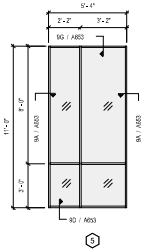

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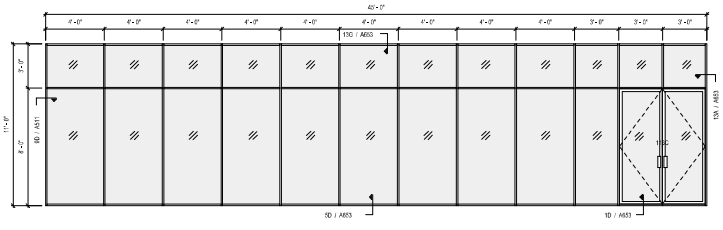

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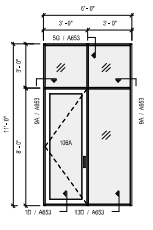

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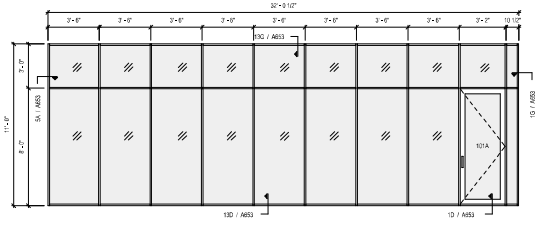

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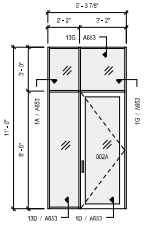

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@jlengrp.com
913.345.2992

STRUCTURAL
MIKE GODFREY
seventhcreek@comcast.net
913.345.1555

CIVIL ENGINEERING
SHELBY MURRAY
shelby@olsson-engineers.com
913.381.1555

ELECTRICAL
CHRIS GREEN
cgreen@bcpowersource.us
913.915.4500

LANDSCAPE
AUSTIN LOVITT
austin.j.lovitt@wakefieldbeasley.com
913.345.1555

DEVELOPER
WALKER THRASH
walker@vertikalbc.com
662.371.2402

USM - WESLEY
3200 MONTAGUE BLVD
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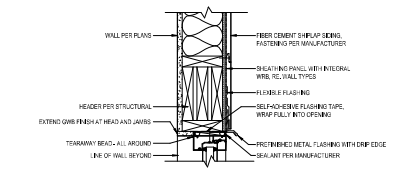
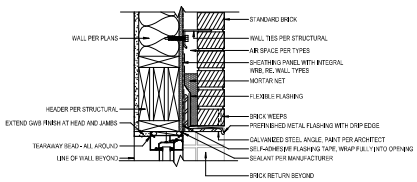
STOREFRONT AND WINDOW ELEVATIONS

A652



HEAD DETAIL	13G
1 1/2" = 1'-0"	



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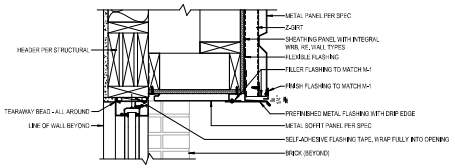

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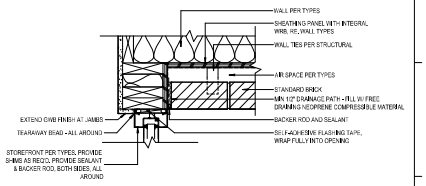

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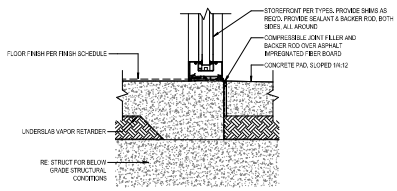

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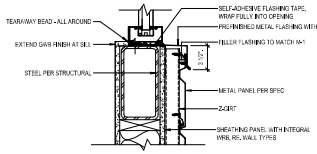

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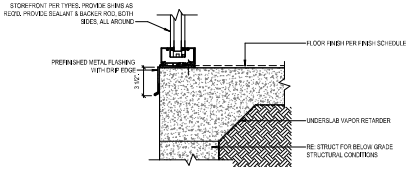

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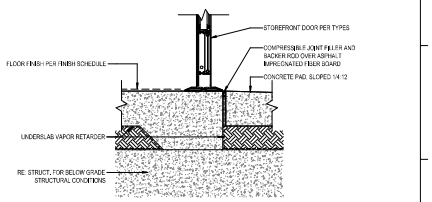

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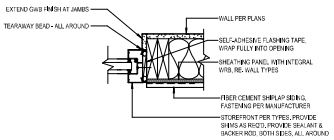

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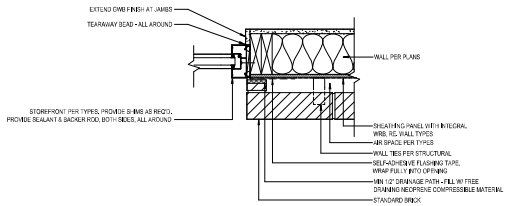

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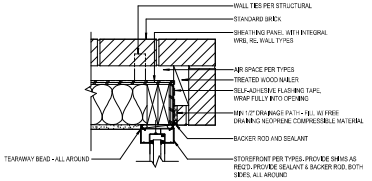

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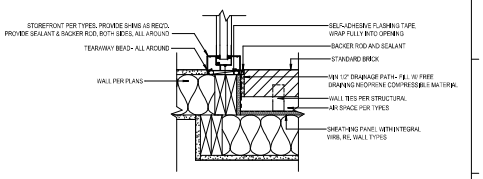

JAMB DETAIL	1A
1 1/2" = 1'-0"	

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@jlgmp.com
913.345.2990
STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
913.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
smurray@olsson-engineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
913.815.4500
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@mkstaffer.com
913.345.1555
DEVELOPER
WALKER THRASH
walker@ventkillco.com
601.213.2400

USM - WESLEY
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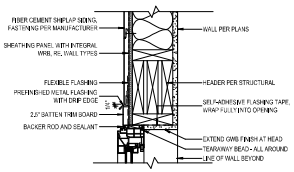
STOREFRONT DETAILS

A653



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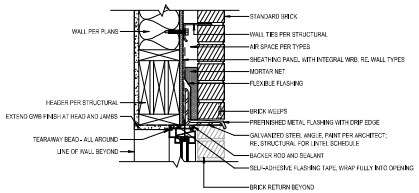
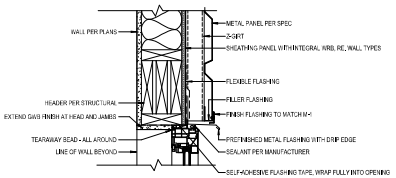


HEAD DETAIL	9G
1 1/2" = 1'-0"	



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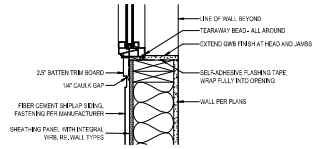

SILL DETAIL	13D
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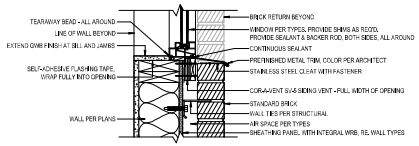

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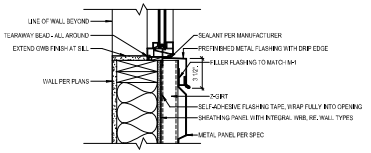

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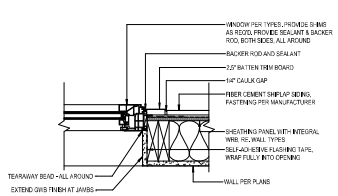

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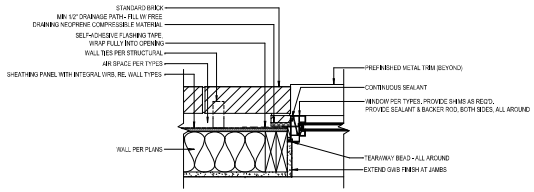

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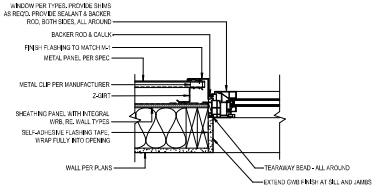

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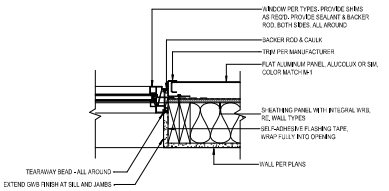

JAMB DETAIL	1A
1 1/2" = 1'-0"	

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KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@pgmp.com
913.345.2992
STRUCTURAL
MIKE GODFREY
steelframer@comcast.net
913.345.1555
CIVIL ENGINEERING
SHELBY MURRAY
smurray@olsson-engineers.com
601.261.2000
ELECTRICAL
CHRIS GREEN
cgreen@lbcpowersource.us
913.815.4500
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@mikewalker.com
913.345.1555
DEVELOPER
WALKER THRASH
walker@walkerkc.com
816.277.2400

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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WINDOW DETAILS

A654

HVAC LEGEND

DUCTWORK

Symbol	Description
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	CONICAL ROUND BRANCH TAKEOFF FROM RECT. DUCT WITH BALANCING DAMPER
	CONICAL ROUND BRANCH TAKEOFF FROM ROUND DUCT WITH BALANCING DAMPER
18x12" / 18x12"	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
18" / 18"	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	FLEXIBLE DUCT
	VOLUME DAMPER IN DUCT
M / M	MOTORIZED DAMPER
	DUCT END / CAP
DB	IN-O-VATE DRYER BOX MODEL 480

DIFFUSER, RETURN AND EXHAUST GRILLES

CEILING SUPPLY DIFFUSER

A8 / 200 — DIFFUSER TAG AND DUCT RUNOUT SIZE; CFM

4 WAY SUPPLY DIFFUSER. THROW INDICATED BY ARROWS IN DIRECTION OF THROW.

CEILING RETURN OR EXHAUST DIFFUSER

B1 / 200 — DIFFUSER TAG AND DUCT RUNOUT SIZE; CFM

SIDEWALL SUPPLY REGISTER

DIFFUSER TAG — C2 / 200 — CFM

SIDEWALL RETURN REGISTER

DIFFUSER TAG — C2 / 200 — CFM

MISCELLANEOUS

Symbol	Description
∅	DIAMETER
1 / M2.1	DETAIL NUMBER; DRAWING NUMBER; LARGE SCALE DESIGNATION
EF-1.01	1.01 — THE NUMBER ON SYSTEM; FLOOR; MECHANICAL EQUIPMENT DESIGNATION

PIPING

Symbol	Description
— R —	REFRIGERANT

CONTROLS

Symbol	Description
(T)	THERMOSTAT
	CEILING OCCUPANCY SENSOR
WS	WALL SWITCH

HVAC ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	MA	MIXED AIR
AD	ACCESS DOOR	MAT	MIXED AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AMPS	AMPERAGE	MBH	THOUSAND BTU PER HOUR
BD	BALANCING DAMPER	MCA	MINIMUM CIRCUIT AMPS
BDD	BACKDRAFT DAMPER	MECH	MECHANICAL
BHP	BRAKE HORSE POWER	MFG	MANUFACTURER
BMS	BUILDING MANAGEMENT SYSTEM	MFS	MAXIMUM FUSE SIZE
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
CC	COOLING COIL	MOCP	MAXIMUM OVERCURRENT PROTECTION
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CER	CEILING RETURN GRILLE	NFA	NET FREE AREA
CFM	CUBIC FEET PER MINUTE CFM	NIC	NOT IN THIS CONTRACT
CG	CEILING GRILLE	NO	NORMALLY OPEN
CO	CLEAN OUT	NO.	NUMBER
CRA	CONDITIONING RETURN AIR	NTS	NOT TO SCALE
CU	CONDENSING UNIT	OA	OUTSIDE AIR INTAKE
DAD	DUCT ACCESS DOOR	OBD	OPPOSED BLADE DAMPER
DB	DRY BULB	OC	ON CENTER
DG	DOOR GRILLE	OD	OUTSIDE DIMENSION
DH	DEHUMIDIFIER	PH OR Ø	PHASE
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PSI	POUNDS PER SQUARE INCH (GAUGE)
DX	DIRECT EXPANSION	PRV	PRESSURE REDUCING VALVE
EA	EXHAUST AIR	QTY	QUANTITY
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EDB	ENTERING DRY BULB	REFR	REFRIGERANT
EF	EXHAUST FAN	REQ'D	REQUIRED
EFF	EFFICIENCY	RH	RELATIVE HUMIDITY
ELEC	ELECTRICAL	RHC	REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE	RL	REFRIGERANT LIQUID
EWB	ENTERING WET BULB	RLA	RUN LOAD AMPS
EWH	ELECTRIC WATER HEATER	RPM	REVOLUTIONS PER MINUTE
°F	DEGREES FAHRENHEIT	RS	REFRIGERANT SUCTION
FD	FUSIBLE LINK FIRE DAMPER W/ DAD	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SENS	SENSIBLE
FLR	FLOOR	SPD	SPLITTER DAMPER
FT	FEET	SQFT	SQUARE FEET
HC	HEATING COIL	SP	STATIC PRESSURE
HORIZ	HORIZONTAL	TA	TRANSFER AIR
HP	HORSEPOWER	TYP	TYPICAL
HR	HOUR	V	VOLTS
ID	INSIDE DIMENSION	VERT	VERTICAL
KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
LAT	LEAVING AIR TEMPERATURE	VD	VOLUME DAMPER
LBS	POUNDS	W/	WITH
LRA	LOCK ROTOR AMPS	WB	WET BULB
MD	MOTORIZED DAMPER	WSR	WALL SUPPLY REGISTER

CODE REVIEW

APPLICABLE CODES (BASIS OF DESIGN)
CODES REQUIREMENTS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL MECHANICAL CODE

2018 NATIONAL ELECTRICAL CODE

HVAC GENERAL NOTES

1. EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL SERVICE, AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
3. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
4. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AN WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
5. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS. REFERENCE SPECIFICATION SECTION "MECHANICAL GENERAL PROVISIONS" FOR COORDINATION DRAWING REQUIREMENTS.
6. DO NOT SCALE DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK, ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES.
8. TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUST DUCTS.
9. THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS, AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.
10. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE GENERAL CONTRACTOR/ROOFER.
11. ADVISE THE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC, AT LEAST TEN (10) DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
12. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
13. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
14. THE PURPOSE AND INTENT OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE FACILITY, ANYTHING LESS SHALL BE UNACCEPTABLE.
15. ALL VIBRATING, OSCILLATING, NOISE PRODUCING OR ROTATING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY, VIBRATING, OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION SHALL BE THAT OF THE ARCHITECT.
16. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATION.

HVAC GENERAL NOTES (CONT'D)

17. ALL SUPPORTS FOR EQUIPMENT, DEVICES, OR FIXTURES SHALL BE UNIQUE FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
18. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
19. THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING, AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
20. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT BY THIS CONTRACTOR.
21. THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, AND ALL OTHER CONTRACTORS SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
22. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DRAINING AND FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK.
23. TESTING, ADJUSTING, AND BALANCING AGENCY IS TO PROVIDE SIZING OF FAN AND MOTOR SHEAVES REQUIRED FOR PROPER BALANCE. REPLACE FAN AND MOTOR SHEAVES AND BELTS AS REQUIRED ON EQUIPMENT (AHUs, EFs, ETC.). THE MECHANICAL CONTRACTOR SHALL PURCHASE AND INSTALL ALL SHEAVES AND BELTS AS REQUIRED.
24. PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E., VOLTAGE, PHASE, CIRCUIT BREAKER, WIRING SIZE, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS, VENDORS, AND SUPPLIERS AND SHALL INSURE COMPLETE, 100% FUNCTIONAL, TESTED, INSPECTED, AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL IMMEDIATELY BE REJECTED.
25. EQUIPMENT BRACING WILL BE INCLUDED FOR ALL OVERHEAD UTILITIES AND OTHER EQUIPMENT WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING, ETC.). BRACING SHALL BE ACCOMPLISHED BY EITHER RIGID OR FLEXIBLE SYSTEMS. ALL EQUIPMENT MOUNTINGS SHALL BE DESIGNED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. ALL BRACING SHALL BE CONTRACTOR DESIGNED.
26. ALL BRANCH DUCTS TO AIR DISTRIBUTION DEVICES (SUPPLY, RETURN, EXHAUST, ETC.) SHALL INCLUDE A VOLUME DAMPER PER DRAWINGS AND SPECIFICATIONS.
27. DUCT SIZES INDICATED ARE ACTUAL INSIDE (NET) DIMENSIONS. ALL RECTANGULAR SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCT SIZES ARE INSIDE CLEAR DIMENSIONS (INSIDE LINER, WHERE APPLICABLE).
28. THE CONTRACTOR SHALL INSTALL CONDENSATE DRAINS, WITH UNION CONNECTIONS, FROM ALL A/C EQUIPMENT. PROVIDE TRAPPED DRAINAGE PIPING WITH VENT RISERS 6" HIGH NEAR EQUIPMENT CONNECTIONS. PROVIDE NEW INSULATED CONDENSATE DRAINS FOR ALL HVAC COOLING COILS AND OVERFLOW PANS AND ROUTE ON SLOPE TO CONNECTION WITH NEARBY PLUMBING VENT STACK, OR FLOOR DRAIN, OR AS INDICATED ON PLANS. PROVIDE CLEANOUTS ON DRAINS, 1" OR LARGER, EVERY 20' O.C., AND AT ENDS AND OFFSETS OF RUNS.

HVAC SHEET INDEX

M001	MECHANICAL LEGEND, ABBREVIATIONS & NOTES
M002	MECHANICAL SPECIFICATIONS
M003	MECHANICAL SPECIFICATIONS
M004	MECHANICAL SPECIFICATIONS
MZ101	FIRST FLOOR HVAC ZONING PLAN
MZ102	SECOND FLOOR HVAC ZONING PLAN
M101	OVERALL FIRST FLOOR AND MAIL ROOM HVAC PLAN
M102	OVERALL SECOND FLOOR HVAC PLAN
M103	OVERALL ROOF HVAC PLAN

HVAC SHEET INDEX (CONT'D)

M104	OVERALL FIRST FLOOR AND MAIL ROOM REFRIGERANT PIPING PLAN
M105	OVERALL SECOND FLOOR REFRIGERANT PIPING PLAN
M106	OVERALL ROOF REFRIGERANT PIPING PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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JASON CHRISTOPHER GROSSI — LICENSED PROFESSIONAL ENGINEER — 01/16/26 — 17087 — STATE OF MISSISSIPPI

MECHANICAL LEGEND, ABBREVIATIONS & NOTES

M001

GENERAL

SUMMARY

A. WORK INCLUDED IN SECTION 230000 HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS: PROVIDE ALL MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION AND TESTS AS NOTED IN CONTRACT DOCUMENTS IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
B. MATERIALS COMPOSITION SHALL CONFORM TO THE INTERNATIONAL MECHANICAL CODE.
C. RELATED SECTIONS:
  1. CONSULT ALL OTHER SECTIONS, DETERMINE THE EXTENT AND CHARACTER OF RELATED WORK AND PROPERLY COORDINATE WORK SPECIFIED HEREIN WITH THAT SPECIFIED ELSEWHERE TO PRODUCE A COMPLETE AND OPERABLE INSTALLATION.

COORDINATION

A. MECHANICAL CONTRACTOR SHALL REVIEW THE DOCUMENTS OF OTHER TRADES, IN PARTICULAR MECHANICAL DRAWINGS, PRIOR TO BID AND INCLUDE IN BID ALL OFFSETS AND OTHER REROUTING OF DUCTWORK, PIPING, AND DEVICES TO AVOID CONFLICTS. WHERE DUCTS AND MECHANICAL PIPING CONFLICT WITH DIVISION 21 AND DIV 22 PIPING, DIVISION 21 AND 22 PIPING SHALL BE REROUTED AS REQUIRED TO RESOLVE THE CONFLICT. IN NO CASE SHALL PIPING PENETRATE DUCTWORK.
B. ROUTING OF DUCT AND PIPE SHALL BE IN A NEAT MANNER TO WORK WITH THE ARCHITECTURAL AND STRUCTURAL ELEMENTS OF THE BUILDING AND THE REQUIREMENTS OF THE ARCHITECT. ANY DUCT AND PIPE ROUTES AT EXPOSED CEILING AREAS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. SUBMIT THESE PIPE ROUTES IN ADVANCE TO THE ARCHITECT PRIOR TO THE SHOP DRAWING SUBMITTAL.

DIVISION OF WORK

A. THIS SECTION DELINEATES THE DIVISION OF WORK BETWEEN DIVISIONS. SEE RESPONSIBILITY MATRIX ON PLANS.
B. CONSULT ALL OTHER SECTIONS, DETERMINE THE EXTENT AND CHARACTER OF RELATED WORK, AND PROPERLY COORDINATE WORK SPECIFIED HEREIN WITH THAT SPECIFIED ELSEWHERE TO PRODUCE A COMPLETE AND OPERABLE INSTALLATION. THIS SECTION IS PROVIDED TO ASSIST THE CONTRACTOR IN COORDINATION OF WORK SCOPE BUT SHALL NOT BE CONSTRUED TO LIMIT CONTRACTOR'S SCOPE OF WORK ENCOMPASSED BY THE CONTRACT DOCUMENTS.

QUALITY ASSURANCE

A. ALL EQUIPMENT AND ACCESSORIES TO BE THE PRODUCT OF A MANUFACTURER REGULARLY ENGAGED IN ITS MANUFACTURE.
B. ALL ITEMS OF A GIVEN TYPE SHALL BE THE PRODUCTS OF SAME MANUFACTURER.
C. SUPPLY ALL EQUIPMENT AND ACCESSORIES NEW AND FREE FROM DEFECTS.
D. SUPPLY ALL EQUIPMENT AND ACCESSORIES IN COMPLIANCE WITH THE APPLICABLE STANDARDS LISTED IN HEREIN WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

SUBMITTALS

A. SCHEDULE.
  1. ALLOW 10 WORKING DAYS FOR APPROVAL UNLESS ENGINEER AGREES TO ACCELERATED SCHEDULE.
B. SUBMIT DRAWINGS, PRODUCT DATA, SAMPLES AND CERTIFICATES OF COMPLIANCE REQUIRED AS HEREINAFTER SPECIFIED IN THIS SECTION.
C. SUBMISSION PROCEDURE.
  1. INITIAL SUBMITTAL.
    a. EACH SUBMITTAL SHALL HAVE A UNIQUE SERIAL NUMBER SUCH AS "SUBMITTAL 220000-01".
    b. LONG LEAD EQUIPMENT AND MATERIAL ELECTRONIC SUBMITTALS MAY BE SUBMITTED EARLY IN PROJECT AT ONE TIME. OTHERS SHALL BE SUBMITTED ELECTRONICALLY ALL AT ONE TIME AND WITHIN THIRTY DAYS OF NOTICE-TO-PROCEED (NTP).
    c. SUBMIT ONE ELECTRONIC COPY OF PRODUCT DATA IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF. PROVIDE SEPARATE FILES FOR EACH EQUIPMENT TYPE. PAPER COPIES OR SCANS OF PAPER COPIES WILL NOT BE ACCEPTED.
    d. SUBMITTAL WILL BE REVIEWED, AND COMMENTS RETURNED TO CONTRACTOR.
  2. RESUBMISSION.
    a. EACH RESUBMITTAL SHALL HAVE THE ORIGINAL UNIQUE SERIAL NUMBER PLUS UNIQUE REVISION NUMBER SUCH AS "SUBMITTAL 220000-01 REVISION 1".
    b. MAKE ANY CORRECTIONS OR CHANGE IN SUBMITTALS AS REQUIRED.
    c. RESUBMIT FOR REVIEW IN ELECTRONIC FORMAT DESCRIBED ABOVE UNTIL NO EXCEPTIONS ARE TAKEN, OR UNLESS CONTRACTOR AGREES WITH "FURNISH AS CORRECTED" REMARKS.
  3. FINAL APPROVAL: ONCE SUBMISSION IS ACCEPTED, CONTRACTOR SHALL PRINT TWO BOUND SETS OF SUBMITTALS FOR OWNER. ENGINEERING RESOURCE GROUP DOES NOT REQUIRE OR DESIRE PAPER COPIES.
D. CONTENTS OF SUBMITTALS.
  1. HVAC MATERIAL SUBMITTALS
    a. PIPING, FITTINGS, JOINING METHOD, INSULATION, IDENTIFICATION, VALVES.
  2. HVAC EQUIPMENT SUBMITTALS
    a. MANUFACTURER'S NAME AND MODEL NUMBER.
    b. ALL INFORMATION REQUIRED TO COMPLETELY DESCRIBE MATERIALS AND EQUIPMENT AND TO INDICATE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO:
      1) A SCHEDULE, FOR ALL ITEMS OF THE SAME TYPE SHALL BE SUPPLIED. THE SCHEDULE SHALL INCLUDE THE MANUFACTURER, THE MODEL, SIZE, SPECIFIC INFORMATION THAT MAKES THAT ITEM UNIQUE, THE SERVICE OF THE ITEM, THE SYSTEM SERVED BY THE ITEM.
      2) PHYSICAL DATA, PERFORMANCE DATA, ELECTRICAL AND HVAC REQUIREMENTS.
E. SHOP DRAWINGS.
  1. DRAWINGS SHALL BE DEVELOPED USING 3D SOFTWARE SUCH AS REVIT, CAD-DUCT AND CAD-PIPE THAT IS COMPATIBLE WITH NAVISWORKS.
  2. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING AT A MINIMUM.
    a. ALL RECTANGULAR DUCTWORK.
    b. ALL ROUND DUCTWORK OTHER THAN FLEXIBLE DUCTWORK.
    c. ALL PIPING LARGER THAN 3/4" INCHES.
    d. ALL EQUIPMENT.
    e. ALL GRILLES, REGISTERS AND DIFFUSERS.
  3. PROVIDE COORDINATION PLANS INDICATING LAYOUT OF PADS, CURBS, PENETRATIONS, OPENINGS, AND OTHER ITEMS TO BE PROVIDED BY OTHER TRADES.

GENERAL (CONTINUED)

F. OPERATING INSTRUCTIONS & MAINTENANCE MANUALS.
  1. BEFORE REQUESTING ACCEPTANCE OF WORK, SUBMIT IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF VIA EMAIL FOR REVIEW BY ENGINEER. FILE SHALL INCLUDE BOOKMARKS FOR EACH PIECE OF EQUIPMENT. PAPER COPIES WILL NOT BE ACCEPTED.
  2. AFTER REVIEW AND MAKING CORRECTIONS NOTED, FURNISH THREE PRINTED AND BOUND SETS FOR THE OWNER. ASSEMBLE IN WITH SEPARATE TABS FOR EACH PIECE OF EQUIPMENT IN HEAVY THREE-RING BINDER.
  3. O&M MANUAL SHALL INCLUDE ALL SUBMITTAL DATA SUBMITTED HEREIN ABOVE, AS INSTALLED. THE INTENT OF THIS SECTION IS THAT A SINGLE DOCUMENT CONTAINS ALL RELEVANT INFORMATION ABOUT EACH PIECE OF EQUIPMENT.
  4. IN ADDITION TO THE SUBMITTAL DATA, THE O&M MANUAL SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR ALL NEW EQUIPMENT:
    a. MANUFACTURER'S NAME, MODEL NUMBER, SERVICE MANUAL, SPARE-PARTS LIST, AND DESCRIPTIVE LITERATURE FOR ALL COMPONENTS.
    b. INSTALLATION INSTRUCTIONS.
    c. MAINTENANCE INSTRUCTIONS.
    d. WIRING DIAGRAMS.
    e. NAME, ADDRESS AND PHONE NUMBER OF CONTRACTORS EQUIPMENT SUPPLIERS AND SERVICE AGENCIES.
    f. GUARANTEE PERIOD, INCLUDING START AND END PERIOD.
G. RECORD DRAWINGS.
  1. UPDATE DESIGN/SHOP DRAWINGS TO "AS- BUILT" CONDITIONS:
    a. FULLY INCORPORATE ALL REVISIONS MADE BY ALL CRAFTS IN COURSE OF WORK.
    b. INCLUDE ALL FIELD CHANGES, ADJUSTMENTS, VARIANCES, SUBSTITUTIONS, AND DELETIONS, INCLUDING ALL CHANGE ORDERS.
    c. SUBMIT IN ELECTRONIC FORMAT PER SUBMITTALS ABOVE FOR APPROVAL.
  2. ONCE APPROVED.
    a. PROVIDE ONE SET OF ADOBE PDF FILES OF EACH DRAWING ON PORTABLE MEDIA (E.G., USB FLASH DRIVE).
    b. PROVIDE ONE FULL SIZE SET OF DRAWINGS ON BOND PAPER.
    c. PROVIDE PDF SET LOADED ONTO 1 FLASH DRIVE.

WARRANTY

A. FURNISH ALL LABOR, MATERIALS, SERVICES, AND EQUIPMENT WARRANTIES AS OUTLINED HEREIN FOR MECHANICAL SYSTEMS AND EQUIPMENT.
B. TEST PERIOD: EACH PIECE OF EQUIPMENT SHALL MEET PERFORMANCE SPECIFICATIONS AFTER THREE MONTHS' ACTUAL OPERATION TO OWNER'S SATISFACTION.
C. CONTRACTOR SHALL REPLACE, OR MAKE GOOD, ANY DEFECT DUE TO FAULTY WORKMANSHIP OR MATERIAL, WHICH SHALL DEVELOP WITHIN ONE YEAR FROM THE BEGINNING OF THE WARRANTY PERIOD. THIS GUARANTY SHALL COVER BOTH MATERIAL AND LABOR. LEAKING PIPE WORK IS CONSIDERED FAULTY WORKMANSHIP. THIS WARRANTY SHALL INCLUDE REPAIR, REMOVAL OF DEFECTIVE PARTS AND INSTALLATION OF REPLACEMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPERTY DAMAGE THAT RESULTS FROM DEFECTS IN MATERIALS, IMPROPER CONTROLS OR SETUP, AND/OR INSTALLATION DURING THE WARRANTY PERIOD.
D. FOR FIRST YEAR AFTER THE WARRANTY BEGINS, CONTRACTOR SHALL PROVIDE, AT NO COST TO THE OWNER, ANY REQUIRED MAINTENANCE AND SERVICE NECESSARY TO ASSURE THE PROPER OPERATION OF THE INSTALLATIONS AND SYSTEMS. LATENT DEFECTS ARISING DURING THIS PERIOD SHALL, UPON NOTIFICATION BY THE OWNER, BE PROMPTLY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. THIS SHALL INCLUDE:
  1. REFRIGERANT AND OIL REPLACEMENT IN REFRIGERATION SYSTEMS: LEAKING REFRIGERANT SYSTEMS SHALL BE REPAIRED, PROVED TIGHT, AND CHARGED WITH MANUFACTURER'S RECOMMENDED REFRIGERANT AND LUBRICANT, WITHIN ANY STANDARD WARRANTY PERIOD.
  2. ANY ADJUSTMENTS AND SERVICE REQUIRED, EXCLUDING FILTER MONITORING AND REPLACEMENT.
  3. ANY NECESSARY ADJUSTMENTS IN SYSTEM CONTROL SET POINTS WHEN REQUIRED, EXCLUDING FILTER MONITORING.
E. THE CONTRACTOR SHALL MAKE INSPECTIONS AT END OF 6TH AND 11TH MONTHS AFTER BEGINNING OF WARRANTY RELATED TO THE HVAC CONTROL SYSTEM. DURING THESE INSPECTIONS THE CONTRACTOR SHALL VERIFY ALL CONTROL SETTINGS AND RECALIBRATE CONTROLS AND SENSORS TO MATCH REQUIREMENTS AS CAN BE COORDINATED WITH PROFESSIONAL BASED ON HISTORICAL TREND BY DATA AND TO OPTIMIZE SYSTEM PERFORMANCE. TEMPERATURE AND SAFETY CONTROLS SHALL BE ADJUSTED AS NECESSARY TO INSURE CONTINUOUS, TROUBLE FREE, SAFE, AND AUTOMATIC OPERATION OF SYSTEMS INCLUDING GAS BURNER, REFRIGERATING EQUIPMENT, ETC.
F. EXTENDED EQUIPMENT WARRANTIES
  1. DEFINITIONS AND GENERAL REQUIREMENTS
    a. EXTENDED WARRANTIES, DEFINED AS A WARRANTY AFTER THE STANDARD ONE (1) YEAR WARRANTY.
    b. "COMPREHENSIVE" IS DEFINED AS A COMPLETE WARRANTY EXCEPT FOR ACTS OF GOD AND NEGLIGENT MAINTENANCE OR OPERATION OF THE SPECIFIED EQUIPMENT AS REQUIRED OF THE OWNER.
    c. ALL COMPREHENSIVE EQUIPMENT WARRANTIES SHALL INCLUDE ALL PARTS, LABOR, SHIPPING, POSTAGE, FREIGHT, HANDLING FEES, ETC., TO ACCOMPLISH ANY REPAIR AND/OR REPLACEMENT AT NO ADDITIONAL COST TO OWNER. THESE WARRANTY PROVISIONS WILL BE BINDING ON ANY CONTRACTOR AND/OR SUPPLIER/MANUFACTURER UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY OWNER.
    d. THIRD PARTY INSURANCE AND/OR SPLIT CONTRACTOR LABOR/MANUFACTURER'S EQUIPMENT/MATERIAL WARRANTIES SHALL NOT BE ACCEPTABLE. ONLY MANUFACTURER'S COMPREHENSIVE WARRANTIES SHALL BE ACCEPTABLE.
    e. SEE EXTENDED WARRANTY TABLE.
    f. ALL WARRANTIES BEGIN AT SUBSTANTIAL COMPLETION OF ENTIRE PROJECT UNLESS OTHERWISE APPROVED BY ARCHITECT / OWNER.
    g. ALL EQUIPMENT TYPICAL OPERATIONAL O&M PROCEDURES, AIR FILTER CHANGES, LUBRICATION, ETC., ARE THE CONTRACTOR'S RESPONSIBILITY UNTIL THE OWNER ACCEPTS THE ENTIRE PROJECT.

GUARANTEE

A. THE CONTRACTOR SHALL GUARANTEE THE FOLLOWING:
  1. ALL NEW MATERIALS, NEW EQUIPMENT, APPARATUS, AND WORKMANSHIP SHALL BE FREE OF DEFECTIVE MATERIALS AND FAULTY WORKMANSHIP.
  2. ALL EQUIPMENT AND MATERIAL WILL PRODUCE THE RESULTS SPECIFIED. SERVICE OF EXISTING EQUIPMENT IS THE RESPONSIBILITY OF THE OWNER.
  3. ALL SYSTEMS HAVE BEEN FULLY TESTED, ADJUSTED, AND BALANCED.
B. THE HVAC CONTRACTOR SHALL FURNISH WRITTEN GUARANTEE TO REPLACE ALL DEFECTIVE WORK, MATERIALS, AND SERVICES FURNISHED UNDER THIS SECTION, AT NO ADDITIONAL COST TO THE OWNER, FOR THE WARRANTY PERIOD.
C. THE OWNER RESERVES THE RIGHT TO MAKE TEMPORARY REPAIRS AS NECESSARY TO KEEP EQUIPMENT IN OPERATING CONDITION WITHOUT VOIDING THE GUARANTEES OR RELIEVING RESPONSIBILITY DURING THE GUARANTEE PERIOD.

EXECUTION

RECORD DRAWINGS
A. KEEP AN ACCURATE DIMENSIONAL RECORD OF INSTALLED SYSTEMS AND EQUIPMENT. MAINTAIN A SET OF RECORD ("AS-BUILT") DRAWINGS UP-TO-DATE AS CONSTRUCTION PROGRESSES. DRAWINGS SHALL BE MAINTAINED AT THE JOBSITE AND AVAILABLE FOR INSPECTION BY THE ARCHITECT AND OWNER.

PROTECTION OF WORK DURING CONSTRUCTION
A. PROTECT FROM DAMAGE, WATER, DUST, ETC., MATERIAL, EQUIPMENT AND APPARATUS PROVIDED UNDER THIS DIVISION, BOTH IN STORAGE AND INSTALLED, UNTIL SUBSTANTIAL COMPLETION HAS BEEN FILED.
B. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. PROTECT EXPOSED COILS WITH PLYWOOD OR OTHER SUITABLE RIGID COVERS TO AVOID DAMAGE TO FINS.
C. PROTECT EXISTING WALLS, DOORS, CARPETING, ETC. FROM DAMAGE. ANY DAMAGE MUST BE REPAIRED AT NO COST TO OWNER.
D. COVER MOTORS AND OTHER MOVING MACHINERY TO PROTECT FROM DIRT AND WATER DURING CONSTRUCTION.
E. DURING TRANSPORT TO AND STORAGE ON THE CONSTRUCTION SITE, AND DURING ROUGH-IN UNTIL FINAL CONNECTIONS ARE MADE, ALL DUCTWORK AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH PLASTIC TO PREVENT CONTAMINATION FROM DUST, WATER, AND DEBRIS.
F. KEEP OPENINGS IN PIPING CLOSED TO PREVENT ENTRANCE OF FOREIGN MATTER.
G. MATERIAL, EQUIPMENT OR APPARATUS:
  1. MATERIAL, EQUIPMENT, OR APPARATUS DAMAGED BECAUSE OF IMPROPER STORAGE OR PROTECTION WILL BE REJECTED.
  2. REMOVE DAMAGED MATERIAL, EQUIPMENT OR APPARATUS FROM SITE AND PROVIDE NEW, DUPLICATE, MATERIAL, EQUIPMENT, OR APPARATUS IN REPLACEMENT OF THAT REJECTED.
  3. POROUS MATERIALS, SUCH AS DUCT LINER, SHALL BE PROTECTED FROM WEATHER. IF SUCH MATERIAL BECOMES WET DURING CONSTRUCTION, IT SHALL BE REMOVED AND REPLACED AT NO COST TO OWNER; DRYING IS NOT SUFFICIENT DUE TO POSSIBLE MICROBIAL CONTAMINATION.

INSTALLATION AND WORKMANSHIP
A. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
B. REPAIR ALL DAMAGED OR TEMPORARILY REMOVED WALLS, ROOFS, ROOFING, EQUIPMENT, ETC.
C. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
D. ALL EQUIPMENT MUST BE ANCHORED TO THE BUILDING. ALL HUNG EQUIPMENT SHALL INCORPORATE VIBRATION ISOLATION.

DUCTWORK
A. INSTALL PER SMACNA STANDARDS.
B. RECTANGULAR AND MEDIUM PRESSURE DUCT BENDS GREATER THAN 45 DEGREES SHALL BE CURVED SECTIONS, THE CENTER LINE RADIUS OF WHICH SHALL NOT BE LESS THAN 1-1/2 TIMES THE WIDTH OF THE DUCT IN THE PLANE OF THE BEND. WHERE REQUIRED DUE TO SPACE CONSTRAINTS, SHORT RADIUS ELBOWS WITH DUCT SPLITTER(S) MAY BE USED. NO CAPPED "BULLHEAD" TEES, AND SHORT-RADIUS TEES PERMITTED. ON LOW PRESSURE DUCTS, SQUARE ELBOWS WITH SINGLE WIDTH TURNING VANES MAY BE USED. ROUND DUCT ELBOWS MAY BE ADJUSTABLE TYPE ON LOW PRESSURE SYSTEMS ONLY, WITH GORES SEALED.
C. GRILLE CONNECTIONS.
  1. PROVIDE AT ENTRY TO DIFFUSER COLLAR EITHER: STRAIGHT DUCT FOR 1 DUCT DIAMETERS OR GREATER, FULL RADIUS ELBOW, PLENUM WITH SIDE DUCT COLLAR, EQUAL TO THERMAFLEX FLEXFLOW ELBOW.
  2. CONNECTIONS AT GRILLES SHALL BE INSULATED TO THE EXTENT THE DUCT IS INSULATED INCLUDING THE FINAL REGISTER BOX AND BACK PAN.
  3. SEAL CONNECTIONS AT GRILLES PER SEAL CLASS OF UPSTREAM DUCTWORK.
D. SEE DUCTWORK / INSULATION SCHEDULE.

FILTERS
A. MEDIA AS SELECTED IN EQUIPMENT SCHEDULES ON THE DRAWINGS.
B. CONSTRUCTION FILTERS:
  1. TYPE 1 FOR ALL EQUIPMENT: ROLL MEDIA NOT ACCEPTABLE.
  2. TYPE 2 FILTER MEDIA IS INTENDED TO BE UTILIZED OVER RETURN/EXHAUST AIR GRILLES, REGISTERS AND/OR OPEN DUCTWORK DURING THE CONSTRUCTION PERIOD WHEN THE SYSTEMS ARE BEING OPERATED. THIS FILTER MEDIA IS NOT TO BE UTILIZED INSIDE THE HOUSING OF ANY HVAC SYSTEMS.
C. SPARE FILTERS:
  1. PROVIDE THREE (3) SETS OF SPARE FILTERS FOR EACH PIECE OF HVAC EQUIPMENT AND FILTER GRILLE EXCEPT THE FOLLOWING (PROVIDE ONLY ONE (1) SPARE SET):
    a. PTAC'S (THRU-WALL UNITS).
    b. VRF SYSTEM (INDOOR UNITS).
D. BEFORE TURNING SYSTEM OVER TO THE OWNER, REMOVE TEMPORARY CONSTRUCTION FILTERS AND INSTALL CLEAN FINAL FILTERS.
E. TYPE 2 FILTERS DURING CONSTRUCTION SHALL BE MINIMUM MERV 11; SPARE FILTERS MERV 8.

CLEANING
A. THOROUGHLY CLEAN ALL EQUIPMENT, DUCTS, ETC. FREE OF DUST, SCALE, FILINGS, PLASTER, GREASE, OIL, PAINT AND OTHER CONSTRUCTION DEBRIS.
B. NO CONSTRUCTION MATERIALS, DEBRIS, DIRT, ETC. SHALL REMAIN IN ANY AREA, INCLUDING BOTH TENANT AREAS AND MECHANICAL AREAS, DURING NORMAL BUSINESS HOURS. CLEAN UP ALL AREAS PRIOR TO START OF NORMAL BUSINESS HOURS.
C. DUCTS.
  1. DUCT OPENINGS SHALL BE SEALED WITH PLASTIC DURING CONSTRUCTION TO PREVENT DEBRIS BUILDUP.
  2. VACUUM ANY VISIBLE DEBRIS FROM INSIDE DUCTS, DUCT PLENUMS AND GRILLE BOXES.
  3. USE CONNECTED FAN(S) TO BLOW AIR THROUGH ALL DUCT SYSTEMS UNTIL THEY ARE FREE OF ALL FOREIGN MATERIALS.

EQUIPMENT AND PIPING IDENTIFICATION
A. EQUIPMENT.
  1. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY NAMEPLATES SECURELY FASTENED IN A CLEARLY VISIBLE LOCATION TO THE EQUIPMENT HOUSING OR FRAME. NAMEPLATES SHALL INCLUDE THE EQUIPMENT DESIGN PLAN MARK AND BRIEF DESCRIPTION OF THE AREA OR SYSTEM SERVED, SUCH AS: "VAV 4-4: CONFERENCE ROOM 449". PROVIDE ADDITIONAL NAMEPLATES ON FACE OF STARTERS OR VARIABLE SPEED DRIVES PROVIDED UNDER THIS SECTION.
  2. NAMEPLATES SHALL BE 2-1/2" X 3/4" MINIMUM, EITHER 1/6" THICK BAKELITE WITH ENGRAVED WHITE CORE LETTERS AND BEVELED EDGE, OR ALUMINUM WITH BLACK ENAMELED BACKGROUND AND ETCHED OR ENGRAVED NATURAL ALUMINUM LETTERING.\
  3. MANUFACTURER'S NAMEPLATE SHALL BE CLEAN AND LEGIBLE AND INSTALLED IN A CLEARLY VISIBLE LOCATION.

EXECUTION (CONTINUED)

PAINTING
A. PAINTING UNDER THIS SECTION.
  1. BLACK STEEL OR PVC WATER PIPING EXPOSED TO OUTDOORS: ONE COAT PRIMER. TWO COAT ALKYD OIL PAINT, COLOR BY ARCHITECT.
  2. INTERIOR OF DUCTWORK AT AIR OUTLETS AS FAR BACK AS VISIBLE FROM OCCUPIED SPACES: FLAT BLACK.
  3. MARRED SURFACES OF FACTORY PAINTED EQUIPMENT: SPOT COAT (TOUCH-UP) TO MATCH ADJACENT COAT.
  4. DUCTWORK EXPOSED TO VIEW OUTDOORS AND INDOORS.
  5. ABOVE ROOF CAPS, FLASHINGS, AND VENTS.
  6. PIPING INSULATION / JACKET OUTDOORS.
C. PAINT.
  1. HIGH GLOSS MEDIUM OR LONG ALKYD PAINT FOR STEEL; BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS. APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  2. PROVIDE PRIMER SUITED FOR SUBSTRATE.
  3. MEDIUM GLOSS EXTERIOR LATEX ENAMEL FOR INSULATION AND JACKET.
D. COLORS.
  1. COLOR CODING AS FOLLOWS ON SHERWIN WILLIAMS, "KEM LUSTRAL" OR "METALALISTIC II" NAME AND FIGURE NUMBERS
  2. INTERIOR OF DUCTWORK AS FAR BACK AS VISIBLE FROM OUTSIDE: FLAT BLACK.
  3. UNCOATED HANGERS, SUPPORTS, RODS AND INSETS: DIP IN ZINC CHROMATE PRIMER.
  4. OUTDOOR EXPOSED PIPING INSULATION: ELASTOMERIC INSULATION: UV RESISTANT WHITE.
  5. INDOOR AND EXTERIOR INSTALLATIONS: COLOR BY ARCHITECT.
E. FACTORY FINISH.
  1. STEEL AIR OUTLETS IN ACOUSTICAL TILE CEILINGS: BAKED WHITE ENAMEL.
  2. ALUMINUM AIR OUTLETS: ANODIZED.
  3. EXPOSED FAN COIL UNITS: BAKED ENAMEL.
  4. UNIT VENTILATORS AND UNIT HEATERS: BAKED ENAMEL.
F. MARRED SURFACES OF PRIME COATED EQUIPMENT AND PIPING: SPOT PRIME COAT TO MATCH ADJACENT COAT.

LEAKAGE TESTING
  1. DUCT LEAKAGE TESTING: DUCT LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE SMACNA DUCT LEAKAGE TESTING MANUAL. IF DUCT SYSTEMS DO NOT MEET THE LEAKAGE CLASSES LISTED IN THIS MANUAL AT APPLICABLE DUCT RATING PRESSURE, LEAKS SHALL BE SEALED AND TESTS RERUN, BOTH AT THE HVAC CONTRACTOR'S EXPENSE.

TESTING, ADJUSTING, AND BALANCING

TEST AND ADJUST ALL ITEMS OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEM TO PROVIDE DESIGN CONDITIONS:
  1. TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH AABC OR NEBB NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION AS APPLICABLE TO AIR DISTRIBUTION.
  2. IN GENERAL, SYSTEMS SHALL BE BALANCED SO THAT ONE OR MORE BALANCING VALVES/DAMPERS REMAINS WIDE OPEN; IF FURTHER FLOW REDUCTION IS REQUIRED, FAN SPEED SHALL BE REDUCED.
  3. AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY THE AABC OR NEBB SHALL BE ENGAGED TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED TO PLUS/MINUS 10% OF DESIGN REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. ONE COPY OF THE FINAL TEST AND BALANCE REPORT WITH THE AABC/NEBB NATIONAL PERFORMANCE GUARANTY SHALL BE SENT DIRECTLY TO THE ENGINEER OF RECORD.
  4. BALANCE AIR SYSTEMS INCLUDING ALL MECHANICAL EQUIPMENT, AIR OUTLETS, EXHAUST FANS USING AABC/NEBB STANDARD TEST SHEETS.
  5. AIR PURIFICATION SYSTEMS: USE A PORTABLE HANDHELD ION COUNTER AND REPORT TAG OF UNIT, CONFIRMATION THAT ION GENERATOR IS INSTALLED, MODEL NUMBER OF ION GENERATOR, VOLTAGE AND AMPS AND AMOUNT OF IONS AT DISCHARGE OF UNITS AT SUPPLY.
  6. VARIABLE REFRIGERANT FLOW SYSTEMS: REPORT TO INCLUDE TAG OF INDOOR UNIT, BRANCH SELECTORS (AS REQUIRED) AND OUTDOOR UNITS, VOLTS AND AMPS, LEAVING AIR TEMPERATURE IN HEATING MODE, LEAVING AIR TEMPERATURE IN COOLING MODE. FOR HEAT PUMP SYSTEMS, CONFIRM HOW UNITS ARE CHANGED FROM COOLING TO HEATING MODE AND VICE VERSA AND ADD TO TAB REPORT, DRAIN PIPING CHECKLIST.

CLOSEOUTS

CLOSEOUTS SHALL BE SUBMITTED TO PROFESSIONAL WITHIN TWO (2) WEEKS OF NTP. ONE HARD COPY OF CLOSEOUTS AND TWO (2) SETS ON FLASH DRIVE. CLOSEOUTS SHALL INCLUDE:

1. O&M MANUALS
2. RECORD DRAWINGS
3. COPY OF APPROVED SUBMITTALS
4. TAB COMPLETE REPORT
5. EXTENDED WARRANTIES
6. PIPE TEST LOGS
7. ATTIC STOCK
8. CONTROL AS-BUILTS
9. OWNER TRAINING DOCUMENTATION
10. SEE OTHERS ON CHECKLIST SCHEDULE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401
100% CONSTRUCTION DOCUMENTS
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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SPECIFICATIONS

M002

SPLIT SYSTEM AIR-CONDITIONERS

A. VARIABLE REFRIGERANT FLOW SPLIT-SYSTEM HEAT PUMPS.

B. TRANE-MITSUBISHI, DAIKIN, HITACHI, OR EQUAL.

1. MULTI POSITION AIR HANDLING UNIT: REFRIGERANT R-410A, EQUIPPED WITH AN ELECTRONIC EXPANSION VALVE. THE CABINET SHALL BE CONSTRUCTED WITH SOUND ABSORBING, FOIL-FACED INSULATION TO CONTROL AIR LEAKAGE. CABINET TO BE PRE-PAINTED HEAVY-GAUGE STEEL CASING. COILS SHALL BE OF THE DIRECT EXPANSION TYPE CONSTRUCTED FROM ALUMINUM TUBES EXPANDED INTO ALUMINUM FINS TO FORM A MECHANICAL BOND. DIRECT-DRIVE SIROCCO TYPE SUPPLY FAN.

2. EXTERNAL FILTER RACK: FACTORY ASSEMBLED, SIDE OR TOP SERVICE HOUSINGS, CONSTRUCTED OF 18 GAGE GALVANIZED STEEL WITH INTEGRAL TRACK TO RECEIVE 2-INCH MERV 8 FILTERS.

3. ELECTRIC COIL: HELICAL, NICKEL-CHROME, RESISTANCE-WIRE HEATING ELEMENTS; WITH REFRACTORY CERAMIC SUPPORT BUSHINGS, AUTOMATIC-RESET THERMAL CUTOUT, BUILT-IN MAGNETIC CONTACTORS, MANUAL-RESET THERMAL CUTOUT, AIRFLOW PROVING DEVICE, AND ONE-TIME FUSES IN TERMINAL BOX FOR OVERCURRENT PROTECTION. AS INDICATED ON PLANS.

4. PROVIDE UNITS WITH SINGLE POINT POWER CONNECTION AND CONTROL BOX WITH CIRCUIT BREAKERS FOR OVERLOAD AND SHORT CIRCUIT PROTECTION. CIRCUIT BREAKERS SHALL QUALIFY AS DISCONNECT MEANS AT UNIT. PROVIDE UNIT WITH CIRCUIT BREAKER COVER KIT TO PROTECT CIRCUIT BREAKER.

D. AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS: INVERTER SCROLL COMPRESSOR SHALL BE VARIABLE SPEED (INVERTER) CONTROLLED. THE CONDENSING UNIT FAN(S) SHALL CONSIST OF PROPELLER TYPE, DIRECT-DRIVE FAN MOTORS THAT HAVE MULTIPLE SPEED OPERATION VIA A DC INVERTER. THE CONDENSER COIL SHALL BE MANUFACTURED FROM COPPER TUBES EXPANDED INTO ALUMINUM FINS TO FORM A MECHANICAL BOND.

E. CONTROLS:

1. THE UNIT SHALL BE COMPATIBLE WITH INTERFACING WITH A BAS SYSTEM VIA OPTIONAL LONWORKS OR BACNET GATEWAYS.

2. WALL MOUNTED PROGRAMMABLE THERMOSTAT.

3. WALL MOUNTED WI-FI THERMOSTAT.

SPLIT SYSTEM AIR-CONDITIONERS

A. SPLIT-SYSTEM HEAT PUMPS WITH SECONDARY ELECTRIC HEAT.

B. TRANE, DAIKIN, YORK, OR EQUAL.

C. AIR HANDLER: CASING SHALL BE HEAVY GAUGE STEEL, PHOSPHATIZED AND FINISHED WITH BAKED-ON ENAMEL. EVAPORATOR AND HEAT EXCHANGER SECTIONS SHALL BE INSULATED WITH ONE-INCH (1") THICK FOIL-FACED GLASS FIBER.

D. EXTERNAL FILTER RACK: FACTORY ASSEMBLED, SIDE OR TOP SERVICE HOUSINGS, CONSTRUCTED OF 18 GAGE GALVANIZED STEEL WITH INTEGRAL TRACK TO RECEIVE 2-INCH MERV 8 FILTERS.

E. EVAPORATOR COIL SHALL BE CONSTRUCTED OF ALUMINUM FINS, MECHANICALLY BONDED TO COPPER TUBES.

F. ELECTRIC COIL: HELICAL, NICKEL-CHROME, RESISTANCE-WIRE HEATING ELEMENTS; WITH REFRACTORY CERAMIC SUPPORT BUSHINGS, AUTOMATIC-RESET THERMAL CUTOUT, BUILT-IN MAGNETIC CONTACTORS, MANUAL-RESET THERMAL CUTOUT, AIRFLOW PROVING DEVICE, AND ONE-TIME FUSES IN TERMINAL BOX FOR OVERCURRENT PROTECTION.

G. PROVIDE UNITS WITH SINGLE POINT POWER CONNECTION AND CONTROL BOX WITH CIRCUIT BREAKERS FOR OVERLOAD AND SHORT CIRCUIT PROTECTION. FACTORY WIRED AND MOUNTED ON ELECTRIC HEAT UNIT. CIRCUIT BREAKERS SHALL QUALIFY AS DISCONNECT MEANS AT UNIT. PROVIDE UNIT WITH CIRCUIT BREAKER COVER KIT TO PROTECT CIRCUIT BREAKER.

H. AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS: SINGLE OR DUAL CIRCUIT TYPE, AS SCHEDULED, AND SHALL CONSIST OF SCROLL COMPRESSOR(S) AND, CONDENSER COIL(S), CONDENSER FANS, REFRIGERANT RECEIVER, CHARGING VALVES, CONTROLS AND HOLDING CHARGE. BAKED ENAMEL CASING AND HAIL GUARDS.

I. HEAT-PUMP COMPONENTS: REVERSING VALVE AND LOW-TEMPERATURE-AIR CUTOFF THERMOSTAT.

J. CONTROLS: WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH LCD TOUCHSCREEN DISPLAY, WI-FI, 7-DAY PROGRAMMABLE, OVERRIDE CONTROL, FAN SPEED CONTROL. HONEYWELL RTH9580 WF, TRANE PIVOT OR EQUAL.

AIR INLETS AND OUTLETS

A. TITUS, PRICE, METAL-AIRE OR EQUAL.
B. STYLES: SEE CONSTRUCTION DRAWINGS.
C. BORDERS AND FRAMES:
 1. DIFFUSER TRIM TO MATCH CEILING TYPE; SEE REFLECTED CEILING PLANS.
 2. USE FRAMES WITH CONCEALED FASTENERS; NO VISIBLE SCREW HEADS.
D. INTERIOR OF PERFORATED DIFFUSERS (BACK-PAN AND BLADES) PAINTED FLAT BLACK.
E. ALL VISIBLE PORTIONS OF GRILLE BOXES PAINTED FLAT BLACK ON THE INSIDE; GRILLE BOX DUCT LINER PINS PAINTED FLAT BLACK.
F. SQUARE TO ROUNDS ARE TO BE 3" HIGH DIFFUSER BOXES ON TOP OF GRILLES WITH FACTORY BLACK PAINT INSIDE.

LOUVERS

A. RUSKIN, GREENHECK, OR EQUAL.

B. LOUVER DESIGN.

1. EXTRUDED ALUMINUM.

2. WIND-DRIVEN RAIN RESISTANT TYPE.

3. FACTORY FINISH: KYNAR 500, COLOR SELECTED BY ARCHITECT.

4. SCREEN: 14-GAUGE ALUMINUM WIRE SCREEN.

5. COMBINATION LOUVER/DAMPER TO INCLUDE CONCEALED ACTUATOR.

PACKAGED ROOFTOP UNITS

A. TRANE, DAIKIN, JCI OR EQUAL.

B. BAKED ENAMEL PAINT FINISH, 1/2-INCH, 3/4 POUND DENSITY ASTM C1071 TYPE 1 INSULATION (FULLY INSULATED INCLUDING BASE) TOOL-LESS CONDENSER HAIL COIL GUARDS, BASE RAIL, HINGED ACCESS PANELS WITH QUARTER TURN LATCHING HANDLES, INTERNALLY ISOLATED FAN.

C. OUTDOOR AIR DAMPER: LOW LEAKAGE OUTDOOR AIR DAMPER AS REQUIRED BY ASHRAE 90.1. DAMPER MOTOR: TWO-POSITION WITH ADJUSTABLE MINIMUM POSITION. POSITION SHALL BE SET BY TAB AGENCY. OUTDOOR AIR INTAKE WEATHER HOOD.

D. EVAPORATOR COIL: ALUMINUM RIPPLED AND LANCED FINS, COPPER TUBE CONSTRUCTION. ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES.

E. CONDENSER COIL: ALUMINUM/ALUMINUM CONSTRUCTION. ALUMINUM LANCED FINS. ALUMINUM FINS THERMALLY BONDED TO ALUMINUM FLAT TUBE.

F. HOT-GAS REHEAT REFRIGERANT COIL: ALUMINUM-PLATE FIN AND SEAMLESS INTERNALLY GROOVED COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.

G. COMPRESSOR: SCROLL TYPE, RESILIENTLY MOUNTED ON RUBBER MOUNTS FOR VIBRATION ISOLATION, OVERLOAD PROTECTED, INTERNAL EXCESSIVE CURRENT AND TEMPERATURE PROTECTION, ISOLATED FROM CONDENSER AND EVAPORATOR FAN AIR STREAMS, REFRIGERANT COOLED.

H. GAS HEAT: FACTORY ASSEMBLED, PIPED, AND WIRED; COMPLYING WITH ANSI Z21.47/CSA 2.3 AND NFPA 54., STAINLESS STEEL BURNER, HEAT EXCHANGER AND DRAIN PAN, INTEGRAL POWER VENT WITH VERTICAL EXTENSION.

1. SAFETY CONTROLS:
 a. GAS CONTROL VALVE: SINGLE-STAGE OR MULTI-STAGE MODULATING.
 b. GAS TRAIN: SINGLE-BODY, REGULATED, REDUNDANT, 24-V AC GAS VALVE ASSEMBLY CONTAINING PILOT SOLENOID VALVE, PILOT FILTER, PRESSURE REGULATOR, PILOT SHUTOFF, AND MANUAL SHUTOFF.

I. DISCONNECT SWITCH ACCESSIBLE FROM OUTSIDE UNIT AND CONTROL-CIRCUIT TRANSFORMER WITH BUILT-IN OVERCURRENT PROTECTION.

J. UNIT SHALL BE PROVIDED WITH A FACTORY INSTALLED 115-VOLT, 15-AMP GROUND FAULT SERVICE RECEPTACLE. CONTRACTOR IS RESPONSIBLE FOR TYPE AND POWER REQUIREMENTS FOR RECEPTACLE. IF DEDICATED CIRCUIT IS REQUIRED, MECHANICAL CONTRACTOR IS RESPONSIBLE FOR CIRCUIT OR RECEPTACLE CAN BE FIELD WIRED FOR POWER THRU UNIT WITH TRANSFORMER AS REQUIRED.

K. ECONOMIZER: DRY BULB, LOW LEAKAGE OUTDOOR AIR DAMPER: AS REQUIRED BY ASHRAE 90.1., BAROMETRIC RELIEF.

L. CONTROLS: WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH LCD TOUCHSCREEN DISPLAY, WI-FI, 7-DAY PROGRAMMABLE, OVERRIDE CONTROL, FAN SPEED CONTROL. HONEYWELL RTH9580 WF, TRANE PIVOT OR EQUAL.

M. STARTUP TO BY PERFORMED BY A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE. CONTRACTOR STARTUP NOT ALLOWED. ALL PRE-STARTUP CHECKLIST AND FINAL STARTUP CHECKLIST TO BE TURNED OVER AFTER UNITS ARE STATED AND ARE RUNNING.

DUCTLESS SPLIT-SYSTEM HEAT PUMPS

A. TRANE-MITSUBISHI, DAIKIN, HITACHI, OR EQUAL.
B. WALL MOUNTED HEAT PUMP INDOOR UNITS.
 1. UNIT CABINET: THE UNIT SHALL HAVE MULTI-DIRECTIONAL DRAIN AND REFRIGERANT PIPING ARRANGEMENTS PROVIDING OPTIONS FOR FOUR (4) DIRECTIONS FOR REFRIGERANT PIPING AND TWO (2) DIRECTIONS FOR DRAINING. UNIT SHALL HAVE A SEPARATE BACK PLATE WHICH SECURES THE UNIT FIRMLY TO THE WALL.
 2. FAN: THE EVAPORATOR FAN SHALL BE DIRECT DRIVE. THE INDOOR FAN SHALL BE CAPABLE OF FOUR (4) SPEEDS, HIGH, MID 1, MID 2, AND LOW, TWO OF WHICH MAY BE SELECTED BY THE ROOM CONTROLLER.
 3. FILTER: RETURN AIR SHALL BE FILTERED BY MEANS OF AN EASILY REMOVABLE WASHABLE FILTER.
 4. COIL: THE EVAPORATOR COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH SMOOTH PLATE FINS ON COPPER TUBING WITH INNER GROOVES FOR HIGH EFFICIENCY HEAT EXCHANGE.
 5. THE UNIT ELECTRICAL POWER SHALL BE 208 VOLTS, 1 PHASE, 60 HERTZ.
 6. AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS: BAKED ENAMEL CASING, INVERTER COMPRESSOR, REVERSING VALUE AND LOW-TEMPERATURE AIR CUT-OFF THERMOSTAT.
C. 4-WAY CEILING-RECESSED CASSETTE INDOOR UNIT.
 1. UNIT CABINET: THE UNIT SHALL BE FOUR-WAY CASSETTE STYLE THAT RECESSES INTO THE CEILING WITH A CEILING GRILLE. UNIT SHALL HAVE COMPACT CABINET 22.4" WIDE X 22.4" DEEP TO FIT WITHIN A STANDARD 24" SQUARE SUSPENDED CEILING GRID. CABINET PANEL SHALL PROVISIONS FOR FIELD INSTALLED FILTERED OUTSIDE AIR INTAKE. TWO, THREE OR FOUR-WAY BLOW PATTERN.
 2. FAN: THE EVAPORATOR FAN SHALL BE DIRECT DRIVE. THE INDOOR FAN SHALL BE CAPABLE OF THREE (3) SPEEDS, HIGH, MID, AND LOW. THE INDOOR UNIT VANES SHALL HAVE FIVE (5) POSITIONS AND SWING FEATURE CAPABLE OF AUTOMATICALLY SWINGING THE VANES UP AND DOWN. GRILLE SHALL HAVE I-SEE SENSOR OR EQUAL TO WORK IN CONJUNCTION WITH INDOOR UNIT CONTROL SEQUENCE. SENSOR MUST DETECT OCCUPANCY AND MOTION WITHIN A 39' DETECTING DIAMETER BASED ON 8.8 FT MOUNTING HEIGHT WITH 1,856 OR MORE MEASURING POINTS.
 3. FILTER: RETURN AIR SHALL BE FILTERED BY MEANS OF AN EASILY REMOVABLE WASHABLE FILTER.
 4. COIL: THE EVAPORATOR COIL SHALL BE OF NON FERROUS CONSTRUCTION WITH SMOOTH PLATE FINS ON COPPER TUBING WITH INNER GROOVES FOR HIGH EFFICIENCY HEAT EXCHANGE.
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D. ACCESSORIES.
 1. SEVEN-DAY, LCD, PROGRAMMABLE HARD WIRED THERMOSTAT.
 2. LOW AMBIENT KIT: PERMITS OPERATION DOWN TO 0 °F.

FANS

A. COOK, GREENHECK, PENNBERRY, OR EQUAL.

B. FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH AMCA STANDARDS AND SHALL BEAR AMCA LABELS

C. ALL FANS TO BE ECM/VFD WITH MOTOR OPERATED SPEED CONTROL.

D. WHEELS SHALL BE BALANCED STATICALLY AND DYNAMICALLY, FREE FROM VIBRATION OR NOISES.

E. BEARINGS SELF-ALIGNING, BALL-BEARING TYPE, COMPLETE WITH GREASE FITTINGS, EXTENDED TO SINGLE POINT ON DRIVE SIDE OR TO ACCESSIBLE LOCATION.

F. ACTUAL BRAKE HORSEPOWER OF FAN AND DRIVE SHALL NOT EXCEED NAMEPLATE RATING OF MOTOR DRIVING FAN.

G. PROVIDE ADJUSTABLE SHEAVES FOR ONE-TO-TWO-STRAND BELT DRIVES ON MOTORS 15 HP OR LESS. SHEAVES SHALL BE SELECTED TO OPERATE AT MID-POINT OF FAN CURVE TO ALLOW ADJUSTMENT IN BOTH DIRECTIONS. FOR BELT DRIVES WITH MORE THAN TWO STRANDS SERVING MOTORS OVER 15 HP, PROVIDE FIXED SHEAVES. REPLACE FAN SHEAVES AS NECESSARY TO OBTAIN DESIRED RESULTS.

H. PROVIDE BACK DRAFT DAMPERS ON EXHAUST FANS.

AIR PURIFICATION SYSTEM

A. GLOBAL PLASMA, BIOCLIMATIC, PHENOMENAL AIRE OR EQUAL.

B. PROVIDE TO THE OWNER A PORTABLE HANDHELD, ION COUNTER WITH A CALIBRATED RANGE OF 0 TO 20,000 IONS/CM3 AND AN ACCURACY OF +/- 25% WITHIN THE SPECIFIED RANGE. ION COUNTER SHALL HAVE AUTOMATIC ZEROING CAPABILITY ON 10-MINUTE INTERVALS.

C. THE BIPOLAR IONIZATION SYSTEM SHALL OPERATE IN SUCH A MANNER THAT EQUAL AMOUNTS OF POSITIVE AND NEGATIVE IONS ARE PRODUCED. SINGLE POLE ION DEVICES SHALL NOT BE ACCEPTABLE.

D. EACH PLASMA GENERATOR WITH BIPOLAR IONIZATION OUTPUT SHALL INCLUDE THE REQUIRED NUMBER OF ELECTRODES AND POWER GENERATORS SIZED TO THE AIR HANDLING EQUIPMENT CAPACITY. ELECTRODES SHALL BE ENERGIZED WHEN THE MAIN UNIT DISCONNECT IS TURNED ON AND THE FAN IS OPERATING. IONIZATION OUTPUT WHEN TESTED IN THE OCCUPIED SPACE SHALL BE BETWEEN 500 AND 800 IONS/CM3.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SPECIFICATIONS

M003

FILTERS

A. CAMFIL/FARR, FLANDERS, OR EQUAL.

B. TYPE 1: PLEATED FILTER: 2 INCH OR 4 INCH PLEATED., COTTON & SYNTHETIC MEDIA (NO POLYESTER)

1. MINIMUM PERFORMANCE:

a. MERV 8 FOR USE AFTER CONSTRUCTION PERIOD.

b. MERV 11 FOR USE AT STARTUP AND DURING CONSTRUCTION PERIOD.

C. TYPE 2: BULK MEDIA:

1. 1 INCH FIBERGLASS.

2. FILTER MEDIA SHALL CONSIST OF A CONTINUOUS FILAMENT FIBERGLASS OF GRADUATED DENSITY. MEDIA SHALL INCLUDE A SKIN ON THE LEAVING AIR SIDE. FURTHERMORE, THE MEDIA SHALL BE TREATED WITH A NON-TOXIC, NON-FLAMMABLE, ODOR FREE ADHESIVE.

3. UL LISTED, CLASS 2

REFRIGERANT PIPING (VRF)

A. COPPER TUBE AND FITTINGS:
1. STRAIGHT LENGTHS: ASTM B 75, UNS C12200, H55 TEMPER (LIGHT DRAWN), ACR BENDING QUALITY; CLEANED, EDDY CURRENT TESTED, AND PLUGGED PER ASTM B 280.
a. REFTEKK "HHC"
2. COILED: ASTM B 280, UNS C12200, O60 TEMPER (SOFT ANNEALED), ACR, CLEANED AND CAPPED
a. REFTEKK "CCE"
B. BRAZING FILLER METALS: AWS A5.8,
a. REFTEKK "BRG"
C. FIELD SWAGED BRAZING CUPS: MSS-SP-73, ASME B 16.50
D. FIELD BENDS (ALL ANGLES): ASME B31.5
E. WROUGHT-COPPER FITTINGS: ASME B16.22.
F. WROUGHT-COPPER UNIONS: ASME B16.22.
G. SUCTION (LOW PRESSURE GAS), HOT GAS (HIGH PRESSURE GAS), AND LIQUID LINES GREATER THAN OD 5/8" FOR HEAT PUMP AND HEAT RECOVERY APPLICATIONS: STRAIGHT LENGTHS, COPPER, TYPE ACR TYPE L, H55 (LIGHT DRAWN)-TEMPER TUBING AND FIELD BENT FITTINGS WITH BRAZED JOINTS.
H. SUCTION (LOW PRESSURE GAS), HOT GAS (HIGH PRESSURE GAS) AND LIQUID LINES OD 5/8" AND SMALLER FOR HEAT PUMP AND HEAT RECOVERY APPLICATIONS: COPPER, TYPE ACR, O60 (SOFT ANNEALED)-TEMPER TUBING AND FIELD BENT FITTINGS WITH BRAZED JOINTS.

MOTOR CONTROLLERS/STARTERS

A. GENERAL.

1. MANUAL RESET, CLASS 20, THERMAL TYPE OVERLOAD PROTECTION FOR EACH PHASE, IN ACCORDANCE WITH NEMA ICS 2-2000 (R2005).

2. NEMA 3R ENCLOSURES FOR EXTERIOR APPLICATION.

3. EQUIPMENT FURNISHED WITH FACTORY-INSTALLED STARTERS SHALL ALSO BE EQUIPPED WITH INDIVIDUAL MOTOR DISCONNECT AND THERMAL MAGNETIC CIRCUIT BREAKERS OR FUSES AS SPECIFIED HEREIN WITH LUGS SIZED TO RECEIVE A FEEDER AS INDICATED ON THE ELECTRICAL DRAWINGS.

4. 120 V SECONDARY CONTROL POWER TRANSFORMER WITH FUSED PRIMARY AND SECONDARY CIRCUIT IN THE ENCLOSURE.

5. UNUSED AUXILIARY CONTACTS (INSTALLED ON EACH CONTACTOR): 1 NORMALLY OPEN, AND 1 NORMALLY CLOSED.

B. MOTOR STARTERS SHALL BE PROVIDED WITH PROVISIONS FOR INTERFACING WITH THE ENERGY MANAGEMENT AND CONTROL SYSTEM (EMCS) OR OTHER CONTROL AND INTERLOCKING REQUIREMENTS.

1. FOR ALL MAGNETIC STARTERS, A MINIMUM OF ONE SET OF FIELD REVERSIBLE AUXILIARY CONTACTS SHALL BE PROVIDED WITH THE STARTER.

C. FOR 3-PHASE MOTORS, UNLESS OTHERWISE SPECIFIED HEREIN:

1. COMBINATION MAGNETIC TYPE AND THERMAL MAGNETIC CIRCUIT BREAKER WITH:

a. CIRCUIT BREAKERS HAVING MINIMUM AIC RATING AS SPECIFIED IN DIVISION 26.

b. EXTERNAL OPERATING HANDLE CAPABLE OF BEING LOCKED IN THE OFF OR OPEN POSITION.

c. HAND-OFF-AUTOMATIC SWITCH, EXCEPT THOSE MANUALLY CONTROLLED.

d. STARTERS FOR MOTORS 50 HP AND LARGER SHALL BE SOLID-STATE, REDUCED-VOLTAGE TYPE.

D. FOR 1-PHASE, UNLESS OTHERWISE SPECIFIED HEREIN:

1. MANUAL STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION AND PILOT LIGHT.

2. HAND-OFF-AUTOMATIC SWITCH.

3. MAGNETIC ACROSS-THE-LINE STARTERS WITH OVERLOAD PROTECTION AND HAND-OFF-AUTOMATIC SWITCH, EXCEPT FOR MANUALLY CONTROLLED EQUIPMENT.

E. PROVIDE CONTROL TRANSFORMERS FOR EQUIPMENT WITH VOLTAGE ABOVE 240 VOLTS, OR AS REQUIRED FOR COMPLETE, OPERABLE SYSTEMS.

F. COORDINATE WITH DIVISION 26: ELECTRICAL.

G. REFER TO INDIVIDUAL EQUIPMENT SECTIONS FOR FACTORY-PROVIDED CONTROLLERS.

1. INSTALLED ON EQUIPMENT BY MANUFACTURER.

2. SUPPLIED WITH EQUIPMENT BY MANUFACTURER FOR FIELD INSTALLATION.

MOTORS

A. GENERAL.
1. IN ACCORDANCE WITH NEMA, IEEE, AND ANSI C50 STANDARDS.
2. SIZED TO OPERATE DRIVEN DEVICES UNDER ALL CONDITIONS WITHOUT OVERLOAD.
3. MINIMUM SERVICE FACTOR: 1.15.
4. TYPE.
a. 1/2 HORSEPOWER AND SMALLER: AC MOTOR SINGLE-PHASE, 60 HERTZ, NEMA RATED FOR 110 VOLT, WITH BUILT-IN OVERLOAD PROTECTION.
b. 3/4 HORSEPOWER AND LARGER: AC MOTOR 3 PHASE, 60 HERTZ, AC MOTOR, NEMA RATED FOR 460 VOLT OR AS AVAILABLE.
c. MOTORS 50 HORSEPOWER AND OVER: REDUCED VOLTAGE START, SUITABLE FOR STAR-DELTA STARTING.
B. ENCLOSURE.
1. OPEN DRIP-PROOF (ODP): PROVIDE ODP MOTORS UNLESS OTHERWISE INDICATED.
2. TOTALLY ENCLOSED (TEFC):
a. NON-VENTILATED: UNDER ½ HORSEPOWER.
b. FAN-COOLED: ½ HORSEPOWER AND LARGER.
C. EFFICIENCY.
1. MOTORS 1 HORSEPOWER AND LARGER SHALL BE NEMA PREMIUM™ LABELED AND HAVE GUARANTEED EFFICIENCIES EQUAL TO OR EXCEEDING NEMA TABLE 12-6D.
D. MOTORS DRIVEN BY VARIABLE FREQUENCY DRIVES.
1. SHALL MEET THE REQUIREMENTS OF NEMA MG-1 PART 31.40.4.2.
2. WHERE USED FOR PUMPS OR FANS (VARIABLE TORQUE), SHALL HAVE MINIMUM 10:1 TURNDOWN AND BE CAPABLE OF OPERATING AT 10 PERCENT SPEED INDEFINITELY

PRE-ENGINEERED RANGE HOODS

A. DENLAR, GUARDIAN OR EQUAL.

B. CABINET MOUNTED WITH FAN/LIGHT COMBO, PRE-ENGINEERED, PRE-INSTALLED FIRE SUPPRESSION SYSTEM, TWO SPEED FAN CONTROL (HI/LOW), RESET SWITCH, PRESSURE GAUGE, HARD WIRED FUEL SOURCE DISCONNECT, DRY ALARM CONTACTS, CHARCOAL AIR FILTER, SPOT WELDED CONSTRUCTION WITH HEMMED EDGES.

C. ETL/CSA LISTED

D. EXTINGUISHING AGENT TO BE A WET CHEMICAL POTASSIUM CITRATE OR POTASSIUM ACETATE SOLUTION IN A PRESSURIZED CYLINDER.

FIRE DAMPERS

A. RUSKIN, GREENHECK, OR EQUAL.

B. RATINGS (TEST CONDITIONS AND LABEL) PER UL STANDARD 555, 250 DEGREES FAHRENHEIT MINIMUM, 1-1/2-HOUR FIRE RATING, UNLESS OTHERWISE INDICATED IN THE DRAWINGS, DYNAMIC (CLOSES AGAINST AIR FLOW), FACTORY SLEEVE.

C. DAMPER: MULTI-BLADED, EQUIPPED WITH FUSIBLE LINK, SPRING LOADED TYPE

D. FUSIBLE LINK: UL LISTED, FUSIBLE LINKS ON FIRE DAMPERS SHALL BE CONSTRUCTED TO UL STANDARD 33 - FUSIBLE LINKS FOR FIRE PROTECTION SERVICE, TEMPERATURE RATING: PER CODE.

E. TYPE:RECTANGULAR TYPE UP TO 1000 FEET PER MINUTE: RUSKIN DIBD2 OR DIBD10 STYLE A OR EQUAL.

F. RECTANGULAR TYPE 1000 FEET PER MINUTE AND HIGHER: RUSKIN DIBD2 OR DIBD10 STYLE B OR EQUAL.

G. CIRCULAR AND OVAL TYPE: RUSKIN DIBD2 STYLE CR AND CO, OR DIBD10 STYLE R AND LO OR EQUAL.

H. STATUS END SWITCHES: WHERE INDICATED ON THE DRAWINGS, RUSKIN SP100 OR EQUAL SWITCH PACKAGE.

MANUAL AND AUTOMATIC DAMPERS

A. RUSKIN, GREENHECK, OR EQUAL.

B. MANUAL DAMPERS:

1. CONFORM TO REQUIREMENTS OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

2. BLADES OF SAME MATERIAL AS DUCT WHERE DAMPER IS LOCATED.

3. VENTLOK 400 AND 4000 SERIES OR EQUAL DAMPER HARDWARE; FOR LOW PRESSURE SYSTEMS 2-INCH SMACNA PRESSURE CLASS AND LESS.

4. VENTLOK HIVEL HARDWARE OR EQUAL; FOR GREATER THAN 2-INCH SMACNA PRESSURE CLASS.

5. SEALED BUSHINGS INSTALLED AT BOTH ENDS TO AVOID DUCT LEAKAGE.

6. FOR DAMPERS ABOVE NON-REMOVABLE CEILINGS AND WITHOUT CEILING ACCESS PANELS PROVIDE VENTLOK NO. 677 OR EQUAL CONCEALED DAMPER REGULATOR. WITH PAINTABLE COVER PLATE. REQUIRED INTERCONNECTING HARDWARE.

7. ROUND, INLINE: HEAVY 26-GAUGE G-90 GALVANIZED STEEL BODY (ALL SIZES), EXTRA HEAVY 24-GAUGE G-90 GALVANIZED STEEL BLADE, 3/8" SQUARE AXLE SECURED TO BLADE WITH U-BOLTS, NYLON BUSHINGS ON THRU AND END (ALL SIZES), 2" STOOL WITH LOCKING QUADRANT AND HANDLE (ALL SIZES, WING NUTS NOT ACCEPTABLE). SEALED ON ALL SEAMS, BO3 (2") BUILD-OUT, 3/8" SQUARE SHAFT (SOLID ROD), U-BOLT, LOCKING QUADRANT, HANDLE, FLEXMASTER CO. CONNECTING SLEEVE (SL-BO3). CROWN 175-XS2 OR EQUAL.

8. RECTANGULAR SINGLE BLADE DAMPERS: GALVANIZED STEEL DUCTWORK: GALVANIZED STEEL, EXCEPT AS INDICATED IN THE DRAWINGS, BLADE TO BE TWO GAGES HEAVIER THAN DUCT GAGE, OR 18 GAGE, WHICHEVER IS LIGHTER

9. RECTANGULAR MULTI-BLADE DAMPERS: LOW PRESSURE/LOW VELOCITY SYSTEMS (2-INCH WATER COLUMN OR LESS STATIC PRESSURE CLASS AND 1500 FPM OR LESS FACE VELOCITY), OPPOSED BLADE DAMPER, RUSKIN MODEL CD35 OR EQUAL.

C. AUTOMATIC DAMPERS: MILL GALVANIZED, INTEGRAL, HEAVY-DUTY FACTORY-INSTALLED MOTORIZED DAMPER ACCEPTABLE FOR EXHAUST FANS UNLESS OTHERWISE SCHEDULED, RUSKIN MODEL CD36 OR EQUAL.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.366.7552

STRUCTURAL
MIKE GODFREY
mikeGodfrey@jamesAnd
601.965.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@sharpointeng.com
601.87.2.2808

ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.366.7552

LANDSCAPE
AUSTIN LOVETT
austinl@meadowshelter.com
601.965.1955

DEVELOPER
WALKER THRASH
walker@usmlife.com
601.270.4481

ERG
ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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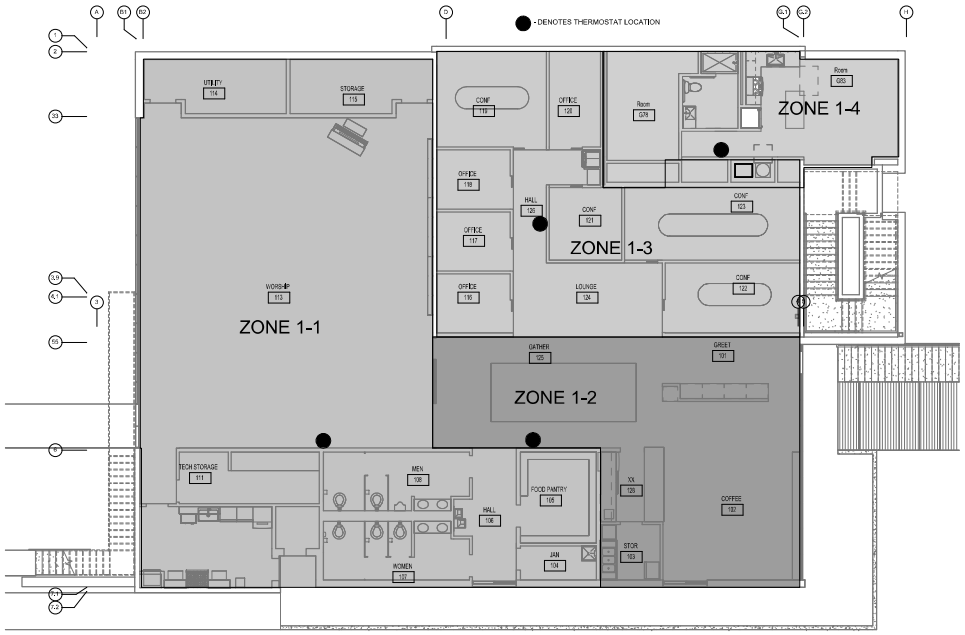
JASON CHRISTOPHER GROSS
REGISTERED PROFESSIONAL
ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SPECIFICATIONS

M004



1 MZ101 **FIRST FLOOR HVAC ZONING PLAN**
1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@mcpm.com
601.265.7952

STRUCTURAL
NIKE GODFREY
nikeshelbyvillen@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ultraportengineers.com
601.261.2828

ELECTRICAL
CHRIS GREEN
cgreen@mcpmelectronique
601.265.4800

LANDSCAPE
AUSTIN LOVITT
austin@vanderchaffer.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@vanthrasha.com
601.270.4482

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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JASON CHRISTOPHER GROSS
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

FIRST FLOOR HVAC ZONING PLAN

MZ101

1 MZ102 **SECOND FLOOR HVAC ZONING PLAN**
1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@ergpnj.com
601.265.7952

STRUCTURAL
NIKE GODFREY
nikeshelterwerk@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ilsaporeengineers.com
601.261.2828

ELECTRICAL
CHRIS GREEN
cgreen@hepworthcoxcpa.us
601.265.4800

LANDSCAPE
AUSTIN LOVITT
austin@vmdwellerfer.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@ucmdia.com
601.270.4482

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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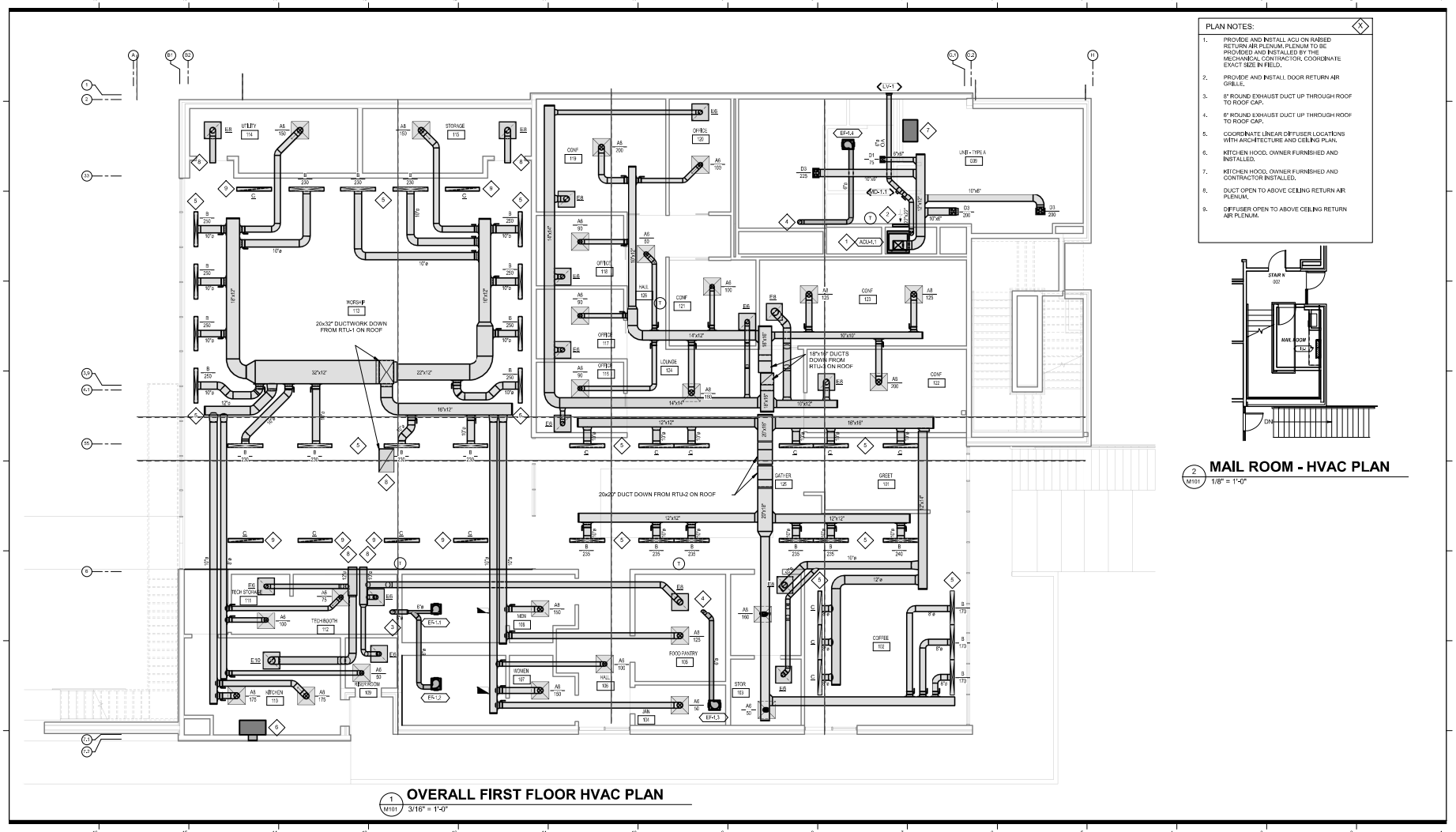
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

SECOND FLOOR HVAC ZONING PLAN

MZ102



1 M101 **OVERALL FIRST FLOOR HVAC PLAN**
3/16" = 1'-0"

2 M101 **MAIL ROOM - HVAC PLAN**
1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t: 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.2552
STRUCTURAL
MIKE GODFREY
mikeGodfrey@joneswalker.com
601.949.4668
CIVIL ENGINEERING
SHELBY MURRAY
smurray@pepcengineering.com
601.977.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.265.4600
LANDSCAPE
AUSTIN LOVETT
austinlovett@meekscheffler.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@usmdg.com
601.270.4487

ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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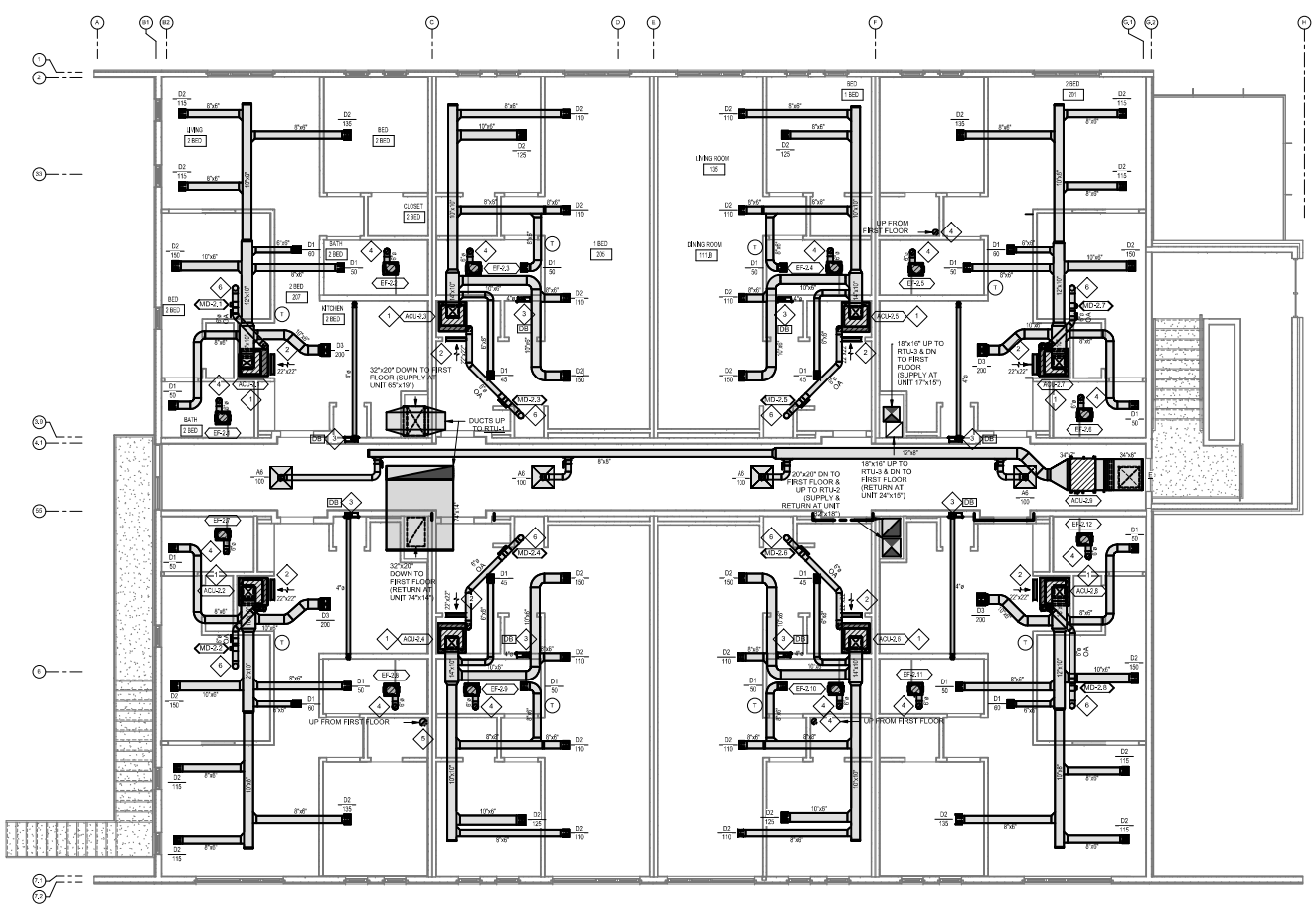
JASON CHRISTOPHER GROSS
REGISTERED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

OVERALL FIRST FLOOR AND MAIL ROOM HVAC PLAN

M101



1 M102 **OVERALL SECOND FLOOR HVAC PLAN**
3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t: 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@erg.com
601.265.7662
STRUCTURAL
NIKE GODFREY
ngodfrey@engineeringsolutionsllc.net
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
smurray@evergreenengineers.com
601.671.2808
ELECTRICAL
CHRIS GREEN
cgreen@hopkinsconsulting.us
601.265.4600
LANDSCAPE
AUSTIN LOVETT
austinlovett@breedchandler.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@southtrails.com
601.270.4487

ERG
ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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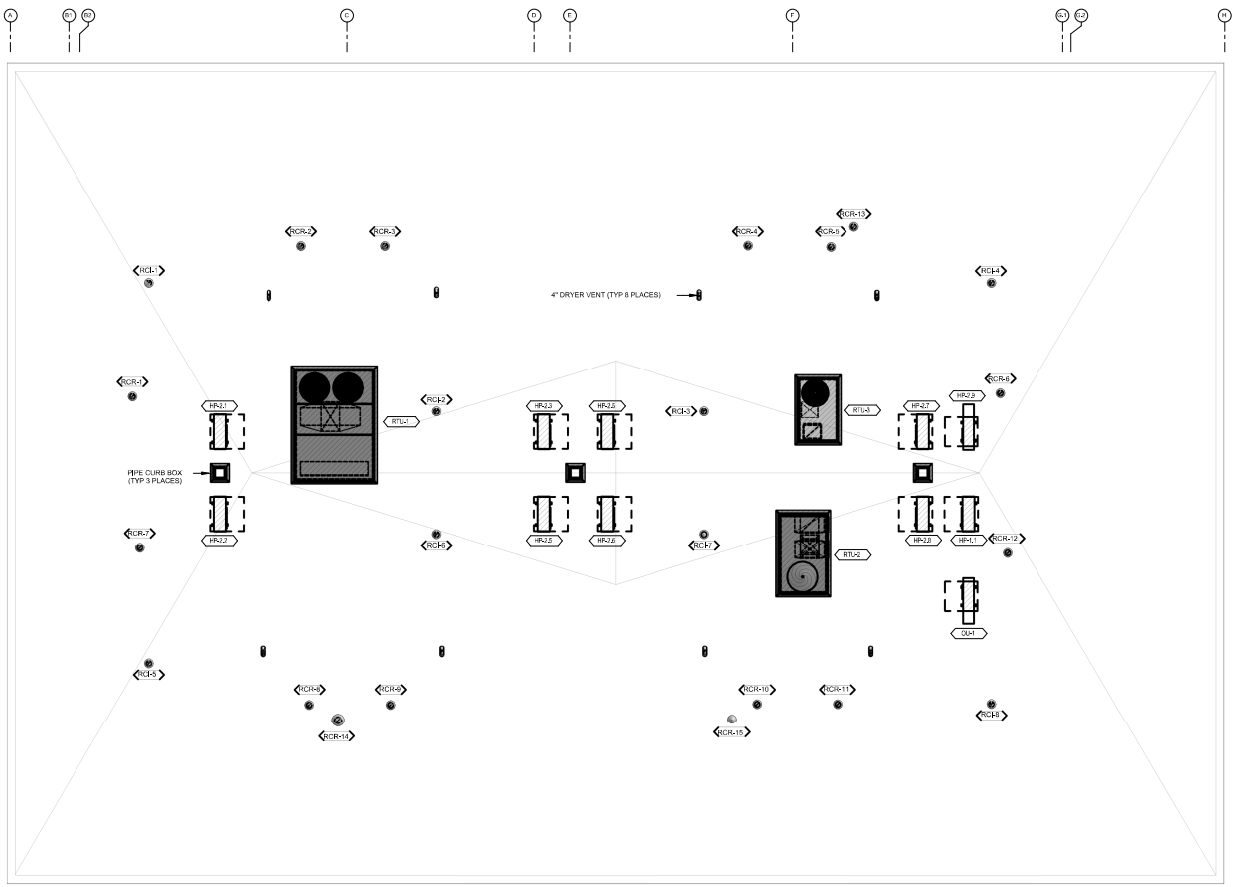
OVERALL SECOND FLOOR HVAC PLAN

M102



1 M103 **OVERALL ROOF HVAC PLAN**
3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgrosss@ergeng.com
601.365.7952

STRUCTURAL
NIKE GODFREY
nikeinkeinnen@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ubarpontengineers.com
601.201.2028

ELECTRICAL
CHRIS GREEN
cgreen@ergeng.com
601.365.4800

LANDSCAPE
AUSTIN LOVITT
austin@ovitt@weekschaffer.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@wmtrudio.com
601.370.4480

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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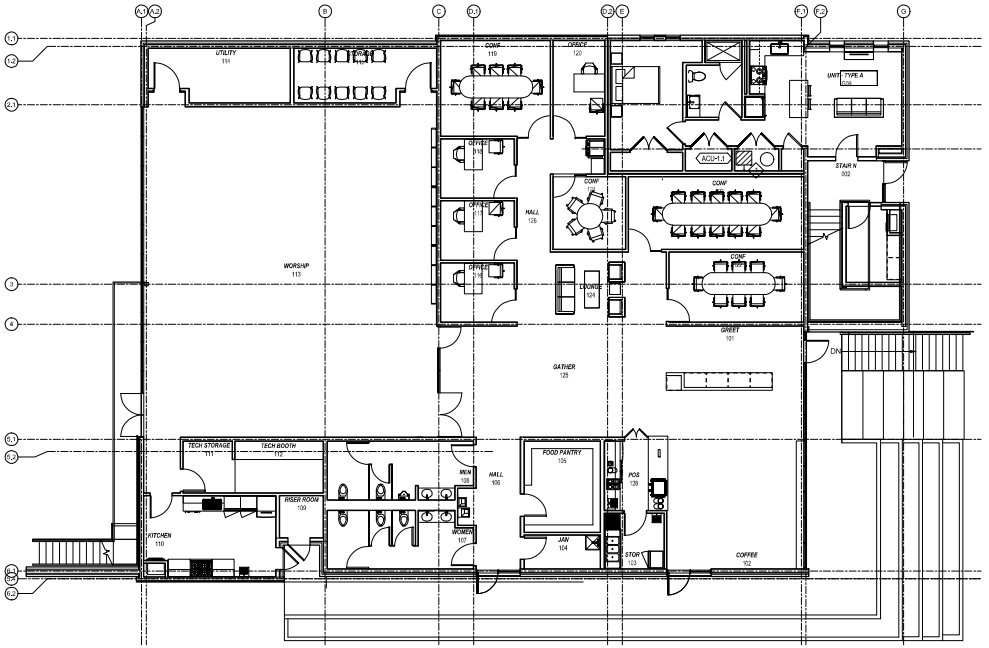
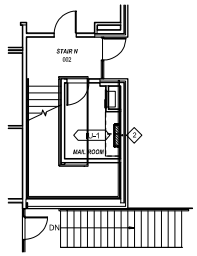
OVERALL ROOF HVAC PLAN

M103

PLAN NOTES:

1. REFRIGERANT UP TO SPACE BETWEEN FIRST AND SECOND FLOOR.
2. ROUTE REFRIGERANT PIPING UP FROM MAIL ROOM THROUGH PIPE CURB BOX TO CONDENSING UNIT ON ROOF.





1 M104 **OVERALL FIRST FLOOR AND MAIL ROOM REFRIGERANT PIPING PLAN**
1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.2552
STRUCTURAL
NIKE GODFREY
ngodfrey@joneswalker.com
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
smurray@mepengineers.com
601.87.2.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepengineers.com
601.265.4570
LANDSCAPE
AUSTIN LOVETT
austinlovett@hawkinsfleifer.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@usmdaily.com
601.270.4487

ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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REGISTERED PROFESSIONAL ENGINEER
01/16/26
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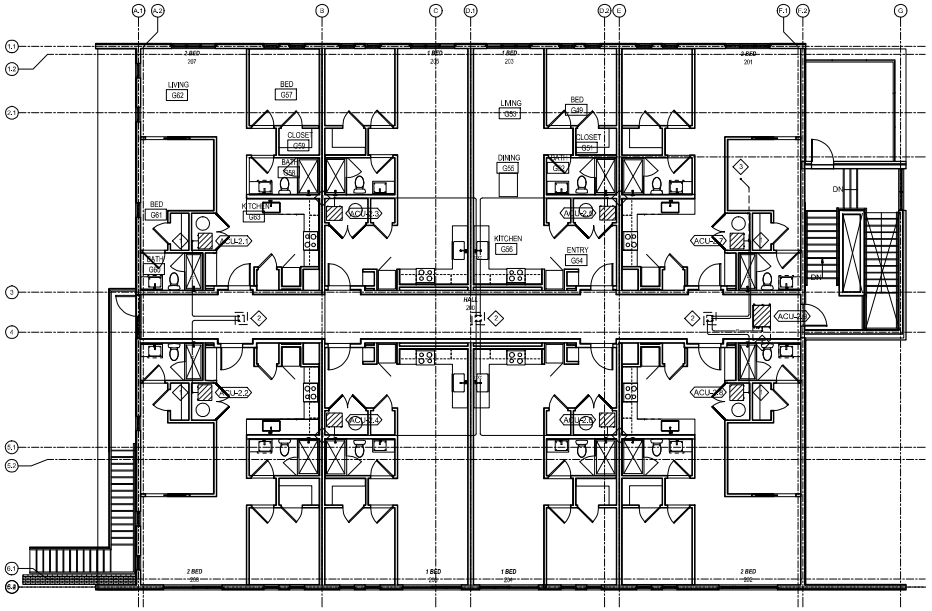
OVERALL FIRST FLOOR AND MAIL ROOM REFRIGERANT PIPING PLAN

M104

PLAN NOTES: (X)

1. REFRIGERANT PIPING UP TO SPACE ABOVE SECOND FLOOR AND BELOW ROOF. ROUTE UP THROUGH PIPE CURB BOX TO CONDENSING UNIT ON ROOF.
2. PIPE CURB BOX ON ROOF.
3. REFRIGERANT PIPING UP FROM FIRST FLOOR. ROUTE TO MECHANICAL CLOSET ON SECOND FLOOR AND THEN UP THROUGH PIPE CURB BOX ON ROOF.



1 M105 **OVERALL SECOND FLOOR REFRIGERANT PIPING PLAN**

1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@mcpro.com
601.265.7952

STRUCTURAL
NIKE GODFREY
nikeinkeinnein@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@ubarpontengineers.com
601.261.2828

ELECTRICAL
CHRIS GREEN
cgreen@mcpro.com
601.265.4800

LANDSCAPE
AUSTIN LOVITT
austin@vanderbilt.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@vanthrasha.com
601.270.4480

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
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OVERALL SECOND FLOOR
REFRIGERANT PIPING PLAN

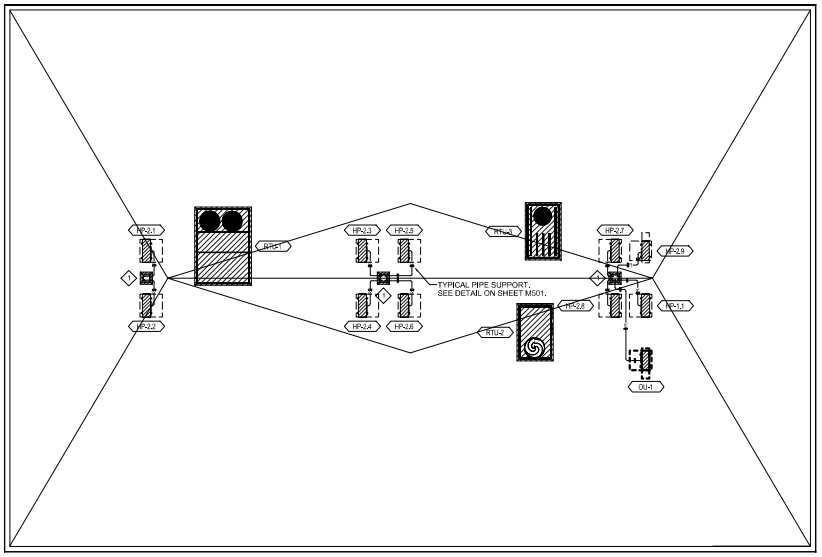
M105

GENERAL NOTES:

A. ROUTE CONDENSATE FROM UNITS ON ROOF TO NEAREST ROOF DRAIN.

PLAN NOTES: 1

1. REFRIGERANT PIPING ROUTED UP THROUGH PIPE CURB BOX TO CONDENSING UNITS ON ROOF.



1 M106 **OVERALL ROOF REFRIGERANT PIPING PLAN**

1/8" = 1'-0"

KEM STUDIO

1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@kemstudio.com
601.265.7952

STRUCTURAL
NIKE GODFREY
nikeshelterwerk@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@dlaeponlongmeyers.com
601.261.2828

ELECTRICAL
CHRIS GREEN
cgreen@thepowerstudio.us
601.265.4800

LANDSCAPE
AUSTIN LOVITT
austin@nichelsteinfer.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@ucmdlg.com
601.270.4482

USM - WESLEY

3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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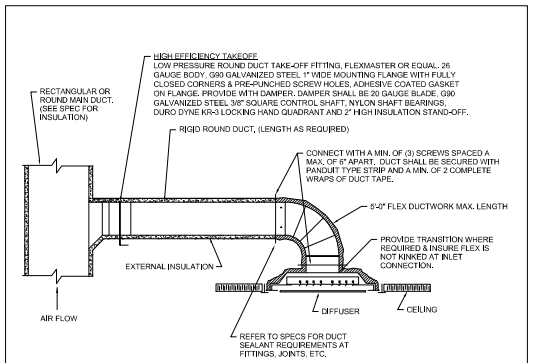
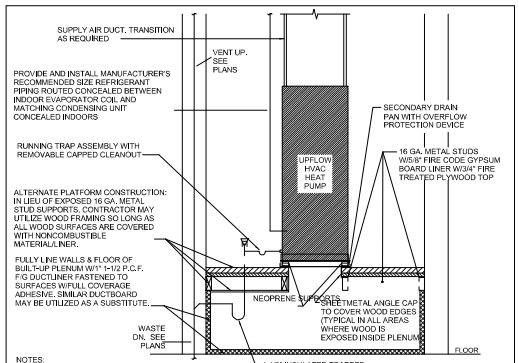
01/16/26
17087
STATE OF MISSISSIPPI

OVERALL ROOF REFRIGERANT PIPING PLAN

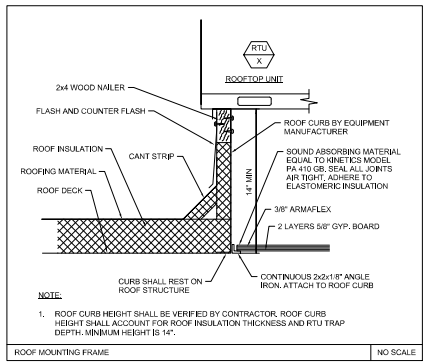
M106



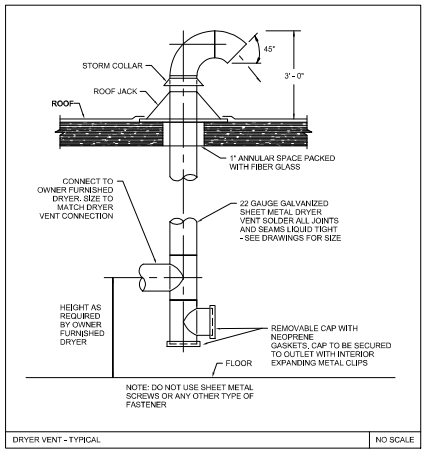
TYPICAL ROUND SUPPLY BRANCH DUCT DETAIL | NO SCALE



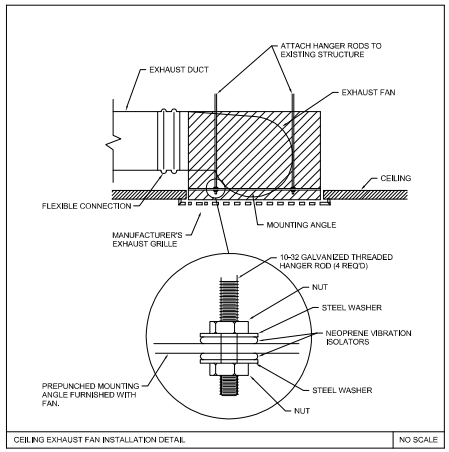
HEAT PUMP BLOWER COIL ON RETURN AIR BUILT-UP PLATFORM DETAIL | NO SCALE



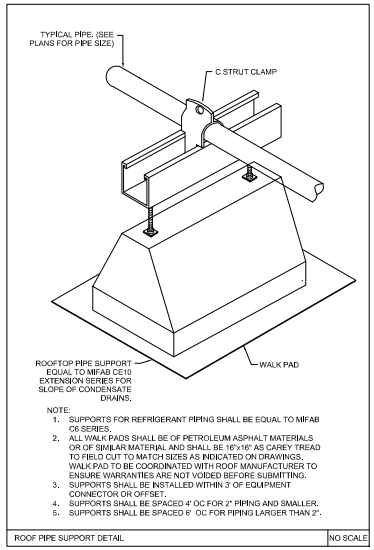
ROOF MOUNTING FRAME | NO SCALE



DRYER VENT - TYPICAL | NO SCALE



CEILING EXHAUST FAN INSTALLATION DETAIL | NO SCALE



ROOF PIPE SUPPORT DETAIL | NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t: 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.7552
STRUCTURAL
MIKE GODFREY
mikemikemikem@comcast.net
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
smurray@allpointsengineers.com
601.213.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.265.4570
LANDSCAPE
AUSTIN LOVETT
austinlovett@meadandhunt.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@southhillsllc.com
601.370.4481

ERG
ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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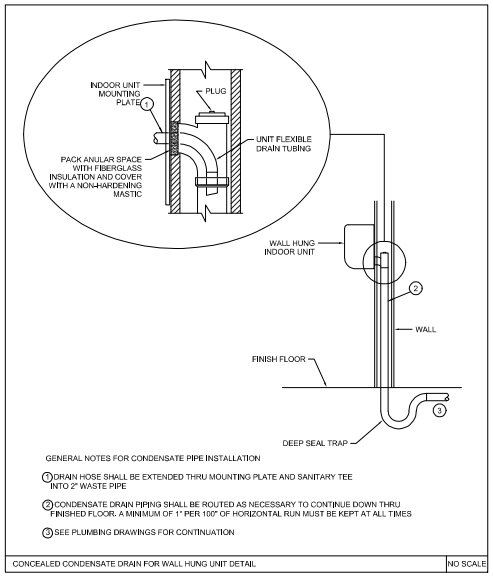
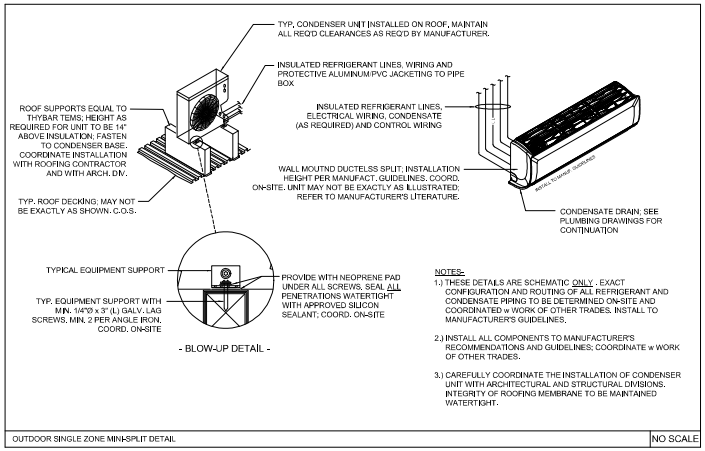
REGISTERED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL DETAILS

M501



CONCEALED CONDENSATE DRAIN FOR WALL HUNG UNIT DETAIL — NO SCALE



OUTDOOR SINGLE ZONE MINI-SPLIT DETAIL — NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.366.7552
STRUCTURAL
MIKE GODFREY
mikeodenkirchen@comcast.net
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
shelby@dlwpointengineers.com
601.271.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.366.7552
LANDSCAPE
AUSTIN LOVETT
austinlovett@meadandhunter.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@southfolk.com
601.278.4487

ERG
ERG P.N. 24.121

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

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REGISTERED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL DETAILS

M502

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	REFR TYPE	SUPPLY FAN: SUPPLY CFM	SUPPLY FAN: OA CFM	SUPPLY FAN: DESIGN ESP	SUPPLY FAN: HP	COOLING: AMBIENT TEMP	COOLING: EDB (UNIT) / EWB (UNIT)	COOLING: LDB (UNIT) / LWB (UNIT)	COOLING: CAPACITY (MBH) TOTAL	COOLING: CAPACITY (MBH) SENS	COOLING: MIN EER	COOLING: MIN IEER	COMPRESSOR QTY	COMPRESSOR RLA	CONDENSER QTY	CONDENSER FLA	HEATING: EAT	HEATING: INPUT (MBH)	HEATING: OUTPUT (MBH)	HEATING: HGRH	HEATING: FUEL	HEATING: MIN EFF(%)	ELECTRICAL: VOLT/Ø	ELECTRICAL: MCA	ELECTRICAL: MOCP	OPER WT (LBS)	REMARKS
RTU-1	TRANE YSK240A3S0L **D2C0A1B1A00201	R-454B	6000	600	1	3	95.0	81.0 / 67.0	56.9 / 54.7	237.3	168.8	9.8	13.5	2	1@44.5 1@25.9	1	4.3	68.0	250.0	202.5	YES	NAT GAS	80.0	208/3	108	150	2456	HAIL GUARDS, HINGED ACCESS PANELS, 14" ROOF CURB, NON-FUSED DISCONNECT, POWERED GFI OUTLET, THRU BASE GAS, ELEC, & CONDENSATE, DRY BULB ECONOMIZER (LOW-LEAKAGE DAMPER PER ASHRAE 90.1-CURRENT ADDITION), BAROMETRIC RELIEF, MERV 8 FILTERS, STAINLESS STEEL DRAIN PAN
RTU-2	TRANE YSK090A3S0L **D0C0A1B1A00201	R-454B	2500	250	1	3	95.0	81.0 / 67.0	57.1 / 55.7	91.1	66.2	11.0	14.6	2	1@16.5 1@9.9	1	3.3	68.0	120.0	97.2	YES	NAT GAS	80.0	208/3	43	50	1174	HAIL GUARDS, HINGED ACCESS PANELS, 14" ROOF CURB, NON-FUSED DISCONNECT, POWERED GFI OUTLET, THRU BASE GAS, ELEC, & CONDENSATE, DRY BULB ECONOMIZER (LOW-LEAKAGE DAMPER PER ASHRAE 90.1-CURRENT ADDITION), BAROMETRIC RELIEF, MERV 8 FILTERS, STAINLESS STEEL DRAIN PAN

TAG	MANUFACTURER & MODEL NO.	REFR TYPE	SUPPLY FAN: SUPPLY CFM	SUPPLY FAN: OA CFM	SUPPLY FAN: DESIGN ESP	SUPPLY FAN: HP	COOLING: AMBIENT TEMP	COOLING: EDB (UNIT) / EWB (UNIT)	COOLING: LDB (UNIT) / LWB (UNIT)	COOLING: CAPACITY (MBH) TOTAL	COOLING: CAPACITY (MBH) SENS	COOLING: EER / SEER	COOLING: EER2 / SEER2	COMPRESSOR QTY	COMPRESSOR RLA	CONDENSER QTY	CONDENSER FLA	HEATING: EAT	HEATING: INPUT (MBH)	HEATING: OUTPUT (MBH)	HEATING: HGRH	HEATING: FUEL	HEATING: MIN EFF(%)	ELECTRICAL: VOLT/Ø	ELECTRICAL: MCA	ELECTRICAL: MOCP	OPER WT (LBS)	REMARKS
RTU-3	TRANE YSK048A3S0L **B0C0A1B1A00201	R-454B	1400	140	1	1	95.0	81.0 / 67.0	56.6 / 54.3	46.9	34.8	12.0 / 14.0	11.0 / 13.4	1	14.8	1	5.3	68.0	80.0	64.8	YES	NAT GAS	80.0	208/3	31	45	1500	HAIL GUARDS, HINGED ACCESS PANELS, 14" ROOF CURB, NON-FUSED DISCONNECT, POWERED GFI OUTLET, THRU BASE GAS, ELEC, & CONDENSATE, DRY BULB ECONOMIZER (LOW-LEAKAGE DAMPER PER ASHRAE 90.1-CURRENT ADDITION), BAROMETRIC RELIEF, MERV 8 FILTERS, STAINLESS STEEL DRAIN PAN

POWER VENTILATOR SCHEDULE (FIRST FLOOR)

TAG	MANUFACTURER AND MODEL NO.	TYPE	CFM	ESP	RPM	SOUND (dBA/SONES)	ELECTRICAL: BHP	ELECTRICAL: HP	ELECTRICAL: V/Ø	ON/OFF	REMARKS
EF-1.1	COOK GCVF-180	CEILING MOUNTED	210	0.375	1333	5.0	0.013	53W	115/1	OCCUPANCY SENSOR	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE, MOTION SENSOR SHALL BE CEILING MOUNTED - PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR
EF-1.2	COOK GCVF-180	CEILING MOUNTED	210	0.375	1333	5.0	0.013	53W	115/1	OCCUPANCY SENSOR	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE, MOTION SENSOR SHALL BE CEILING MOUNTED - PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR
EF-1.3	COOK GCVF-100	CEILING MOUNTED	50	0.375	844	2.0	0.013	7W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-1.4	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE

POWER VENTILATOR SCHEDULE (SECOND FLOOR)

TAG	MANUFACTURER AND MODEL NO.	TYPE	CFM	ESP	RPM	SOUND (dBA/SONES)	ELECTRICAL: BHP	ELECTRICAL: HP	ELECTRICAL: V/Ø	ON/OFF	
EF-2.1	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.2	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.3	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.4	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.5	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.6	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.7	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.8	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.9	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.10	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.11	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE
EF-2.12	COOK GCVF-180	CEILING MOUNTED	100	0.375	928	2.5	0.013	15W	115/1	LIGHT SWITCH	PRE-WIRED DISCONNECT, ECM MOTOR, BACKDRAFT DAMPER, ISOLATOR KIT, WHITE ALUMINUM GRILLE

ROOF EXHAUST / INTAKE CAP SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	SERVES	FUNCTION	THROAT SIZE, INCHES	WT, POUNDS	REMARKS
RCR-1	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.1	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-2	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.2	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-3	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.3	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-4	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.4	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-5	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.5	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-6	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.6	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-7	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.7	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-8	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.8	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-9	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.9	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-10	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.10	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-11	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.11	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-12	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 2.12	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-13	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 1.4	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-14	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 1.1 & 1.2	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCR-15	COOK PR SPUN ALUMINUM GRAVITY	EXHAUST FAN 1.3	EXHAUST AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BACKDRAFT DAMPER, BIRDSCREEN
RCI-1	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.1	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-2	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.3	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-3	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.5	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-4	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.7	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-5	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.2	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-6	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.4	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-7	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.6	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN
RCI-8	COOK PR SPUN ALUMINUM GRAVITY	A/C UNIT 2.7	OUTSIDE AIR	8.625"	13	PROVIDE ROOF CURB TO MATCH ROOF SLOPE, BIRDSCREEN

KEMSTUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SCHEDULES

M601

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE (FIRST FLOOR)

TAG	MANUFACTURER	NOMINAL TONS	SUPPLY FAN				ELECTRIC HEAT		FILTER			OPER WT (LBS)	REMARKS
			SUPPLY CFM	OA CFM	ESP	HP	VOLT/Ø	KW	TYPE	DEPTH	MERV		
ACU-1.1	MITSUBISHI / TRANE PVA-AA30NL	2.0	700	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE (SECOND FLOOR)

TAG	MANUFACTURER	NOMINAL TONS	SUPPLY FAN				ELECTRIC HEAT		FILTER			OPER WT (LBS)	REMARKS
			SUPPLY CFM	OA CFM	ESP	HP	VOLT/Ø	KW	TYPE	DEPTH	MERV		
ACU-2.1	MITSUBISHI / TRANE PVA-AA30NL	2.5	875	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.2	MITSUBISHI / TRANE PVA-AA30NL	2.5	875	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.3	MITSUBISHI / TRANE PVA-AA24NL	2.0	700	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.4	MITSUBISHI / TRANE PVA-AA24NL	2.0	700	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.5	MITSUBISHI / TRANE PVA-AA24NL	2.0	700	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.6	MITSUBISHI / TRANE PVA-AA24NL	2.0	700	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.7	MITSUBISHI / TRANE PVA-AA30NL	2.5	875	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.8	MITSUBISHI / TRANE PVA-AA30NL	2.5	875	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	141	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION
ACU-2.9	MITSUBISHI / TRANE PEAD-AA18NL	1.5	525	—	0.5	—	208 / 1	—	THROW AWAY	1"	N.A.	60	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES, SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES, PROVIDE WITH PROGRAMMABLE THERMOSTAT, FILTER SECTION, TXV, SINGLE POINT POWER CONNECTION

HEAT PUMP CONDENSING UNIT SCHEDULE (FIRST FLOOR)

TAG	MANUFACTURER & MODEL NO	SERVING	NOM TONS	REFR TYPE	ELECTRICAL			OPER WT (LBS)	REMARKS
					MCA	MOCP	VOLT/Ø		
HP-1.1	MITSUBISHI / TRANE PUZ-AK30NLHZ	ACU-1.1	2.5	R454B	30	48	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

HEAT PUMP CONDENSING UNIT SCHEDULE (SECOND FLOOR)

TAG	MANUFACTURER & MODEL NO	SERVING	NOM TONS	REFR TYPE	ELECTRICAL			OPER WT (LBS)	REMARKS
					MCA	MOCP	VOLT/Ø		
HP-2.1	MITSUBISHI / TRANE PUZ-AK30NLHZ	ACU-2.1	2.5	R454B	30	48	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.2	MITSUBISHI / TRANE PUZ-AK30NLHZ	ACU-2.2	2.5	R454B	30	48	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.3	MITSUBISHI / TRANE PUZ-AK24NLHZ	ACU-2.3	2.0	R454B	25	39	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.4	MITSUBISHI / TRANE PUZ-AK24NLHZ	ACU-2.4	2.0	R454B	25	39	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.5	MITSUBISHI / TRANE PUZ-AK24NLHZ	ACU-2.5	2.0	R454B	25	39	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.6	MITSUBISHI / TRANE PUZ-AK24NLHZ	ACU-2.6	2.0	R454B	25	39	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.7	MITSUBISHI / TRANE PUZ-AK30NLHZ	ACU-2.7	2.5	R454B	30	48	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.8	MITSUBISHI / TRANE PUZ-AK30NLHZ	ACU-2.8	2.5	R454B	30	48	208 / 1	231	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
HP-2.9	MITSUBISHI / TRANE PUZ-AK18NL	ACU-2.9	1.5	R454B	20	27	208 / 1	99	NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB) & OUTDOOR OF 95°F (DB), NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB) & OUTDOOR OF 43°F (WB), EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS, FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING, ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

DUCTLESS SPLIT-SYSTEM - INDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	TYPE	COOLING (MBH)	HEATING (MBH)	ELECTRICAL			OPER WT (LBS)	REMARKS
					VOLT/Ø	FLA	MCA		
IU-1	TRANE MSZ-GX18NL	WALL MOUNTED	18	21.6	208/1	0.14	1.0	37	WIRED WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.

DUCTLESS SPLIT-SYSTEM - OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	NOM TONS	REFR TYPE	OAT		ELECTRICAL			SEER	EER	OPER WT (LBS)	REMARKS
				COOL	HEAT	MCA	MOCP	VOLT/Ø				
OU-1	TRANE MUZ-GX18NL	1-1/2 TON	R454B	95.0	47.0	23	25	208/1	22.5	14.1	116	INVERTER COMPRESSOR, LOW AMBIENT KIT

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondonement@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SCHEDULES

M602

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	TYPE	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	REMARKS
A6	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	6"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).
A8	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	8"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).
A10	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	10"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).
D1	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE 520	6x6"	8x6"	SEE PLANS FOR THROW DIRECTIONS.
D2	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE 520	8x6"	10x6"	SEE PLANS FOR THROW DIRECTIONS.
D3	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE 520	10x6"	12x6"	SEE PLANS FOR THROW DIRECTIONS.
E6	CEILING MOUNTED RETURN AIR DEVICE	PRICE SPD	6"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).
E8	CEILING MOUNTED RETURN AIR DEVICE	PRICE SPD	8"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).
E10	CEILING MOUNTED RETURN AIR DEVICE	PRICE SPD	10"Ø	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF).

WALL LOUVER SCHEDULE

TAG	MANUFACTURER & MODEL NO.	FUNCTION	CFM	MIN NET FREE AREA (SQFT)	OVERALL SIZE (L X H)	DEPTH	MAX PD (IN.W.G.)	REMARKS
LV-1	GREENHECK EHH-601	OUTSIDE AIR ACU-1,1	50	.58	8x8	6	0.03	FLUOROPOLYMER FINISH IN COLOR SELECTED BY ARCHITECT. ALUMINUM BIRDSCREEN

LINEAR SLOT DIFFUSERS SCHEDULE

TAG	MANUFACTURER & MODEL NO.	NO. OF SLOTS	SLOT WIDTH (IN)	TOTAL WIDTH (IN)	TOTAL LENGTH (FT)	BORDER TYPE	PATTERN	MOUNTING	PLENUM				MAX NC	REMARKS
									NUMBER	LENGTH (IN)	INLET (IN.)	TYPE		
B	PRICE AS215 (SUPPLY)	1	1.5	7	4'-0"	51	ADJUSTA -SLOT	SUSPENDED	1	48	8	ASP	<25	SIZE BASED ON PLAN CFM'S. FINISH TO BE SELECTED BY ARCH. PROVIDE WITH CABLE OPERATED DAMPER (VCRBEC). COORDINATE LINEAR GRILLES MODELS AND PLENUMS WITH ARCHITECT CEILING SYSTEM.
C	PRICE AS215 (RETURN)	1	1.5	7	4'-0"	51	ADJUSTA -SLOT	SUSPENDED	1	48	8	ASP	<25	SIZE BASED ON PLAN CFM'S. FINISH TO BE SELECTED BY ARCH. PROVIDE WITH CABLE OPERATED DAMPER (VCRBEC). COORDINATE LINEAR GRILLES MODELS AND PLENUMS WITH ARCHITECT CEILING SYSTEM.

MOTORIZED DAMPER SCHEDULE

TAG	DAMPER MODEL	ACTUATOR		INTERLOCK	POWER WIRING	CONTROLS & INTERLOCK WIRING	REMARKS
		MODEL	VOLTAGE/PHASE				
MD-1.1	RUSKIN CDRS-25	BELIMO	120/1	ACU-1.1	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.1	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.1	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.2	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.2	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.3	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.3	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.4	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.4	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.5	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.5	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.6	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.6	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.7	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.7	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
MD-2.8	RUSKIN CDRS-25	BELIMO	120/1	ACU-2.8	DIVISION 26	DIVISION 23	INTERLOCK WITH AHU. 2-POSITION ACTUATOR. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t: 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.366.7552

STRUCTURAL
NIKE GODFREY
ngodfrey@joneswalker.com
601.949.4668

CIVIL ENGINEERING
SHELBY MURRAY
smurray@dwpengineering.com
601.371.3808

ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.366.7552

LANDSCAPE
AUSTIN LOVETT
austinlovett@breelchieffer.com
601.948.1955

DEVELOPER
WALKER THRASH
wthrash@ergllc.com
601.270.4481

USM - WESLEY
3220 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121

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JASON CHRISTOPHER GROSS
REGISTERED PROFESSIONAL
ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

MECHANICAL SCHEDULES

M603

ELECTRICAL LEGEND

GENERAL NOTES

1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.
3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.
4. DEVICES NOTED AS "DL" SHALL BE RATED FOR DAMP LOCATION.
5. DEVICES NOTED AS "NL" SHALL BE NIGHT LIGHTS. PROVIDE UNSWITCHED POWER TO FIXTURE.
6. DEVICES NOTED AS "WG" SHALL BE PROVIDED AND INSTALLED WITH A WIRE GUARD.
7. DEVICES NOTED AS "TR" SHALL BE TAMPER RESISTANT.
8. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.
9. "W/E" INDICATES DEVICE/DISCONNECT PROVIDED WITH THE EQUIPMENT BY OTHERS.

LUMINAIRES (See Light Fixture Schedule)

NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CIRCUIT NUMBER. THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.

- 2'X2' RECESSED FIXTURE.
- 2'X2' RECESSED EMERGENCY FIXTURE.
- SURFACE MOUNTED OR SUSPENDED FIXTURE.
- SURFACE MOUNTED OR SUSPENDED EMERGENCY FIXTURE.
- RECESSED CEILING FIXTURE.
- RECESSED EMERGENCY CEILING FIXTURE.
- PENDANT MOUNT FIXTURE.
- CEILING MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- EXIT SIGN WITH EMERGENCY LIGHTING.
- WALL MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- WALL MOUNTED FIXTURE.
- WALL MOUNTED LINEAR FIXTURE.
- SURFACE MOUNTED TRACK AND TRACK LIGHTING FIXTURE.
- CEILING FAN.
- WALLWASH OR SPOT LIGHT FIXTURE.

MISCELLANEOUS

- C CONTACTOR.
- PE PHOTOCELL.
- J CEILING MOUNTED JUNCTION BOX.
- J WALL MOUNTED JUNCTION BOX.
- ~ FLEXIBLE CONNECTION TO EQUIPMENT.

SWITCHES

- $ SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- $2P DOUBLE-POLE, SINGLE-THROW, 30 AMP SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- $3 THREE-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- $4 FOUR-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- LED DIMMER EQUAL TO LEVITON #IP710-LFZ. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- $M AUTOMATIC WALL SWITCH. SENSORSWITCH #WSXA-PDT OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45" A.F.F. UNLESS NOTED OTHERWISE.
- AUTOMATIC WALL SWITCH WITH INTEGRAL 0-10V DIMMER. SENSORSWITCH #WSXA-PDT-D-VA OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- $T HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS (MANUAL MOTOR STARTER).
- MD1 PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 12' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-9 OR APPROVED EQUAL.
- MD2 PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-10 OR APPROVED EQUAL.
- PP POWER PACK MOUNTED ABOVE CEILING. SENSORSWITCH #PP20 OR APPROVED EQUAL.
- IN INVERTER MOUNTED ABOVE ACCESSIBLE CEILING. FEM LIGHTING #S-EMIN-110/125

RECEPTACLES

- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45"A.F.F. TO CENTERLINE OF BOX.
- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSLPASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45"A.F.F. TO CENTERLINE OF BOX.
- DF DUPLEX RECEPTACLE, NEMA 5-20R, FOR DRINKING FOUNTAIN FED FROM GFCI BREAKER. MOUNTED IN ACCORDANCE WITH MANUFACTURER'S ROUGH-IN REQUIREMENTS. VERIFY CONNECTION TYPE PRIOR TO BID. RECEPTACLE SHALL BE MOUNTED, CONCEALED BEHIND THE SHROUD OF THE DRINKING FOUNTAIN.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED IN A FLOOR BOX.
- SINGLE RECEPTACLE, NEMA 14-50R. PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED. MOUNTING DETERMINED BY NEC FOR TYPE OF EQUIPMENT BEING CONNECTED.
- SINGLE RECEPTACLE, NEMA 6-30R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- SINGLE RECEPTACLE, NEMA 14-30R, MOUNTED 36" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED.

CONDUIT AND WIRING

- CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.
- CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).
- CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- LA-1 HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.
- LA-1 PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT IN A JUNCTION BOX PRIOR TO ENTERING THE PANELBOARD.
- LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.

VOLTAGE DROP CHART FOR 20A, 1Ø CIRCUITS

Voltage	Circuit Length	Conductor Size (AWG)
120	< 50'	#12
120	> 50'	#10
120	> 90'	#8
120	> 140'	#6
277	< 130'	#12
277	> 130'	#10
277	> 200'	#8
277	> 330'	#6

VOLTAGE DROP CHART NOTES:
1) CIRCUIT SIZES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. REFER TO THIS CHART FOR UPSIZING CONDUCTORS AS NEEDED.
2) DO NOT CONNECT CONDUCTORS LARGER THAN #10 DIRECTLY TO A RECEPTACLE OR A SWITCH. PROVIDE A JUNCTION BOX TO DOWNSIZE THE CONDUCTOR TO #12 AT THE DEVICE.
3) FOR CIRCUITS LONGER THAN THOSE LISTED ABOVE, CONSULT WITH THE ENGINEER FOR CONDUCTOR SIZES.

GEAR

- ??/? F-? FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE; F-(RATING OF FUSES).
- ??/? NON-FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE.
- ? PANELBOARD.
- NETWORK MEDIA ENCLOSURE FOR TERMINATON OF COMMUNICATION CABLES. PROVIDE RECEPTACLES FOR TELCO, METERING, SECURITY, AND ALL OTHER SYSTEMS AS REQUIRED. COORDINATE WITH ALL TRADES AND SUPPLIERS FOR REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATE INCOMING SERVICE LOCATION AND REQUIREMENTS WITH PHONE AND TV PROVIDER PRIOR TO BID. SEE 3/E001 FOR PART NUMBER.

FIRE ALARM SYSTEM

- F MANUAL PULL STATION. MOUNT 48"A.F.F. TO CENTERLINE OF BOX.
- STROBE. MOUNT 80"A.F.F. TO BOTTOM OF BOX.
- COMBINATION HORN AND STROBE. MOUNT 80"A.F.F. TO BOTTOM OF BOX.
- SMOKE DETECTOR.
- THERMAL DETECTOR.
- DUCT SMOKE DETECTOR IN RETURN DUCT.
- DUCT SMOKE DETECTOR IN SUPPLY DUCT.
- CARBON MONOXIDE DETECTOR.
- MULTISENSOR TECHNOLOGY SMOKE AND CARBON MONOXIDE DETECTOR. ALL DETECTORS WITH IN A SINGLE UNIT MUST BE INTERLOCKED TO SOUND OFF SIMULTANEOUSLY.
- FACP FIRE ALARM CONTROL PANEL. CIRCUIT BREAKER SHALL BE COLORED RED.
- FAAP FIRE ALARM ANNUNCIATOR PANEL.
- FIRE ALARM HORN AND STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX.
- FIRE ALARM STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX.
- FIRE ALARM BELL.
- FS FLOW SWITCH.
- TS TAMPER SWITCH.

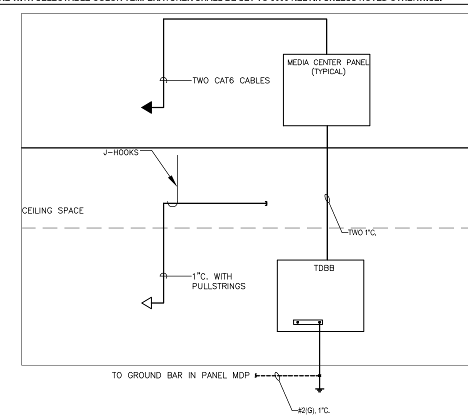
COMMUNICATIONS

- DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- DATA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE TELEPHONE/DATA OUTLET IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45" A.F.F. TO CENTERLINE OF BOX.
- DUPLEX RECEPTACLE, NEMA 5-20R AND A DATA OUTLET MOUNTED IN A FLOOR BOX.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R AND A DATA OUTLET MOUNTED IN A FLOOR BOX.
- WIFI.
- DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	3G LIGHTING	3GI-48RSL-2U-30K-80CRI-875LM/FT	LED, 36W 3,500 LUMENS	RECESSED	
B	LITHONIA	LDN6-AL02-SWW1-L06-AR-TRW-LSS MVOLT-UGZ	LED, 25W 2,212 LUMENS	RECESSED	
C	LITHONIA	LDN6-AL02-SWW1-L06-AR-TRW-LSS MVOLT-UGZ	LED, 19W 1,741 LUMENS	RECESSED	
CE	LITHONIA	LDN6-AL02-SWW1-L06-AR-TRW-LSS MVOLT-UGZ-E10WCP	LED, 19W 1,741 LUMENS	RECESSED	*WITH 120V EMERGENCY BATTERY PACK.
D	LITHONIA	LDN6-AL02-SWW1-L06-AR-TRW-LSS MVOLT-UGZ	LED, 12W 1,181 LUMENS	RECESSED	
DE	LITHONIA	LDN6-AL02-SWW1-L06-AR-TRW-LSS MVOLT-UGZ-E10WCP	LED, 12W 1,181 LUMENS	RECESSED	*WITH 120V EMERGENCY BATTERY PACK.
F	LITHONIA	CPX-2X2-AL07-80CRI-SWW7-SWL MVOLT	LED, 20W 2,587 LUMENS	RECESSED	
GE	LITHONIA	WDGE 2-P4-40K-VW-MVOLT-SRM E10WH-PE-DBLXD	LED, 35W 4,526 LUMENS	WALL	*WITH 120V EMERGENCY BATTERY PACK.
H	LITHONIA	LDN6-AL01-SWW1-L06-AR-TRW-LSS MVOLT-UGZ	LED, 9W 790 LUMENS	RECESSED	
J	LUMENS	ITEM# ICW2510801	LED, 4W 330 LUMENS	WALL	
K	LUMENS	ITEM# DAI2479040	LED, 18W 1,440 LUMENS	WALL	
L	LUMINII	KBS-W-HB-*-44SO-30K-R80-SF NA-WH-*-*	LED, 1.3W/FT 85 LUMENS/FT	STEP LIGHTS	*VERIFY LENGTH AND CONNECTIONS PRIOR TO ORDERING. POWER SUPPLY # PS-UNI-96-24
M	LUMENS	ITEM# MFM1666178	LED, 19W 1,600 LUMENS	FAN	
N	BIRCHWOOD	BW165-DI-250-250-30-FW-BW-6 MW-UNV-D1-CSS-36W	LED, 24W 1,250 UP/ 1,250 DN	SUSPENDED	
P	PRECISION	SOL20-SP-WDSO-18K30K-WD-WH USCC-RM-1120W01-01A	LED, 23W 1,790 LUMENS	SURFACE	
Q	LUMENS	ITEM# ICW2537976	LED, 5W	SURFACE	
R	HYDREL	PINE-P1-80CRI-40K-MVOLT-45DEG FLC-KM-JBA-C3-*	LED, 33W 3,128 LUMENS	KNUCKEL	*FINISH BY ARCHITECH
S	FOCAL POINT	FSM4LWL-FL-625-30K-1C-UNV-LD1 *-EM-WH-23'	LED, 138W 14,375 LUMENS	RECESSED	*VERIFY CEILING TYPE WITH ARCHITECT PRIOR TO ORDERING. **WITH 120V EMERGENCY BATTERY PACK.
T	FOCAL POINT	FSM4LWL-FL-625-30K-1C-UNV-LD1 *-WH-18'	LED, 108W 11,250 LUMENS	RECESSED	*VERIFY CEILING TYPE WITH ARCHITECT PRIOR TO ORDERING.
V	FOCAL POINT	FSM4LWL-FL-625-30K-1C-UNV-LD1 *-EM-WH-73'	LED, 438W 45,625 LUMENS	RECESSED	*VERIFY CEILING TYPE WITH ARCHITECT PRIOR TO ORDERING. **WITH 120V EMERGENCY BATTERY PACK.
W	SPI LIGHTING	SEW12145-4FT-L16W-120-277V-3000K DF_90+HE-LBK6-PSE-WL-12'-DF-FT-*	LED, 16W 1,627 LUMENS	WALL	*COLOR BY ARCHITECT.
X	LITHONIA	LQM-S-BBS-RG-MVOLT-EL	LED	UNIVERSAL	*WITH 120V EMERGENCY BATTERY PACK.
XEM	LITHONIA	LHQM-S-BBS-RG-MVOLT-HO	LED	UNIVERSAL	*WITH 120V EMERGENCY BATTERY PACK.
Y	QTL LIGHTING	VV25W-5.0-30K-DMP-STD-45-S1-CONE CLS-WH-CL2-SST-ST-*-0	LED, 5W/FT 426 LUMENS/FT	SHELF	*VERIFY EXACT LENGTH PRIOR TO ORDERING.

GENERAL LIGHTING NOTES:
1. ALL LIGHT FIXTURE WITH SELECTABLE COLOR TEMPERATURER SHALL BE SET TO 3000 KELVIN UNLESS NOTED OTHERWISE.



KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2026

PROJ. A_2406

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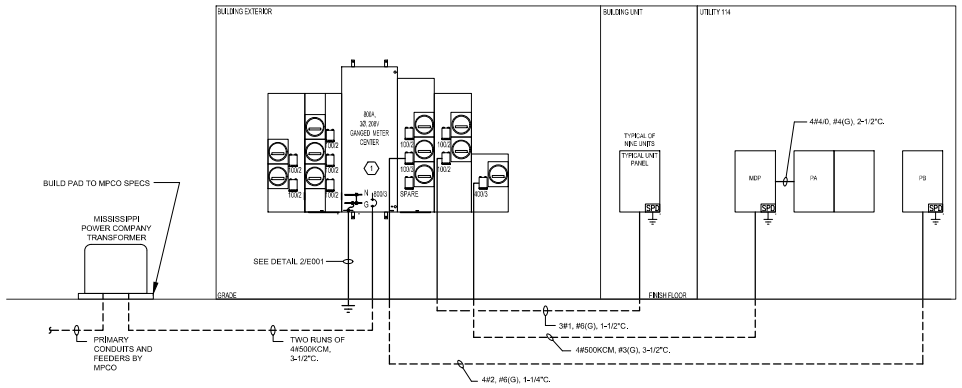
CHRISTOPHER GREEN, LICENSED PROFESSIONAL ENGINEER, 16778, STATE OF MISSISSIPPI, 1/16/2026

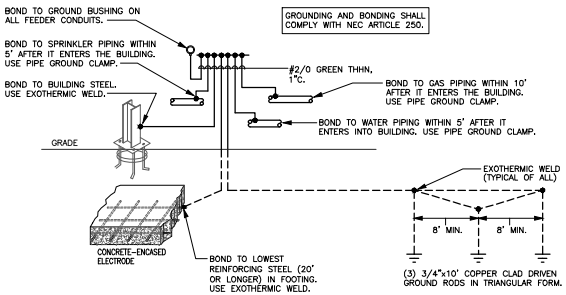
THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL LEGEND

E000



1 E001 SINGLE LINE DIAGRAM
Scale: NONE



2 E001 GROUNDING DETAIL
Scale: NONE

3 E001 MEDIA CENTER PART NUMBER
Scale: NONE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON CROSSA
ELECTRICAL
CHRIS GREEN
DEVELOPER
WALKER THRASH
STRUCTURAL
VINE GODFREY
LANDSCAPE
AUSTIN LOVITT
CIVIL ENGINEERING
SHELBY MURRAY

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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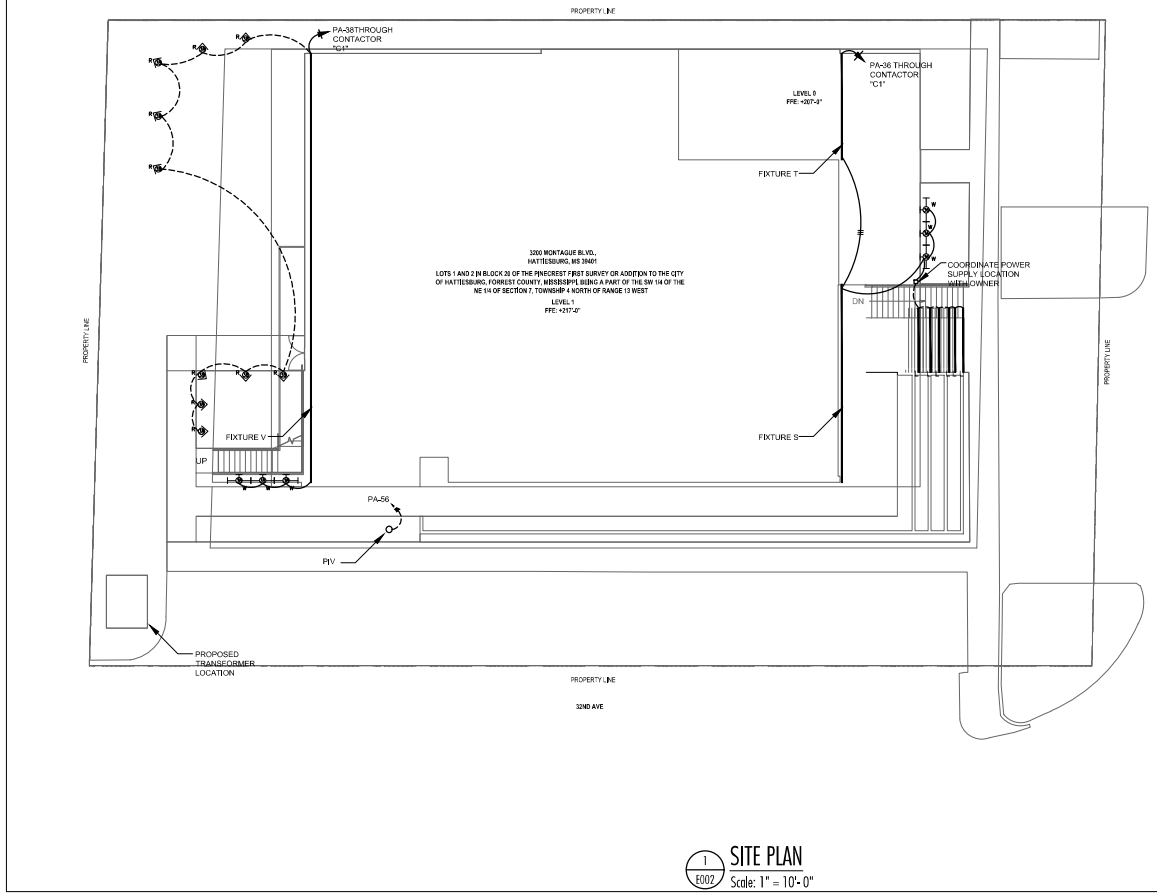
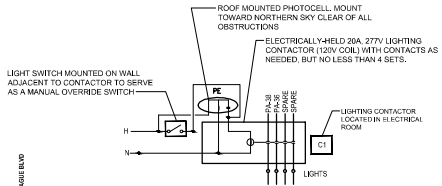
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL ONE LINE

E001



1 E002 SITE PLAN
Scale: 1" = 10'-0"



2 E002 LIGHTING CONTACTOR DETAIL
Scale: NONE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@pkgmep.com
601.362.2992
STRUCTURAL
VINE GODFREY
vinecmcrowell@comcast.net
601.940.4550
CIVIL ENGINEERING
SHELBY MURRAY
shelby@lokeconsulting.investcom
601.261.2922
ELECTRICAL
CHRIS GREEN
cgreen@mepinnovations.us
601.606.4828
LANDSCAPE
AUSTIN LOVITT
austinlovitt@mail.usmiss.edu
601.266.1958
DEVELOPER
WALKER THRASH
walker@smith-allen.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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THE POWER SOURCE PLAN
305 Highway 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SITE PLAN

E002

PANEL MDP

PANEL	LOCATION:	ELECTRICAL ROOM	LUG LOCATION:	BOTTOM FEED
MDP	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	400A MAIN BREAKER
	BUS:	400A	MOUNTING:	SURFACE

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A		B		C		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	150	3	RTU-1	10.4	3.0					RTU-3	45	3	2
3	-	-	-			10.4	3.0			-	-	-	4
5	-	-	-					10.4	3.0	-	-	-	6
7	50	3	RTU-2	4.1	0.0					SPARE	225	3	8
9	-	-	-			4.1	0.0			-	-	-	10
11	-	-	-					4.1	0.0	-	-	-	12
13	50	3	SPARE	0.0	0.0					SPARE	45	3	14
15	-	-	-			0.0	0.0			-	-	-	16
17	-	-	-					0.0	0.0	-	-	-	18
19	60	3	SPD	0.0	15.4					PANEL "PA"	225	3	20
21	-	-	-			0.0	16.1			-	-	-	22
23	-	-	-					0.0	16.2	-	-	-	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
31	20	1	SPARE	0.0	0.0					SPARE	20	1	32
33	20	1	SPARE			0.0	0.0			SPARE	20	1	34
35	20	1	SPARE					0.0	0.0	0	20	1	36
37	20	1	SPARE	0.0	0.0					PANEL "PA"	225	3	38
39	20	1	SPARE			0.0	0.0			-	-	-	40
41	20	1	SPARE					0.0	0.0	-	-	-	42
TOTAL				32.8		33.6		33.7					

PANEL PA

PANEL	LOCATION:	ELECTRICAL ROOM	LUG LOCATION:	BOTTOM FEED
PA	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	225A MAIN BREAKER W/ FEED THRU LUGS
	BUS:	225A	MOUNTING:	SURFACE

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A		B		C		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC. - JAN, HALL, GATHER, GREET	1.1	0.4					REC. - MEN, WOMEN BATHROOM	20	1	2
3	*20	1	REC. - DRINKING FOUNTAIN			0.5	1.1			REC. - RISER ROOM,KITCHEN,WORSHIP	20	1	4
5	*20	1	REC. - DRINKING FOUNTAIN					0.5	0.7	REC. - WORSHIP	20	1	6
7	20	1	REC. - STORAGE, UTILITY	0.5	0.4					REC.- WORSHIP	20	1	8
9	20	1	REC. - CONF 121, LOUNGE			0.9	0.4			REC. - WORSHIP	20	1	10
11	20	1	REC. - CONF 122					0.9	1.1	REC. - OFFICE 116, OFFICE 117	20	1	12
13	20	1	REC. - CONF 123	0.9	1.0					REC. - COPIER	20	1	14
15	20	1	REC. - OFFICE 118			0.5	0.4			REC. - STAIR IN	20	1	16
17	20	1	REC. - CONF 119, OFFICE 120					1.4	0.4	REC. - HALL, GATHER	20	1	18
19	20	1	REC. - PROJECTOR	0.5	0.9					LTS. - OFFICE 120, CONF 119, CONF 121, CONF 122	20	1	20
21	20	1	LTS. - WORSHIP 113			0.6	0.1			LTS. - HALL 200	20	1	22
23	20	1	LTS. - KITCHEN 110, TECH BOOTH 111, MEN 108, JAN 104					0.3	0.7	REC. - COFFEE	20	1	24
25	*20	1	REC. - ICE MACHINE	1.9	0.0					SPARE	20	1	26
27	*20	1	REC. - FREEZER			0.8	2.3			EWH-10	30	2	28
29	*20	1	REC. - REFRIGERATOR					0.8	2.3	-	-	-	30
31	*20	1	REC. - DISHWASHER	0.8	1.5					EF-1.3	20	1	32
33	20	1	REC. - MICROWAVE			1.4	0.5			LTS. - STAIRWELL	20	1	34
35	20	1	REC. - MICROWAVE					1.4	0.5	LTS. - EXTERIOR	20	1	36
37	*40	2	REC. - RANGE	3.2	0.7					LTS. - EXTERIOR	20	1	38
39	-	-	-			3.2	0.5			REC. - TDBB	20	1	40
41	30	2	HP-2.9, ACU-2.9					1.7	0.5	REC. - TDBB	20	1	42
43	-	-	-	1.7	0.0					SPARE	20	1	44
45	*40	2	OVEN			3.1	0.0			SPARE	20	1	46
47	-	-	-					3.1	0.0	SPARE	20	1	48
49	20	1	SPARE	0.0	0.0					SPARE	20	1	50
51	20	1	SPARE			0.0	0.0			SPARE	20	1	52
53	20	1	SPARE					0.0	0.0	SPARE	20	1	54
TOTAL				15.4		16.1		16.2		* GFCI BREAKER			

PANEL PA - SEC. 2

PANEL	LOCATION:	ELECTRICAL ROOM	LUG LOCATION:	TOP FEED
PA - SEC. 2	VOLT:	208Y/120V, 3Ø, 4W	MAIN:	MAIN LUGS ONLY
	BUS:	225A	MOUNTING:	SURFACE

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A		B		C		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	20	1	SPARE	0.0	0.1					PV	20	1	56
57	20	1	SPARE			0.0	0.0			SPARE	20	1	58
59	20	1	SPARE					0.0	0.0	SPARE	20	1	60
61	20	1	SPARE	0.0	0.0					SPARE	20	1	62
63	20	1	SPARE			0.0	0.0			SPARE	20	1	64
65	20	1	SPARE					0.0	0.0	SPARE	20	1	66
67	20	1	SPARE	0.0	0.0					SPARE	20	1	68
69	20	1	SPARE			0.0	0.0			SPARE	20	1	70
71	20	1	SPARE					0.0	0.0	SPARE	20	1	72
73	20	1	SPARE	0.0	0.0					SPARE	20	1	74
75	20	1	SPARE			0.0	0.0			SPARE	20	1	76
77	20	1	SPARE					0.0	0.0	SPARE	20	1	78
79	20	1	SPARE	0.0	0.0					SPARE	20	1	80
81	20	1	SPARE			0.0	0.0			SPARE	20	1	82
83	20	1	SPARE					0.0	0.0	SPARE	20	1	84
85	20	1	SPARE	0.0	0.0					SPARE	20	1	86
87	20	1	SPARE			0.0	0.0			SPARE	20	1	88
89	20	1	SPARE					0.0	0.0	SPARE	20	1	90
91	20	1	SPARE	0.0	0.0					SPARE	20	1	92
93	20	1	SPARE			0.0	0.0			SPARE	20	1	94
95	20	1	SPARE					0.0	0.0	SPARE	20	1	96
97	20	1	SPARE	0.0	0.0					SPARE	20	1	98
99	20	1	SPARE			0.0	0.0			SPARE	20	1	100
101	20	1	SPARE					0.0	0.0	SPARE	20	1	102
103	20	1	SPARE	0.0	0.0					SPARE	20	1	104
105	20	1	SPARE			0.0	0.0			SPARE	20	1	106
107	20	1	SPARE					0.0	0.0	SPARE	20	1	108
TOTAL				0.1		0.0		0.0		* GFCI BREAKER			

PANEL PB

PANEL	LOCATION:	ELECTRICAL ROOM	LUG LOCATION:	BOTTOM FEED
PB	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	100A MAIN BREAKER
	BUS:	100A	MOUNTING:	SURFACE

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A		B		C		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - STOR 103, COFFEE 102	0.2	0.2					REC. - POS, ESPRESSO GRINDER	*20	1	2
3	20	1	REC. - STOR			0.2	0.0			SPARE	20	1	4
5	*20	1	REC. - POS, ESPRESSO GRINDER					0.2	0.2	REC. - POS	*20	1	6
7	*20	1	REC. - POS, COFFEE BREWER	0.2	0.2					REC. - POS, BLENDER	*20	1	8
9	*20	1	REC. - POS, COFFEE GRINDER			0.2	0.2			REC. - POS, UNDERCOUNTER ICE MAKER	*20	1	10
11	*20	1	REC. - POS, UNDER COUNTER FRIDGE					0.2	0.0	REC. - ESPRESSO MACHINE	*30	2	12
13	*20	1	REC. - COFFEE	0.4	0.0					-	-	-	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
31	20	1	SPARE	0.0	0.0					SPARE	20	1	32
33	20	1	SPARE			0.0	0.0			SPARE	20	1	34
35	20	1	SPARE					0.0	0.0	SPARE	20	1	36
37	20	1	SPARE	0.0	0.0					SPD	20	1	38
39	20	1	SPARE			0.0	0.0			-	30	3	40
41	20	1	SPARE					0.0	0.0	-	-	-	42
TOTAL				1.1		0.5		0.5		* GFCI BREAKER			

PANEL U1

PANEL	LOCATION:	U1	LUG LOCATION:	BOTTOM FEED
U1	VOLT:	208/120V, 1Ø, 3W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	100A	MOUNTING:	RECESSED

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.1, ACU-2.1	50	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-2	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.1	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U2

PANEL	LOCATION:	U2	LUG LOCATION:	BOTTOM FEED
U2	VOLT:	208/120V, 1Ø, 3W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	100A	MOUNTING:	RECESSED

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.3, ACU-2.3	40	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-4	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.3	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U3

PANEL	LOCATION:	U3	LUG LOCATION:	BOTTOM FEED
U3	VOLT:	208/120V, 1Ø, 3W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	100A	MOUNTING:	RECESSED

PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.5, ACU-2.5	40	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-6	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.5	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

100% CONSTRUCTION DOCUMENTS

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CHRISTOPHER L. GREEN, LICENSED PROFESSIONAL ENGINEER, 16778, STATE OF MISSISSIPPI

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL PANEL SCHEDULES

E003

PANEL U4 | LOCATION: U4 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.7, ACU-2.7	50	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-8	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.7	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U5 | LOCATION: U5 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.2, ACU-2.2	50	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-3	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.2	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U6 | LOCATION: U6 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.4, ACU-2.4	40	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-5	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.4	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U7 | LOCATION: U7 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.6, ACU-2.6	40	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-7	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.6	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

Load Calculation For Unit Typical 2B 2BR					
UNIT 1		Optional Feeder and Service Load Calculations NEC 220.82			
General Lighting	3 VA	807 SF			2,421 VA
Kitchen Appliance Ckts	1500 VA	2			3,000 VA
Refrigerator	800 VA	1			800 VA
Fixed inplace microwave	1150 VA	1			1,150 VA
Laundry Circuit	1500 VA	1			1,500 VA
Electric Cloth Dryer	5000 VA	1			5,000 VA
Water Heater	4500 VA	1			4,500 VA
Electric Range	8000 VA	1			8,000 VA
Dishwasher	950 VA	1			950 VA
				Subtotal	27,321 VA
		First 10,000VA @ 100%			10,000 VA
		Remainder @ 40%			6,928 VA
				Total	16,928 VA
AHU	VA	1	65%		0 VA
CU	4992	1	100%		4,992 VA
				Total	21,920 VA
					91 Amps @ 208V

Load Calculation For Unit Typical 1B 1BR					
UNIT 2		Optional Feeder and Service Load Calculations NEC 220.82			
General Lighting	3 VA	635 SF			1,905 VA
Kitchen Appliance Ckts	1500 VA	2			3,000 VA
Refrigerator	800 VA	1			800 VA
Fixed inplace microwave	1150 VA	0			0 VA
Laundry Circuit	1500 VA	1			1,500 VA
Electric Cloth Dryer	5000 VA	1			5,000 VA
Water Heater	4500 VA	1			4,500 VA
Electric Range	8000 VA	1			8,000 VA
Dishwasher	950 VA	1			950 VA
Wall Heater	3300 VA	0			0 VA
				Subtotal	25,655 VA
		First 10,000VA @ 100%			10,000 VA
		Remainder @ 40%			6,262 VA
				Total	16,262 VA
AHU	0 VA	1	65%		0 VA
CU	3328	1	100%		3,328 VA
EUH	VA	1	65%		0 VA
				Total	19,590 VA
					82 Amps @ 208V

Load Calculation For Building				
4X 2B 2BR	4	Optional Feeder and Service Load Calculations NEC 220.84		
General Lighting	3 VA	805 SF		2,415 VA
Kitchen Appliance Ckts	1500 VA	2		3,000 VA
Fixed inplace microwave	1150 VA	1		1,150 VA
Laundry Circuit	1500 VA	1		1,500 VA
Electric Cloth Dryer	5000 VA	1		5,000 VA
Water Heater	4500 VA	1		4,500 VA
Electric Range	8000 VA	1		8,000 VA
Refrigerator	800 VA	1		800 VA
Dishwasher	950 VA	1		950 VA
AHU	VA	1	65%	0 VA
OHP	4992 VA	1	100%	4,992
			Total	32,307 VA
			Demand Factor 45%	14,538
				61 Amps @ 208, 1ø
			House Loads	Amps @ 208, 1ø
			Total Amps	61 Amps @ 208, 1ø

Load Calculation For Building				
4X 1B 1BR	4	Optional Feeder and Service Load Calculations NEC 220.84		
General Lighting	3 VA	635 SF		1,905 VA
Kitchen Appliance Ckts	1500 VA	2		3,000 VA
Fixed inplace microwave	1150 VA	1		1,150 VA
Laundry Circuit	1500 VA	1		1,500 VA
Electric Cloth Dryer	5000 VA	1		5,000 VA
Water Heater	4500 VA	1		4,500 VA
Electric Range	8000 VA	1		8,000 VA
Refrigerator	800 VA	1		800 VA
Dishwasher	950 VA	1		950 VA
AHU	VA	1	65%	0 VA
OHP	3328 VA	1	100%	3,328
EUH	0 VA	1	65%	0 VA
			Total	30,133 VA
			Demand Factor 45%	13,560
				38 Amps @ 208, 1ø
			House Loads	0 Amps @ 208, 1ø
			Total Amps	38 Amps @ 208, 1ø

PANEL U8 | LOCATION: U8 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	LIGHTS & REC	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-2.8, ACU-2.8	50	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-9	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-2.8	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

PANEL U9 | LOCATION: U9 | VOLT: 208/120V, 1Ø, 3W | BUS: 100A | LUG LOCATION: BOTTOM FEED | MAIN BUS: MAIN LUGS ONLY | MOUNTING: RECESSED | PANELBOARD AIC RATING (A): 22,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) L1		PHASE LOAD (KVA) L2		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	LIGHTS & REC	0.0	0.0			DRYER	***30	2	2
3	*20	1	LIGHTS & REC			0.0	0.0	-	-	-	4
5	*20	1	SPARE	0.0	0.0			WASHER	**20	1	6
7	20	1	BATHROOM REC			0.0	0.0	RANGE	***50	2	8
9	**20	1	DISHWASHER	0.0	0.0			-	-	-	10
11	*20	1	KITCHEN REC			0.0	0.0	HP-1.1, ACU-1.1	50	2	12
13	*20	1	KITCHEN REC	0.0	0.0			-	-	-	14
15	**20	1	REFRIGERATOR			0.0	0.0	EWH-1	30	2	16
17	20	1	MEDIA CENTER PANEL	0.0	0.0			-	-	-	18
19	20	1	SPARE			0.0	0.0	KH-1.2	20	1	20
21	20	1	SPARE	0.0	0.0			SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0			SPARE	20	1	26
27	20	1	SPARE			0.0	0.0	TYPE 2B SPD	30	2	28
29	20	1	SPARE	0.0	0.0			-	-	-	30
*** - GFCI CIRCUIT BREAKER			* - DENOTES ARC FAULT BREAKER	0.0		0.0		** - DENOTES DUAL FUNCTION ARC/GROUND FAULT CIRCUIT BREAKER			

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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100% CONSTRUCTION DRAWINGS	01.16.2026	0

CHRISTOPHER L. GREEN, LICENSED PROFESSIONAL ENGINEER, 16778, STATE OF MISSISSIPPI, 1/16/2026

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL PANEL SCHEDULES

E004

SPECIFICATIONS

SECTION 26-05-11
ELECTRICAL GENERAL AND WORK IN EXISTING FACILITIES

PART 1 - GENERAL

1.1 GENERAL

A. All work shall conform to the latest editions of the National Electrical Code (NEC) [National Fire Protection Association (NFPA) 70], the Standard for Electrical Safety in the Workplace (NFPA 70E), the Life-Safety Code (NFPA 101), the International Building Code, the Americans with Disabilities Act, and all other applicable federal, state, and local codes and regulations.

B. All work shall be performed in strict compliance with NFPA 70E. Submission of bid shall stand as an agreement by the Contractor to indemnify and hold harmless the Engineer and Owner from all liability related to damage and/or injury to personnel and equipment during the installation of the project.

C. The contract documents are schematic in nature and are intended to convey the intent of the electrical work to be performed on this project. Provide all material, labor, equipment, etc., necessary to provide complete and operable electrical systems.

D. The General Conditions, Supplementary Conditions, General Requirements, Information to Bidders, and all other parts of this set of Contract Documents are hereby adopted and are applicable to the Division 26, 27, and 28 Contractor.

1.2 SCOPE OF WORK

A. Visit site prior to bid. Devise a plan for installation of complete and operable electrical systems meeting the requirements and intent of the Contract Documents. Submission of Bid stands as evidence that the Contractor accepts the Contract Documents as sufficient and complete for the work to be performed. Notify the engineer at least two weeks prior to bid of any discrepancies between the Contract Documents and actual field conditions. No change orders will be granted due to existing conditions that could have been observed during a site visit.

B. Provide temporary power and lighting during construction. Coordinate with the General Contractor for the exact requirements.

C. Electrical switchgear and panelboard layouts are based on sizes of Square D equipment. Equipment manufactured by General Electric, Siemens, and Cutler Hammer are equally acceptable. However, the Electrical Contractor is responsible for selecting and furnishing gear that will fit in the spaces provided and shall be responsible for arranging the gear to meet the required code clearances. Regardless of the manufacturer, the Electrical Contractor shall provide a drawn-to-scale electrical layout with the equipment brochures for all rooms in which panelboards, motor control centers, switchboards, or switchgear are placed. The drawings shall include the work of all other trades including mechanical system piping, ductwork, sprinkler piping, etc. No conduits shall be installed until layouts have been approved.

D. Locate junction boxes, pull boxes, disconnects, and other equipment requiring access in such a manner that they are accessible at the end of construction. Notify the Architect where it is impossible to plan conduit routing or equipment placement in such a manner, and provide the necessary access panels in the ceiling or wall as required. The access panel type and style shall be subject to the Architect's approval. Employ a painter to provide the appropriate coatings as directed by the Architect.

E. Relocate, or recircuit, all electrical equipment, conduit, and circuitry conflicting with or obstructing work on this project. Where the electrical systems are owned by other entities, pay them to relocate, or recircuit, their facilities.

F. Arrange for connection of service to all electrical systems by the appropriate utility company. Coordinate completely with all utility company requirements even if they are different than the contract documents. If utility company requirements are different from the contract documents, notify the engineer at least ten days prior to bid. Pay all utility company charges necessary for installation and connection of service. **No change orders will be granted for utility company connection fees.**

G. Provide all necessary equipment, raceway, circuitry, fittings, lugs, terminations, labor, etc. and connect to all equipment and appliances requiring electrical connections furnished herein, by the Owner, or by other Contractors. Prior to ordering electrical equipment and roughing in for equipment furnished by the Owner or other Contractors, verify all connection types, connection locations, connection heights, voltages, number of phases, conductor sizes, disconnecting means, breaker sizes, etc. Furnish the proper electrical equipment for the equipment actually being supplied.

1.3 WORK IN EXISTING FACILITIES

A. All work shall be scheduled and coordinated through the General Contractor with the Owner. Provide necessary costs for all work during both normal and premium work hours in bid.

B. Provide continuous uninterrupted power to all existing facilities to remain during the entire construction process. Any required power outages must be scheduled and approved by the Owner in writing at least three days prior to the outage.

1.4 SCOPE OF WORK IN EXISTING FACILITIES

A. Prior to beginning work, survey existing electrical systems. Document, in writing, signed by the Owner any portions of existing systems that are not operating properly before construction begins. Any electrical systems found inoperable at the end of the construction process that has not been so documented shall be repaired at the end of construction.

B. Remove electrical equipment in areas being demolished and electrical equipment feeding other equipment being demolished. Remove raceways and circuitry back to the panel of origination. Where raceways are installed in inaccessible areas, remove conductors back to the panel of origination. Where circuits are not being completely demolished, remove conductors back to a junction box or other connection point outside of the renovated area and recircuit existing electrical equipment that is to remain as required. Where necessary, completely refeed existing electrical equipment that is to remain. It is the intent of this specification that all existing equipment to remain be left completely operable at the end of the construction process.

C. Survey existing panel board circuitry and provide new typewritten directories giving complete as-built circuitry information for all pane lboards affected by the construction on this project.

D. Where new circuit breakers are installed in existing equipment, the new circuit breakers shall be manufactured for installation in that equipment. The Amperes Interrupting Current (AIC) Rating shall equal the AIC rating of the existing equipment. A breaker with a lower AIC rating may be used if the contractor provides calculations showing that the breaker rating is sufficient to handle the available fault current. Submit these calculations for approval prior to ordering the breaker. An AIC rating on an existing breaker in the panelboard or switchboard does not demonstrate sufficient proof that the available fault current is less than that breaker's AIC rating.

1.5 SUBMITTALS AND SHOP DRAWINGS

A. Within 30 days after award of Contract and prior to beginning work, provide six bound copies of manufacturers' cut sheets containing information concerning each article of electrical equipment to be furnished on this project. These cut sheets shall contain sufficient information to prove compliance with the contract documents. Information addressing the requirements of the contract documents shall be highlighted. Each bound set shall bear the stamp of the Electrical Contractor as well as the General Contractor.

B. Within 30 days after award of Contract and prior to beginning work, provide six sets of full size shop drawings showing exact equipment locations with all equipment drawn to scale. Show all raceways with their junction boxes and pull boxes. Show all connection types, locations, and heights to equipment. Provide mounting and support details for all raceways and equipment. Coordinate with all other trades to ensure that there are no conflicts between systems. Each set of shop drawings shall bear the stamp of the Electrical Contractor, the General Contractor, and all Project Sub-Contractors. Failure to submit these Shop Drawings will render the Electrical Contractor responsible for resolving all conflicts between trades at his own expense.

C. Submittals and Shop Drawings are reviewed to determine quality of materials. Approval of submittals and shop drawings does not relieve the Contractor of meeting the requirements and intent of the Contract Documents.

D. Outlet, light fixture, and device locations are shown in their approximate locations on the drawings. Coordinate with Architectural drawings to get final locations. Mount all electrical outlets shown at counters such that the bottom of the box is two inches above the backsplash or six inches above a counter with no backsplash. The Owner reserves the right to relocate outlets, light fixtures, and devices a distance not to exceed twenty feet prior to the installation of outlet boxes.

PART 2 - PRODUCTS

2.1 All electrical equipment and materials shall be new. All equipment and materials shall be stored on the job site in weatherproof enclosures. Electronic equipment shall be stored in facilities where the temperature and humidity are controlled. In addition, comply completely with all manufacturers' requirements for storage and handling.

2.2 All equipment shall be UL listed for the application in which it is used and shall be labeled as evidence of its UL listing.

2.3 Each circuit breaker supplying a multiwire branch circuit shall be installed with a manufacturer supplied handle tie to simultaneously disconnect all ungrounded conductors. Each multi-wire branch circuit shall comply with NEC article 210.4.

2.4 Products shall be selected to maintain or improve the aesthetics of the facility. Gain approval of the Architect or Engineer prior to ordering or installing any electrical equipment or raceway.

PART 3 - EXECUTION

3.1 WORKMANSHIP

All work shall be performed with an emphasis on neatness. The Engineer, Architect, and Owner retain the right to reject work that is, in their judgment, unsatisfactory.

3.2 EXPERIENCE

The Contractor shall have completed at least two jobs of similar size and scope within the past five years. The Engineer reserves the right to reject Contractors based on their inability to submit evidence of their experience, or based on experience with the Contractor on previous projects.

3.3 PERMITS

Obtain and pay for all permits required for work.

SECTION 26-05-11
ELECTRICAL GENERAL AND WORK IN EXISTING FACILITIES (CONT.)

3.4 FIREPROOFING

A. Fireproof all penetrations through firewalls with a fireproofing compound listed to maintain the rating of the wall through which the raceway passes.

B. The fire-stopping caulk shall be a one-part, intumescent, latex elastomer. The caulk shall be capable of expanding a minimum of 3 times at 1000°F. The material shall be thixotropic and be applicable to overhead, vertical and horizontal fire-stops. The caulk shall be listed by independent test agencies such as UL or FM and be tested to, and pass the criteria of, ASTM E 814 Fire Test, tested under positive pressure. It shall comply with the requirements of the NEC (NFPA-70), BOCA, ICBO, SBCCI and NFPA Code 101. Fire-stopping caulk shall be paintable, but shall be non-hardening. Fire-stopping caulk shall be 3M Fire barrier CP or approved equal.

C. The fireproofing materials shall be installed by individuals certified to perform such work. Submit evidence of personnel certifications with electrical equipment brochures.

D. Where cable trays are shown crossing firewalls, terminate the cable tray on each side of the wall and run the conductors through conduits installed in the wall. Fireproof around the conductors after installation.

E. Provide mineral wool packing and all other materials recommended by the manufacturer for a complete installation.

3.5 FLASHING

Provide all necessary equipment and flash all roof penetrations in such a manner to ensure that all penetrations are completely sealed and all roof warranties remain in effect. Where there are no roof warranties, the Electrical Contractor shall guarantee the electrical penetrations against leaking for a period of one year from project completion. Employ a professional roofing contractor to perform all flashing.

3.6 PROTECTION

A. Keep energized equipment covered during all phases of construction. Use enclosures, doors, covers, etc., to ensure that neither personnel nor machinery contact live electrical equipment.

B. Replace electrical equipment that is damaged during construction.

3.7 DAMAGED FACILITIES

A. Locate all existing site equipment and utilities prior to beginning construction. Repair all equipment and utilities damaged during construction, or pay for the repair of the equipment and utilities where required by the Owner of the damaged facilities.

B. Coordinate the routing of all circuits and the locations of all devices with the Architect or Engineer and the Owner. Shop drawings shall describe completely the locations and elevations of all raceways, boxes, fittings, and equipment.

3.8 EXCAVATION AND BACKFILL

A. Excavate in such a manner as to minimize erosion of the soil. Backfill trenches around conduits with fine sand that is free of rocks, clods, and debris. Fill sand a minimum of 4" over conduits. Backfill the rest of the trench in six inch increments, wetted, and tamped. Final compaction shall be a minimum of 95% of that of the adjacent earth. Resurface the grade with the same material as that excavated from the grade whether it be paving, concrete, sod, etc. Repair work shall be comparable to the quality of the original site prior to excavation.

B. Provide a 3" wide plastic labeled marker tape 12" below grade over all electrical conduits buried underground. Tapes for power circuits shall have a warning such as "Caution: Buried Electrical Line Below." Labels on tapes for telephone, data, cable television, and other facilities shall adequately describe the line over which they are buried.

C. Provide a #12 AWG wire in each buried conduit run labeled accordingly on each end.

3.9 IDENTIFICATION

A. Label all switchboards, panel boards, motor starters, disconnects, and motor control centers furnished under Division 26, 27, and 28 and other divisions of this contract with engraved rigid plastic nameplates having letters at least ¼ inch high. Nameplates shall be bolted to the enclosure. All labels shall indicate the voltage, number of phases, the AIC rating, and the panelboard and circuit number from which the device is fed.

B. All circuit breakers in Switchboards, Motor Control Centers, Square D I-Line, and similar panelboards shall be labeled with plastic nameplates (as described in Part A) providing the name of the load served and the ampacity and number of poles of the breaker.

C. All Square D NQOD, NF and similar panel boards shall have typewritten circuit directories.

D. Label all conductors at all junction boxes, pull boxes, and terminations with typewritten adhesive markers indicating the panel board or switchboard name and circuit number of the conductor. Labels shall be Brady Datatab or approved equal.

E. Label all junction boxes and pull boxes with stenciled painted letters containing the name of the panel board and circuit numbers of the circuits contained within. Use black paint for normal circuits, red paint for emergency circuits, and orange paint for fire alarm circuits. The Contractor may select other colors for junction boxes and pull boxes for auxiliary systems.

F. Label all conduits in the most likely direction of access and view every 50' and on both ends of each bend with stenciled painted letters containing the name of the panel board and circuit numbers of the circuits contained within. Use black paint for normal circuits, red paint for emergency circuits, and orange paint for fire alarm circuits. The Contractor may select other colors for conduits for auxiliary systems.

3.10 AS-BUILT DRAWINGS

Maintain one set of drawings during construction for as-built markings. Mark these drawings in red to indicate field changes. Provide these drawings to the Engineer at the end of the construction process. Where required under the General Conditions, Special Conditions, or other portions of this contract, provide revised computer drawn as-built drawings to the Engineer at the end of construction.

3.11 TESTING

A. Test all systems, or pay testing agencies as required, for compliance with the requirements of all regulatory agencies.

B. Test the electrical power service ground using a Biddle Three-Terminal Ground Resistance Tester, or approved equal. Grounds shall meet the requirements of the NEC, or of Specification 26 05 26, whichever is more stringent. Test grounds only when the earth is dry. Provide additional ground rods as necessary to achieve the required results.

C. Prior to making final equipment connections, test all service, feeder, and branch circuit conductors for continuity, phase-to-phase faults, and phase-to-ground faults using a Megger BM100 or approved equal test instrument generating 500 Vdc. Insulation resistance shall be a minimum of 500,000 Ohms between any conductor and ground and 1,000,000 Ohms between any two conductors.

D. Test other systems as required in their respective specifications.

E. Provide three bound copies of all test results to the Engineer at the end of the construction process. No Recommendation of Substantial Completion will be granted until all testing reports have been submitted.

3.12 WARRANTY

Provide the Owner a written guarantee to repair, or replace, all faulty equipment and systems for a period of one year from date of Substantial Completion. During this one-year period, a representative of the Contractor shall be on the site actively working on the repairs within 24 hours of the Owner's telephone call. During this period of time, the Owner shall not be charged for any repair work or expenses related with the repair work unless the Contractor can prove that the Owner has damaged the equipment or system.

END OF SECTION

SECTION 26-05-20
LOW-VOLTAGE POWER CONDUCTORS AND CABLES

PART 1 - GENERAL

1.1 Provide all circuitry, terminations, splices, connectors, lugs, and other equipment necessary for connection of all equipment requiring electrical connections.

1.2 METAL CLAD CABLE.

A. Provide all circuitry, terminations, splices, connectors, lugs, and other equipment necessary for connection of metal clad cable where used on this project.

B. Metal Clad (MC) Cable may only be used where new electrical devices are being installed in existing hollow walls. All other circuitry shall be in conduit per Specification 26 05 33.

C. Provide a junction box in the accessible ceiling above the location of the new outlet. Provide a hole in the wall above the accessible ceiling. At the proper outlet height, cut out a hole in the wall for the use of an after-construction box. Run MC Cable down the wall to the junction box in the crawlspace, and connect it to the after-construction box before installing the box in the wall.

D. Each MC cable shall be furnished with a green insulated copper ground wire that is not shown by tic marks on the drawings.

PART 2 - PRODUCTS

2.1 CONDUCTORS

A. All electrical conductors shall be soft-drawn annealed copper having 98% conductivity and an insulation rating of 600V.

B. Conductors shall be UL listed for installation in the raceway in which they are to be installed.

C. Conductors shall be rated 90 degrees C for use in residential, commercial, industrial, and institutional facilities, and shall be listed as 105 degrees C appliance wire. Conductors shall be listed under UL 83, UL 1063, and UL 758. If XLP or EPR insulation is used, conductors shall be listed under UL 44 and NEMA WC7.

D. Conductors used for branch circuits, feeders, auxiliary systems, and controls run in dry locations shall have PVC insulation and a Nylon outer jacket. They shall be THHN/THWN or XHHW-2.

E. Conductors used for branch circuits, feeders, auxiliary systems, and controls run in wet locations shall have XLP or EPR insulation and be type XHHW-2.

F. Conductors used for operating room isolation panels and associated branch circuits shall be copper stranded conductor having a cross-linked polyethylene insulation or equivalent with a dielectric constant of 3.5 or less. Wire-pulling compounds that increase the dielectric constant shall not be used on the secondary conductors of isolation panels. The isolated circuit conductors shall be identified as follows:

Isolated Circuit #1 - Orange
Isolated Circuit #2 - Brown

For 125 volt, 15 & 20 ampere receptacles: The orange conductor shall be connected to the terminal on the receptacle that is identified in accordance with NEC 200.10(B) for connection to the grounded circuit conductor.

G. Conductors used for services shall be type SE for aerial services or type USE-2 for underground services.

H. Sizes #10 and #12 shall be solid conductors except where used for controls. All controls conductors shall be stranded.

I. Use minimum #14 AWG conductors for controls and auxiliary circuits. Use larger conductors as required to compensate for voltage drops exceeding 3% of the system voltage.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

100% CONSTRUCTION DOCUMENTS

Issued: 01.16.2026

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CHRISTOPHER L. GREEN
LICENSED PROFESSIONAL ENGINEER
16778
STATE OF MISSISSIPPI

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SPECS

E005

SPECIFICATIONS

SECTION 26-05-20
LOW-VOLTAGE POWER CONDUCTORS AND CABLES (CONT.)

J. Conductors shall be furnished in the colors described below unless local ordinances require different colors. Conductors #8 and smaller shall be furnished with colored insulation; conductors larger than #8 shall be taped with the appropriately colored tape for a length of at least 2" at each panelboard, junction box, pull box, load, or other exposed location. Ground conductors shall be taped green for their entire exposed length.

SYSTEM VOLTAGE	208Y/120V, 3 PHASE, 4 WIRE	120/240V, 3 PHASE, 4 WIRE	480Y/277V, 3 PHASE, 4 WIRE
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	ORANGE	ORANGE
PHASE C	BLUE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GRAY
GROUND	GREEN	GREEN	GREEN

2.1 Metal Clad Cable

A. Shall be UL listed as type MC. It shall meet the requirements of UL 1569. It shall also be constructed in accordance with NEC 334 C.

B. Fittings shall be manufactured and UL listed for the application in which they are used.

C. MC cable shall have an interlocked armor made of aluminum alloy or galvanized steel.

D. All electrical conductors shall be soft-drawn annealed copper having 98% conductivity and an insulation rating of 600V.

E. Conductors shall have PVC insulation and a Nylon outer jacket. They shall be THHN/THWN or XHHW-2.

F. Sizes #10 and #12 shall be solid conductors. Other conductors shall be stranded.

G. Conductors shall be furnished in the colors described below unless local ordinances require different colors. Conductors #8 and smaller shall be furnished with colored insulation; conductors larger than #8 shall be taped with the appropriately colored tape for a length of at least 2" at each panelboard, junction box, pull box, load, or other exposed location. Ground conductors shall be taped green for their entire exposed length.

SYSTEM VOLTAGE	208Y/120V, 3 PHASE, 4 WIRE	120/240V, 3 PHASE, 4 WIRE	480Y/277V, 3 PHASE, 4 WIRE
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	ORANGE	ORANGE
PHASE C	BLUE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	WHITE
GROUND	GREEN	GREEN	GREEN

PART 3 - EXECUTION

3.1 CONDUCTORS

A. Install conductors carefully using a minimum of two tradesmen - one feeding the conductors into the conduit, and the other pulling the conductors into the conduit.

B. Join stranded conductors with appropriate mechanical or compression lugs. Wire nuts may be used for solid conductors only.

C. Splices shall only be made in approved enclosures. Splices shall not be pulled inside conduits.

D. Provide cable supports and strain relief connectors as required by the NEC.

E. Furnish junction boxes, pull boxes, handholes, manholes, etc. as required to ensure that the maximum number of bends allowed by the NEC are not exceeded and to ensure that the cables are not damaged during installation.

3.2 METAL CLAD CABLE EXECUTION

A. Install MC Cable per the requirements of NEC 334 B.

B. Join stranded conductors with appropriate mechanical or compression lugs. Wire nuts may be used for solid conductors only.

C. Provide cable supports as required by the NEC.

D. Furnish junction boxes, pull boxes, handholes, manholes, etc. as required to ensure that the maximum number of bends allowed by the NEC are not exceeded and to ensure that the cables are not damaged during installation. Do not enclose junction boxes in areas that will be inaccessible at the end of construction.

E. MC Cable shall be run complete between junction boxes or outlet boxes. Splices are not allowed.

END OF SECTION

SECTION 26-05-26
GROUNDING AND BONDING

PART 1 - GENERAL

1.1 GENERAL

Ground all equipment, systems, structures, etc., per the latest edition of the National Electrical Code (NEC).

PART 2 - PRODUCTS

2.1 Use mechanical bolted connections in dry locations that are accessible.

2.2 Use exothermic welds in wet locations and locations that will be inaccessible at the end of construction.

2.3 Ground rods shall be UL listed 3/4" x 10' copper-clad steel ground rods with a minimum copper cladding thickness of 10 mils.

PART 3 - EXECUTION

3.1 Ground rods shall be installed with their tops no less than 6" below grade.

3.2 Bond ground connections to metal raceways at each end of the conduit run. Provide grounding bushings where required by the NEC. Where cable trays are used, bond the ground conductor to each section and fitting of the tray.

3.3 Provide all circuits with an equipment grounding conductor sized per the NEC, or as shown on the drawings. Circuitry shown on drawings does not include the required equipment grounding conductor. Where multiple circuits are run with a common neutral, only one equipment grounding conductor is needed. The equipment grounding conductor shall be furnished with green insulation for conductors #8 AWG and smaller; where larger than #8, the equipment grounding conductor shall be taped green for its entire exposed length.

3.4 The grounding electrode conductor(s) shall be bare or shall be colored green for its entire exposed length.

3.5 Individual ground conductors shall be installed in PVC conduit sized per the NEC.

3.6 Provide receptacles, luminaires, and other devices with a green conductor that bonds the receptacle grounding screw or pigtail, the outlet box grounding screw, and the equipment grounding conductor together.

3.7 In health care facilities, where two or more different panel boards serve the same patient-care area, an 8 AWG insulated continuous copper conductor shall bond these different panel boards together.

3.8 Telephone, cable television, and other auxiliary systems shall be bonded to the electrical building service ground using a conductor no smaller than #6 AWG.

END OF SECTION

SECTION 26-05-33
RACEWAYS OUTLET BOXES AND JUNCTION BOXES

PART 1 - GENERAL

1.1 GENERAL

A. All electrical systems circuitry shall be contained in raceways unless expressly listed in the specification for that system.

B. Outlet Boxes and Junction Boxes

1. Furnish and install all outlet boxes and junction boxes in accordance with this specification and the requirements of the NEC.
2. Provide outlet boxes for all switches, receptacles, luminaires, telephone jacks, cable jacks, and other devices furnished in this Contract. Provide all necessary hardware including, but not limited to, additional structural support, support brackets, screws, bolts, fixture studs, etc.
3. Outlet boxes and junction boxes in dry locations shall be galvanized stamped steel boxes sized per the latest edition of the National Electrical Code (NEC), but no less than 4" x 4" x 2 1/8" deep. The thickness of the steel shall be in compliance with the requirements of the NEC. Provide stamped steel covers for all junction boxes manufactured to fit the particular box on which it is used.
4. Outlet boxes used in concrete and masonry walls and ceilings shall be of the concrete type manufactured for such applications.
5. Outlet boxes and junction boxes in wet locations shall be of cast metal construction with gasketed waterproof covers. All conduit connections to the boxes shall be made watertight.
6. Wall outlet boxes shall be 4" x 4" x 2 1/8", or larger as required, with plaster rings provided for final flush installation. Plaster rings shall have single-gang openings unless the equipment mounted inside requires two-gang installation.
7. Floor boxes in slabs on grade shall be deep rectangular, cast iron, fully adjustable boxes with brass rings. Covers shall be made of brass and shall provide flip top access to the power or data jacks inside. Screw-on covers are not acceptable unless a flip-top cover is unavailable for the device installed in the floor box. Provide the box sized as required for the number of devices shown installed. Boxes shall be as follows, or approved equal:
   a. Single-Gang Boxes: Hubbell B2436
   b. Single-Gang Cover Plates: Hubbell S3825
   c. Double-Gang Boxes: Hubbell B4233
   d. Double-Gang Cover Plates: Two Hubbell S3825 Cover Plates
   e. Triple-Gang Boxes: Hubbell B4333
   f. Triple-Gang Cover Plates: Three Hubbell S3825 Cover Plates
8. In slabs above grade, use cast iron, semi-adjustable shallow boxes as follows, or approved equal:
   a. Single-Gang Boxes: Hubbell B2414
   b. Two-Gang Boxes: Hubbell B4214
   c. Three-Gang Boxes: Hubbell B4314
9. Receptacles installed in floor boxes shall be as described in Specification 26 09 23, Switches and Receptacles. Data, Telephone, or Combination Data and Telephone Outlets shall consist of Category 5 rated RJ45 jacks mounted in a Hubbell DJOI strap for use under a S3825 flip top cover plate.
10. In existing above grade, use poke thru boxes as follows, or equal:
    a. Hubbell System One
11. Size all boxes per the requirements of the latest NEC.

1.2 SCOPE OF WORK

A. Raceways

1. Provide all raceways, fittings, couplings, anchors, supports, hangers, etc. for complete raceway systems.
2. Size all conduit per the requirements of the NEC: however, minimum conduit size shall be 3/4" nominal trade size.
3. Use Schedule 40 polyvinyl chloride (PVC) conduit for circuits run underground and in slabs on grade level. Provide PVC-coated galvanized rigid steel elbows and PVC-coated galvanized rigid steel conduit for all vertical runs extending to a point at least 6" above grade. Galvanized Rigid steel conduit coated with two complete coats of asphaltum or bituminous paint may be used in lieu of PVC-coated galvanized rigid steel conduit.
4. Use Galvanized Rigid Steel (GRS) conduit for all applications where circuits are run above ground exposed to the weather.
5. Use Intermediate Metal Conduit (IMC) for all branch circuits, feeders, and auxiliary circuits requiring conduit 1 ¼" nominal trade size or larger in dry locations.
6. Use Electrical Metallic Tubing (EMT) for all branch circuits and feeders less than 1 ¼" nominal trade size in dry locations and in slabs above grade level.

PART 2 - PRODUCTS

2.1 Products for Raceways

A. PVC conduits, fittings, couplings, adapters, and accessories shall be UL listed and approved for use with 90 degree Celsius conductors. The UL label shall be affixed to each ten foot length of conduit and each fitting. Conduits shall comply with NEMA Specification TC-2 and UL 651. Fittings shall comply with NEMA TC-3 and UL 514b.

B. PVC-coated conduits, fittings, couplings, adapters, and accessories shall be UL listed with PVC as the primary corrosion protection. They shall be hot dipped galvanized rigid steel conduit with threads electro-galvanized after cutting. The conduit shall meet UL 6. The fittings shall meet UL 514B. The PVC coating shall be uniformly applied to the interior and exterior of all conduit and fittings. The coating shall be nominally 2 mils thick. The PVC coating shall extend one pipe diameter or two inches, whichever is less, at every male fitting except unions to fit over the joining female connection. Couplings shall contain a series of longitudinal ribs. 40 mils in thickness, to protect the coating from damage by tools during installation. PVC-coated conduits shall be ETL Verified PVC-001. Fittings shall be manufactured to the same standard. PVC-coated conduit shall be Robroy Plastibond or approved equal.

C. GRS conduits, fittings, couplings, adapters, and accessories shall be UL listed. They shall be hot-dipped galvanized steel. They shall meet the safety standards of UL 6, and shall be manufactured to ANSI C80.1. Threads shall be hot galvanized after cutting.

D. IMC conduits, fittings, couplings, adapters, and accessories shall be UL listed. They shall be hot-galvanized steel. Fittings, couplings, adapters, and accessories shall be the same as those for GRS conduit described above. IMC shall meet UL 1242 and ANSI C80.6. Threads shall be hot galvanized after cutting. The inside of the conduit shall be finished with a corrosion-resistant coating.

E. EMT conduits, fittings, couplings, adapters, and accessories shall be UL listed. They shall be hot galvanized steel and shall be produced in accordance with UL 797 and ANSI C80.3. The inside shall be finished with a corrosion-resistant lubricating coating.

F. Conduit fittings used with EMT conduits may be set screw indenter type or compression type. All metallic fittings for IMC and Rigid conduit shall be compression type fittings.

G. Flexible metallic conduit shall be constructed of galvanized steel and shall be UL listed as compliant with UL 1 and UL 1479.

H. Liquidtight flexible conduit shall be constructed of galvanized steel and shall be coated with a PVC jacket to resist liquids, dirt, grease, and oils. All fittings shall be designed, constructed, and installed to maintain the integrity of the liquidtight connections. Liquidtight flexible conduit shall comply with UL 360.

2.2 Acceptable Manufacturers for Outlet Boxes and Junction Boxes.

A. Outlet boxes and junction boxes shall be manufactured by Raco, Steel City, Crouse Hinds, or Appleton.

PART 3 - EXECUTION

3.1 Conduit Execution

A. Conduits run underground shall be buried no less than 24" deep. Services and primary conduits feeding transformers shall be buried no less than 48" deep.

B. Do not install conduits in or below ground floor slabs, except for service conduits, site lighting, and where specifically indicated on the drawings.

C. Do not install conduits within 6" of the deck where a screw down type roof system is utilized.

D. PVC-coated conduits may be field-bent provided that manufacturer-approved tools are used. Individuals installing PVC-coated conduits shall be trained for installation by factory-certified trainers. Provide evidence of training with equipment brochures.

E. Support and install all conduits per the latest edition of the National Electrical Code. Support groups of conduits with electrical strut supported by threaded rods anchored to the building structure. Supports shall be designed to hold no less than twice the weight of the conduit and conductors to be supported plus an additional 250 pounds at midspan.

F. All conduits shall be grouped and run parallel to each other and to building walls.

G. All conduits shall be assembled according to the manufacturer's instructions.

H. Conduits run underground shall be assembled to be watertight.

I. ~~Cap all conduits during installation. Pull a mandrel sized for that conduit and a cleaning brush through each conduit before installation of any~~ conductors.

SECTION 26-05-33
RACEWAYS OUTLET BOXES AND JUNCTION BOXES (CONT.)

J. Conduits that are obviously damaged and field bends that are obviously out of round shall be replaced.

K. Provide final connections to equipment with flexible metallic conduit. In wet or damp locations, use liquidtight flexible conduit. Flexible conduit shall not exceed 72".

L. Terminate conduits entering boxes with a locknut inside the box and a locknut outside the box. Provide protective bushings on all conduit threads. Use watertight hubs where conduit terminations are exposed to moisture.

M. Use grounding bushings on all feeder conduits, all underground conduits, and where required by the National Electrical Code.

N. Conduits shall be run no closer than 12" to hot water pipes.

O. Where conduits are run through the ceiling and are required to make connections to equipment within the room that is not located near a wall, support the conduit from the structural ceiling and provide a flange bolted to the floor. Install a tee conduit fitting in the vertical run of conduit, and make the connection to the equipment with a piece of flexible conduit extending from the tee conduit fitting to the equipment.

P. Provide expansion fittings where conduits cross building expansion joints. Provide grounding jumpers between the conduits.

Q. Provide EMT conduit sleeves where conduits pass through walls, floors, or footings sized a minimum of two nominal trade sizes larger than the conduit that must pass through the sleeve.

R. Equip all empty conduits with a pullwire or string capable of withstanding 200 pounds of pulling tension.

3.2 Execution for Outlet Boxes and Junction Boxes.

A. All devices shall be flush mounted unless specific written permission is obtained from the Engineer for a particular device in a particular location.

B. Install outlet boxes in walls, and provide plaster rings such that wall finish contractor's finish is flush against the edge of the plaster ring. Workmanship will not be accepted where the hole in the wall shows behind the cover plate, or the wall finish is uneven or unpainted at the edge of the cover plate.

C. Use round or square ceiling outlet boxes as required for the device being installed. The ceiling shall be finished flush against the box; the fixture shall completely cover the box and mount tight against the ceiling. Coordinate the requirements of the fixture prior to installing the box.

D. Provide junction boxes, pull boxes, and conduit fittings where required by the NEC to limit the number of bends in the raceway, and where required to prevent damage to conductors due to long runs.

E. Junction boxes and pull boxes installed in the ground outside shall be Quazite Composolite or approved equal. Mount the boxes over 24" of washed gravel fill. If splices are to be made inside the boxes, the boxes shall be of the type furnished with a bottom, and all conduit connections shall be watertight. In addition, all conductor splices shall be made watertight using an appropriate splice kit as manufactured by 3M, or an approved equal.

END OF SECTION

SECTION 26-09-23
SWITCHES AND RECEPTACLES

PART 1 - GENERAL

Furnish and Install all switches and receptacles in accordance with this specification and the requirements of the NEC.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Switches and receptacles shall be manufactured by Hubbell, Cooper Wiring Devices, Leviton, or Pass & Seymour.

2.2 GENERAL

A. Switches and receptacles shall be specification grade. They shall have ampacity and voltage ratings suitable for the application in which they are used.

B. Consult architect or engineer for device colors prior to ordering devices.

C. Provide brushed stainless steel cover plates for all devices. A single cover plate shall cover all devices in one box.

D. Light switches shall be 20 Ampere, 120-277V back-wired and side-wired toggle switches. They shall be rated up to 2 HP at 240V. Each switch shall be equipped with a grounding screw. Switches shall be Hubbell CSB series or approved equal.

E. Duplex NEMA 5-20R receptacles shall be Hubbell HBL 5362A or approved equal.

F. Duplex GFI NEMA 5-20R receptacles shall be Hubbell HBL GF5362A or approved equal.

G. Weatherproof while-in-use cover plates shall be Teddico #34017-7 or approved equal. Cover plates shall be single gang, lockable, and constructed of heavy duty die cast metal.

H. All 125V, 15 and 20 ampere receptacles installed in dwelling units shall be of the tamper-resistant type.

I. All 15 and 20 ampere, 125 and 250V non-locking receptacles installed in wet or damp locations shall be listed as the weather-resistant type.

J. Devices furnished in this Contract, but not listed above, shall be of the same standard of quality as those items listed.

PART 3 - EXECUTION

3.1 Flush mount all devices unless specific written permission is obtained from the Engineer for a particular device in a particular location.

3.2 Install all devices vertically unless the drawings specifically state that the particular device should be mounted horizontally.

3.3 Install receptacles with the ground slot up.

END OF SECTION

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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CHRISTOPHER GREEN, LICENSED PROFESSIONAL ENGINEER, 16778, STATE OF MISSISSIPPI

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SPECS

E006

SPECIFICATIONS

SECTION 26-09-26
VACANCY SENSORS

SECTION 260926 - VACANCY SENSORS

PART 1 - GENERAL

1.1 Furnish and install a complete system of Vacancy sensors as shown on the drawings and as specified herein to comply with the International Energy Conservation Code (IECC) 2012. The drawings are provided to show the general scope of the work, and show the absolute minimum components required. Actual system components, quantities, and locations shall be determined by the motion detector vendor and provided to the Contractor with the installation shop drawings.

1.2 The Contractor and Sales Representatives are advised to take notice of specified component characteristics when attempting to select and propose substitutions. It is highly unlikely that substitutions on a one-for-one component basis will produce results that provide acceptable system performance.

1.3 Provide all power packs, hardware, software, devices, circuitry, and other components, material, and labor required to install, configure, and test the entire system to the satisfaction of the Architect, Owner, and Engineer.

1.4 Submit six sets of manufacturer's cut sheets describing completely all equipment, and six sets of shop drawings showing all circuitry including terminal-to-terminal connections.

1.5 The wiring diagrams on these drawings are based on our best interpretation of the manufacturer's data that was available at the time of design; however, they shall not be used for system installation and configuration. The controls equipment vendor is expected to be thoroughly knowledgeable of the equipment that is being proposed, and shall provide detailed shop drawings tailored for each circuit and lighting zone on the project. General manufacturer's data sheets shall not be acceptable. The shop drawings shall be suitable for the installing electrician to use for complete installation of the circuitry without referring to data sheets or installation manuals for connection of lighting control equipment. These requirements shall be followed whether the specified equipment, or products of other manufacturers, is provided.

PART 2 - PRODUCTS

2.1 Hallway Vacancy sensors: Vacancy sensors used in the hallways shall be passive infrared, ceiling-mounted units with a coverage of 6' x 130'. They shall be Sensor Switch HW13 WV BR or approved equal.

2.2 Wall mounted LED lighting controls shall be 0-10V dimmer/vacancy sensor type equal to Lutron MS-Z101-V-XX

2.3 Wall mounted lighting controls shall be dual technology (ultrasonic/passive infrared) dual relay vacancy sensor type equal to Lutron MS-B202-V-XX

2.4 Areas up to 500 Square Feet: Ceiling mounted Vacancy sensors used in areas up to 500 square feet shall be dual technology infrared and passive infrared, ceiling-mounted units with a 360 degree, 500 square foot coverage.

2.5 Power Packs: Power packs shall be of the same manufacturer as the Vacancy sensors. Each shall be capable of controlling a 20 ampere circuit. They shall be rated for operation at the voltage of the system on which they will be used.

2.6 Circuitry: Provide control circuitry as required by the manufacturer for optimum system operation, but no less than the following: Control cables shall be 3-conductor #22 AWG copper with an overall jacket. Adjust conductor sizes as required to overcome unacceptable voltage drop.

PART 3 - EXECUTION

3.1 Vacancy sensors shall be provided so that their coverage areas overlap and there are no dead zones in the rooms where persons may stand and not be detected.

3.2 Vacancy Sensors shall be set for "manual on/automatic off" operation.

3.3 All work shall be done by qualified system technicians.

3.4 Wiring, including control wiring, shall be in Raceways meeting Specification 260533.

3.5 Guarantee workmanship and material for a period of one year after final acceptance. During the warranty period, repair or replace faulty equipment at no cost to the Owner for labor, material, or expenses.

3.6 Upon completion of job, test entire system. After testing submit a certificate to the Architect stating verification of the following:

PART 4 - CLOSE-OUT DOCUMENTS

4.1 Provide the following documents to the Architect for delivery to the Owner at the time of substantial completion:

A. Written Guarantee
B. Two sets of data prepared by the manufacturer for each item of electrical equipment completely describing each piece of equipment. The data shall include parts lists, a description of operation, shop drawings, wiring diagrams, maintenance procedures, and other literature required for operation and maintenance of equipment.

4.2 Instruct the Owner on system operational procedures. Notify the Owner and Architect at least one week in advance of the training session. Provide written step-by-step instructional material.

4.3 Notify the General Contractor that you are to present during the Pre-final Inspection. During that inspection, demonstrate all system functionality and capabilities; remove cover plates and panels covers as required to show the quality of the installation. The Owner, Architect, and Engineer reserve the right to reject unsuitable workmanship or performance.

END OF SECTION 260926

SECTION 26-24-00
PANELBOARDS

PART 1 - GENERAL

1.1 Furnish and install all panelboards, complete with their circuit breakers, phase buses, neutral buses, ground buses, structural supports, and other equipment necessary for complete systems.

1.2 The equipment vendor shall perform all calculations necessary and provide complete Arc Flash Labels as required by the National Electrical Cod (NEC) and the drawings. Note: The drawings typically require more detail than required by the NEC.

PART 2 - PRODUCTS

2.1 GENERAL

A. Panelboards shall be designed, manufactured, and tested to be in compliance with NEMA PB 1, UL 50, UL 67, UL 489, NFPA 70, and the ASTM.

B. Circuit breakers shall be designed, manufactured, and tested to be in compliance with NEMA AB 1, UL 489, and Federal Specification W-C-375B/GEN.

C. Panelboards shall be UL listed for service entrance where used for that purpose.

D. Panelboard ampere interrupting current (AIC) ratings shall equal the lowest rated device in the panelboard. Provide panelboards with the AIC ratings shown on the Contract Drawings. Buses shall be braced to withstand the AIC rating shown on the drawings. Series ratings shall only be used where shown on the panelboard schedules.

E. All panelboards shall be furnished with dead-front, door-in-door construction.

F. Lug locations shall be determined during the creation of shop drawings for proper arrangement with the raceway system.

G. Buses shall be constructed of 98% conductivity copper or equivalently rated aluminum.

H. Panelboard enclosures shall be NEMA 1 when they are to be mounted indoors, and NEMA 3R when they are to be mounted outdoors. Provide special enclosures where shown on the Contract Drawings.

2.2 ACCEPTABLE MANUFACTURERS

Panelboards shall be manufactured by Siemens, Square D, General Electric, or Cutler Hammer.

2.3 PANELBOARD CLASSES

A. Power distribution panelboards shall be available with mains and branch devices up to 1200 amperes. AIC ratings shall be available up to 200,000 Amperes. Power distribution panelboards shall be equipped with a nameplate containing the appropriate system voltage, number of wires, and number of phases for the system on which they are installed.

B. In 480Vac and less applications where a main breaker not exceeding 600 Amperes is required, the AIC rating does not exceed 65,000 Amperes, and no branch breakers exceed 125Amperes, Square D NF and equivalent panelboards may be used.

C. In 480Vac and less applications where a main breaker not exceeding 225 Amperes is required, the AIC rating does not exceed 14,000 Amperes, and no branch breakers exceed 100Amperes, Square D NEHB and equivalent panelboards may be used.

D. In 240Vac and less applications where a main breaker not exceeding 400 Amperes or main lugs not exceeding 600 Amperes is required, the AIC rating does not exceed 22,000 Amperes, and no branch breakers exceed 125 Amperes, Square D NQOD and equivalent panelboards may be used.

2.4 CIRCUIT BREAKERS

A. Circuit breakers shall be thermal magnetic, molded-case with quick-make, quick-break contact action. They shall have thermal and magnetic tripping elements on each pole. Breakers with multiple poles shall have common tripping of all poles. Circuit breaker ampere ratings shall be stamped on the handle. Interrupting ratings of the circuit breakers shall be equivalent to the specified AIC rating of the panelboard. Breakers handles shall reside in a position between "ON" and "OFF" after a trip condition. Breakers shall be rated HACR when used for heating, air-conditioning, and refrigeration; HID when used with High Intensity Discharge fixtures; and shall be rated SWD when used for switching duty.

B. Circuit breaker sizes for motor loads are based on Square D recommendations for use of their breakers at the motor horsepowers listed on the mechanical drawings. If equipment is used other than Square D, adjust breaker sizes per the manufacturer's recommendations.

C. Each circuit breaker supplying a multiwire branch circuit shall be installed with a manufacturer supplied handle tie to simultaneously disconnect all ungrounded conductors. Each multiwire branch circuit shall comply with NEC article 210.4.

D. Circuit breakers with slash ratings, such as 120/240V or 480Y/277V, shall be used in solidly grounded systems where the nominal voltage of any conductor to ground does not exceed the lower of the two values of the breaker's voltage rating and the nominal voltage between any two conductors does not exceed the higher value of the circuit breaker's voltage rating.

E. Circuit breakers with straight voltage ratings, such as 240V or 480V, shall be used in systems other than solidly grounded systems (Corner-Grounded Delta, Ungrounded, Impedance Grounded, etc.) where the nominal voltage between any two conductors does not exceed the circuit breaker's voltage rating. A two-pole circuit breaker shall not be used to protect a three-phase, Corner-Grounded Delta system unless the circuit breaker is marked 1Φ-3Φ.

PART 3 - EXECUTION

3.1 Install panelboards in complete compliance with all manufacturers' installation instructions.

3.2 Install conductors neatly in panelboards. Group and tie-wrap circuits that share a common neutral.

3.3 Number circuits exactly as shown on the contract drawings.

END OF SECTION

SECTION 26-28-00
DISCONNECTS AND SEPARATELY-MOUNTED CIRCUIT BREAKERS

PART 1 - GENERAL

Furnish and install all disconnects and separately mounted circuit breakers as shown on the drawings, specified herein, and required by the NEC.

PART 2 - PRODUCTS

2.1 GENERAL

A. Disconnects shall be of the heavy-duty type, and shall be UL listed for service entrance use. They shall meet or exceed the requirements of NEMA Standard KS1. Provide fuses sized to appropriately protect the load served. Equipment manufacturer's recommendations shall take precedence over the Contract Drawings.

B. Fuses shall be dual element, time-delay, Class J fuses. They shall be Bussman Low-Peak or approved equal.

C. Circuit breakers shall be thermal magnetic, molded-case with quick-make, quick-break contact action. They shall have thermal and magnetic tripping elements on each pole. Breakers with multiple poles shall have common tripping of all poles. Circuit breaker ampere ratings shall be stamped on the handle. Interrupting ratings of the circuit breakers shall be equivalent to the specified AIC rating of the panelboard. Breakers handles shall reside in a position between "ON" and "OFF" after a trip condition. Breakers shall be rated HACR when used for heating, air-conditioning, and refrigeration; HID when used with High Intensity Discharge fixtures; and shall be rated SWD when used for switching duty.

D. Circuit breaker sizes for motor loads are based on Square D recommendations for use of their breakers at the motor horsepowers listed on the mechanical drawings. If equipment is used other than Square D, adjust breaker sizes per the manufacturer's recommendations.

E. Circuit breakers with slash ratings, such as 120/240V or 480Y/277V, shall be used in solidly grounded systems where the nominal voltage of any conductor to ground does not exceed the lower of the two values of the breaker's voltage rating and the nominal voltage between any two conductors does not exceed the higher value of the circuit breaker's voltage rating.

SECTION 26-28-00
DISCONNECTS AND SEPARATELY-MOUNTED CIRCUIT BREAKERS (CONT.)

F. Circuit breakers with straight voltage ratings, such as 240V or 480V, shall be used in systems other than solidly grounded systems (Corner-Grounded Delta, Ungrounded, Impedance Grounded, etc.) where the nominal voltage between any two conductors does not exceed the circuit breaker's voltage rating. A two-pole circuit breaker shall not be used to protect a three-phase, Corner-Grounded Delta system unless the circuit breaker is marked 1Φ-3Φ.

G. Disconnect and individually-mounted circuit breaker ampere interrupting current (AIC) ratings shall equal the rating of the panelboard from which they are fed unless otherwise noted.

H. Buses shall be constructed of 98% conductivity copper or equivalently rated aluminum.

I. Switches shall be horsepower rated where used to serve motors.

J. Enclosures shall be NEMA 1 when they are to be mounted indoors, NEMA 3R when they are to be mounted outdoors, and NEMA 4X where they are subject to washdown. Provide special enclosures where shown on the Contract Drawings.

2.2 ACCEPTABLE MANUFACTURERS

Disconnects and separately-mounted circuit breakers shall be manufactured by Siemens, Square D, General Electric, or Cutler Hammer.

PART 3 - EXECUTION

3.1 Install disconnects and individually-mounted circuit breakers in complete compliance with all manufacturers' installation instructions. Where necessary, provide structural supports and bracing for installation.

3.2 Disconnects are to be surface-mounted.

3.3 Individually-mounted circuit breakers are to be flush-mounted unless otherwise shown.

END OF SECTION

SECTION 26-43-00
SURGE PROTECTIVE DEVICE (SPD)

PART 1 - GENERAL

1.1 SCOPE

A. The Contractor shall furnish and install the Surge Protective Device (SPD) equipment having the electrical characteristics, ratings, and modifications as specified herein and as shown on the contract drawings. To maximize performance and reliability and to obtain the lowest possible let-through voltages, the ac surge protection shall be integrated into electrical distribution equipment such as switchgear, switchboards, panelboards, busway (integrated within bus plug), or motor control centers. Refer to related sections for surge requirements in:

1.2 RELATED SECTIONS

A. Section 26 24 00 - Panelboards

1.3 REFERENCES

A. SPD units and all components shall be designed, manufactured, and tested in accordance with the latest applicable UL standard (ANSI/UL 1449 3rd Edition).

1.4 SUBMITTALS - For Review/Approval

A. The following information shall be submitted to the Engineer:

1. Provide verification that the SPD complies with the required ANSI/UL 1449 3rd Edition listing by Underwriters Laboratories (UL) or other Nationally Recognized Testing Laboratory (NRTL). Compliance may be in the form of a file number that can be verified on UL's website or on any other NRTL's website, as long as the website contains the following information at a minimum: model number, SPD Type, system voltage, phases, modes of protection, Voltage Protection Rating (VPR), and Nominal Discharge Current (In).
2. For sidemount mounting applications (SPD mounted external to electrical assembly), electrical/mechanical drawings showing unit dimensions, weights, installation instruction details, and wiring configuration.

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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CHRISTOPHER L. GREEN
LICENSED PROFESSIONAL ENGINEER
16778
STATE OF MISSISSIPPI

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SPECS

E007

SPECIFICATIONS

SECTION 26-43-00
SURGE PROTECTIVE DEVICE (SPD) CONT.

B. Where applicable the following additional information shall be submitted to the engineer:

1. Descriptive bulletins
2. Product sheets

1.5 Submittals - for Construction

A. The following information shall be submitted for record purposes:

1. Final as-built drawings and information for items listed in Section 1.04 and shall incorporate all changes made during the manufacturing process

1.6 QUALIFICATIONS

A. The manufacturer of the assembly shall be the manufacturer of the major components within the assembly.

B. For the equipment specified herein, the manufacturer shall be ISO 9001 or 9002 certified.
C. The manufacturer of this equipment shall have produced similar electrical equipment for a minimum period of five (5) years. When requested by the Engineer, an acceptable list of installations with similar equipment shall be provided demonstrating compliance with this requirement.

D. The SPD shall be compliant with the Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC.

1.7 DELIVERY, STORAGE AND HANDLING

A. Equipment shall be handled and stored in accordance with manufacturer's instructions. One (1) copy of manufacturer's instructions shall be included with the equipment at time of shipment.

1.8 OPERATION AND MAINTENANCE MANUALS

A. Operation and maintenance manuals shall be provided with each SPD shipped.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Eaton Cutler-Hammer

The listing of specific manufacturers above does not imply acceptance of their products that do not meet the specified ratings, features, and functions. Manufacturers listed above are not relieved from meeting these specifications in their entirety. Products in compliance with the specification and manufactured by others not named will be considered only if pre-approved by the Engineer ten (10) days prior to bid date.

2.2 VOLTAGE SURGE SUPPRESSION - GENERAL

B. Electrical Requirements

1. Unit Operating Voltage - Refer to drawings for operating voltage and unit configuration.
2. Maximum Continuous Operating Voltage (MCOV) - The MCOV shall not be less than 125% of the nominal system operating voltage.
3. The suppression system shall incorporate thermally protected metal-oxide varistors (MOVs) as the core surge suppression component for the service entrance and all other distribution levels. The system shall not utilize silicon avalanche diodes, selenium cells, air gaps, or other components that may crowbar the system voltage leading to system upset or create any environmental hazards.
4. Protection Modes - The SPD must protect all modes of the electrical system being utilized. The required protection modes are indicated by bullets in the following table:

	PROTECTION MODES			
CONFIGURATION	L-N	L-G	L-L	N-G
WYE	●	●	●	●
DELTA	NA	●	●	NA
SINGLE SPLIT PHASE	●	●	●	●
HIGH LEG DELTA	●	●	●	●

5. Nominal Discharge Current (In) - All SPDs applied to the distribution system shall have a 20kA In rating regardless of their SPD Type (includes Types 1 and 2) or operating voltage. SPDs having an In less than 20kA shall be rejected.

6. ANSI/UL 1449 3rd Edition Voltage Protection Rating (VPR) - The maximum ANSI/UL 1449 3rd Edition VPR for the device shall not exceed the following:

MODES	208Y/120V	480Y/277V	600Y/347V
L-N; L-G; N-G	700	1200	1500
L-L	1200	2000	3000

C. SPD Design

1. Maintenance Free Design - The SPD shall be maintenance free and shall not require any user intervention throughout its life. SPDs containing items such as replaceable modules, replaceable fuses, or replaceable batteries shall not be accepted. SPDs requiring any maintenance of any sort such as periodic tightening of connections shall not be accepted. SPDs requiring user intervention to test the unit via a diagnostic test kit or similar device shall not be accepted.
2. Balanced Suppression Platform - The surge current shall be equally distributed to all MOV components to ensure equal stressing and maximum performance. The surge suppression platform must provide equal impedance paths to each matched MOV. Designs incorporating replaceable SPD modules shall not be accepted.
3. Electrical Noise Filter - Each unit shall include a high-performance EMI/RFI noise rejection filter. Noise attenuation for electric line noise shall be up to 50 dB from 10 kHz to 100 MHz using the MIL-STD-220A insertion loss test method. Products unable able to meet this specification shall not be accepted.
4. Internal Connections - No plug-in component modules or printed circuit boards shall be used as surge current conductors. All internal components shall be soldered, hardwired with connections utilizing low impedance conductors.
5. Monitoring Diagnostics - Each SPD shall provide the following integral monitoring options:
a. Protection Status Indicators - Each unit shall have a green / red solid-state indicator light that reports the status of the protection on each phase.

i. For wye configured units, the indicator lights must report the status of all protection elements and circuitry in the L-N and L-G modes. Wye configured units shall also contain an additional green / red solid-state indicator light that reports the status of the protection elements and circuitry in the N-G mode. SPDs that indicate only the status of the L-N and L-G modes shall not be accepted.

ii. For delta configured units, the indicator lights must report the status of all protection elements and circuitry in the L-G and L-L modes.

iii. The absence of a green light and the presence of a red light shall indicate that damage has occurred on the respective phase or mode. All protection status indicators must indicate the actual status of the protection on each phase or mode. If power is removed from any one phase, the indicator lights must continue to indicate the status of the protection on all other phases and protection modes. Diagnostics packages that simply indicate whether power is present on a particular phase shall not be accepted.

b. Remote Status Monitor - The SPD must include Form C dry contacts (one NO and one NC) for remote annunciation of its status. Both the NO and NC contacts shall change state under any fault condition.
c. Audible Alarm and Silence Button - The SPD shall contain an audible alarm that will be activated under any fault condition. There shall also be an audible alarm silence button used to silence the audible alarm after it has been activated.
d. Surge Counter - The SPD shall be equipped with an LCD display that indicates to the user how many surges have occurred at the location. The surge counter shall trigger each time a surge event with a peak current magnitude of a minimum of 50 ± 20A occurs. A reset pushbutton shall also be standard, allowing the surge counter to be zeroed. The reset button shall contain a mechanism to prevent accidental resetting of the counter via a single, short-duration button press. In order to prevent accidental resetting, the surge counter reset button shall be depressed for a minimum of 2 seconds in order to clear the surge count total.

i. The ongoing surge count shall be stored in non-volatile memory. If power to the SPD is completely interrupted, the ongoing count indicated on the surge counter's display prior to the interruption shall be stored in non-volatile memory and displayed after power is restored. The surge counter's memory shall not require a backup battery in order to achieve this functionality.

6. Overcurrent Protection

a. The unit shall contain thermally protected MOVs. These thermally protected MOVs shall have a thermal protection element packaged together with the MOV in order to achieve overcurrent protection of the MOV. The thermal protection element shall disconnect the MOV(s) from the system in a fail-safe manner should a condition occur that would cause them to enter a thermal runaway condition.

7. Fully Integrated Component Design - All of the SPD's components and diagnostics shall be contained within one discrete assembly. SPDs or individual SPD modules that must be ganged together in order to achieve higher surge current ratings or other functionality shall not be accepted.

SECTION 26-43-00
SURGE PROTECTIVE DEVICE (SPD) CONT.

8. Safety Requirements

a. The SPD shall minimize potential arc flash hazards by containing no user serviceable / replaceable parts and shall be maintenance free. SPDs containing items such as replaceable modules, replaceable fuses, or replaceable batteries shall not be accepted. SPDs requiring any maintenance of any sort such as periodic tightening of connections shall not be accepted. SPDs requiring user intervention to test the unit via a diagnostic test kit or similar device shall not be accepted.

b. SPDs designed to interface with the electrical assembly via conductors shall require no user contact with the inside of the unit. Such units shall have any required conductors be factory installed.

c. Sidemount SPDs shall be factory sealed in order to prevent access to the inside of the unit. Sidemount SPDs shall have factory installed phase, neutral, ground and remote status contact conductors factory installed and shall have a pigtail of conductors protruding outside of the enclosure for field installation.

2.3 SYSTEM APPLICATION

A. The SPD applications covered under this section include distribution and branch panel locations, busway, motor control centers (MCC), switchgear, and switchboard assemblies. All SPDs shall be tested and demonstrate suitability for application within ANSI/IEEE C62.41 Category C, B, and A environments.

B. Surge Current Capacity - The minimum surge current capacity the device is capable of withstanding shall be as shown in the following table:

MINIMUM SURGE CURRENT CAPACITY BASED ON ANSI / IEEE C62.41 LOCATION CATERGORY			
CATEGORY	APPLICATION	PER PHASE	PER MODE
C	SERVICE ENTRANCE LOCATIONS (SWITCHBOARDS, SWITCHGEAR, MCC, MAIN ENTRANCE)	250 kA	125 kA
B	HIGH EXPOSURE ROOF TOP LOCATIONS (DISTRIBUTION PANELBOARDS.	160 kA	80 kA
A	BRANCH LOCATIONS (PANELBOARDS, MCCs, BUSWAY)	120 kA	60 kA

C. SPD Type - all SPDs installed on the line side of the service entrance disconnect shall be Type 1 SPDs. All SPDs installed on the load side of the service entrance disconnect shall be Type 1 or Type 2 SPDs.

2.4 Lighting and Distribution Panelboard Requirements

A. The SPD application covered under this section includes lighting and distribution panelboards. The SPD units shall be tested and demonstrate suitability for application within ANSI/IEEE C62.41 Category B environments.

1. The SPD shall not limit the use of through-feed lugs, sub-feed lugs, and sub-feed breaker options.
2. SPDs shall be installed immediately following the load side of the main breaker. SPDs installed in main lug only panelboards shall be installed immediately following the incoming main lugs.
3. The panelboard shall be capable of re-energizing upon removal of the SPD.
4. The SPD shall be interfaced to the panelboard via a direct bus bar connection. Alternately, an SPD connected to a 30A circuit breaker for disconnecting purposes may be installed using short lengths of conductors as long as the conductors originate integrally to the SPD. The SPD shall be located directly adjacent to the 30A circuit breaker.
5. The SPD shall be included and mounted within the panelboard by the manufacturer of the panelboard.
6. The SPD shall be of the same manufacturer as the panelboard.
7. The complete panelboard including the SPD shall be UL67 listed.

B. Sidemount Mounting Applications Installation (SPD mounted external to electrical assembly)
1. Lead length between the breaker and suppressor shall be kept as short as possible to ensure optimum performance. Any excess conductor length shall be trimmed in order to minimize let-through voltage. The installer shall comply with the manufacturer's recommended installation and wiring practices.

C. Switchgear, Switchboard, MCC and Busway Requirements

1. The SPD application covered under this section is for switchgear, switchboard, MCC, and busway locations. Service entrance located SPDs shall be tested and demonstrate suitability for application within ANSI/IEEE C62.41 Category C environments.
2. The SPD shall be of the same manufacturer as the switchgear, switchboard, MCC, and busway
3. The SPD shall be factory installed inside the switchgear, switchboard, MCC, and/or bus plug at the assembly point by the original equipment manufacturer
4. Locate the SPD on the load side of the main disconnect device, as close as possible to the phase conductors and the ground/neutral bar.
5. The SPD shall be connected through a disconnect (30A circuit breaker). The disconnect shall be located in immediate proximity to the SPD. Connection shall be made via bus, conductors, or other connections originating in the SPD and shall be kept as short as possible.
6. The SPD shall be integral to switchgear, switchboard, MCC, and/or bus plug as a factory standardized design.
7. All monitoring and diagnostic features shall be visible from the front of the equipment.

2.5 EnclosureS

A. All enclosed equipment shall have NEMA 1 general purpose enclosures, unless otherwise noted. Provide enclosures suitable for locations as indicated on the drawings and as described below:

1. NEMA 1 - Constructed of a polymer (units integrated within electrical assemblies) or steel (sidemount units only), intended for indoor use to provide a degree of protection to personal access to hazardous parts and provide a degree of protection against the ingress of solid foreign objects (falling dirt).
2. NEMA 4 - Constructed of steel intended for either indoor or outdoor use to provide a degree of protection against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (dirt and windblown dust); to provide a degree of protection with respect to the harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); and that will be undamaged by the external formation of ice on the enclosure. (sidemount units only)
3. NEMA 4X - Constructed of stainless steel providing the same level of protection as the NEMA 4 enclosure with the addition of corrosion protection. (sidemount units only)

PART 3 - EXECUTION

3.1 EXAMINATION

3.2 FACTORY TESTING

A. Standard factory tests shall be performed on the equipment under this section. All tests shall be in accordance with the latest version of NEMA and UL standards.

3.3 INSTALLATION

A. The Contractor shall install all equipment per the manufacturer's recommendations and the contract drawings.

3.4 WARRANTY

A. The manufacturer shall provide a full ten (10) year warranty from the date of shipment against any SPD part failure when installed in compliance with manufacturer's written instructions and any applicable national or local code.

END OF SECTION

SECTION 26-51-00
LIGHTING

SECTION 265100 - LIGHTING

PART 1 - GENERAL

Provide all lighting fixtures (luminaires), lamps, end caps, connectors, fittings, structural support members, supports, brackets, etc., for a complete and operable lighting system.

PART 2 - PRODUCTS

2.1 LUMINAIRES

A. Luminaires are shown in the Luminaire Schedule on the drawings to establish a standard of quality. Manufacturer's names and model numbers shall not be interpreted as a proprietary specification. Notify the engineer at least two weeks prior to bid if an equivalent for a fixture listed in the schedule is not readily available.

B. Prior to submitting electrical equipment brochures for review and approval, coordinate with the General Contractor and verify that the fixtures are appropriate for the ceiling types in which they are shown to be installed. Also verify that ballast voltage on the submittals is appropriate for the electrical system on which the fixtures are to be installed (regardless of voltage listed in the part number in the Fixture Schedule). Submit with equipment brochures a certificate stating that these items of coordination have been completed.

2.2 LED

A. LED fixtures shall be LM79 and LM80 tested. Color temperature shall be as specified on the drawings.

B. Lumen outputs listed on the drawings are minimum requirements.

C. Fixtures shall have a minimum 80CRI.

2.3 BATTERIES

A. Emergency Batteries: Emergency batteries in fixtures shall consist of an automatic power failure device, a test switch, and a pilot light that is visible from outside of the fixture. They shall contain a fully automatic solid state charger in a self-contained power pack. The fixture shall be factory wired in a manner that will allow the emergency lamps to be switched while still maintaining charging power to the battery. Wiring Diagrams shall be furnished with the fixture showing switching connections. The battery shall be of the sealed electrolyte type with the capacity to provide power to the lamps provided for a minimum of 90 minutes.

The battery shall be able to operate unattended with no maintenance for a period of no less than five years. Emergency batteries shall be fully compatible with solid state ballasts. Battery packs shall be mounted inside the fixture unless remotely mounted ballasts are shown on the drawings.

2.4 SUPPORTS

A. Provide all structural members necessary to support fixtures in locations shown on the contract drawings. Submit mounting and support details to the Architect or Engineer for approval with the project shop drawings. Notify the General Contractor prior to bid of any structural work that will be required to support the fixtures.

B. Provide hangers, cords, stems, etc., where required. Coordinate with the Architect or Engineer for proper stem lengths prior to ordering fixtures.

C. Support the ceiling grid at all four corners of recessed light fixtures.

D. Provide clips for fixtures installed in lay-in ceilings. Clips shall be equal to Erico Caddy clips # 515 or #515A.

PART 3 - EXECUTION

3.1 Raceways for lighting systems in accessible ceilings shall be run to junction boxes mounted in locations that do not interfere with the ceiling installation, the luminaire installation, or other building systems. Provide final connections to fixtures using conductors in flexible conduit. Flexible conduit whips shall not exceed six feet in length.

3.2 All recessed fixtures shall be mounted with their trims flush against the ceiling.

3.3 Comply completely with all manufacturers' installation instructions.

3.4 LED fixtures shall be warranted for 5 years after beneficial occupancy.

END OF SECTION 265100

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpoinengineers.com
601.261.2609

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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CHRISTOPHER GREEN LICENSED PROFESSIONAL ENGINEER 16778 STATE OF MISSISSIPPI

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SPECS

E008

SPECIFICATIONS

SECTION 27-30-00
TELEPHONE AND DATA SYSTEMS

PART 1 - GENERAL

1.1 Provide complete telephone and data systems in accordance with this specification and the contract drawings. All systems shall be furnished and installed to meet or exceed EIA/TIA Category 6 Standards.

1.2 All new wiring on this project shall conform to the EIA TIA 568A T568A scheme.

1.3 Prior to ordering equipment, provide six sets of manufacturer's cut sheets to the Architect or Engineer for the equipment to be installed. Also submit shop drawings showing the floor plan with all wiring tag identification and conduit and cable routing. Do not order any equipment without receiving submittals and shop drawings that have been reviewed and approved by the Engineer.

1.4 Contractors furnishing and installing telephone and data system components shall be regularly involved in furnishing and installing systems of the type specified. They shall have installed five systems similar in size and scope within the past six months. The Telephone and Data System Contractor shall pull the cable as well as install all jacks and make all other system terminations.

PART 2 - PRODUCTS

2.1 Outlet Boxes: Provide outlet boxes in accordance with Specification 26 05 33.

2.2 Plaster Rings: Plaster rings shall be furnished to provide single-gang openings in outlet boxes unless otherwise noted.

2.3 Raceways: Provide raceways in accordance with Specification 26 05 33.

2.4 Jacks: Provide outlet boxes with a strap containing the number of Jacks indicated on the drawings. Outlet jacks shall be 8-position, 8-conductor, RJ-45 jacks that are multivendor supportive accepting most phone and data plugs. Jacks shall have gold-plated (50 microinches minimum) contacts with 110 connections on the back. The jacks shall snap in the straps. The straps shall be colored to match the switches and receptacle color selected by the Architect. The straps shall be covered by a stainless steel wallplate identical to those of the receptacles and switches. Telephone outlet jacks shall be yellow; data jacks shall be blue.

2.5 Fiber Optic Cabling: Cable shall be a 12 strand 62.5/125 micron multimode. Bandwidth shall be 200MHz @ 850nm.

2.6 Cable: All cable shall be Category 6 rated and shall conform to or exceed the EIA/TIA 578 Commercial Building Wiring Standard, Horizontal Cable Section and the EIA/TIA Technical Systems Bulletin 36 for Unshielded Twisted Pair Cables. Other standards supported shall include IEEE 802.3, Ibase5, 10BASE-T; IEEE 802.5, 4 Mbps, 16 Mbps (328 ft/100m), 104 Workstations, proposed ANSI X3T9.5 TP-PMD requirements for UTP at 100 Mbps, and 155 MB ATM. Cabling shall be UL listed. Telephone cables shall be yellow; data cables shall be blue. All Cable shall be plenum rated.

2.7 Telephone and Data Backboard (TDBB): Wall mount a ¾" x 4' x 4' sheet of plywood, primed and painted with two coats of fire retardant paint of the color and finish selected by the Architect. Provide a ¼" x 4" x 17.75" copper ground block (Erico Eritech TMGB-A18L23PT or approved equal) on the wall, bond a #6 AWG copper conductor to the ground block with a two hole compression lug and run the #6 AWG ground wire to the electrical power system ground. Bond the #6 AWG ground wire to the power system electrode using an exothermic weld.

2.8 Punchdown Blocks: Telephone cables shall terminate at the Telephone & Data Backboard on Punchdown Blocks. Telephone Cabling shall be terminated on 110 punchdown blocks maintaining the Category 6 rating. Furnish punchdown blocks for all telephone outlets in this contract plus 25% additional outlets.

2.9 Patch Panels: Data Cables shall terminate at the Telephone & Data Backboard in patch panels. Provide a patch panel (or panels) at each TDBB to accommodate all cabling plus 15% spare capacity. Provide crossconnecting cables as required to interconnect the patch panels providing the Owner a single connection point for a connection to a server.

2.10 Racks: Provide a 19" rack for mounting of the patch panels. The rack shall be mounted on the TDBB.

PART 3 - EXECUTION

3.1 Provide a 1" conduit extending from each outlet box to a point above the nearest accessible ceiling. Terminate the conduit with a protective bushing.

3.2 Route conductors from the outlet box, above the lay-in ceilings, and to the telephone and data backboard. Group, tie-wrap, and support the conductors from the structural ceiling above the lay-in ceiling. Provide conduit for sleeves where cables pass through areas with hard ceilings.

3.3 Provide a minimum of two data cables to each data outlet or combination telephone/data outlet. Provide one cable to each telephone outlet.

3.4 Mount plywood backboard securely to wall framing members. The bottom of the backboard shall be 6" above the finished floor.

3.5 Provide a #6 copper ground wire in 1" PVC conduit from the Telephone and Data Backboard to the Building Power System Ground.

3.6 Service Conduits: Provide two 4" PVC conduits with long radius elbows from the Telephone and Data Backboard to a pint 5' outside of the building. These conduits shall be for future use by the Owner. Conduits bends shall contain radii that are no less than 10 times the conduit diameter. Furnish conduits with pullstrings. Stub conduits up 4" above the floor at the Telephone and Data Backboard and cover with plastic caps. Do not glue the caps on the conduits. Seal conduits below grade to prohibit the entrance, of dirt, water, and gases. Service conduits shall be buried 24" to 36" below grade. Mark the end of the conduits by placing a vertical stick of conduit from the end of the conduit vertically to a point at least 12" above grade. Provide physical protection as well as warning tape attached to stakes around the marker.

3.7 Fiber Optic: Terminate all fiber optic strands at the rack in a fiber optic termination box.

3.8 Equip all spare conduits with a pullwire or string capable of withstanding 200 pounds of pulling tension.

3.9 Uniquely identify and label all cables at each end using EIA/TIA Standards. Provide engraved or professionally stenciled label markings on the faceplate beside each jack.

3.10 Test each cable for opens, shorts, correct pairs, crossed wiring, and proper termination using a CT200 tester from Atcom Services, Inc. or approved equal. Replace any cable that is unable to pass the tests. Provide a written log of the test results of each cable to the Engineer at the prefinal inspection. Demonstrate testing of any cables selected by the Engineer.

END OF SECTION

SECTION 28-31-00
FIRE ALARM SYSTEM

PART 1 - GENERAL

1.1 GENERAL

A. Furnish and install a complete and operable fire alarm system in accordance with the Contract drawings and all federal, state, and local codes. Equipment on the drawings represents the absolute minimum required for the project. Include costs for all other required devices and equipment required for a complete and operable code compliant system. Notify the engineer in writing of any devices required by code, but not shown, at least ten days prior to bid.

B. Comply completely with the latest edition of all applicable federal, state, and local codes including, but not limited to the following:
1) National Electrical Code (NFPA 70)
2) Life Safety Code (NFPA 101)
3) National Fire Alarm Code (NFPA 72)
4) The International Building Code
5) ANSI/ASME A17.1, Safety Code for Elevators and Escalators

1.2 SCOPE OF WORK

A. Provide all enclosures, hardware, software, devices, and all other components, material, and labor required to install, configure, and test the entire system to the satisfaction of the Engineer and all authorities.

B. All components of the system shall be manufactured by the same company. The system and its components shall be approved by UL and Factory Mutual.

C. All system components shall be installed by a franchised distributor of the fire alarm system having a repair and service department on call 24 hours a day, seven days a week. The repair and service department shall be located within 150 miles of the project.

D. Submit complete shop drawings showing all devices including mounting locations and heights and terminal-to-terminal connections. **Employ an independent third party testing agency that will be involved in certification of the system to review the shop drawings to ensure compliance with the contract documents and all applicable codes.**

PART 2 - PRODUCTS

2.1 Provide an intelligent, addressable fire alarm control panel complete with all equipment necessary to monitor and control the devices shown. The system shall sound a non-coded general alarm. Upon an alarm condition, the fire alarm control panel shall automatically report the alarm condition to a monitoring agency. Provide all telephone connections, circuitry, and conduit to perform this functionality back to the telephone backboard. [The fire alarm system shall be capable of producing voice announcements through the system speakers].

2.2 Provide a NiCad battery sized to operate the control panel without normal power for 24 hours, and then to alarm the panel continuously for at least five minutes. Submit battery sizing calculations with the manufacturer's cut sheets and shop drawings.

2.3 All devices shall be addressable and shall be electrically supervised.

2.4 Smoke detectors shall be of the photoelectric type.

2.5 Duct detectors shall be of the air sampling type. Furnish complete with sampling tubes and duct housings.

2.6 Smoke detectors mounted under raised computer floors shall be of the photoelectric type. They shall be UL listed for installation in plenums.

2.7 Pull stations shall be of metallic construction. They shall be furnished with lexan shields and warning horns.

2.8 Horns shall be rated a minimum of 85 dB at 10'.

2.9 Speakers shall be square. They shall be wall-mounted to a 4" square box. They shall produce a minimum sound level of 85dB at 10'. They shall have adjustable taps for volume level adjustment.

2.10 Strobes shall have a nominal rating of at least 75 Cd.

2.11 Combination horn-strobe units or speaker-strobe units shall meet the specified requirements of the individual horns, strobes, and speakers.

2.12 Monitor all sprinkler system flow switches at the facility. Provide an alarm upon flow indication.

2.13 Monitor all sprinkler system tamper and supervisory switches at the facility. Provide a trouble signal upon tamper indication.

2.14 Provide duct detectors in the return duct of all air units. If a fresh air intake duct is installed, all duct detectors shall be mounted upstream of the intake duct. For air units with flow ratings greater than 15,000 CFM, provide duct detectors in both the return and supply ducts.

2.15 Provide all necessary relays and circuitry, and shut down all air units upon an alarm condition of the fire alarm system.

2.16 Provide all necessary equipment and circuitry for control of the elevator in accordance with ANSI/ASME A17.1, Safety Code for Elevators and Escalators.

2.17 Provide all necessary equipment and circuitry to automatically release the magnetic door locks upon an alarm of the Fire Alarm System.

2.18 Conductors shall be #14 AWG copper rated THHN/THWN. Provide larger conductors where required to compensate for voltage drop.

PART 3 - EXECUTION

3.1 All components and circuitry shall be assembled and installed per the requirements of all applicable codes and the manufacturer's recommendations.

3.2 All devices shall be mounted with their boxes flush in the walls.

3.3 Smoke detectors shall be mounted at least 36" away from supply vents.

3.4 All outlet boxes, junction boxes, and cover plates shall be painted red.

3.5 All circuitry shall be in concealed conduit sized per the NEC, but no less than ½" EMT. All fire alarm conduits shall be painted red.

3.6 The Fire Alarm System Contractor shall employ an independent third party testing agency to test and certify all system components, including each smoke detector, duct detector, and pull station prior to the pre-final inspection. All systems shall be completely operable prior to the request for a pre-final site observation. The system shall be tested in the presence of the Owner, Architect, and Engineer at the prefinal site observation.

3.7 Provide a one-year warranty for the system and all components. The warranty shall begin at the date of final acceptance of the building. During the warranty period, the system shall be repaired or replaced as necessary at no cost to the Owner. During the warranty period, a technician shall be on the job site within twenty-four hours of a problem report from the Owner.

END OF SECTION

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergmis.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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CHRISTOPHER GREEN
LICENSED PROFESSIONAL ENGINEER
16778
STATE OF MISSISSIPPI

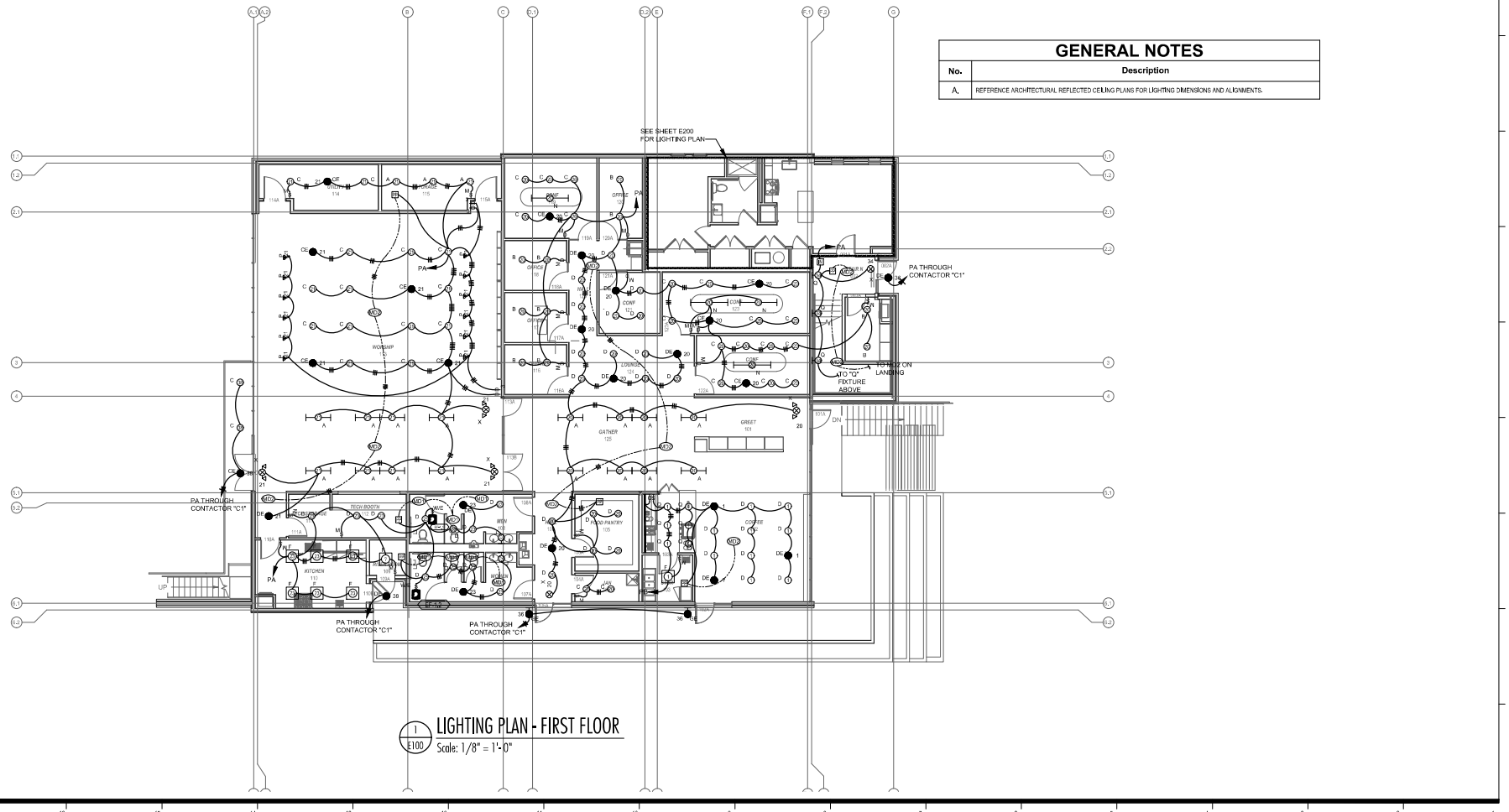
THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL SPECS

E009

GENERAL NOTES

No.	Description
A.	REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING DIMENSIONS AND ALIGNMENTS.



1 E100 LIGHTING PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON CROSS
jgross@pkgmep.com
601.982.2992
STRUCTURAL
VINE GODFREY
vaughn@vaughnstructural.com
601.940.4990
CIVIL ENGINEERING
SHELBY MURRAY
shelby@lokeconsulting.com
601.261.2222
ELECTRICAL
CHRIS GREEN
cgreen@mgmelectrical.com
601.605.4828
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@mail.wsfla.com
601.264.1556
DEVELOPER
WALKER THRASH
walker@smith-allcorn.com
601.914.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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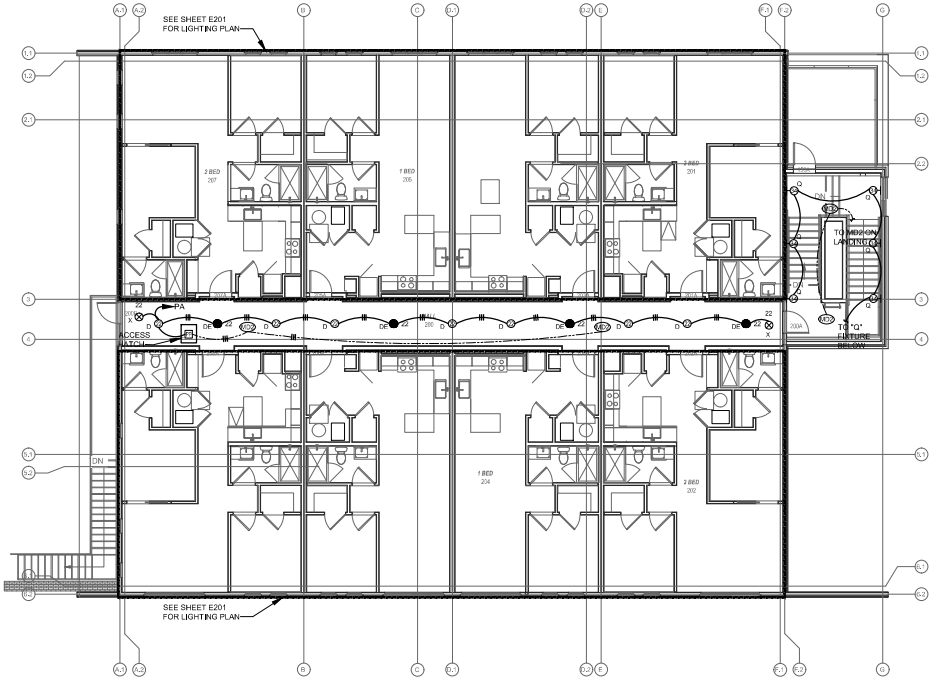
CHRISTOPHER LEE GREEN — 15778 — REGISTERED — STATE OF MISSISSIPPI — PROFESSIONAL ENGINEER

THE POWER SOURCE PLAN
305 Highway 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
LIGHTING PLAN

E100



1 / E101 LIGHTING PLAN - SECOND FLOOR
Scale: 1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@mpsu.com
601.362.2592
STRUCTURAL
MIKE GODFREY
mcgodfrey@comcastnet
601.240.2050
CIVIL ENGINEERING
SHELBY MURRAY
shelby@kleagoenergieenterprise.com
601.261.2020
ELECTRICAL
CHRIS GREEN
cgreen@mapsinternational
601.268.4828
LANDSCAPE
AUSTIN LOVITT
austin@mcgiwellsoffer.com
601.240.1560
DEVELOPER
WALKER THRASH
walker@wmtrollcu.com
601.310.4482

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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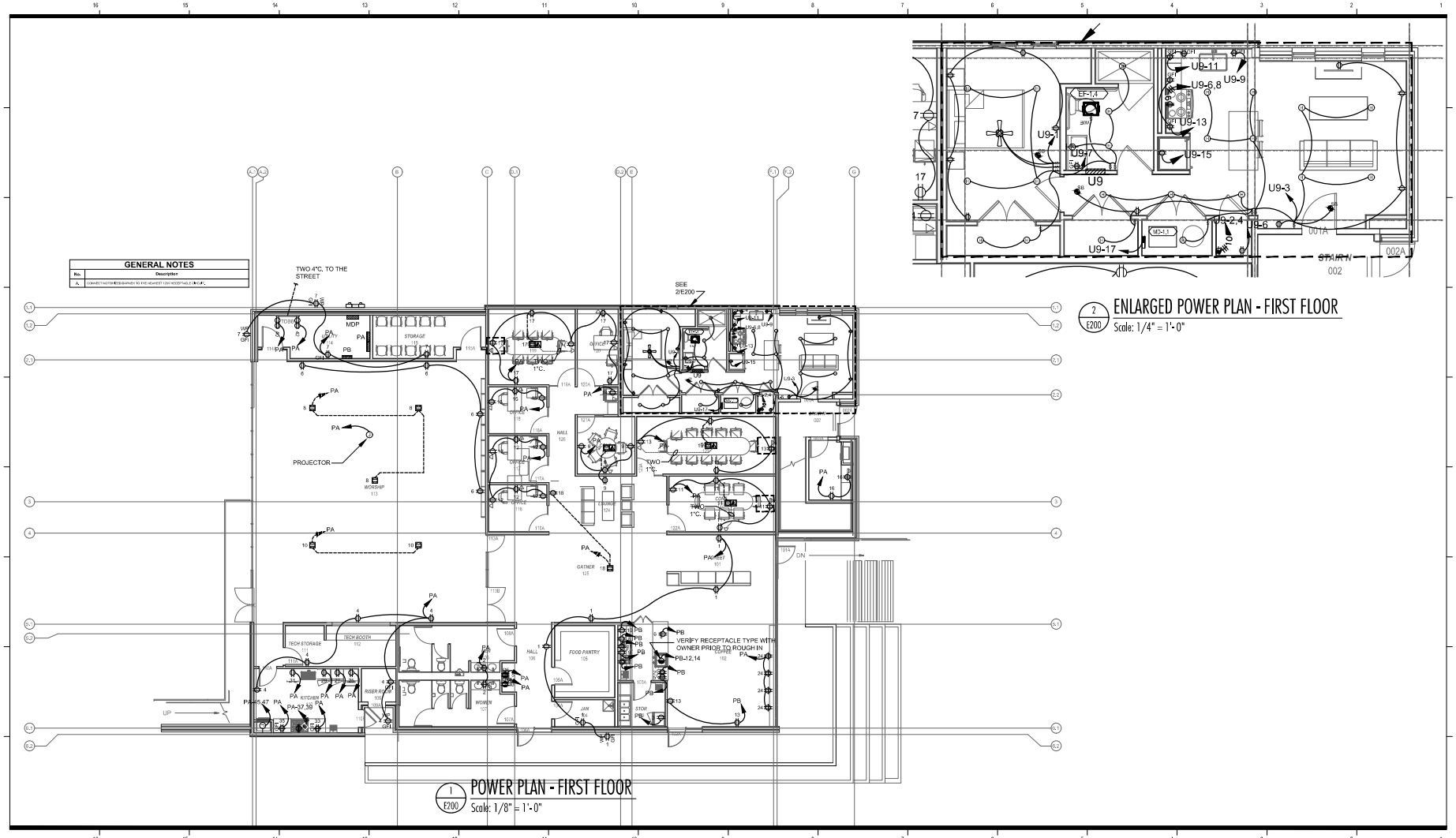
CHRISTOPHER GREEN
STATE OF MISSISSIPPI
16778

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
LIGHTING PLAN

E101



1 E200 POWER PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"

2 E200 ENLARGED POWER PLAN - FIRST FLOOR
Scale: 1/4" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@cmhg.com
601.202.2052
STRUCTURAL
MIKE GODFREY
601.914.1455
CIVIL ENGINEERING
SHELBY MURRAY
601.271.2929
ELECTRICAL
CHRIS GREEN
cgreen@hpcomsources
601.270.4407
LANDSCAPE
AUSTIN LOATT
601.345.7505
DEVELOPER
WALKER THRASH
601.310.2412

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS ZIp 39401

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CHRISTOPHER LAUREN WHITE
LICENSED
11678
ARCHITECT
STATE OF MISSISSIPPI

THE POWER SOURCE INC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
POWER PLAN

E200

UNIT PLAN NOTES

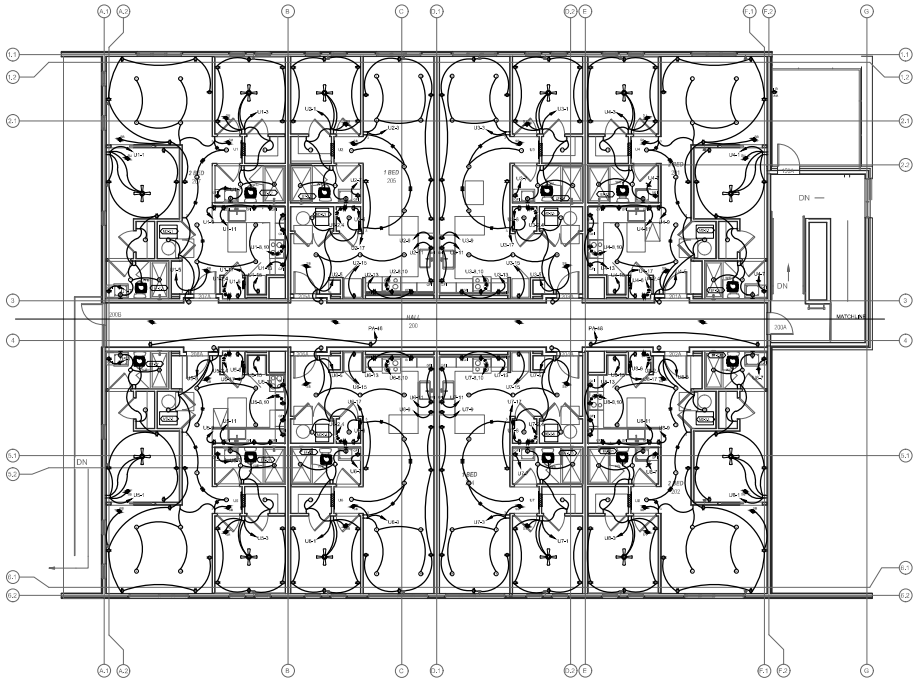
Mark	Description
A.	MOUNT RECEPTACLE FOR DISHWASHER IN ACCORDANCE WITH NEC 422.16(B)(2).
B.	MOUNT RECEPTACLE FOR RANGE IN ACCORDANCE WITH NEC 422.33.
C.	ALL 15 & 20 AMP, 120V RECEPTACLES SHALL BE TAMPER RESISTANT TYPE, EXCEPT REFRIGERATOR, WASHER, AND DISHWASHER.
D.	CONTRACTOR SHALL FURNISH AND INSTALL SWITCH FOR VENT AND LIGHT TO THE FACE OF LOWER CABINET IN ALL HANDICAP ACCESSIBLE UNITS.
E.	EACH DATA/TV OUTLET SHALL HAVE CABLE HOMERUN TO UNIT NETWORK MEDIA ENCLOSURE. COORDINATE CABLE AND OUTLET TYPE WITH OWNER. (TYPICAL OF ALL)
F.	REFER TO MECHANICAL PLANS FOR MECHANICAL EQUIPMENT LOCATIONS.
G.	CENTER ALL CEILING FANS IN ROOMS. ALL CEILING FAN LIGHT KITS AND FAN MOTORS SHALL BE CONTROLLED SEPARATELY. (TYPICAL OF ALL)
H.	RECEPTACLES SERVING LAUNDRY, KITCHEN, & BATHROOM COUNTERS/BASINS SHALL BE GFCI PROTECTED. (NEC 210.8)
I.	ALL CIRCUITS SERVING KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATIONAL ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI PROTECTED. (NEC 210.12)

PANEL NOTES

No.	Description
A.	THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE MCA (WIRE SIZE), MOCP (CIRCUIT BREAKER SIZE), AND EXACT CONNECTION TYPES FOR THE MECHANICAL/PLUMBING EQUIPMENT WITH THE MECHANICAL/PLUMBING SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.

OWNER/GENERAL CONTRACTOR NOTES

No.	Description
A.	ELECTRIC METER & CATV/TELEPHONE ENTRY SHALL BE PLACED ON SAME SIDE OF BUILDING. COORDINATE WITH UTILITY PROVIDERS.
B.	REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS, DOOR SWINGS, ETC.
C.	REFER TO APPROVED JOB-SPECIFIC MILLWORK DRAWINGS FOR SPECIFIC LAYOUTS AT KITCHEN & BATHS.



1 / E201 OVERALL POWER PLAN - SECOND FLOOR
Scale: 1/8" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@cpmg.com
(913)262-2552
STRUCTURAL
MIKE GODFREY
(913)451-1555
CIVIL ENGINEERING
SHELBY MURRAY
(913)271-2929
ELECTRICAL
CHRIS GREEN
(913)707-4407
LANDSCAPE
AUSTIN LOATT
(913)345-1505
DEVELOPER
WALKER THRASH
(678)910-4432

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS ZIp 39401

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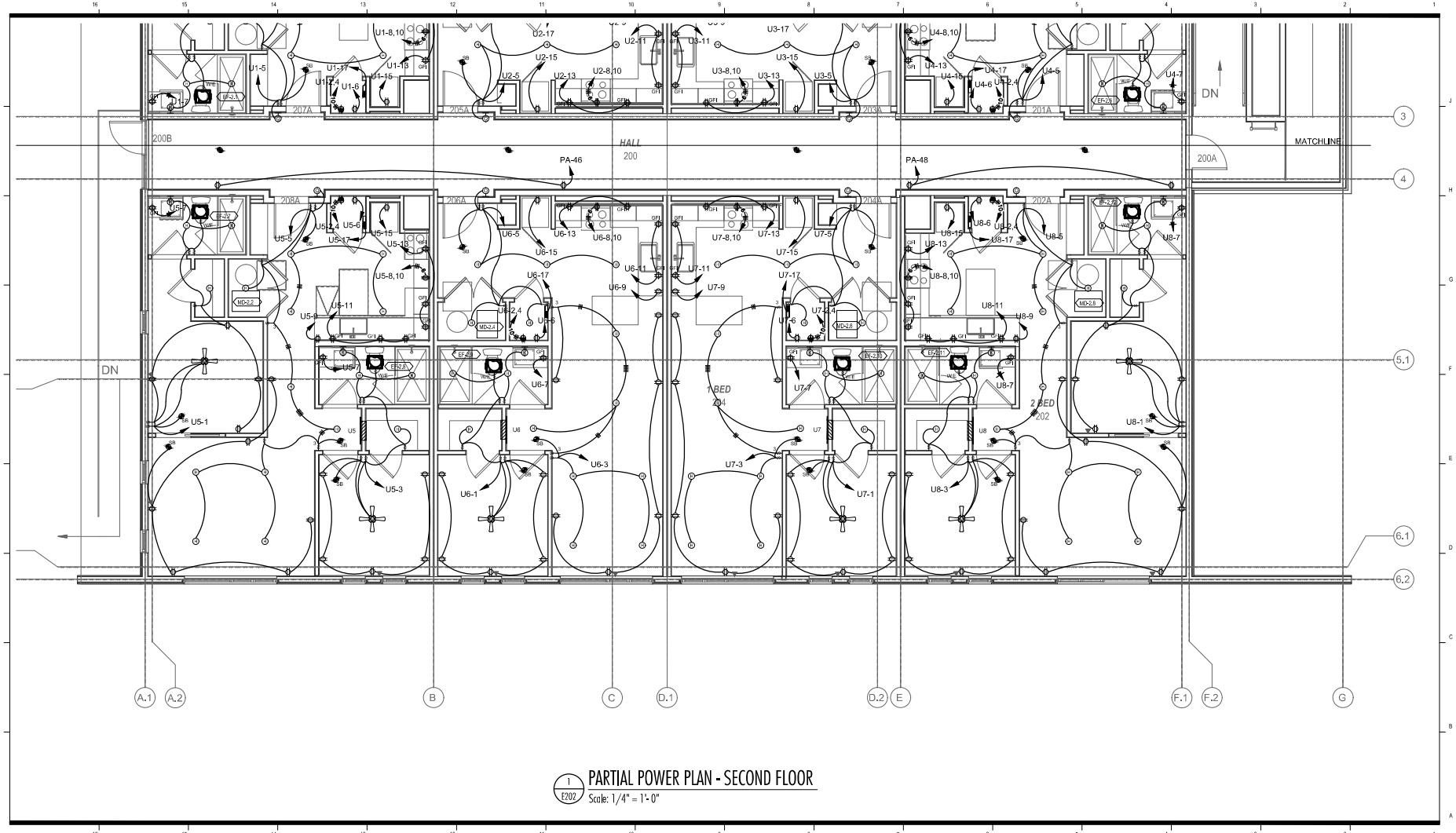
CHRISTOPHER ALLEN GREEN
LICENSED
11th Jan
16778
STATE OF MISSISSIPPI

THE POWER SOURCE INC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4920
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL POWER PLAN

E201



1 / E202 PARTIAL POWER PLAN - SECOND FLOOR

Scale: 1/4" = 1'- 0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@ecmg.com
601.262.2952

STRUCTURAL
MIKE GODFREY
mikeg@kemstudio.com
601.245.1855

CIVIL ENGINEERING
SHELBY MURRAY
shelby@kerpoweingineers.com
601.205.2853

ELECTRICAL
CHRIS GREEN
cgreen@thepowersourcemus
601.205.4420

LANDSCAPE
AUSTIN LOATT
austin.loatt@landscapetraffic.com
601.245.1585

DEVELOPER
WALKER THRASH
walker@wmtrail.com
601.202.4432

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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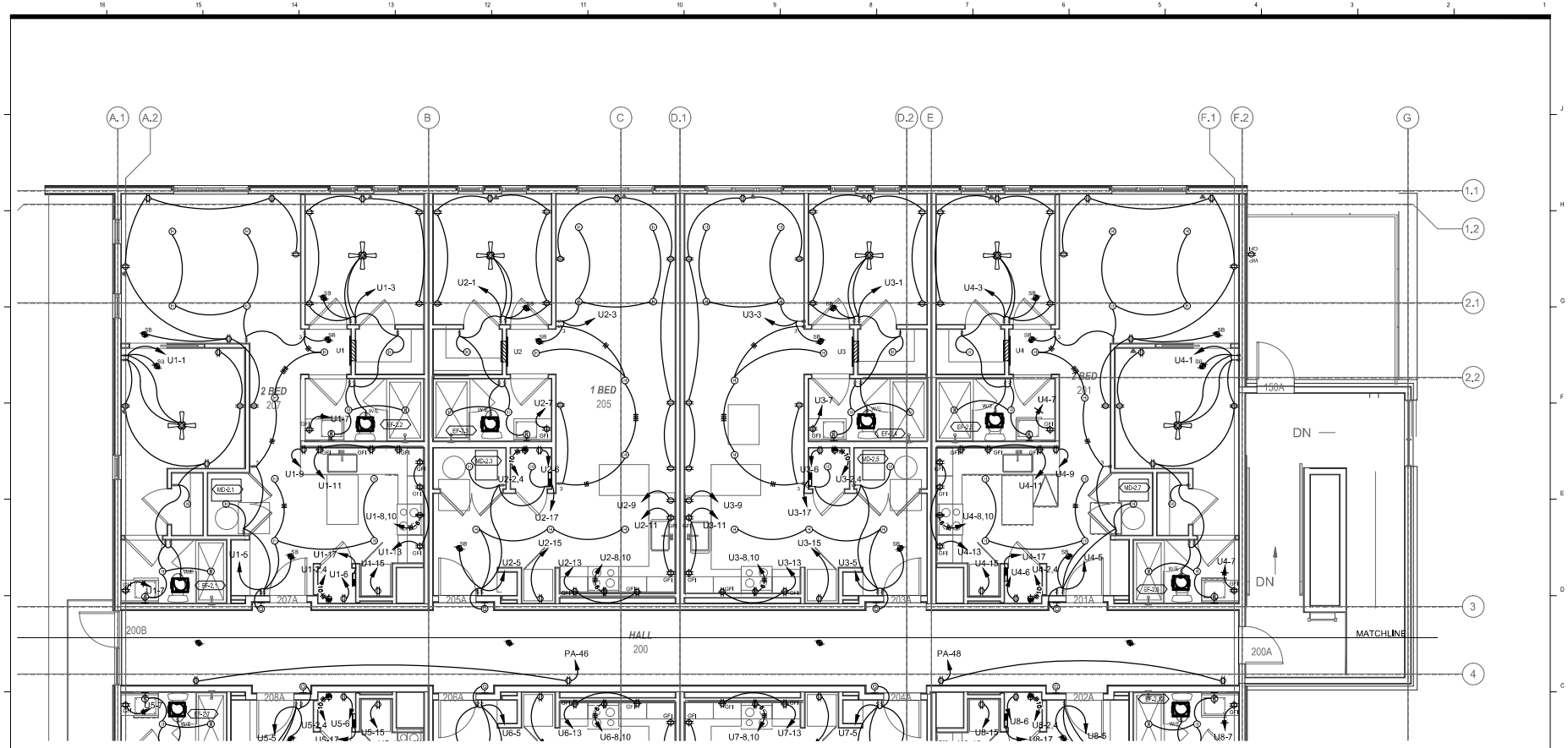
THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL POWER PLAN

E202



1 / E203 PARTIAL POWER PLAN - SECOND FLOOR

Scale: 1/4" = 1'- 0"

KEM STUDIO

1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808

kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@kcmg.com
631.262.3952

STRUCTURAL
MIKE GODFREY
mikeconstruct@cemstruct.net
631.241.1855

CIVIL ENGINEERING
SHELBY MURRAY
shelby@kcmgcivilengineers.com
631.261.2853

ELECTRICAL
CHRIS GREEN
cgreen@hepworksconsulus
631.270.4420

LANDSCAPE
AUSTIN LOMIT
austin.lomit@landscapetraffic.com
631.245.1585

DEVELOPER
WALKER THRASH
walker@wmtrash.com
601.392.4432

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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STATE OF MISSISSIPPI
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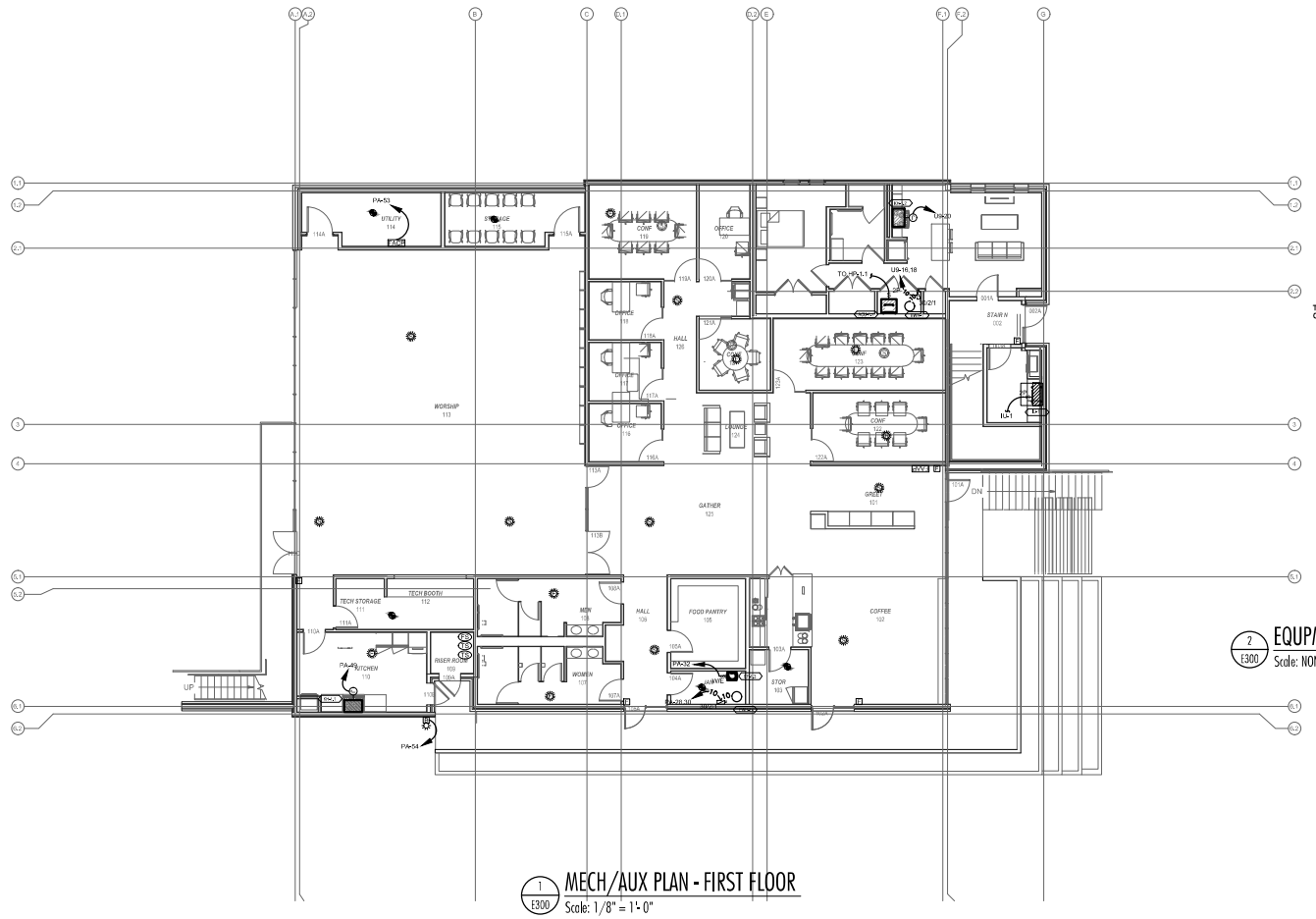
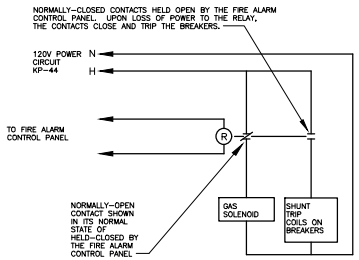
THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
POWER PLAN

E203



1 E300 MECH/AUX PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"



NOTE:

PROVIDE A SUPERVISED CIRCUIT FROM THE FIRE ALARM PANEL TO MONITOR THE VENT HOOD FIRE SUPPRESSION SYSTEM. UPON AN ALARM CONDITION OF THE FIRE ALARM SYSTEM, THE FIRE ALARM SYSTEM SHALL CAUSE THE SHUNT TRIP BREAKERS TO TRIP ALL ELECTRICAL APPLIANCES UNDER THE HOOD, AND ON THE SUPPLY AND EXHAUST FANS IN THE HOOD. SOME HOODS ARE UL LISTED TO OPERATE WITH THE EXHAUST FAN RUNNING IN THE ALARM CONDITION. VERIFY THAT THIS IS NOT THE CASE BEFORE CIRCUITING THIS UNIT TO SHUNT TRIP THE EXHAUST FAN BREAKER. THE FIRE ALARM PANEL SHALL ALSO PROVIDE POWER TO A RELAY THAT IN TURN HOLDS THE GAS SOLENOID VALVE, FURNISHED BY THE MECHANICAL CONTRACTOR, OPEN UNDER NORMAL CONDITIONS. AN ALARM CONDITION OF THE FIRE ALARM SYSTEM SHALL RELEASE THE POWER TO THIS SOLENOID CAUSING THE GAS TO THE EQUIPMENT UNDER THE VENT HOOD TO SHUT OFF. SEE DETAIL ON THIS SHEET.

2 E300 EQUPMENT SHUTDOWN DETAIL FOR FIRE SUPPRESION SYSTEM
Scale: NONE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@kpmg.com
601.202.2052
STRUCTURAL
MIKE GUERREY
mguerrerymeek@comcast.net
601.941.4855
CIVIL ENGINEERING
SHELBY MURRAY
shelby@burgoneengineers.com
601.271.2929
ELECTRICAL
CHRIS GREEN
cgreen@hpcengineering.us
601.270.4407
LANDSCAPE
AUSTIN LOATT
austin.loatt@rsandfamilies.com
601.345.7505
DEVELOPER
WALKER THRASH
walker@wmhall.com
678.910.4412

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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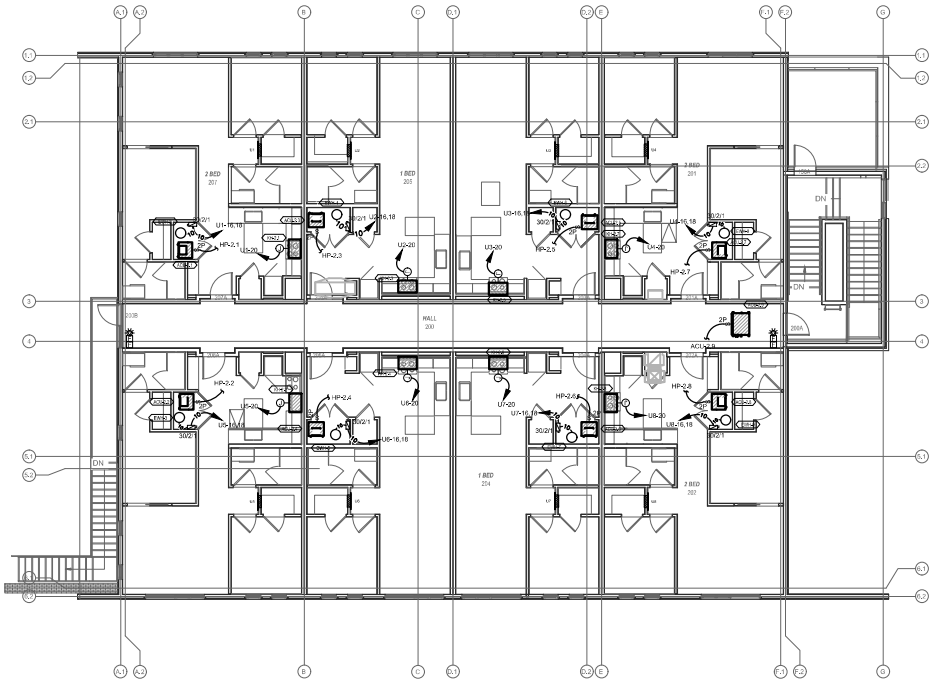
CHRISTOPHER ALLEN GREEN
License No. 16778
STATE OF MISSISSIPPI

THE POWER SOURCE INC.
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
MECHANICAL PLAN

E300



1 / E301 MECH/AUX PLAN - SECOND FLOOR
Scale: 1/8" = 1'- 0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@ecms.com
601.262.0952

STRUCTURAL
BRIG GODFREY
bgodfrey@kemstudio.net
601.241.1855

CIVIL ENGINEERING
SHELBY MURRAY
shelby@kerpontengineers.com
601.261.2859

ELECTRICAL
CHRIS GREEN
cgreen@thepowersourceus
601.270.4820

LANDSCAPE
AUSTIN LOMITT
austin.lomitt@landscapetrafic.com
601.245.1585

DEVELOPER
WALKER THRASH
walker@wcthrash.com
601.270.4432

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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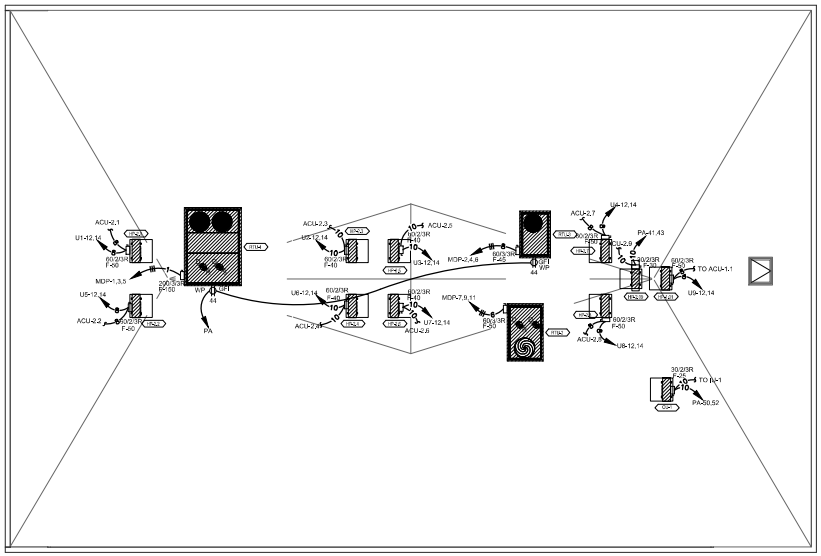
THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
MECHANICAL PLAN

E301



1
E302
MECH/AUX PLAN - ROOF PLAN
Scale: 1/8" = 1'- 0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgross@kcmu.com
601.262.2652

STRUCTURAL
MIKE GODFREY
mikeconstruct@comcast.net
601.241.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@kaycontrolgroup.com
601.261.2659

ELECTRICAL
CHRIS GREEN
cgreen@hepowersources
601.270.4820

LANDSCAPE
AUSTIN LOMITT
austin.lomitt@ms-ecotrafic.com
601.245.1585

DEVELOPER
WALKER TRASH
walker@wmtrash.com
601.270.2432

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS Zip 39401

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CHRISTOPHER GREEN
16778
STATE OF MISSISSIPPI
1/16/2026

THE POWER SOURCE PLLC
305 HIGHWAY 51
RIDGELAND, MS 39157
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 24153

ELECTRICAL
MECHANICAL PLAN

E302

PLUMBING SHEET INDEX

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CODE REVIEW

APPLICABLE OR LOCAL ADOPTED CODES (BASIS OF DESIGN)

CODES REQUIREMENTS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL PLUMBING CODE

PLUMBING LEGEND

PIPING

Symbol	Description
— — —	DOMESTIC COLD WATER PIPING
— - - —	DOMESTIC HOT WATER PIPING
—F—	FIRE PROTECTION PIPING
—G—	GAS PIPING
——	SANITARY WASTE PIPING
—GW—	GREASE WASTE PIPING
- - - - -	PLUMBING VENT PIPING
—D—	DRAIN PIPING
—CD—	GRAVITY CONDENSATE DRAIN PIPING
—SD—	STORM DRAIN PIPING
—2SD—	SECONDARY STORM DRAIN PIPING

PIPING / ACCESSORIES

Symbol	Description
	BELOW GRADE SHUT-OFF VALVE
	UNION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	BALL VALVE
	CHECK VALVE
	THERMOMETER
	RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
"A"	MECHANICAL SHOCK ARRESTOR; LETTER INDICATES PDI SIZE
	FIRESTOPPING
	PIPE SLEEVE
	PIPE CAP
	PIPE BLIND FLANGE
	BALL VALVE WITH HOSE THREAD CONNECTION
	GAS BALL SHUT-OFF VALVE
	EMERGENCY GAS SOLENOID VALVE

MISCELLANEOUS

Symbol	Description
	FLOOR DRAIN
	FREEZE PROOF / RESISTANT HOSE BIBB
WCO	WALL CLEANOUT
CO	CLEANOUT
FFCO	IN-LINE FLUSH FLOOR CLEANOUT
FFCO	FINISH FLOOR CLEANOUT
	2 WAY FLUSH GRADE CLEANOUT
	ROOF DRAIN
	ICE MAKER BOX
	WASHING MACHINE BOX
	NEW CONNECTION TO EXISTING PIPING, DUCTWORK AND/OR EQUIPMENT

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ASME	AMERICAN SOCIETY OF MECH ENGINEERS
BTU	BRITISH THERMAL UNIT
CO	CLEAN OUT
COND.	CONDENSATE
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
ELECT	ELECTRICAL
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FD	FLOOR DRAIN
FFCO	FINISH FLOOR CLEANOUT
FFE	FINISH FLOOR ELEVATION
FGCO	FLUSH GRADE CLEANOUT
FHB	FREEZE PROOF / RESISTANT HOSE BIBB
FLR	FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HR	HOUR
HW	HOT WATER
ID	INSIDE DIMENSION
IMB	ICE MAKER BOX
KW	KILOWATT
L	LAVATORY
LBS	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MV	MIXING VALVE
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
OD	OVERFLOW DRAIN
P	PUMP
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RPM	REVOLUTIONS PER MINUTE
RD	ROOF DRAIN
RP	RECIRC PUMP
S	SINK
SS	SANITARY SINK (MOP SINK)
SAN	SANITARY
SP	STATIC PRESSURE
SF	SQUARE FEET
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF
W	SANITARY WASTE
W/	WITH
WC	WATER CLOSET
WCVB	WATER CLOSET VALVE BOX
WCO	WALL CLEANOUT

PLUMBING GENERAL NOTES

1. EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL SERVICE, AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLUMBING PIPING, FIXTURES, TRIM, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND DRAWINGS, WHICH PLUMBING INSTALLATIONS ARE DESIGNATED FOR ADA ACCESSIBILITY. ALL SUCH FIXTURE INSTALLATIONS SHALL INCLUDE ALL INSTALLATION ACCESSORIES, MOUNTING HEIGHT, CONTROL OFFSET, SIZE AND ACCESSIBILITY AS REQUIRED BY LATEST EDITION OF AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL GOVERNING AUTHORITIES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
4. ALL PLUMBING VENTS, WHERE NOTED VENT UP (VTR), SHALL BE COMBINED WITHIN WALL OR ABOVE CEILING CONCEALED AREAS, WHERE FEASIBLE, SO AS TO MINIMIZE ROOF PENETRATIONS. CONTRACTOR SHALL COORDINATE LOCATION OF ROOF PLUMBING AND FLUE VENTS SUCH THAT ALL VENTS ARE MINIMUM 15 FEET FROM ANY OUTDOOR AIR INTAKE LOCATIONS. ALL ROOF PENETRATIONS, VENTS, FLUES, ETC., SHALL BE MADE ON BACK SIDE OF ROOF AS CAN BE COORDINATED WITH ARCHITECT. ALL FLUES AND VENTS EXPOSED ABOVE ROOF SHALL BE FIELD PAINTED COLOR BY ARCHITECT.
5. ALL DRAINAGE, VENT AND WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS, EXCEPT AS OTHERWISE NOTED AND AT APPROPRIATE EQUIPMENT FINAL CONNECTIONS. HOLD ALL PIPING ABOVE CEILINGS AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER TRADES.
6. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH STRUCTURAL MEMBERS, EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
7. SLOPES AND INVERT ELEVATIONS SHALL BE ESTABLISHED BEFORE ANY PIPE IS INSTALLED IN ORDER TO MAINTAIN PROPER SLOPES. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. ALL PIPING SHALL BE LOCATED & DETERMINED WHEN TO BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES.
8. WATER PIPING ROUTED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
9. CONTRACTOR SHALL VERIFY/COORDINATE PIPE SIZES AND CONNECTIONS WITH SUBMITTED AND APPROVED "KITCHEN" AND/OR "PLUMBING FIXTURE ROUGH-IN SCHEDULE" FOR WASTE, VENT AND WATER PIPING ROUGH-IN SIZES. CONTACT ARCHITECT SHOULD QUESTIONS OR CONFLICTS ARISE. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ROUGH-IN, FINAL CONNECTIONS AND INSTALLATION APPURTENANCES AS RECOMMENDED BY APPLIANCE AND/OR EQUIPMENT MANUFACTURER FOR DISHWASHERS, ICE MAKERS, AND MACHINES, WASHERS, DRYERS, ETC. VERIFY LOCATION ON ARCHITECTURAL DRAWINGS AND CONNECTION REQUIREMENTS FROM APPROVED BROCHURES OF THE EQUIPMENT AND/OR APPLIANCES MANUFACTURER.
10. KEEP ALL BURIED PIPING CLEAR OF FOOTINGS AND GRADE BEAMS. COORDINATE WITH STRUCTURAL.
11. ALL VERTICAL RISERS TO FLOOR DRAINS AND FLOOR MOUNTED SINKS SHALL BE MAXIMUM 18" LONG.
12. ALL ABOVE GRADE HORIZONTAL DRAINAGE AND VENT PIPING ROUTING SHALL BE COORDINATED WITH OTHER TRADES AND STRUCTURAL/ARCHITECTURAL DRAWINGS. CONSISTENTLY SLOPE ALL PIPING, NOT INDICATED WITH ELEVATIONS, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
13. WHEN SLEEVES, PIPES, CONDUITS, ETC. PENETRATE GRADE BEAMS OR TIE BEAMS THE CONTRACTOR SHALL INCREASE THE DEPTH OF THE PENETRATED BEAM BY NO LESS THAN TWICE THE DIAMETER OF THE PENETRATION FOR A DISTANCE OF 4'-0" CENTERED ON THE PENETRATION. WHERE THE PENETRATION INTERRUPTS REINFORCING STEEL, AN EQUAL NUMBER OF LIKE SIZE REINFORCING BARS SHALL BE BENT UNDER THE PENETRATION AND LAP SPLICED 30 BAR DIAMETERS ON EACH SIDE. CONCRETE COVER REQUIREMENTS ON ALL SIDES SHALL BE THE SAME AS SHOWN FOR THE UN-MODIFIED GRADE BEAM OR TIE BEAM. SEE STRUCTURAL DRAWINGS FOR FURTHER SPECIFICS. ETC. PROVIDE NEW SCHEDULE 40 PVC PIPE SLEEVE A MIN. TWO SIZES LARGER THAN CARRIER PIPE AT ALL SUCH CROSSINGS, TO EXTEND MIN. 6" PAST FOUNDATION ON BOTH ENDS, PROVIDE OAKUM AND SEALANT IN ANNULAR SPACE OF SLEEVES AND WATER PROOF ON ALL BUILDING PERIMETER AND INTERIOR FOOTING AND GRADE BEAM APPLICATIONS.
14. ALL CLEANOUTS IN SANITARY, STORM AND CONDENSATE DRAIN PIPING SHALL BE FULL PIPE SIZE UP TO 4" AND SHALL BE 4" SIZE ON 6" AND LARGER PIPING. ALL WALL CLEANOUTS SHALL BE PROVIDED WITH WALL COVERS, MOUNT IN UNOBTRUSIVE LOCATION WHILE MAINTAINING ACCESSIBILITY. ALL FLOOR CLEANOUTS SHOWN SHALL BE SET FLUSH WITH FLOOR AREAS OR FINISHED GRADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK, ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES.
16. WHERE POSSIBLE, INSTALL SHUT-OFF VALVES, SHOCK ABSORBERS, EQUIPMENT, ETC. REQUIRING MAINTENANCE, CLEANING, & ADJUSTING ABOVE ACCESSIBLE CEILINGS OR IN SERVICE AREAS. IN OTHER LOCATIONS, PROVIDE ACCESS PANELS ADJACENT TO THE ACCESS AREA, FINISH TO MATCH ARCHITECTURAL. LOCATE ALL VALVES AND SHOCK ABSORBERS WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
17. WHERE CONNECTING TO A UTILITY OR SERVICE, VERIFY LOCATION, SIZES, MATERIALS, FLUID BEING HANDLED, & INVERTS OF EXISTING UTILITY & CONFIRM THAT NEW PIPES ROUTED TO EXISTING UTILITIES CAN BE INSTALLED CONFORMING TO APPLICABLE CODES AS INDICATED. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO PURCHASING MATERIALS OR PERFORMING WORK OR EXTENSION OF CONNECTION, WITH THE EXCEPTION OF EXCAVATION OR OTHER WORK TO PROVIDE ACCESS TO THE CONCEALED UTILITY.
18. WATER CLOSET FLUSH VALVE LEAVERS SHALL BE LOCATED ON THE APPROACH SIDE OF THE WATER CLOSET.
19. GAS REGULATORS REQUIRING VENTS SHALL BE VENTED TO THE BUILDING EXTERIOR. TERMINATE VENTS A MINIMUM OF 15'-0" FROM ANY AIR INTAKE OR SOURCE OF IGNITION.
20. DURING FINAL OBSERVATION WALK-THRU, CLEANOUT COVERS AND ACCESS PANELS SHALL BE OPENED AND ITEMS EXPOSED FOR VERIFICATION OF INSTALLATION AND POSITION.
21. DOMESTIC WATER, GAS, SANITARY SEWER, AND STORM SEWER TO REMAIN IN OPERATION IN EXISTING BUILDING DURING DEMOTION AND CONSTRUCTION OF NEW WORK. CONTRACTOR TO DETERMINE TEMPORARY SERVICES IF NEEDED AND ARRANGE OUTAGES OF SERVICES WITH OWNER AND ARCHITECT.
22. INSTALL CONDENSATE DRAINS FROM ALL A/C EQUIPMENT. PROVIDE TRAPPED DRAINAGE PIPING WITH VENT RISERS 6" HIGH NEAR EQUIPMENT CONNECTIONS. PROVIDE NEW INSULATED CONDENSATE DRAINS FOR ALL HVAC COOLING COILS AND OVERFLOW PANS AND ROUTE ON SLOPE TO CONNECTION WITH NEARBY PLUMBING VENT STACK OR FLOOR DRAIN. PROVIDE CLEANOUTS ON DRAINS, 1" OR LARGER, EVERY 20' O.C., AND AT ENDS AND OFFSETS OF RUNS.
23. COORDINATE UNDERGROUND PIPING WITH GRADE BEAMS AND WALL FOOTINGS. SLEEVE ALL GRADE BEAMS UTILIZING SLEEVES A MINIMUM 2 SIZES LARGER THAN DRAINAGE PIPING SIZE. SOME SLEEVES MAY NOT BE SHOWN, BUT SLEEVES AT ALL GRADE BEAM HORIZONTAL AND VERTICAL PIPING PENETRATIONS ARE REQUIRED.
24. PROVIDE NEAT PIPE SLEEVES AT ALL GAS, WATER, STORM, SANITARY, AND REFRIGERANT PIPING EXTERIOR WALL PENETRATIONS. FILL VOID IN ANNULAR SPACE WITH NEAT ELASTOMERIC SEALANT. BELOW GRADE SLEEVES INTO HABITABLE SPACES SHALL INCLUDE WATER-TIGHT SLEEVES AS "LINK SEAL".
25. FIRESTOP ALL PIPING AND CONDUIT PENETRATIONS OF FLOORS AND FIRE, SMOKE, OR COMBINATION WALLS/PARTITIONS TO MEET THE LATEST INTERNATIONAL BUILDING CODE REQUIREMENTS. CONTRACTOR SHALL PROVIDE APPROVED SOUND ABSORBENT SEALANT AT ALL SIMILAR PENETRATIONS AT "SOUND" AND FULL HEIGHT WALLS (SEALED TO UNDERSIDE OF ROOF DECK) INDICATED ON ARCHITECTURAL AND/OR MECHANICAL DRAWINGS.
26. PROVIDE AND INSTALL DI-ELECTRIC BUSHINGS IN ALL PIPE SYSTEMS WHERE UNLIKE METALS ARE CONNECTED, I.E., COPPER TO STEEL. PROVIDE AND INSTALL STEEL SLEEVES IN ALL FLOORS, WALLS, ROOF DECK, ETC., FOR PIPE PENETRATIONS. SLEEVES SHALL BE OF SUFFICIENT DIAMETER TO ACCOMMODATE PIPE AND INSULATION, WHERE APPROPRIATE. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALL AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO WALLS AS POSSIBLE.
27. PROVIDE 12" X 12" LOCKING PIANO HINGED ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
28. PIPE ALL DRIPS, DRAINS, RELIEFS, ETC. TO THE NEAREST FLOOR DRAIN UNLESS OTHERWISE INDICATED.
29. NEATLY INSULATE ALL WATER AND DRAIN PIPING UNDER LAVATORIES AND SINKS ON HANDICAPPED FIXTURES PER SPECIFICATIONS.
30. DO NOT RUN PLUMBING PIPING THROUGH OR OVER ELECTRICAL CLOSETS OR WITHIN 3'-0" OF ELECTRICAL PANEL FRONTS.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI, LICENSED PROFESSIONAL ENGINEER, 01/16/26, 17087, STATE OF MISSISSIPPI

PLUMBING LEGEND, ABBREVIATIONS & NOTES

P001

GENERAL

SUMMARY

A. WORK INCLUDED IN SECTION 220000 PLUMBING: PROVIDE ALL MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION AND TESTS AS NOTED IN CONTRACT DOCUMENTS IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
B. MATERIALS COMPOSITION SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE.
C. RELATED SECTIONS:
   1. CONSULT ALL OTHER SECTIONS, DETERMINE THE EXTENT AND CHARACTER OF RELATED WORK AND PROPERLY COORDINATE WORK SPECIFIED HEREIN WITH THAT SPECIFIED ELSEWHERE TO PRODUCE A COMPLETE AND OPERABLE INSTALLATION.

COORDINATION

A. PLUMBING CONTRACTOR SHALL REVIEW THE DOCUMENTS OF OTHER TRADES, IN PARTICULAR MECHANICAL DRAWINGS, PRIOR TO BID AND INCLUDE IN BID ALL OFFSETS AND OTHER REROUTING OF PIPING AND DEVICES TO AVOID CONFLICTS. WHERE DUCTS AND MECHANICAL PIPING CONFLICT WITH 220000 PIPING, 220000 PIPING SHALL BE REROUTED AS REQUIRED TO RESOLVE THE CONFLICT. IN NO CASE SHALL PIPING PENETRATE DUCTWORK.
B. ROUTING OF PIPE SHALL BE IN A NEAT MANNER TO WORK WITH THE ARCHITECTURAL AND STRUCTURAL ELEMENTS OF THE BUILDING AND THE REQUIREMENTS OF THE ARCHITECT. ANY PIPE ROUTES AT EXPOSED CEILING AREAS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. SUBMIT THESE PIPE ROUTES IN ADVANCE TO THE ARCHITECT PRIOR TO THE SHOP DRAWING SUBMITTAL.

SUBMITTALS

A. SCHEDULE.
   1. ALLOW 10 WORKING DAYS FOR APPROVAL UNLESS ENGINEER AGREES TO ACCELERATED SCHEDULE.
B. FIXTURE, EQUIPMENT, AND MATERIAL DATA SHALL BE SUBMITTED ELECTRONICALLY ALL AT ONE TIME.
C. SUBMISSION PROCEDURE.
   1. INITIAL SUBMITTAL.
      a. EACH SUBMITTAL SHALL HAVE A UNIQUE SERIAL NUMBER SUCH AS "SUBMITTAL 220000-01".
      b. SUBMITTALS MAY BE SUBMITTED NON-CONCURRENTLY IF REQUIRED BY THE SCHEDULE.
      c. SUBMIT ONE ELECTRONIC COPY OF PRODUCT DATA IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF. PROVIDE SEPARATE FILES FOR EACH EQUIPMENT TYPE. PAPER COPIES OR SCANS OF PAPER COPIES WILL NOT BE ACCEPTED.
      d. SUBMITTAL WILL BE REVIEWED, AND COMMENTS RETURNED TO CONTRACTOR.
   2. RESUBMISSION.
      a. EACH RESUBMITTAL SHALL HAVE THE ORIGINAL UNIQUE SERIAL NUMBER PLUS UNIQUE REVISION NUMBER SUCH AS "SUBMITTAL 220000-01 REVISION 1".
      b. MAKE ANY CORRECTIONS OR CHANGE IN SUBMITTALS AS REQUIRED.
      c. RESUBMIT FOR REVIEW IN ELECTRONIC FORMAT DESCRIBED ABOVE UNTIL NO EXCEPTIONS ARE TAKEN OR, UNLESS CONTRACTOR AGREES WITH "FURNISH AS CORRECTED" REMARKS.
   3. FINAL APPROVAL: ONCE SUBMISSION IS ACCEPTED, CONTRACTOR SHALL PRINT TWO BOUND SETS OF SUBMITTALS FOR OWNER. ENGINEERING RESOURCE GROUP DOES NOT REQUIRE OR DESIRE PAPER COPIES.
D. CONTENTS OF SUBMITTALS.
   1. PLUMBING MATERIAL SUBMITTALS
      a. PIPING, FITTINGS, JOINING METHOD, INSULATION, IDENTIFICATION, VALVES.
   2. PLUMBING EQUIPMENT SUBMITTALS
      a. MANUFACTURER'S NAME AND MODEL NUMBER.
      b. ALL INFORMATION REQUIRED TO COMPLETELY DESCRIBE MATERIALS AND EQUIPMENT AND TO INDICATE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO:
         1) A SCHEDULE, FOR ALL ITEMS OF THE SAME TYPE SHALL BE SUPPLIED. THE SCHEDULE SHALL INCLUDE THE MANUFACTURER, THE MODEL, SIZE, SPECIFIC INFORMATION THAT MAKES THAT ITEM UNIQUE, THE SERVICE OF THE ITEM, THE SYSTEM SERVED BY THE ITEM.
         2) PHYSICAL DATA, PERFORMANCE DATA, ELECTRICAL AND PLUMBING REQUIREMENTS.
E. OPERATING INSTRUCTIONS & MAINTENANCE MANUALS.
   1. BEFORE REQUESTING ACCEPTANCE OF WORK, SUBMIT IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF VIA EMAIL FOR REVIEW BY ENGINEER. FILE SHALL INCLUDE BOOKMARKS FOR EACH PIECE OF EQUIPMENT. PAPER COPIES WILL NOT BE ACCEPTED.
   2. AFTER REVIEW AND MAKING CORRECTIONS NOTED, FURNISH THREE PRINTED AND BOUND SETS FOR THE OWNER. ASSEMBLE IN WITH SEPARATE TABS FOR EACH PIECE OF EQUIPMENT IN HEAVY THREE-RING BINDER.
   3. O&M MANUAL SHALL INCLUDE ALL SUBMITTAL DATA SUBMITTED HEREIN ABOVE, AS INSTALLED. THE INTENT OF THIS SECTION IS THAT A SINGLE DOCUMENT CONTAINS ALL RELEVANT INFORMATION ABOUT EACH PIECE OF EQUIPMENT.
   4. IN ADDITION TO THE SUBMITTAL DATA, THE O&M MANUAL SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR ALL NEW EQUIPMENT:
      a. MANUFACTURER'S NAME, MODEL NUMBER, SERVICE MANUAL, SPARE-PARTS LIST, AND DESCRIPTIVE LITERATURE FOR ALL COMPONENTS.
      b. INSTALLATION INSTRUCTIONS.
      c. MAINTENANCE INSTRUCTIONS.
      d. WIRING DIAGRAMS.
      e. NAME, ADDRESS AND PHONE NUMBER OF CONTRACTORS EQUIPMENT SUPPLIERS AND SERVICE AGENCIES.
      f. GUARANTEE PERIOD, INCLUDING START AND END PERIOD.
F. RECORD DRAWINGS.
   1. UPDATE DESIGN/SHOP DRAWINGS TO "AS- BUILT" CONDITIONS:
      a. FULLY INCORPORATE ALL REVISIONS MADE BY ALL CRAFTS IN COURSE OF WORK.
      b. INCLUDE ALL FIELD CHANGES, ADJUSTMENTS, VARIANCES, SUBSTITUTIONS, AND DELETIONS, INCLUDING ALL CHANGE ORDERS.
      c. EXACT LOCATION, TYPE, AND FUNCTION OF CONCEALED VALVES, PIPING, AIR VENTS AND PIPING DRAINS. EXACT SIZE, ELEVATIONS, AND HORIZONTAL LOCATION OF PIPING
   2. SUBMIT IN ELECTRONIC FORMAT PER SUBMITTALS ABOVE FOR APPROVAL.
   3. ONCE APPROVED.
      a. PROVIDE ONE SET OF ADOBE PDF FILES OF EACH DRAWING ON PORTABLE MEDIA (E.G., USB FLASH DRIVE).
      b. PROVIDE ONE FULL SIZE SET OF DRAWINGS ON BOND PAPER.
      c. PROVIDE PDF SET LOADED ONTO 1 FLASH DRIVE.

PRODUCTS

MANUFACTURERS

A. NAMED MANUFACTURER MODEL NUMBERS USED AS EXAMPLE OF ITEM AND ESTABLISH MINIMUM LEVEL OF QUALITY AND MINIMUM STANDARD OPTIONS. EQUIVALENT MODELS ARE ACCEPTABLE.
   1. VITREOUS CHINA FIXTURES: SLOAN, AMERICAN STANDARD, TOTO, ZURN, KOHLER.
   2. STAINLESS STEEL SINKS: AMERICAN STANDARD, JUST, ELKAY, KOHLER.
   3. SINK AND LAVATORY TRIM: ZURN, KOHLER, DELTA.
   4. MOP BASINS: STERN-WILLIAMS, FIAT PRODUCTS, FLORESTONE.
   5. SHOWERS: ZURN, LAWLER, LEONARD.
   6. ELECTRIC DRINKING FOUNTAINS: ELKAY, HAWS, HALSEY TAYLOR.
   7. FIXTURE CARRIERS: WADE, ZURN, J.R. SMITH.
   8. DRAINS AND CLEANOUTS: WADE, ZURN.
   9. WATER HAMMER ARRESTORS (SHOCK ABSORBERS): WADE, MIFAB.
   10. THERMOSTATIC MIXING VALVES: LAWLER, LEONARD VALVE COMPANY, POWERS SIMMONS.
   11. VALVES: APOLLO, NIBCO, WATTS.
   12. BALANCING VALVES: BELL & GOSSETT, NIBCO, WATTS, ARMSTRONG

PRODUCTS (CONTINUED)

PLUMBING FIXTURES - GENERAL

A. ALL FIXTURES, FAUCETS, STOPS, AND TRIM ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER.
B. VITREOUS CHINA FIXTURES SHALL BE TWICE FIRED WHITE VITREOUS CHINA.
C. ALL PLUMBING FIXTURES SHALL BE CERTIFIED BY AND COMPLY WITH THE EPA WATER CONSERVATION REGULATIONS.
D. PROVIDE FIXTURES AND TRIM COMPLETE FOR PROPER INSTALLATION AS DESCRIBED IN THE MANUFACTURER'S CATALOG WITH THE MODIFICATIONS AS SHOWN ON PLUMBING FIXTURE SCHEDULE IN THE PLANS OR SPECIFICATIONS.
E. ALL FIXTURES FOR HANDICAPPED PERSONAL SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), HANDICAPPED REGULATIONS.
F. SEAL UP JOINTS BETWEEN FIXTURES AND WALL OR FLOOR WITH WHITE MASTIC. MASTIC COLOR SHALL BE AS APPROVED BY THE ARCHITECT.
G. PROVIDE QUARTER-TURN WATER SUPPLY STOPS AT EACH NEW AND RELOCATED FIXTURE.
H. PROVIDE TUBING, TAILPIECES, SUPPLIES, TRAPS, PIPE FLANGES, AND WASTES TO WALL OF NOT LESS THAN #17-GAUGE POLISHED CHROMIUM-PLATED BRASS. UNLESS NOTED OTHERWISE, SUPPLIES AND TRAPS SHALL BE CENTERED, PLUMB, AND PERPENDICULAR TO WALL FOR LAVATORIES AND SINKS.
I. INSTALL ESCUTCHEONS AT PIPING WALL, FLOOR, AND CEILING PENETRATIONS IN EXPOSED, FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. HEAVY-DUTY TYPE ESCUTCHEONS, WITH SETSCREWS SHALL BE UTILIZED IN EXPOSED APPLICATIONS UNDER WALL MOUNTED LAVATORIES AND SINKS AND ON EXPOSED PIPING APPLICATIONS ON TANK TYPE WATER CLOSET STOPS AND ON EXPOSED PIPING TO FLUSH VALVES, ETC. LIGHT DUTY SLIP-ON TYPE MAY BE UTILIZED IN CONCEALED INSTALLATIONS WITHIN CABINETS. USE DEEP-PATTERN ESCUTCHEONS IF REQUIRED TO CONCEAL PROTRUDING FITTINGS.
J. PROVIDE AND INSTALL BRAIDED STAINLESS STEEL FLEXIBLE SUPPLIES FOR ALL WATER PIPING FROM SHUT-OFF VALVE, TO APPLICABLE FIXTURES. END CONNECTIONS AND LENGTH TO MATCH EACH APPLICATION. PROVIDE FOR ALL TANK TYPE WATER CLOSETS, LAVATORIES, SINKS, EDF'S, WATER HEATERS, ICE MAKERS, WASHERS, ETC. PROVIDE NEAT INSULATION PACKAGE, AS TRUEBO, ON ADA SINKS AND LAVATORIES WATER AND WASTE PIPING EXPOSED APPLICATIONS.
K. PROVIDE AND INSTALL NEW FLOOR MOUNTED, CONCEALED IN WALL, CARRIERS FOR ALL WALL MOUNTED SINKS, LAVATORIES, EDF'S, WATER CLOSETS, URINALS, ETC. WHERE SINK, LAVATORY, EDF OR URINAL CARRIERS ARE INSTALLED IN WALLS LESS THAN 4", AND WASTE ARMS CAN INTERFERE WITH AVAILABLE SPACES, USE CARRIER WITH INTEGRAL PASS THRU SLEEVE AS SMITH FIG 0710-TAB-WL, OR EQUAL.

EXECUTION

INSPECTION

A. VERIFY THAT CONDITIONS ARE SATISFACTORY FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT. NOTIFY ARCHITECT IF CONDITIONS ARE NOT SATISFACTORY AND DO NOT COMMENCE WORK UNTIL CONDITIONS HAVE BEEN CORRECTED.

INSTALLATION

A. ALL EQUIPMENT AND SYSTEM COMPONENTS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. REPAIR ALL DAMAGED FINISHES. INSTALL ALL EQUIPMENT AND SYSTEMS PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. ALL EQUIPMENT MUST BE ANCHORED TO THE BUILDING. ALL HUNG EQUIPMENT SHALL INCORPORATE VIBRATION ISOLATION.

PROTECTION OF WORK DURING CONSTRUCTION

A. PROTECT FROM DAMAGE, WATER, DUST, ETC., MATERIAL, EQUIPMENT AND APPARATUS PROVIDED UNDER THIS DIVISION, BOTH IN STORAGE AND INSTALLED, UNTIL SUBSTANTIAL COMPLETION HAS BEEN FILED. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. COVER MOTORS AND OTHER MOVING MACHINERY TO PROTECT FROM DIRT AND WATER DURING CONSTRUCTION.
B. MATERIAL, EQUIPMENT, OR APPARATUS DAMAGED BECAUSE OF IMPROPER STORAGE OR PROTECTION WILL BE REJECTED. REMOVE DAMAGED MATERIAL, EQUIPMENT OR APPARATUS FROM SITE AND PROVIDE NEW, DUPLICATE, MATERIAL, EQUIPMENT, OR APPARATUS IN REPLACEMENT OF THAT REJECTED. POROUS MATERIALS, SUCH AS PIPE INSULATION, SHALL BE PROTECTED FROM WEATHER. IF SUCH MATERIAL BECOMES WET DURING CONSTRUCTION, IT SHALL BE REMOVED AND REPLACED AT NO COST TO OWNER; DRYING IS NOT SUFFICIENT DUE TO POSSIBLE MICROBIAL CONTAMINATION.
C. PROTECT OTHER MISCELLANEOUS EQUIPMENT, PIPING, ETC. DURING CONSTRUCTION, WHERE INADVERTENT DAMAGE OCCURS, RESTORE TO CONDITION SIMILAR TO THAT BEFORE DAMAGE. INSPECT EACH PIECE OF PIPE, TUBING, FITTINGS, AND EQUIPMENT FOR DEFECTS AND OBSTRUCTIONS. PROMPTLY REMOVE ALL DEFECTIVE MATERIALS FROM THE SITE. INSTALL PIPES TO CLEAR ALL BEAMS AND OBSTRUCTIONS. DO NOT CUT INTO ANY STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

PIPING

A. ALL GRAVITY PIPING SHALL SLOPE AT PER THE INTERNATIONAL PLUMBING CODE.
B. INSTALL PIPES AND PIPE FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY LEAK RESISTANT PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. INSTALL EACH RUN WITH MINIMUM JOINTS AND COUPLINGS BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE/REPLACEMENT OF VALVES AND EQUIPMENT. REDUCE SIZES, WHERE INDICATED BY USE OF REDUCING FITTINGS. ALIGN PIPING ACCURATELY AT CONNECTIONS, WITHIN 1/16-INCH MISALIGNMENT TOLERANCE.
C. WHEREVER POSSIBLE, PIPING SHALL BE RUN IN BEAM BAYS BEFORE OFFSETTING TO BELOW A BEAM. VERIFY ALL INVERT ELEVATIONS AND PITCHED LINES BEFORE STARTING WORK. COORDINATE ALL PIPE RUNS BELOW SLAB AT FLOOR WITH THE GENERAL CONTRACTOR. VERTICAL PIPE PENETRATIONS OF THE STRUCTURAL FOUNDATION ARE NOT PERMITTED. PIPING SHALL BE OFFSET HORIZONTALLY BELOW TOP OF SLAB AND ABOVE TOP OF FOUNDATION. PIPING SHALL BE WRAPPED WITH ½" LAYER OF INSULATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS IN REGARDS TO LOCATIONS OF SLEEVES THROUGH GRADE BEAMS.

EXECUTION (CONTINUED)

VALVES

A. FOR VALVES IN MULTIPLE PARALLEL RUNS OF PIPING, PROVIDE 4" CLEARANCE BETWEEN VALVE HANDLE AND ADJACENT PIPE, OR INSULATION. INSTALL VALVE HANDLES IN HORIZONTAL POSITION BETWEEN PIPES. DO NOT INSTALL VALVE HANDLES ON TOP OF PIPE.
B. INSTALL VALVES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PROVIDE ALL VALVES (EXCEPT CONTROL VALVES), STRAINERS, AND CHECK VALVES OF SAME SIZE AS THE PIPES IN WHICH THEY ARE INSTALLED UNLESS OTHERWISE INDICATED. PRESSURE RATING OF VALVES SAME AS PIPING IN WHICH INSTALLED.
C. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. INSTALL VALVES WITH CAST DIRECTIONAL ARROWS IN DIRECTION OF FLOW.
D. LOCATE WHEEL HANDLES TO CLEAR OBSTRUCTIONS WITH HAND. INSTALL VALVES ONLY IN ACCESSIBLE LOCATIONS. LOCATE EQUIPMENT SHUT-OFF VALVES TO BE ACCESSIBLE WITHOUT CLIMBING OVER EQUIPMENT. PROVIDE OPEN-ENDED LINE VALVES WITH PLUGS OR BLIND FLANGES.

EQUIPMENT AND PIPING IDENTIFICATION

A. EQUIPMENT.
   1. ALL PLUMBING EQUIPMENT SHALL BE IDENTIFIED BY NAMEPLATES SECURELY FASTENED IN A CLEARLY VISIBLE LOCATION TO THE EQUIPMENT HOUSING OR FRAME. NAMEPLATES SHALL INCLUDE THE EQUIPMENT DESIGN PLAN MARK, MODEL NUMBER AND SERIAL NUMBER. NAMEPLATES SHALL BE 2-1/2" X 3/4" MINIMUM, EITHER 1/16" THICK BAKELITE WITH ENGRAVED WHITE CORE LETTERS AND BEVELED EDGE OR ALUMINUM WITH BLACK ENAMELED BACKGROUND AND ETCHED OR ENGRAVED NATURAL ALUMINUM LETTERING. MANUFACTURER'S NAMEPLATE SHALL BE CLEAN AND LEGIBLE AND INSTALLED IN A CLEARLY VISIBLE LOCATION.
B. PIPING.
   1. IDENTIFY PIPING WITH SYMBOL IDENTIFICATION, DIRECTION OF FLOW ARROWS AND SPECIFIC PRESSURE ZONES, COMPLYING WITH ANSI A 13.1 COLOR STANDARDS.
   2. IDENTIFY PIPING AT APPROXIMATELY 25' CENTERS WHERE UNCONCEALED. CONCEALED PIPING ABOVE INACCESSIBLE CEILINGS SHALL BE IDENTIFIED AT EACH ACCESS PANEL. CONCEALED PIPING ABOVE ACCESSIBLE CEILINGS SHALL BE IDENTIFIED WITHIN 10 FEET OF EACH WALL PENETRATION (BOTH SIDES OF WALLS).
   3. PRINTED LABELS WITH COLORED BACKGROUND AND ATTACHING STRAP: SETON, W. BRADY, OR EQUAL.
C. BURIED UTILITY WARNING AND IDENTIFICATION TAPE.
   1. SETON, BRADY, OR EQUAL.
   2. POLYETHYLENE PLASTIC TAPE MANUFACTURED SPECIFICALLY FOR WARNING AND IDENTIFICATION OF BURIED PIPELINES. CODE AND LETTER COLORING SHALL BE PERMANENT, UNAFFECTED BY MOISTURE AND OTHER SUBSTANCES CONTAINED IN TRENCH BACKFILL MATERIAL.
   3. INSTALL TAPE 12" ABOVE TOP OF PIPE DURING BACKFILLING OF TRENCH.

CLEANING

A. DURING CONSTRUCTION: KEEP OPENINGS IN PIPING CLOSED TO PREVENT ENTRANCE OF FOREIGN MATTER. CLEAN PIPE, FITTINGS, AND VALVES INTERNALLY.
B. CLEAN PLUMBING FIXTURES WITH SOAP AND WATER. REMOVE MARKS AND LABELS. CLEAN AND POLISH CHROME. REMOVE PAINT, CONCRETE, PLASTER, AND OTHER FOREIGN MATERIALS.
C. CLEAN ALL DRAINS, AND TANKS, OF DIRT AND DEBRIS.
D. REMOVE SHIPPING PAPER FROM CLEANOUT COVERS AND DRAIN STRAINERS AND POLISH.
E. REMOVE AND CLEAN OUT ALL DIRT AND DEBRIS FROM PIPE SPACES, INCLUDING ALL WIRE, AND BLOCKING.
F. ALL EQUIPMENT AND MATERIALS FURNISHED BY THIS SECTION SHALL BE COMPLETELY DUST AND PAINT FREE, CLEAN, AND RUST FREE AND FRESHLY PAINTED OR POLISHED WHEN THE FINAL INSPECTION IS MADE.
G. THOROUGHLY CLEAN AND FLUSH INTERIOR AND EXTERIOR OF ALL PIPING SYSTEMS (WET SYSTEMS, AND DRAINAGE SYSTEMS) OF ANY NATURE OF ALL PIPE CONTAMINATES SUCH AS CUTTINGS, FILLINGS, GREASE, SOLDER, FLUX AND WELDING RESIDUE.

EXCAVATING, TRENCHING, AND BACKFILLING

A. IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 31 FOR EXCAVATING, TRENCHING, AND BACKFILLING.
B. PROVIDE BARRICADES, SIGNS, LANTERNS, SHORING, SHEETING, AND PUMPING AS PART OF WORK IN THIS DIVISION AS REQUIRED TO ENSURE SAFE CONDITIONS. COMPLY WITH OSHA REQUIREMENTS.
C. DIG TRENCHES STRAIGHT, TRUE TO LINE AND GRADE WITH SIDES AND BOTTOMS SMOOTHED OF ANY ROCK POINTS. EXCAVATE 6 INCHES BELOW GRADE OF PIPE. FILL WITH SAND PROPERLY PACKED. SUPPORT PIPE FOR ENTIRE LENGTH ON PACKED SAND. SHAPE OR PACK BOTTOM OF TRENCHES FOR PIPE, DUCT FITTINGS, HUBS, COUPLINGS, ETC., USING TEMPLATES TO FIT OUTSIDE PERIPHERY OF LOWER THIRD OF PIPING AND DUCTWORK. PROVIDE PIPING OUTSIDE BUILDING WITH 36-INCH MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE. MINIMUM WIDTH 16 INCHES. PROVIDE IDENTIFICATION WIRE AND TAPE.
D. DISPOSE OF ALL SURPLUS EXCAVATION MATERIAL AND SEEPAGE WATER AS DIRECTED BY THE ARCHITECT.
E. BACKFILL.
   1. AFTER PIPING HAS BEEN INSTALLED, TESTED, AND APPROVED, BACKFILL ALL EXCAVATION, TAMP AND COMPACT BY MOTOR POWERED OR COMPRESSED AIR TAMPERS.
   2. BACKFILL TO 6-INCHES ABOVE CROWN OF PIPE WITH UNWASHED SAND, WITH REMAINDER OF TRENCH BACK-FILLED AND MECHANICALLY TAMPED IN 6-INCH MAXIMUM LAYERS OF SELECTED EXCAVATED MATERIALS, FREE FROM ORGANIC MATTER, ROCKS, ETC. PROVIDE 90-PERCENT COMPACTION IN ACCORDANCE WITH ASTM D 1557-58T; 95-PERCENT COMPACTION FOR TRENCHES BELOW BUILDING SLABS.
F. IN ANY ASPHALT OR CONCRETE PAVED AREAS, BACKFILL ONLY TO SUBGRADE LEVEL.
G. WHEN PIPING IS INSTALLED, PRIOR TO BACKFILLING, ADVISE ARCHITECT; DO NOT BACKFILL WITHOUT ACCEPTANCES OF ARCHITECT.
H. REPLACE TO ORIGINAL CONDITION ALL PAVING, CURBS, GUTTERS, WALKS, ETC., WHICH BECOME DISTURBED BY TRENCHING.

LEAKAGE TESTING

A. BEFORE CONDUCTING TESTS, VALVE-OFF OR DISCONNECT ANY EQUIPMENT AND APPARATUS WHICH MAY BE DAMAGED BY THE TEST PRESSURES HIGHER THAN NORMAL WORKING PRESSURES. ALL TESTING SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION.
B. SANITARY SOIL, WASTE, AND VENT PIPING: HYDROSTATICALLY TEST AND PROVE TIGHT, TO PROVIDE A MINIMUM 10-FOOT HEAD OF WATER, AND IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE.
C. STORM DRAIN PIPING: HYDROSTATICALLY TEST AND PROVE TIGHT, TO PROVIDE A MINIMUM 10-FOOT HEAD OF WATER, AND IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE.
D. DOMESTIC HOT WATER AND DOMESTIC COLD-WATER PIPING: TEST AND PROVE TIGHT UNDER 150 PSI HYDROSTATIC PRESSURE.
E. TRAP PRIMER PIPING: TEST AND PROVE TIGHT UNDER 50 PSI HYDROSTATIC PRESSURE.
F. NATURAL GAS PIPING: SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 54 REQUIREMENTS.
   1. INSPECT, TEST, AND PURGE PIPING ACCORDING TO ANSI Z223.1, PART 4 "INSPECTION, TESTING, AND PURGING" AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. ISOLATE PRESSURE REDUCING VALVES AND EQUIPMENT CONTROLS DURING TESTING. TEST PRESSURE TO BE 100 PSI FOR A PERIOD OF 24 HOURS WITH NO DROP IN PRESSURE.
G. APPLY TESTS FOR A MINIMUM PERIOD OF TWO (2) HOURS, UNLESS OTHERWISE HEREINBEFORE SPECIFIED, AND UNTIL TESTS ARE COMPLETE, IN THE OPINION OF THE INSPECTING AUTHORITY.
H. WORK MAY BE TESTED IN SECTIONS, IF NECESSARY, FOR CONVENIENCE. IN THIS CASE, TEST OF FIRST SECTION SHALL INCLUDE ALL CONNECTIONS BETWEEN PREVIOUSLY TESTED SECTIONS AND SECTION UNDER TEST.
I. FURNISH ALL LABOR AND ALL OTHER UTILITIES REQUIRED TO CONDUCT LEAKAGE TESTS.

EXECUTION (CONTINUED)

STERILIZATION

A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
   1. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
   2. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW:
      a. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
      b. FILL AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
         1) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
         2) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR THREE HOURS.
      c. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
      d. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
      e. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION.
B. CLEAN NON-POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
   1. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
   2. USE PURGING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR IF METHODS ARE NOT PRESCRIBED, FOLLOW PROCEDURES DESCRIBED BELOW:
      a. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
      b. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
C. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES. INCLUDE COPIES OF WATER-SAMPLE APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
D. CLEAN INTERIOR OF DOMESTIC WATER PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

TESTING, ADJUSTING, AND BALANCING (TAB)

A. THE FOLLOWING MINIMAL TAB SHALL BE PROVIDED, WITH REPORT AND INFORMATION SUBMITTED WITH CLOSEOUTS.
   1. MIXING VALVES INLET TEMPERATURE AND ADJUST TO DELIVER SPECIFIED OUTLET TEMPERATURES FOR EACH HEATER, APPLIANCE, AND FIXTURE. INCLUDE A NARRATIVE IN TAB REPORT INDICATING SAME.

POTABLE HOT WATER BALANCING AND VERIFICATION

A. THE MASTER AND POINT-OF-USE MIXING VALVES SHALL BE SET TO PROVIDE THE SCHEDULED TEMPERATURES ON THE DRAWINGS, OR DETAILS.
B. THE TAB SHALL INDICATE IN THE FINAL REPORT:
   1. TEMPERATURE SETPOINT OF WATER HEATER(S).
   2. TEMPERATURE AT OUTLET OF MASTER MIXING VALVE.
   3. TEPID TEMPERATURE AT ALL PLUMBING FIXTURES/APPLIANCES, AND SAFETY EQUIPMENT WITH HOT, OR TEPID TEMPERATURE SERVICE.

CLOSEOUTS

CLOSEOUTS SHALL BE SUBMITTED TO PROFESSIONAL WITHIN TWO (2) WEEKS OF NTP. ONE HARD COPY OF CLOSEOUTS AND TWO (2) SETS ON FLASH DRIVE. CLOSEOUTS SHALL INCLUDE:

1. O&M MANUALS
2. RECORD DRAWINGS
3. COPY OF APPROVED SUBMITTALS
4. TAB COMPLETE REPORT
5. EXTENDED WARRANTIES
6. PIPE TEST LOGS
7. ATTIC STOCK
8. CONTROL AS-BUILTS
9. OWNER TRAINING DOCUMENTATION
10. SEE OTHERS ON CHECKLIST SCHEDULE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

100% CONSTRUCTION DOCUMENTS

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

PLUMBING SPECIFICATIONS

P002

GENERAL

SUMMARY

A. WORK INCLUDED IN SECTION 220000 PLUMBING: PROVIDE ALL MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION AND TESTS AS NOTED IN CONTRACT DOCUMENTS IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
B. MATERIALS COMPOSITION SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE.
C. RELATED SECTIONS:
   1. CONSULT ALL OTHER SECTIONS, DETERMINE THE EXTENT AND CHARACTER OF RELATED WORK AND PROPERLY COORDINATE WORK SPECIFIED HEREIN WITH THAT SPECIFIED ELSEWHERE TO PRODUCE A COMPLETE AND OPERABLE INSTALLATION.

COORDINATION

A. PLUMBING CONTRACTOR SHALL REVIEW THE DOCUMENTS OF OTHER TRADES, IN PARTICULAR MECHANICAL DRAWINGS, PRIOR TO BID AND INCLUDE IN BID ALL OFFSETS AND OTHER REROUTING OF PIPING AND DEVICES TO AVOID CONFLICTS. WHERE DUCTS AND MECHANICAL PIPING CONFLICT WITH 220000 PIPING, 220000 PIPING SHALL BE REROUTED AS REQUIRED TO RESOLVE THE CONFLICT. IN NO CASE SHALL PIPING PENETRATE DUCTWORK.
B. ROUTING OF PIPE SHALL BE IN A NEAT MANNER TO WORK WITH THE ARCHITECTURAL AND STRUCTURAL ELEMENTS OF THE BUILDING AND THE REQUIREMENTS OF THE ARCHITECT. ANY PIPE ROUTES AT EXPOSED CEILING AREAS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. SUBMIT THESE PIPE ROUTES IN ADVANCE TO THE ARCHITECT PRIOR TO THE SHOP DRAWING SUBMITTAL.

SUBMITTALS

A. SCHEDULE.
   1. ALLOW 10 WORKING DAYS FOR APPROVAL UNLESS ENGINEER AGREES TO ACCELERATED SCHEDULE.
B. FIXTURE, EQUIPMENT, AND MATERIAL DATA SHALL BE SUBMITTED ELECTRONICALLY ALL AT ONE TIME.
C. SUBMISSION PROCEDURE.
   1. INITIAL SUBMITTAL.
      a. EACH SUBMITTAL SHALL HAVE A UNIQUE SERIAL NUMBER SUCH AS "SUBMITTAL 220000-01".
      b. SUBMITTALS MAY BE SUBMITTED NON-CONCURRENTLY IF REQUIRED BY THE SCHEDULE.
      c. SUBMIT ONE ELECTRONIC COPY OF PRODUCT DATA IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF. PROVIDE SEPARATE FILES FOR EACH EQUIPMENT TYPE. PAPER COPIES OR SCANS OF PAPER COPIES WILL NOT BE ACCEPTED.
      d. SUBMITTAL WILL BE REVIEWED, AND COMMENTS RETURNED TO CONTRACTOR.
   2. RESUBMISSION.
      a. EACH RESUBMITTAL SHALL HAVE THE ORIGINAL UNIQUE SERIAL NUMBER PLUS UNIQUE REVISION NUMBER SUCH AS "SUBMITTAL 220000-01 REVISION 1".
      b. MAKE ANY CORRECTIONS OR CHANGE IN SUBMITTALS AS REQUIRED.
      c. RESUBMIT FOR REVIEW IN ELECTRONIC FORMAT DESCRIBED ABOVE UNTIL NO EXCEPTIONS ARE TAKEN OR, UNLESS CONTRACTOR AGREES WITH "FURNISH AS CORRECTED" REMARKS.
   3. FINAL APPROVAL: ONCE SUBMISSION IS ACCEPTED, CONTRACTOR SHALL PRINT TWO BOUND SETS OF SUBMITTALS FOR OWNER, ENGINEERING RESOURCE GROUP DOES NOT REQUIRE OR DESIRE PAPER COPIES.
D. CONTENTS OF SUBMITTALS.
   1. PLUMBING MATERIAL SUBMITTALS
      a. PIPING, FITTINGS, JOINING METHOD, INSULATION, IDENTIFICATION, VALVES.
   2. PLUMBING EQUIPMENT SUBMITTALS
      a. MANUFACTURER'S NAME AND MODEL NUMBER.
      b. ALL INFORMATION REQUIRED TO COMPLETELY DESCRIBE MATERIALS AND EQUIPMENT AND TO INDICATE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO:
         1) A SCHEDULE, FOR ALL ITEMS OF THE SAME TYPE SHALL BE SUPPLIED. THE SCHEDULE SHALL INCLUDE THE MANUFACTURER, THE MODEL, SIZE, SPECIFIC INFORMATION THAT MAKES THAT ITEM UNIQUE, THE SERVICE OF THE ITEM, THE SYSTEM SERVED BY THE ITEM.
         2) PHYSICAL DATA, PERFORMANCE DATA, ELECTRICAL AND PLUMBING REQUIREMENTS.
E. OPERATING INSTRUCTIONS & MAINTENANCE MANUALS.
   1. BEFORE REQUESTING ACCEPTANCE OF WORK, SUBMIT IN WORD-SEARCHABLE FORMAT SUCH AS ADOBE PDF VIA EMAIL FOR REVIEW BY ENGINEER. FILE SHALL INCLUDE BOOKMARKS FOR EACH PIECE OF EQUIPMENT. PAPER COPIES WILL NOT BE ACCEPTED.
   2. AFTER REVIEW AND MAKING CORRECTIONS NOTED, FURNISH THREE PRINTED AND BOUND SETS FOR THE OWNER. ASSEMBLE IN WITH SEPARATE TABS FOR EACH PIECE OF EQUIPMENT IN HEAVY THREE-RING BINDER.
   3. O&M MANUAL SHALL <u>INCLUDE ALL SUBMITTAL DATA</u> SUBMITTED HEREIN ABOVE, AS INSTALLED. THE INTENT OF THIS SECTION IS THAT A SINGLE DOCUMENT CONTAINS ALL RELEVANT INFORMATION ABOUT EACH PIECE OF EQUIPMENT.
   4. IN ADDITION TO THE SUBMITTAL DATA, THE O&M MANUAL SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR ALL NEW EQUIPMENT:
      a. MANUFACTURER'S NAME, MODEL NUMBER, SERVICE MANUAL, SPARE-PARTS LIST, AND DESCRIPTIVE LITERATURE FOR ALL COMPONENTS.
      b. INSTALLATION INSTRUCTIONS.
      c. MAINTENANCE INSTRUCTIONS.
      d. WIRING DIAGRAMS.
      e. NAME, ADDRESS AND PHONE NUMBER OF CONTRACTORS EQUIPMENT SUPPLIERS AND SERVICE AGENCIES.
      f. GUARANTEE PERIOD, INCLUDING START AND END PERIOD.
F. RECORD DRAWINGS.
   1. UPDATE DESIGN/SHOP DRAWINGS TO "AS- BUILT" CONDITIONS:
      a. FULLY INCORPORATE ALL REVISIONS MADE BY ALL CRAFTS IN COURSE OF WORK.
      b. INCLUDE ALL FIELD CHANGES, ADJUSTMENTS, VARIANCES, SUBSTITUTIONS, AND DELETIONS, INCLUDING ALL CHANGE ORDERS.
      c. EXACT LOCATION, TYPE, AND FUNCTION OF CONCEALED VALVES, PIPING, AIR VENTS AND PIPING DRAINS. EXACT SIZE, ELEVATIONS, AND HORIZONTAL LOCATION OF PIPING
   2. SUBMIT IN ELECTRONIC FORMAT PER SUBMITTALS ABOVE FOR APPROVAL.
   3. ONCE APPROVED.
      a. PROVIDE ONE SET OF ADOBE PDF FILES OF EACH DRAWING ON PORTABLE MEDIA (E.G., USB FLASH DRIVE).
      b. PROVIDE ONE FULL SIZE SET OF DRAWINGS ON BOND PAPER.
      c. PROVIDE PDF SET LOADED ONTO 1 FLASH DRIVE.

PRODUCTS
MANUFACTURERS

A. NAMED MANUFACTURER MODEL NUMBERS USED AS EXAMPLE OF ITEM AND ESTABLISH MINIMUM LEVEL OF QUALITY AND MINIMUM STANDARD OPTIONS. EQUIVALENT MODELS ARE ACCEPTABLE.
   1. VITREOUS CHINA FIXTURES: SLOAN, AMERICAN STANDARD, TOTO, ZURN, KOHLER.
   2. STAINLESS STEEL SINKS: AMERICAN STANDARD, JUST, ELKAY, KOHLER.
   3. SINK AND LAVATORY TRIM: ZURN, KOHLER, DELTA.
   4. MOP BASINS: STERN-WILLIAMS, FIAT PRODUCTS, FLORESTONE.
   5. SHOWERS: ZURN, LAWLER, LEONARD.
   6. ELECTRIC DRINKING FOUNTAINS: ELKAY, HAWS, HALSEY TAYLOR.
   7. FIXTURE CARRIERS: WADE, ZURN, J.R. SMITH.
   8. DRAINS AND CLEANOUTS: WADE, ZURN.
   9. WATER HAMMER ARRESTORS (SHOCK ABSORBERS): WADE, MIFAB.
   10. THERMOSTATIC MIXING VALVES: LAWLER, LEONARD VALVE COMPANY, POWERS SIMMONS.
   11. VALVES: APOLLO, NIBCO, WATTS.
   12. BALANCING VALVES: BELL & GOSSETT, NIBCO, WATTS, ARMSTRONG

<u>PRODUCTS (CONTINUED)</u>
PLUMBING FIXTURES - GENERAL

A. ALL FIXTURES, FAUCETS, STOPS, AND TRIM ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER.
B. VITREOUS CHINA FIXTURES SHALL BE TWICE FIRED WHITE VITREOUS CHINA.
C. ALL PLUMBING FIXTURES SHALL BE CERTIFIED BY AND COMPLY WITH THE EPA WATER CONSERVATION REGULATIONS.
D. PROVIDE FIXTURES AND TRIM COMPLETE FOR PROPER INSTALLATION AS DESCRIBED IN THE MANUFACTURER'S CATALOG WITH THE MODIFICATIONS AS SHOWN ON PLUMBING FIXTURE SCHEDULE IN THE PLANS OR SPECIFICATIONS.
E. ALL FIXTURES FOR HANDICAPPED PERSONAL SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), HANDICAPPED REGULATIONS.
F. SEAL UP JOINTS BETWEEN FIXTURES AND WALL OR FLOOR WITH WHITE MASTIC. MASTIC COLOR SHALL BE AS APPROVED BY THE ARCHITECT.
G. PROVIDE QUARTER-TURN WATER SUPPLY STOPS AT EACH NEW AND RELOCATED FIXTURE.
H. PROVIDE TUBING, TAILPIECES, SUPPLIES, TRAPS, PIPE FLANGES, AND WASTES TO WALL OF NOT LESS THAN #17-GAUGE POLISHED CHROMIUM-PLATED BRASS. UNLESS NOTED OTHERWISE, SUPPLIES AND TRAPS SHALL BE CENTERED, PLUMB, AND PERPENDICULAR TO WALL FOR LAVATORIES AND SINKS.
I. INSTALL ESCUTCHEONS AT PIPING WALL, FLOOR, AND CEILING PENETRATIONS IN EXPOSED, FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. HEAVY-DUTY TYPE ESCUTCHEONS, WITH SETSCREWS SHALL BE UTILIZED IN EXPOSED APPLICATIONS UNDER WALL MOUNTED LAVATORIES AND SINKS AND ON EXPOSED PIPING APPLICATIONS ON TANK TYPE WATER CLOSET STOPS AND ON EXPOSED PIPING TO FLUSH VALVES, ETC. LIGHT DUTY SLIP-ON TYPE MAY BE UTILIZED IN CONCEALED INSTALLATIONS WITHIN CABINETS. USE DEEP-PATTERN ESCUTCHEONS IF REQUIRED TO CONCEAL PROTRUDING FITTINGS.
J. PROVIDE AND INSTALL BRAIDED STAINLESS STEEL FLEXIBLE SUPPLIES FOR ALL WATER PIPING FROM SHUT-OFF VALVE, TO APPLICABLE FIXTURES. END CONNECTIONS AND LENGTH TO MATCH EACH APPLICATION. PROVIDE FOR ALL TANK TYPE WATER CLOSETS, LAVATORIES, SINKS, EDF'S, WATER HEATERS, ICE MAKERS, WASHERS, ETC. PROVIDE NEAT INSULATION PACKAGE, AS TRUEBO, ON ADA SINKS AND LAVATORIES WATER AND WASTE PIPING EXPOSED APPLICATIONS.
K. PROVIDE AND INSTALL NEW FLOOR MOUNTED, CONCEALED IN WALL, CARRIERS FOR ALL WALL MOUNTED SINKS, LAVATORIES, EDF'S, WATER CLOSETS, URINALS, ETC. WHERE SINK, LAVATORY, EDF OR URINAL CARRIERS ARE INSTALLED IN WALLS LESS THAN 4", AND WASTE ARMS CAN INTERFERE WITH AVAILABLE SPACES, USE CARRIER WITH INTEGRAL PASS THRU SLEEVE AS SMITH FIG 0710-TAB-WL, OR EQUAL.

EXECUTION

INSPECTION

A. VERIFY THAT CONDITIONS ARE SATISFACTORY FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT. NOTIFY ARCHITECT IF CONDITIONS ARE NOT SATISFACTORY AND DO NOT COMMENCE WORK UNTIL CONDITIONS HAVE BEEN CORRECTED.

INSTALLATION

A. ALL EQUIPMENT AND SYSTEM COMPONENTS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. REPAIR ALL DAMAGED FINISHES. INSTALL ALL EQUIPMENT AND SYSTEMS PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. ALL EQUIPMENT MUST BE ANCHORED TO THE BUILDING. ALL HUNG EQUIPMENT SHALL INCORPORATE VIBRATION ISOLATION.

PROTECTION OF WORK DURING CONSTRUCTION

A. PROTECT FROM DAMAGE, WATER, DUST, ETC., MATERIAL, EQUIPMENT AND APPARATUS PROVIDED UNDER THIS DIVISION, BOTH IN STORAGE AND INSTALLED, UNTIL SUBSTANTIAL COMPLETION HAS BEEN FILED. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. COVER MOTORS AND OTHER MOVING MACHINERY TO PROTECT FROM DIRT AND WATER DURING CONSTRUCTION.
B. MATERIAL, EQUIPMENT, OR APPARATUS DAMAGED BECAUSE OF IMPROPER STORAGE OR PROTECTION WILL BE REJECTED. REMOVE DAMAGED MATERIAL, EQUIPMENT OR APPARATUS FROM SITE AND PROVIDE NEW, DUPLICATE, MATERIAL, EQUIPMENT, OR APPARATUS IN REPLACEMENT OF THAT REJECTED. POROUS MATERIALS, SUCH AS PIPE INSULATION, SHALL BE PROTECTED FROM WEATHER. IF SUCH MATERIAL BECOMES WET DURING CONSTRUCTION, IT SHALL BE REMOVED AND REPLACED AT NO COST TO OWNER; DRYING IS NOT SUFFICIENT DUE TO POSSIBLE MICROBIAL CONTAMINATION.
C. PROTECT OTHER MISCELLANEOUS EQUIPMENT, PIPING, ETC. DURING CONSTRUCTION. WHERE INADVERTENT DAMAGE OCCURS, RESTORE TO CONDITION SIMILAR TO THAT BEFORE DAMAGE. INSPECT EACH PIECE OF PIPE, TUBING, FITTINGS, AND EQUIPMENT FOR DEFECTS AND OBSTRUCTIONS. PROMPTLY REMOVE ALL DEFECTIVE MATERIALS FROM THE SITE. INSTALL PIPES TO CLEAR ALL BEAMS AND OBSTRUCTIONS. DO NOT CUT INTO ANY STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

PIPING

A. ALL GRAVITY PIPING SHALL SLOPE AT PER THE INTERNATIONAL PLUMBING CODE.
B. INSTALL PIPES AND PIPE FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY LEAK RESISTANT PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. INSTALL EACH RUN WITH MINIMUM JOINTS AND COUPLINGS BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE/REPLACEMENT OF VALVES AND EQUIPMENT. REDUCE SIZES, WHERE INDICATED BY USE OF REDUCING FITTINGS. ALIGN PIPING ACCURATELY AT CONNECTIONS, WITHIN 1/16-INCH MISALIGNMENT TOLERANCE.
C. WHEREVER POSSIBLE, PIPING SHALL BE RUN IN BEAM BAYS BEFORE OFFSETTING TO BELOW A BEAM. VERIFY ALL INVERT ELEVATIONS AND PITCHED LINES BEFORE STARTING WORK. COORDINATE ALL PIPE RUNS BELOW SLAB AT FLOOR WITH THE GENERAL CONTRACTOR. VERTICAL PIPE PENETRATIONS OF THE STRUCTURAL FOUNDATION ARE NOT PERMITTED. PIPING SHALL BE OFFSET HORIZONTALLY BELOW TOP OF SLAB AND ABOVE TOP OF FOUNDATION. PIPING SHALL BE WRAPPED WITH ½" LAYER OF INSULATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS IN REGARDS TO LOCATIONS OF SLEEVES THROUGH GRADE BEAMS.

<u>EXECUTION (CONTINUED)</u>

VALVES

A. FOR VALVES IN MULTIPLE PARALLEL RUNS OF PIPING, PROVIDE 4" CLEARANCE BETWEEN VALVE HANDLE AND ADJACENT PIPE, OR INSULATION. INSTALL VALVE HANDLES IN HORIZONTAL POSITION BETWEEN PIPES. DO NOT INSTALL VALVE HANDLES ON TOP OF PIPE.
B. INSTALL VALVES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PROVIDE ALL VALVES (EXCEPT CONTROL VALVES), STRAINERS, AND CHECK VALVES OF SAME SIZE AS THE PIPES IN WHICH THEY ARE INSTALLED UNLESS OTHERWISE INDICATED. PRESSURE RATING OF VALVES SAME AS PIPING IN WHICH INSTALLED.
C. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. INSTALL VALVES WITH CAST DIRECTIONAL ARROWS IN DIRECTION OF FLOW.
D. LOCATE WHEEL HANDLES TO CLEAR OBSTRUCTIONS WITH HAND. INSTALL VALVES ONLY IN ACCESSIBLE LOCATIONS. LOCATE EQUIPMENT SHUT-OFF VALVES TO BE ACCESSIBLE WITHOUT CLIMBING OVER EQUIPMENT. PROVIDE OPEN-ENDED LINE VALVES WITH PLUGS OR BLIND FLANGES.

EQUIPMENT AND PIPING IDENTIFICATION

A. EQUIPMENT.
   1. ALL PLUMBING EQUIPMENT SHALL BE IDENTIFIED BY NAMEPLATES SECURELY FASTENED IN A CLEARLY VISIBLE LOCATION TO THE EQUIPMENT HOUSING OR FRAME. NAMEPLATES SHALL INCLUDE THE EQUIPMENT DESIGN PLAN MARK, MODEL NUMBER AND SERIAL NUMBER. NAMEPLATES SHALL BE 2-1/2" X 3/4" MINIMUM, EITHER 1/16" THICK BAKELITE WITH ENGRAVED WHITE CORE LETTERS AND BEVELED EDGE OR ALUMINUM WITH BLACK ENAMELED BACKGROUND AND ETCHED OR ENGRAVED NATURAL ALUMINUM LETTERING. MANUFACTURER'S NAMEPLATE SHALL BE CLEAN AND LEGIBLE AND INSTALLED IN A CLEARLY VISIBLE LOCATION.
B. PIPING.
   1. IDENTIFY PIPING WITH SYMBOL IDENTIFICATION, DIRECTION OF FLOW ARROWS AND SPECIFIC PRESSURE ZONES, COMPLYING WITH ANSI A 13.1 COLOR STANDARDS.
   2. IDENTIFY PIPING AT APPROXIMATELY 25' CENTERS WHERE UNCONCEALED. CONCEALED PIPING ABOVE INACCESSIBLE CEILINGS SHALL BE IDENTIFIED AT EACH ACCESS PANEL. CONCEALED PIPING ABOVE ACCESSIBLE CEILINGS SHALL BE IDENTIFIED WITHIN 10 FEET OF EACH WALL PENETRATION (BOTH SIDES OF WALLS).
   3. PRINTED LABELS WITH COLORED BACKGROUND AND ATTACHING STRAP: SETON, W. BRADY, OR EQUAL.
C. BURIED UTILITY WARNING AND IDENTIFICATION TAPE.
   1. SETON, BRADY, OR EQUAL.
   2. POLYETHYLENE PLASTIC TAPE MANUFACTURED SPECIFICALLY FOR WARNING AND IDENTIFICATION OF BURIED PIPELINES. CODE AND LETTER COLORING SHALL BE PERMANENT, UNAFFECTED BY MOISTURE AND OTHER SUBSTANCES CONTAINED IN TRENCH BACKFILL MATERIAL.
   3. INSTALL TAPE 12" ABOVE TOP OF PIPE DURING BACKFILLING OF TRENCH.

CLEANING

A. DURING CONSTRUCTION: KEEP OPENINGS IN PIPING CLOSED TO PREVENT ENTRANCE OF FOREIGN MATTER. CLEAN PIPE, FITTINGS, AND VALVES INTERNALLY.
B. CLEAN PLUMBING FIXTURES WITH SOAP AND WATER. REMOVE MARKS AND LABELS. CLEAN AND POLISH CHROME, REMOVE PAINT, CONCRETE, PLASTER, AND OTHER FOREIGN MATERIALS.
C. CLEAN ALL DRAINS, AND TANKS, OF DIRT AND DEBRIS.
D. REMOVE SHIPPING PAPER FROM CLEANOUT COVERS AND DRAIN STRAINERS AND POLISH.
E. REMOVE AND CLEAN OUT ALL DIRT AND DEBRIS FROM PIPE SPACES, INCLUDING ALL WIRE, AND BLOCKING.
F. ALL EQUIPMENT AND MATERIALS FURNISHED BY THIS SECTION SHALL BE COMPLETELY DUST AND PAINT FREE, CLEAN, AND RUST FREE AND FRESHLY PAINTED OR POLISHED WHEN THE FINAL INSPECTION IS MADE.
G. THOROUGHLY CLEAN AND FLUSH INTERIOR AND EXTERIOR OF ALL PIPING SYSTEMS (WET SYSTEMS, AND DRAINAGE SYSTEMS) OF ANY NATURE OF ALL PIPE CONTAMINATES SUCH AS CUTTINGS, FILLINGS, GREASE, SOLDER, FLUX AND WELDING RESIDUE.

EXCAVATING, TRENCHING, AND BACKFILLING

A. IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 31 FOR EXCAVATING, TRENCHING, AND BACKFILLING.
B. PROVIDE BARRICADES, SIGNS, LANTERNS, SHORING, SHEETING, AND PUMPING AS PART OF WORK IN THIS DIVISION AS REQUIRED TO ENSURE SAFE CONDITIONS. COMPLY WITH OSHA REQUIREMENTS.
C. DIG TRENCHES STRAIGHT, TRUE TO LINE AND GRADE WITH SIDES AND BOTTOMS SMOOTHED OF ANY ROCK POINTS. EXCAVATE 6 INCHES BELOW GRADE OF PIPE. FILL WITH SAND PROPERLY PACKED. SUPPORT PIPE FOR ENTIRE LENGTH ON PACKED SAND. SHAPE OR PACK BOTTOM OF TRENCHES FOR PIPE, DUCT FITTINGS, HUBS, COUPLINGS, ETC., USING TEMPLATES TO FIT OUTSIDE PERIPHERY OF LOWER THIRD OF PIPING AND DUCTWORK. PROVIDE PIPING OUTSIDE BUILDING WITH 36-INCH MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE. MINIMUM WIDTH 16 INCHES. PROVIDE IDENTIFICATION WIRE AND TAPE.
D. DISPOSE OF ALL SURPLUS EXCAVATION MATERIAL AND SEEPAGE WATER AS DIRECTED BY THE ARCHITECT.
E. BACKFILL.
   1. AFTER PIPING HAS BEEN INSTALLED, TESTED, AND APPROVED, BACKFILL ALL EXCAVATION, TAMP AND COMPACT BY MOTOR POWERED OR COMPRESSED AIR TAMPERS.
   2. BACKFILL TO 6-INCHES ABOVE CROWN OF PIPE WITH UNWASHED SAND, WITH REMAINDER OF TRENCH BACK-FILLED AND MECHANICALLY TAMPED IN 6-INCH MAXIMUM LAYERS OF SELECTED EXCAVATED MATERIALS, FREE FROM ORGANIC MATTER, ROCKS, ETC. PROVIDE 90-PERCENT COMPACTION IN ACCORDANCE WITH ASTM D 1557-58T; 95-PERCENT COMPACTION FOR TRENCHES BELOW BUILDING SLABS.
F. IN ANY ASPHALT OR CONCRETE PAVED AREAS, BACKFILL ONLY TO SUBGRADE LEVEL.
G. WHEN PIPING IS INSTALLED, PRIOR TO BACKFILLING, ADVISE ARCHITECT; DO NOT BACKFILL WITHOUT ACCEPTANCES OF ARCHITECT.
H. REPLACE TO ORIGINAL CONDITION ALL PAVING, CURBS, GUTTERS, WALKS, ETC., WHICH BECOME DISTURBED BY TRENCHING.

LEAKAGE TESTING

A. BEFORE CONDUCTING TESTS, VALVE-OFF OR DISCONNECT ANY EQUIPMENT AND APPARATUS WHICH MAY BE DAMAGED BY THE TEST PRESSURES HIGHER THAN NORMAL WORKING PRESSURES. ALL TESTING SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION.
B. SANITARY SOIL, WASTE, AND VENT PIPING: HYDROSTATICALLY TEST AND PROVE TIGHT, TO PROVIDE A MINIMUM 10-FOOT HEAD OF WATER, AND IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE.
C. STORM DRAIN PIPING: HYDROSTATICALLY TEST AND PROVE TIGHT, TO PROVIDE A MINIMUM 10-FOOT HEAD OF WATER, AND IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE.
D. DOMESTIC HOT WATER AND DOMESTIC COLD-WATER PIPING: TEST AND PROVE TIGHT UNDER 150 PSI HYDROSTATIC PRESSURE.
E. TRAP PRIMER PIPING: TEST AND PROVE TIGHT UNDER 50 PSI HYDROSTATIC PRESSURE.
F. NATURAL GAS PIPING: SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 54 REQUIREMENTS.
   1. INSPECT, TEST, AND PURGE PIPING ACCORDING TO ANSI Z223.1, PART 4 "INSPECTION, TESTING, AND PURGING" AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. ISOLATE PRESSURE REDUCING VALVES AND EQUIPMENT CONTROLS DURING TESTING. TEST PRESSURE TO BE 100 PSI FOR A PERIOD OF 24 HOURS WITH NO DROP IN PRESSURE.
G. APPLY TESTS FOR A MINIMUM PERIOD OF TWO (2) HOURS, UNLESS OTHERWISE HEREINBEFORE SPECIFIED, AND UNTIL TESTS ARE COMPLETE, IN THE OPINION OF THE INSPECTING AUTHORITY.
H. WORK MAY BE TESTED IN SECTIONS, IF NECESSARY, FOR CONVENIENCE. IN THIS CASE, TEST OF FIRST SECTION SHALL INCLUDE ALL CONNECTIONS BETWEEN PREVIOUSLY TESTED SECTIONS AND SECTION UNDER TEST.
I. FURNISH ALL LABOR AND ALL OTHER UTILITIES REQUIRED TO CONDUCT LEAKAGE TESTS.

<u>EXECUTION (CONTINUED)</u>

STERILIZATION

A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
   1. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
   2. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW:
      a. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
      b. FILL AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
         1) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
         2) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR THREE HOURS.
      c. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
      d. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
      e. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION.
B. CLEAN NON-POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
   1. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
   2. USE PURGING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR IF METHODS ARE NOT PRESCRIBED, FOLLOW PROCEDURES DESCRIBED BELOW:
      a. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
      b. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
C. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES. INCLUDE COPIES OF WATER-SAMPLE APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
D. CLEAN INTERIOR OF DOMESTIC WATER PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

TESTING, ADJUSTING, AND BALANCING (TAB)

A. THE FOLLOWING MINIMAL TAB SHALL BE PROVIDED, WITH REPORT AND INFORMATION SUBMITTED WITH CLOSEOUTS.
   1. MIXING VALVES INLET TEMPERATURE AND ADJUST TO DELIVER SPECIFIED OUTLET TEMPERATURES FOR EACH HEATER, APPLIANCE, AND FIXTURE. INCLUDE A NARRATIVE IN TAB REPORT INDICATING SAME.

POTABLE HOT WATER BALANCING AND VERIFICATION

A. THE MASTER AND POINT-OF-USE MIXING VALVES SHALL BE SET TO PROVIDE THE SCHEDULED TEMPERATURES ON THE DRAWINGS, OR DETAILS.
B. THE TAB SHALL INDICATE IN THE FINAL REPORT:
   1. TEMPERATURE SETPOINT OF WATER HEATER(S).
   2. TEMPERATURE AT OUTLET OF MASTER MIXING VALVE.
   3. TEPID TEMPERATURE AT ALL PLUMBING FIXTURES/APPLIANCES, AND SAFETY EQUIPMENT WITH HOT, OR TEPID TEMPERATURE SERVICE.

CLOSEOUTS

CLOSEOUTS SHALL BE SUBMITTED TO PROFESSIONAL WITHIN TWO (2) WEEKS OF NTP. ONE HARD COPY OF CLOSEOUTS AND TWO (2) SETS ON FLASH DRIVE. CLOSEOUTS SHALL INCLUDE:

1. O&M MANUALS
2. RECORD DRAWINGS
3. COPY OF APPROVED SUBMITTALS
4. TAB COMPLETE REPORT
5. EXTENDED WARRANTIES
6. PIPE TEST LOGS
7. ATTIC STOCK
8. CONTROL AS-BUILTS
9. OWNER TRAINING DOCUMENTATION
10. SEE OTHERS ON CHECKLIST SCHEDULE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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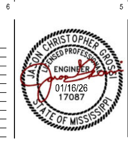
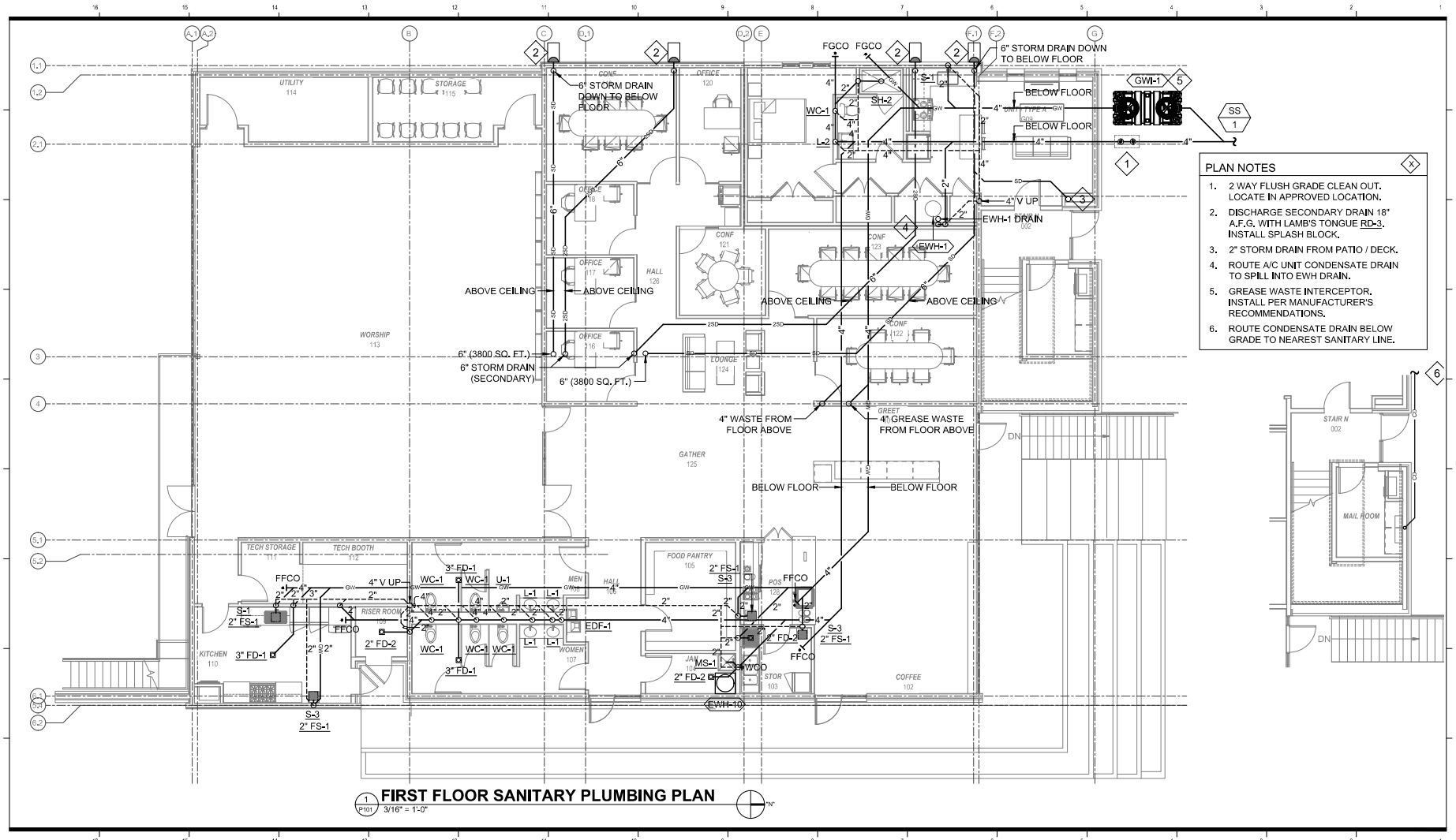


PLUMBING SPECIFICATIONS

P003



FIRST FLOOR SANITARY PLUMBING PLAN

1 P101 3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
ELECTRICAL
CHRIS GREEN
DEVELOPER
WALKER THRASH
STRUCTURAL
MIKE GODFREY
LANDSCAPE
AUSTIN LOVETT
CIVIL ENGINEERING
SHELBY MURRAY

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24,121

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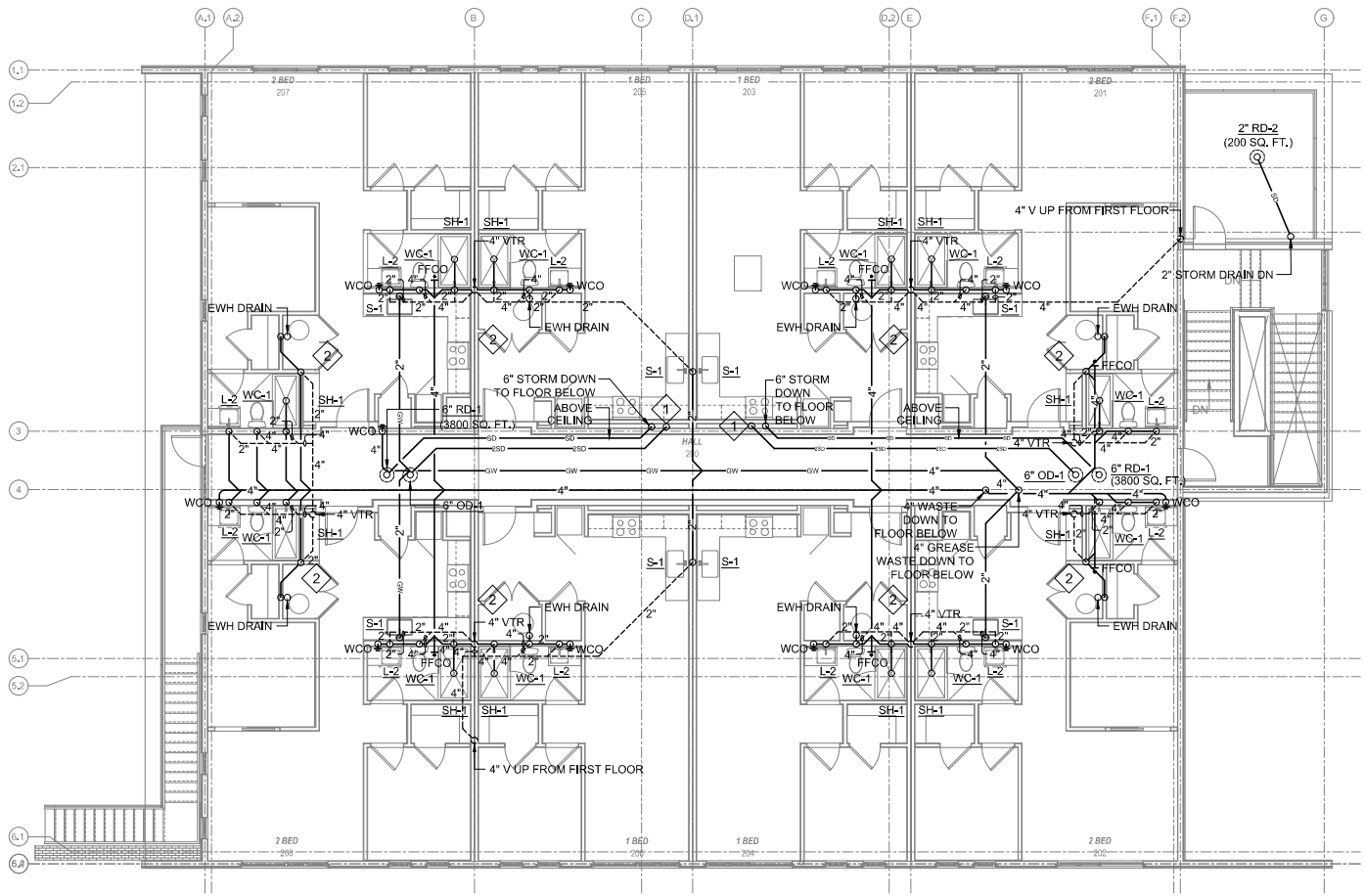
FIRST FLOOR SANITARY PLUMBING PLAN

P101



PLAN NOTES

1. 6" SECONDARY DRAIN DOWN TO FLOOR BELOW.
2. ROUTE A/C UNIT CONDENSATE DRAIN TO SPILL INTO EWH DRAIN.

SECOND FLOOR SANITARY PLUMBING PLAN

1 P102 3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@kemstudio.com
601.265.3952
STRUCTURAL
NIKE GODFREY
nikeshelterwerk@comcast.net
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
shelby@kempsonengineers.com
601.261.2828
ELECTRICAL
CHRIS GREEN
cgreen@thepowerstudio.us
601.265.4800
LANDSCAPE
AUSTIN LOVITT
austin@vitrolandscapefor.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@ucmtrusts.com
601.370.4481

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24,121

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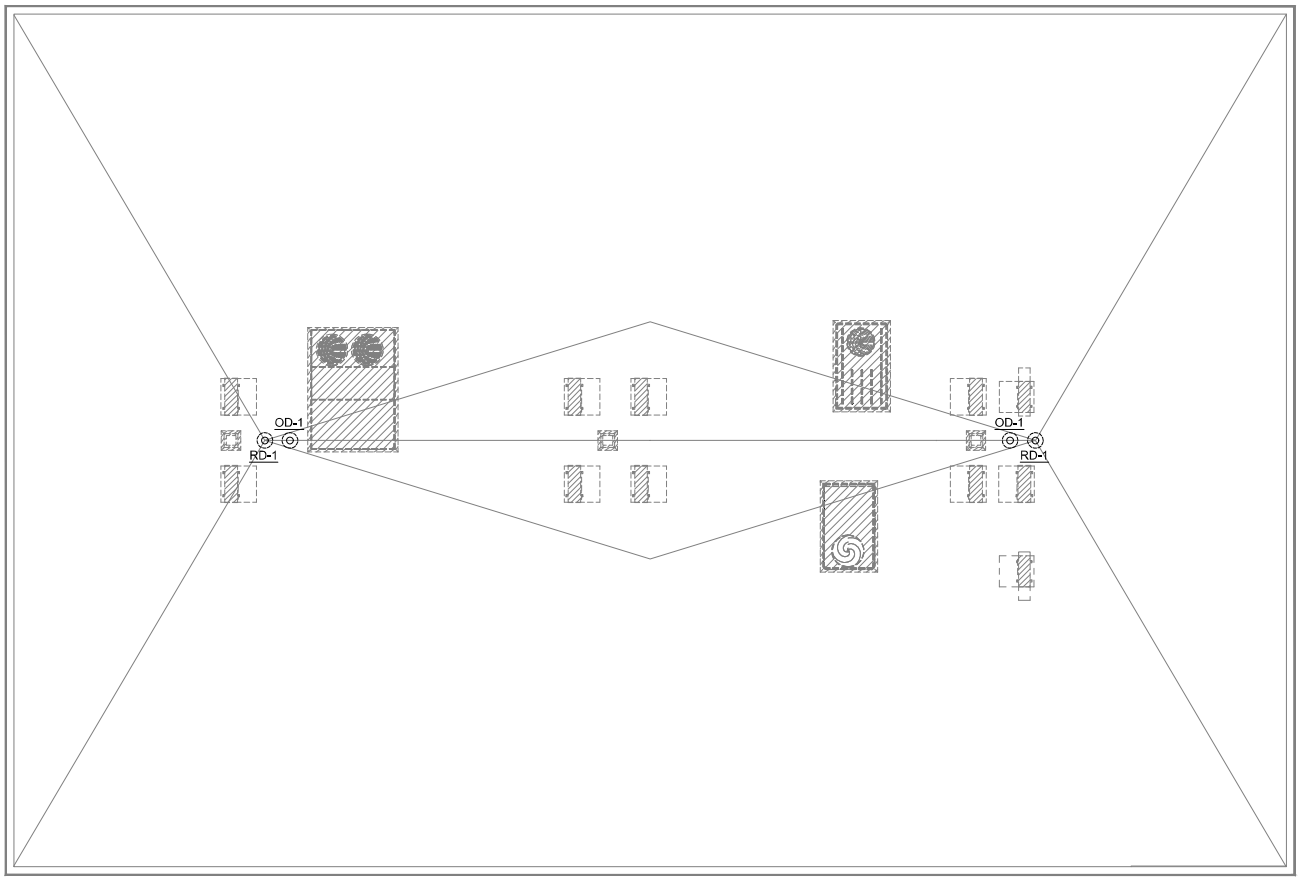
SECOND FLOOR SANITARY PLUMBING PLAN

P102



1 P103 **ROOF SANITARY PLUMBING PLAN**
3/16" = 1'-0"

"N"

GENERAL NOTES

A. ROUTE RTU AND HP UNIT CONDENSATE TO SPILL INTO NEAREST ROOF DRAIN.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@ergmg.com
601.262.2552
STRUCTURAL
MIKE GODFREY
secondnorman@econstat.net
601.345.9055
CIVIL ENGINEERING
SHELBY MURRAY
shelby@dragonengineers.com
601.261.2009
ELECTRICAL
CHRIS GREEN
cgreen@dragonresources.us
601.605.4820
LANDSCAPE
AUSTIN LOVETT
austin.lovett@wellnshaffer.com
601.545.1085
DEVELOPER
WALKER THRASH
walker@ornstudio.com
601.219.4412

ERG
ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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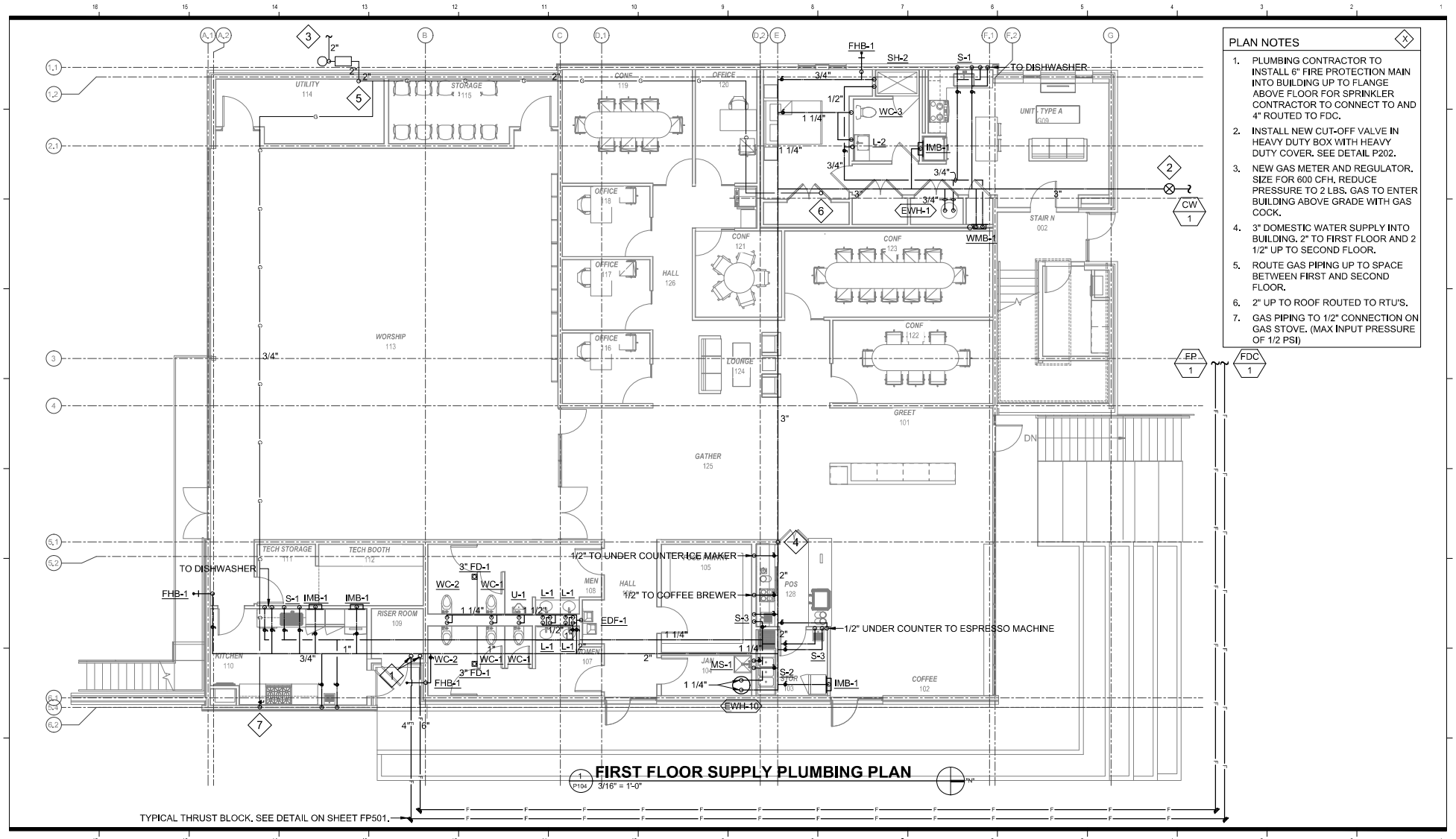
ROOF SANITARY PLUMBING PLAN

P103



KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@ergeng.com
601.362.3302
STRUCTURAL
MIKE GODFREY
mikegodfrey@comcast.net
601.345.7033
CIVIL ENGINEERING
SHELBY MURRAY
shelby@dreamengineers.com
601.201.2009
ELECTRICAL
CHRIS GREEN
cgreen@hpgcresources.us
601.960.4600
LANDSCAPE
AUSTIN LOVETT
austin.lovett@shaffe.com
601.345.1085
DEVELOPER
WALKER THRASH
walker@vertexbuilt.com
601.317.4402

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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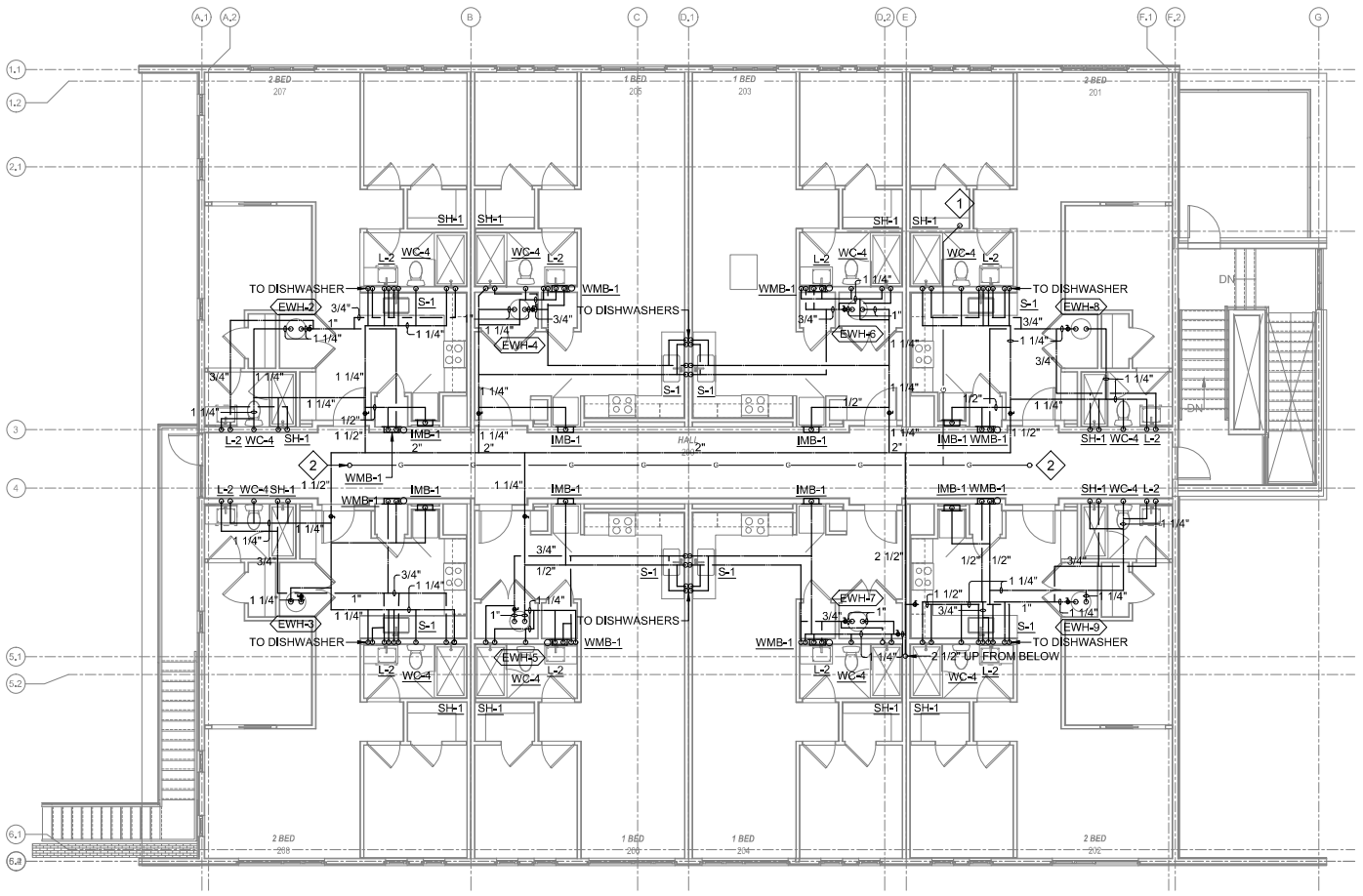
FIRST FLOOR SUPPLY PLUMBING PLAN

P104



PLAN NOTES

1. ROUTE GAS PIPING UP TO SPACE ABOVE SECOND FLOOR.
2. 2" GAS PIPING UP TO ROOF ROUTED TO RTU'S.

1 P105 SECOND FLOOR SUPPLY PLUMBING PLAN

3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSS
jgrosss@kemstudio.com
601.265.3952

STRUCTURAL
NIKE GODFREY
nikeinkeinnovation@comcast.net
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@kemstudio.com
601.265.1955

ELECTRICAL
CHRIS GREEN
cgreen@hopkinsinnovation.us
601.265.4800

LANDSCAPE
AUSTIN LOVITT
austin@hopkinsinnovation.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@kemstudio.com
601.265.4480

ERG
ERG P.N. 24,121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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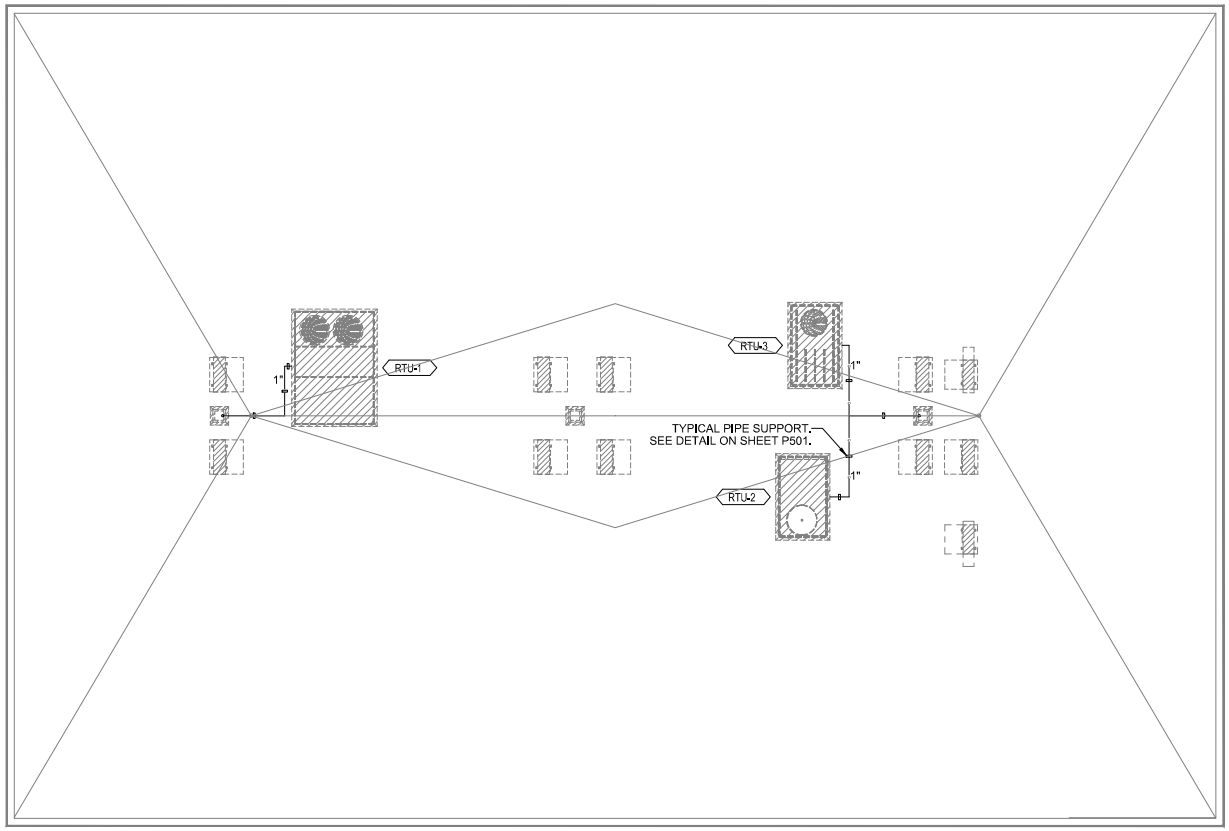
SECOND FLOOR SUPPLY PLUMBING PLAN

P105



1 P106 **ROOF SUPPLY PLUMBING PLAN**
3/16" = 1'-0"

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
jgross@kemstudio.com
601.265.3952
STRUCTURAL
NIKE GODFREY
nikeinstructure@comcast.net
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
shelby@kempsmithengineers.com
601.261.2828
ELECTRICAL
CHRIS GREEN
cgreen@kempsmithengineers.com
601.265.4800
LANDSCAPE
AUSTIN LOVITT
austin@vmdesignsoftwater.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@ucmdesig.com
601.270.4480

ERG
ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
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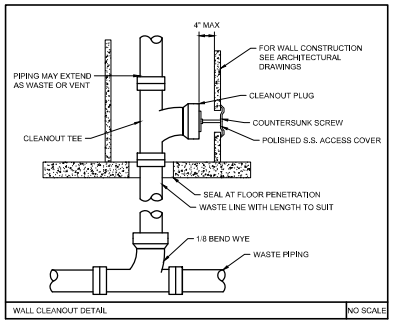
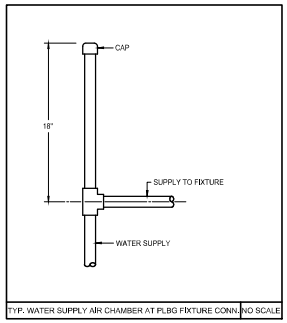
ROOF SUPPLY PLUMBING PLAN

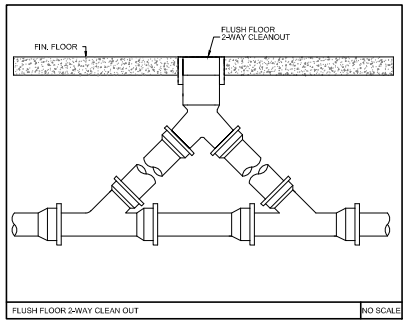
P106



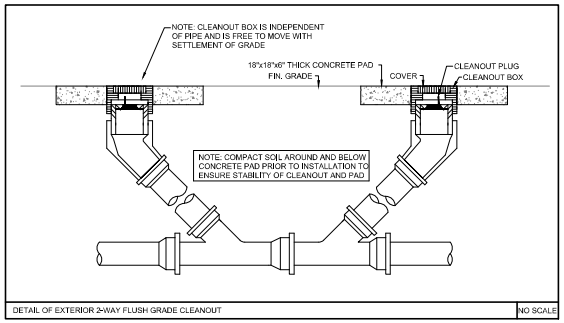
WALL CLEANOUT DETAIL — NO SCALE



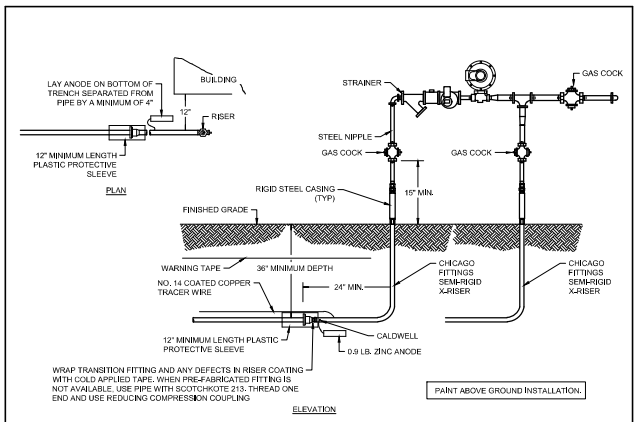
TYP. WATER SUPPLY AIR CHAMBER AT PLBG FIXTURE CONN. — NO SCALE



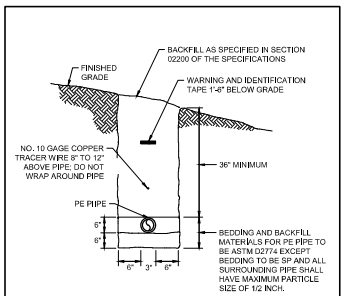
FLUSH FLOOR 2-WAY CLEAN OUT — NO SCALE



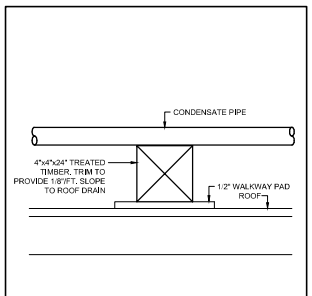
DETAIL OF EXTERIOR 2-WAY FLUSH GRADE CLEANOUT — NO SCALE



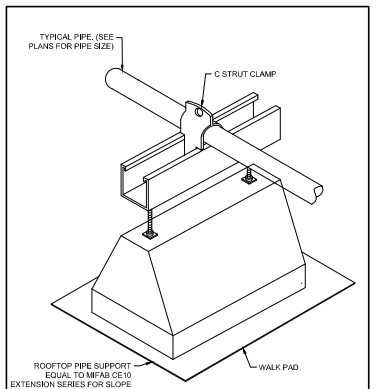
GAS METER DETAIL — NO SCALE



PE GAS MAIN INSTALLATION DETAIL — NO SCALE



ROOFTOP CONDENSATE PIPE SUPPORT DETAIL — NO SCALE



NOTE:
1. SUPPORTS FOR GAS PIPING SHALL BE EQUAL TO MIFAB C6 SERIES.
2. ALL WALK PADS SHALL BE OF PETROLEUM ASPHALT MATERIALS OR OF SIMILAR MATERIAL AND SHALL BE 16"x16" AS CAREY TREAD TO FIELD CUT TO MATCH SIZES AS INDICATED ON DRAWINGS. WALK PAD TO BE COORDINATED WITH ROOF MANUFACTURER TO ENSURE WARRANTIES ARE NOT VOIDED BEFORE SUBMITTING.
3. SUPPORTS SHALL BE INSTALLED WITHIN 3' OF EQUIPMENT CONNECTOR OR OFFSET.
4. SUPPORTS SHALL BE SPACED 4' OC FOR 2" PIPING AND SMALLER.
5. SUPPORTS SHALL BE SPACED 6' OC FOR PIPING LARGER THAN 2".

ROOF PIPE SUPPORT DETAIL — NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.3502
STRUCTURAL
MIKE GODFREY
mikeg@godfreyandassociates.net
601.264.1668
CIVIL ENGINEERING
SHELBY MURRAH
smurrah@pearsonengineers.com
601.261.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.264.4870
LANDSCAPE
AUSTIN LOVETT
austinlovett@steelehoffer.com
601.264.1668
DEVELOPER
WALKER THRASH
walker@usmhealth.com
601.270.4487

ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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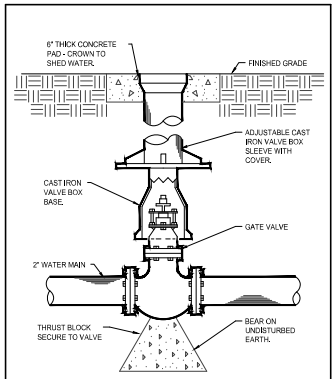
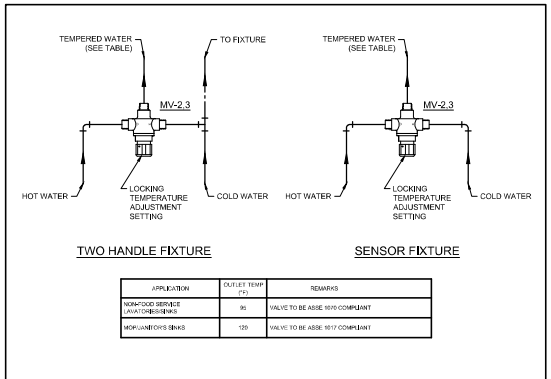
PLUMBING DETAILS

P501

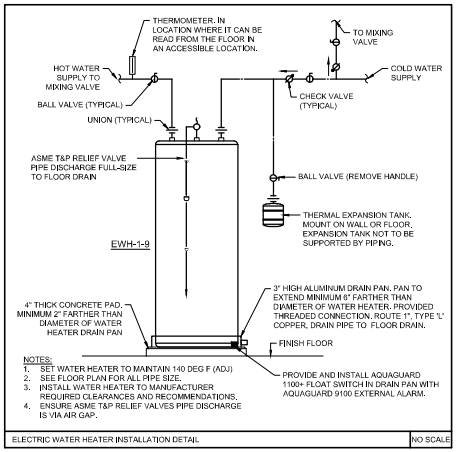


CUT-OFF VALVE IN HEAVY DUTY BOX DETAIL — NO SCALE

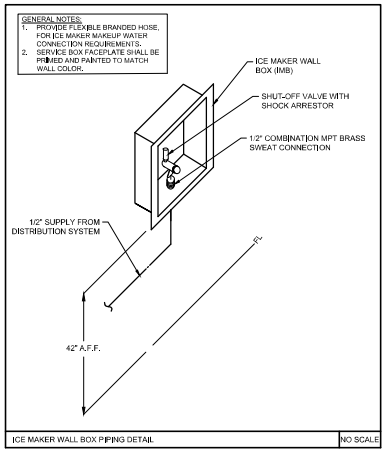


APPLICATION	OUTLET TEMP (°F)	REMARKS
NON-FOOD SERVICE LAVATORY SINKS	95	VALVE TO BE ASSE 1070 COMPLIANT
MOP/JANITOR'S SINKS	120	VALVE TO BE ASSE 1017 COMPLIANT

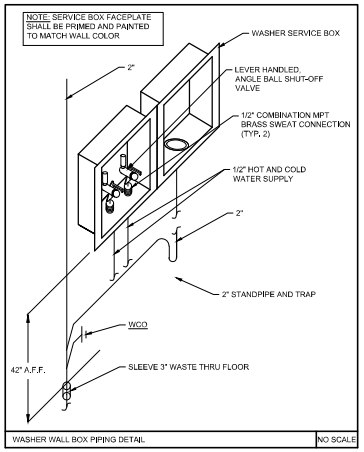
POINT OF USE MIXING VALVE DETAIL — NO SCALE



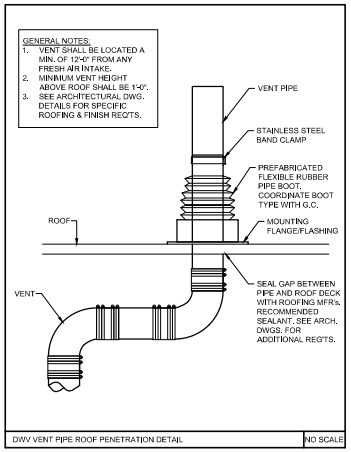
ELECTRIC WATER HEATER INSTALLATION DETAIL — NO SCALE



ICE MAKER WALL BOX PIPING DETAIL — NO SCALE



WASHER WALL BOX PIPING DETAIL — NO SCALE



DWV VENT PIPE ROOF PENETRATION DETAIL — NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.2502

ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.265.2502

DEVELOPER
WALKER THRASH
walker@usmlife.com
601.270.4481

STRUCTURAL
NIKE GODFREY
ngodfrey@jamesdnut.com
601.264.1455

LANDSCAPE
AUSTIN LOVETT
austinl@dwellscheffler.com
601.264.1455

CIVIL ENGINEERING
SHELBY MURRAY
smurray@dwpconsulting-inc.com
601.371.3308

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24,121

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PLUMBING DETAILS

P502

SPECIFICATION NOTES

(1) 4" FPT inlet/outlet with 4" plain end fittings
(2) Unit weight: 390 lbs. For wet weight, add 4254 lbs. For traffic-rated cover(s), add 90 lbs per cover. For pedestrian cover(s), add 7 lbs per cover.
(3) Maximum operating temperature: 150º F continuous
(4) Liquid Capacity: 510 gal
Grease Capacity (100 GPM): 3,271 lbs (448 gal)
Grease Capacity (200 GPM): 2,969 lbs (407 gal)
Solids Capacity: 102 gal
(5) This unit does not require flow control for 100 GPM and 200 GPM applications
(6) For gravity drainage applications only
(7) Do not use for pressure applications
(8) Cover placement allows full access to tank for proper maintenance
(9) Vent not required unless per local code
(10) Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping
(11) Integral air relief / Anti-siphon / Sampling access
(12) Cover adapters provide an adjustable height range of 5"
(13) Designed for below-grade, above-grade, indoor or outdoor installations
(14) Safety Star® (450 lbs load capacity) is an access restrictor built into each cover adapter to prevent accidental entry into tanks

CERTIFIED PERFORMANCE

Great Basin® hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

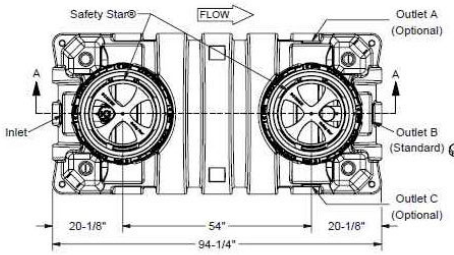
ENGINEER SPECIFICATION GUIDE

Schier Great Basin® grease interceptor model GB-500 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 7/16" uniform wall thickness. Flow control cartridge shall be PVC. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter and Safety Star® access restrictor built into each cover adapter, and three outlet options. This unit is certified for hydromechanical performance to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 100 GPM or 200 GPM. Interceptor grease capacity shall be 3,271 lbs @ 100 GPM or 2,969 lbs @ 200 GPM.

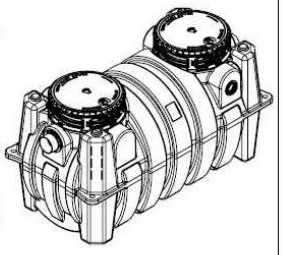
COVERS SOLD SEPARATELY

This unit is provided with temporary cover(s) intended for the duration of jobsite installation. Purchase one of the following finish covers.

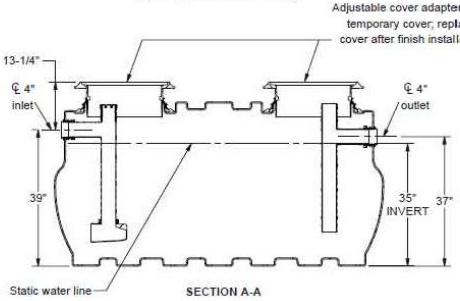
- T24-GI (8044-000-01): Traffic-rated cast iron cover shall provide water/gas-tight seal and have a minimum of 16,000 lbs load capacity. For outdoor installation.
- P24-GI (8045-000-01): Pedestrian-rated poly cover shall provide water/gas-tight seal and have a minimum of 2,000 lbs load capacity. For indoor installation.



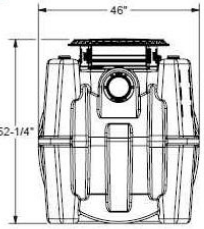
TOP VIEW
(COVER(S) REMOVED FOR CLARITY)



ISOMETRIC VIEW



SECTION A-A



INLET END VIEW

SPECIFICATION SHEET

MODEL NUMBER	GB-500
PART NUMBER	4075-300-02
DESCRIPTION	GB-500 GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS
DRAWN BY	G.HEIDE
DATE	08/11/2025 REV A ECO 00143

SCHIER
6455 Woodland Dr
Shawnee, KS 66218
tel: 913-951-3300
fax: 913-951-3399
schierproducts.com
Made in the U.S.A.

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GWI-1 GREASE INTERCEPTOR DETAIL — NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t: 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@kempm.com
601.265.2552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.265.4455

DEVELOPER
WALKER THRASH
walker@scottrealty.com
601.270.4487

STRUCTURAL
MAX GODFREY
maxcmedonnell@comcast.net
601.265.1955

LANDSCAPE
AUSTIN LOVETT
austinalovett@weatherfield.com
601.265.1955

CIVIL ENGINEERING
SHELBY MURRAY
shelby@dukepointengineers.com
601.271.2208

ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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CHRISTOPHER GROSS LICENSED PROFESSIONAL ENGINEER 01/16/26 17087 STATE OF MISSISSIPPI

PLUMBING DETAILS

P503

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MAKE AND MODEL	MIXING VALVE	ELECTRICAL V/PH	REMARKS
WC-1	WATER CLOSET (WALL MOUNTED, FLUSH VALVE)	PROFLO PF1731	--	--	1.28 GPF, MODIFY HEIGHT OF FLUSH VALVE AS REQUIRED FOR HANDRAIL, TRAP PRIMER AS REQUIRED, OPEN FRONT WHITE SEAT, SELF-SUSTAINING HINGES W/S.S. POST AND PINTLES, FLOOR MOUNTED CARRIER, POWER CONVERTER
	FLUSH VALVE (BATTERY POWERED SENSOR)	AMERICAN STANDARD 6065.111.002	--	120/1	
	SEAT	BEMIS 1055SSC, AMERICAN STANDARD 5901.100SS, ZURN Z5955SS-EL-STS	--	--	
	CARRIER	J.R. SMITH, WADE, ZURN	--	--	
WC-2	WATER CLOSET (WALL MOUNTED, FLUSH VALVE, A.D.A.)	PROFLO PF1731	--	--	1.28 GPF, TRAP PRIMER AS REQUIRED, OPEN FRONT WHITE SEAT, SELF-SUSTAINING HINGES W/S.S. POST AND PINTLES, FLOOR MOUNTED CARRIER, POWER CONVERTER
	FLUSH VALVE (BATTERY POWERED SENSOR)	AMERICAN STANDARD 6065.111.002	--	120/1	
	SEAT	BEMIS 1055SSC, AMERICAN STANDARD 5901.100SS, ZURN Z5955SS-EL-STS	--	--	
	CARRIER	J.R. SMITH, WADE, ZURN	--	--	
WC-3	WATER CLOSET (FLOOR MOUNTED, TANK TYPE, A.D.A.)	SLOAN WETS-4029		--	1.28 GPF, OPEN FRONT WHITE SEAT, SELF-SUSTAINING HINGES W/S.S. POST AND PINTLES, MINIMUM 1000G MaP FLUSH SCORE
	SEAT	BEMIS 1055SSC, AMERICAN STANDARD 5901.100SS		--	
WC-4	WATER CLOSET (FLOOR MOUNTED, TANK TYPE)	SLOAN WETS-4029		--	1.28 GPF, OPEN FRONT WHITE SEAT, SELF-SUSTAINING HINGES W/S.S. POST AND PINTLES, MINIMUM 1000G MaP FLUSH SCORE
	SEAT	BEMIS 1055SSC, AMERICAN STANDARD 5901.100SS		--	
U-1	URINAL	AMERICAN STANDARD 6590.001	--	--	0.5 GPF, SEE ARCHITECTURAL PLANS FOR A.D.A. URINALS, FLOOR MOUNTED CARRIERS
	FLUSH VALVE (BATTERY OPERATED)	AMERICAN STANDARD 6063051.002	--	--	
	CARRIER	J.R. SMITH, WADE, ZURN	--	--	
L-1	LAVATORY (UNDER COUNTER MOUNTED, OVAL)	SLOAN SS-3001, KOHLER K-2210, AMERICAN STANDARD 0496.221	--	--	FITS STANDARD 17x14" OVAL OPENING, 0.5 GPM, A.D.A COMPLIANT, PROVIDE WITH 4" DECK PLATE, FINISH PER ARCHITECT
	FAUCET (BATTERY OPERATED)	DELTA DEMD-211LF	YES	--	
L-2	LAVATORY (UNDER COUNTER MOUNTED, RECTANGULAR)	SLOAN SS-3021, KOHLER K-20000-0, AMERICAN STANDARD 0614.000	--	--	NOMINAL 21-5/8" L x 15-3/4" W x 8-1/4" D, 0.5 GPM, A.D.A COMPLIANT, PROVIDE WITH 4" DECK PLATE, FINISH PER ARCHITECT
	FAUCET (BATTERY OPERATED)	DELTA DEMD-211LF	YES	--	
S-1	STAINLESS STEEL SINGLE COMPARTMENT SINK (DROP IN)	ELKAY DLR252210	--	--	1.5 GPM, A.D.A. COMPLIANT, (4" CENTERS, MAX 2.5" THICK COUNTERTOP), CERAMIC STRUCTURES, ESCUTCHEON
	FAUCET (SWING SPOUT, ABOVE DECK, SINGLE HANDLE)	DELTA 100LF-HDF, KOHLER K-30613-CP, MOEN 7423	YES	--	
S-2	STAINLESS STEEL THREE COMPARTMENT SINK WITH DRAINBOARD AND STAINLESS STEEL LEGS	ELKAY 3C10X14-2-16X	--	--	
	FAUCET (TUBE SPOUT)	DELTA 28C6934	YES	--	
S-3	STAINLESS STEEL SINGLE COMPART. SINK (UNDERMOUNT)	ELKAY ELUH2317PD	--	--	**1.5 GPM, A.D.A. COMPLIANT, DECK MOUNTED (4" CENTERS, MAX 2.5" THICK COUNTERTOP), ESCUTCHEON**
	FAUCET (SWING SPOUT, ABOVE DECK, SINGLE HANDLE)	DELTA 100LF-HDF, KOHLER K-30613-CP, MOEN 7423	YES	--	
SH-1	ONE-PIECE ACRYLIC SHOWER	AQUATIC 6030BFSC (60"W x 36"D x 78-7/8"H)	--	--	HEAD (1.75 GPM AT 80 PSI), WAND (1.75 GPM/80 PSI), U4993-PK SHOWER ARM/FLANGE, A.D.A. COMPLIANT, R10700-UNWS ROUGH-IN VALVE, INSTALL GROUT SUPPORT UNDER SHOWER, SEAT.
	TRIM (SINGLE HANDLE)	DELTA T13H303-20 WITH RP70175PR HEAD AND 59462-B18-PK WAND	YES	--	
SH-2	ONE-PIECE ACRYLIC SHOWER	AQUATIC 6030BFSC (60"W x 36"D x 78-7/8"H)	--	--	HEAD (1.75 GPM/80 PSI), WAND (1.75 GPM/80 PSI), U4993-PK ARM/ FLANGE, A.D.A. COMPLIANT, R10700-UNWS VALVE, 2" SUREFIT SHOWER DRAIN, INSTALL GROUT SUPPORT UNDER SHOWER, SEAT.
	TRIM (SINGLE HANDLE, A.D.A.)	DELTA T13H303-20 WITH RP70175PR HEAD AND 59462-B18-PK WAND	YES	--	
MS-1	MOP SINK, FLOOR MOUNTED, SQUARE	STERN WILLIAMS MTB-2424	--	--	TERAZZO, 24"W x 24"L x 10"H, 24" H BACK AND SIDE PANEL, ALUMINUM BUMPER GUARD, 30" HOSE AND WALL BRACKET, S.S. MOP HANGER, CHECK VALVES ON HOT AND COLD WATER LINES.
	SINK FAUCET WALLMOUNT	DELTA 28C9LH	YES	--	
EDF-1	ELECTRIC DRINKING FOUNTAIN (BI-LEVEL W/BOTTLE FILLER)	ELKAY EZSTL8WSSK	--	120/1 (6A)	STAINLESS STEEL, NON-FILTERED, A.D.A., PROVIDE WITH FLOOR MOUNTED CARRIER
FHB-1	FREEZEPROOF HOSE BIBB, WALL MOUNTED	ZURN Z1320-CXL-WC, WOODFORD B65	--	--	VACUUM BREAKER, BRASS FINISH, WALL CLAMP
WMB-1	WASHING MACHINE BOX	GUY GRAY WB200	--	--	--
IMB-1	ICE MACHINE BOX	GUY GRAY 88133	--	--	--
TP-1	TRAP PRIMER	ZURN Z1021	--	--	CONNECT TO WATER CLOSET FLUSH VALVE ASSEMBLY.
FD-1	SQUARE FLOOR DRAIN	ZURN ZN415S(-P)	--	--	6x6" SQUARE WITH SURE SEAL TRAP GUARD OR WITH TRAP PRIMER AS SHOWN ON PLANS
FD-2	FLOOR DRAIN W/RECESSED RIM	ZURN ZN415I	--	--	7-3/8" DIAMETER WITH SURE SEAL TRAP GUARD
FS-1	FLOOR SINK (8"x8"x6" WITH 3/4 GRATE)	ZURN ZN1910-3	--	--	CAST IRON BODY AND SQUARE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP
RD-1	ROOF DRAIN, COMBO PRIMARY / SECONDARY	ZURN Z164	--	--	12" DIAMETER, CAST IRON DOME
RD-2	DECK DRAIN, PRIMARY	ZURN Z158	--	--	12" DIAMETER, CAST IRON DOME
RD-3	DOWNSPOUT NOZZLE	ZURN ZANB199-SS, RECTORSEAL G-O-N	--	--	NICKEL BRONZE BODY, STAINLESS STEEL SCREEN, ESCUTCHEON

GREASE TRAP

MARK	DESCRIPTION	MAKE	MODEL	FLOW RATE GPM	LIQUID CAPACITY (GAL)	SOLIDS CAPACITY (GAL)	INLET/ OUTLET SIZE	NO. OF COVERS	DIMENSIONS IN INCHES LENGTH	WIDTH	HEIGHT	WEIGHT IN LBS. DRY	WET	REMARKS
GWI-1	GREASE WASTE INTERCEPTOR	SCHIER	GB-500	100	510	128	4"	2	94.25	46	49.5	530	4,300	POLYETHYLENE, BUILT-IN FLOW CONTROL, BELOW-GRADE INSTALLATION, ADJUSTABLE COVER ADAPTERS FOR FLUSH GRADE INSTALLATION, ASME A112.14.3 (TYPE C) CERTIFIED, COVER TO HAVE MINIMUM 16,000 LBS LOAD CAPACITY

THERMOSTATIC MIXING VALVE SCHEDULE

MARK	DESCRIPTION	MAKE	MODEL	IN	OUT	MIN. FLOW (GPM)	FLOW / MAX PRESSURE DROP	REMARKS
MV-1	WATER HEATER	LEONARD	PNV-100-LF	SEE DWG	SEE DWG	0.25	17 GPM / 5 PSI	DIGITAL.
MV-2	POINT OF USE	LEONARD	170-LF	3/8"	3/8"	0.25	1.7 GPM / 10 PSI	INSTALL BELOW HAND WASH LAVATORY, SINKS, AND TANKLESS WATER HEATER SERVING 1 FIXTURE.
MV-3	POINT OF USE	LEONARD	270-LF	1/2"	1/2"	0.25	5.5 GPM / 10 PSI	INSTALL AT SERVICE SINKS, UTILITY SINKS, HW HOSE BIBBS, ETC., SMALL TANKLESS ELECTRIC POINT-OF-USE WATER HEATERS.

SITE UTILITIES CONNECTION SCHEDULE

TAG	DESCRIPTION	LOCATION	SIZE	INVERT	CAPACITY/ PRESSURE	REMARKS
SS 1	SANITARY SEWER	P101	4"	-	-	SEE CIVIL FOR CONTINUATION
W 1	DOMESTIC COLD WATER	P102	3"	-	-	SEE CIVIL FOR CONTINUATION
FP 1	FIRE PROTECTION MAIN	P102	6"	-	-	SEE CIVIL FOR CONTINUATION
FDC 1	FIRE DEPARTMENT CONNECTION	P102	4"	-	-	SEE CIVIL FOR LOCATION

NOTE: INVERT ON SANITARY SEWER IS BASED ON THE FINISHED FLOOR ELEVATION THE AREA IT COVERS.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	ABBREVIATION	ROUGH-IN SIZES C.W.	H.W.	WASTE	VENT	REMARKS
WATER CLOSET	WC-	1"	--	4"	2-4"	FLUSH VALVE
WATER CLOSET	WC-	1/2"	--	4"	2-4"	TANK
LAVATORY	L-	1/2"	1/2"	2"	2"	--
URINAL	U-	3/4"	--	2"	2"	--
SHOWER HEAD & DRAIN	SH-	1/2"	1/2"	2"	2"	--
ELECTRIC DRINKING FOUNTAIN	EDF-	1/2"	--	2"	2"	--
SINK	S-	1/2"	1/2"	2"	2"	--
MOP SINK	MS-	1/2"	1/2"	2"	2"	--
ICE MAKER BOX	IMB-	1/2"	--	--	--	--
WASHING MACHINE BOX	WMB-	3/4"	3/4"	2"	2"	--
FREEZE PROOF / RESISTANT HOSE BIBB	FHB-	3/4"	--	--	--	--
FLOOR DRAIN	FD-	--	--	SEE PLAN	SEE PLAN	PROVIDE WITH 1/2" C.W. CONNECTION TO TRAP PRIMER AS INDICATED ON PLUMBING FIXTURE SCHEDULE

PLUMBING SUBMITTAL REQUIREMENTS

ITEM	PRODUCT DATA	SAMPLES	SHOP DRAWING
DOMESTIC WATER			
PIPING AND FITTING MATERIALS	R	--	R
SOLDER	R	--	R
COUPLINGS	R	--	R
MIXING VALVES	R	--	R
BACKFLOW PREVENTERS	R	--	R
HOSE BIBBS	R	--	R
OUTLET BOXES	R	--	R
WATER METERS	R	--	R
SANITARY WASTE AND VENT			
PIPING AND FITTING MATERIALS	R	--	R
COUPLINGS	R	--	R
CLEANOUTS	R	--	R
FLOOR DRAINS	R	--	R
STORM DRAIN			
PIPING AND FITTINGS MATERIALS	R	--	R
COUPLINGS	R	--	R
ROOF DRAINS	R	--	R
WATER HEATERS			
EQUIPMENT	R	--	R
ACCESSORIES	R	--	R
CONTROLS	R	--	R
COMPRESSION TANK	R	--	R
PLUMBING FIXTURES			
FIXTURE	R	--	R
TRIM	R	--	R
SUPPORTS	R	--	R
ACCESSORIES	R	--	R

NOTES: "R" MEANS REQUIRED.

WATER HEATER SCHEDULE

MARK	MAKE	MODEL	VOLTAGE/PHASE	GALLONS	K.W.	TOTAL ELEMENTS	TYPE	REMARKS
EWH-1	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-2	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-3	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-4	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-5	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-6	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-7	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-8	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-9	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.
EWH-10	RHEEM	ELDS52-TB	208/1	47	9	2 @ 4.5KW	NON-SIMULTANEOUS	MOUNT IN CLOSET NEXT TO AC UNIT, INSTALL WITH ET-1 & MV-1 (SEE DETAIL), PROVIDE AND INSTALL WITH 7-DAY DIGITAL TIMER (120V /1 PH BY DIV 26) (265-3), TEMPERATURE AQUASTAT (120V /1 PH BY DIV 26) (#563-2) AND 120V/1PH SOLENOID VALVE. SEE WATER HEATER DETAIL.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

PLUMBING SCHEDULES

P601

PIPE, VALVE, AND INSULATION SCHEDULE

EQUIPMENT OR PIPING SYSTEM	LOCATION	PIPE MATERIALS						JOINING METHOD				HEAT TRACE	INSULATION			IDENTIFICATION			SHUT-OFF VALVES						REMARKS
		≤SIZE	MATERIAL	TYPE/ SCHEDULE	>SIZE	MATERIAL	TYPE/ SCHEDULE	≤SIZE	METHOD	>SIZE	METHOD		THICK-NESS	TYPE	JACKET	TYPE	BACKGROUND COLOR	LETTERING COLOR	≤SIZE	MATERIAL	TYPE / PRESSURE RATING	>SIZE	MATERIAL	TYPE / PRESSURE RATING	
DOMESTIC COLD WATER	BELOW GRADE	3"	COPPER	TYPE K ASTM B88	3"	STAINLESS STEEL	304/ 200 PSI	3"	NO JOINTS	3"	NO JOINTS	-	-	-	-	-	-	-	3"	BRONZE	FULL PORT BALL 125#	3"	ALUMINUM	LUG BUTTERFLY 125#	UTILIZE STAINLESS STEEL IN-BUILDING RISER FOR PIPE SIZES 4" AND GREATER. IN-BUILDING RISER SHALL BE AMES FIRE & WATERWORKS SERIES IBR OR EQUAL.. UNDERGROUND COPPER & SS PIPE SHALL BE ENCASED WITH POLYETHYLENE IN ACCORDANCE WITH ASTM A 674 OR AWWA C105/A21.5.
DOMESTIC COLD WATER	ABOVE GRADE INDOORS	3"	COPPER	TYPE L ASTM B88	3"	pp	SDR11	3"	SOLDERED /BRAZED	3	BF/EF	-	3/4"	FIBER-GLASS	ASJ	PRE-TENSION	GREEN	WHITE	3"	BRONZE	FULL PORT BALL 125#	3"	PP/ ALUMINUM	TUPP/LUG BUTTERFLY 125#	PIPING OUTDOORS AND/OR EXPOSED TO AMBIENT TEMPERATURE SHALL BE HEAT TRACED. PIPING JOINING METHOD ABOVE 2" SHALL BE BRAZED.
SANITARY WASTE & VENT / RAIN LEADER	BELOW GRADE / INDOORS / IN PLENUM SPACES	ALL	CPVC	SOLID WALL/ SCH 40 ASTM D 2665	ALL	CPVC	SOLID WALL/ SCH 40 ASTM D 2665	ALL	SOLVENT CEMENTED	ALL	SOLVENT CEMENTED	-	-	-	-	-	-	-	-	-	-	-	-	-	DWV FITTINGS, SOLVENT CEMENT (ASTM D 2618).
SANITARY WASTE & VENT / RAIN LEADER	ABOVE GRADE INDOORS / AND NOT IN PLENUM SPACES	ALL	PVC	SOLID WALL/ SCH 40 ASTM D 2665	ALL	PVC	SOLID WALL/ SCH 40 ASTM D 2665	ALL	SOLVENT CEMENTED	ALL	SOLVENT CEMENTED	-	-	-	-	PRE-TENSION	BROWN	WHITE	-	-	-	-	-	-	PVC SHALL NOT BE USED IN RETURN AIR PLENUMS UNLESS IT IS ALSO WRAPPED WITH APPROVED FIRESAFING. DWV FITTINGS, ADHESIVE PRIMER (ASTM F 656), SOLVENT CEMENT (ASTM D 2564).
SANITARY WASTE & VENT / RAIN LEADER	ABOVE GRADE INDOORS / AND IN PLENUM SPACES	ALL	CAST IRON	HUBLESS/ ASTM A 888	ALL	CAST IRON	HUBLESS/ ASTM A 888	ALL	NO HUB	ALL	NO HUB	-	-	-	-	PRE-TENSION	BROWN	WHITE	-	-	-	-	-	-	USE WHERE INSTALLED IN RETURN AIR PLENUMS. PROVIDE HEAVY-DUTY TYPE NO HUB COUPLINGS.
DOMESTIC HOT WATER AND RECIRCULATING	ABOVE GRADE INDOORS	3"	COPPER	TYPE L ASTM B88	3"	pp	SDR11	3"	SOLDERED /BRAZED	3	BF/EF	-	1"	FIBER-GLASS	ASJ	PRE-TENSION	RED	WHITE	3"	BRONZE	FULL PORT BALL 125#	3"	PP/ ALUMINUM	TUPP/LUG BUTTERFLY 125#	INCLUDES DOMESTIC HOT WATER SUPPLY AND RE-CIRCULATION PIPING INDOORS. PIPING JOINING METHOD ABOVE 2" SHALL BE BRAZED.
CONDENSATE DRAINS	ABOVE GRADE INDOORS	1"	PVC	SOLID WALL/ SCH 40 ASTM D 2665	1"	COPPER	TYPE L OR M ASTM B88	ALL	SOLVENT SEALED	1"	SOLDERED	-	1/2"	ELASTO-MERIC	-	PRE-TENSION	DARK GRAY	WHITE	-	-	-	-	-	-	WITH DWV FITTINGS ON 1-1/2" AND LARGER. INSTALL W/UNION AT CONNECTION. PVC SHALL NOT BE USED IN RETURN AIR PLENUMS UNLESS IT IS ALSO WRAPPED WITH APPROVED FIRESAFING. COPPER TO BE USED IN RETURN AIR PLENUMS.
TRAPPED OVERFLOW DRAIN PAN	ABOVE GRADE INDOORS	2"	COPPER	TYPE L OR M ASTM B88	-	-	-	2"	SOLDERED	-	-	-	1/2"	FIBER-GLASS	ASJ	PRE-TENSION	DARK GRAY	WHITE	2"	BRONZE	FULL PORT BALL 125#	-	-	-	WITH DWV FITTINGS ON 1-1/2" AND LARGER. INSTALL W/UNION AT CONNECTION TO DRAIN PANS. VALVES REQUIRED ONLY ON DRAIN PANS.
KITCHEN SINK WASTE	ABOVE SLAB EXPOSED TO VIEW	1-1/2"	CHROME PLTD BRASS	-	1-1/2"	COPPER	TYPE L ASTM B88	1-1/2"	SLIP JOINT	1-1/2"	SOLDERED	-	-	-	-	-	-	-	-	-	-	-	-	-	PAINT COPPER EXPOSED TO VIEW INSTALLATIONS "CHROME" COLOR. INCLUDE UNIONS ON COPPER SINK, TRAP, AND WALL DRAIN CONNECTIONS.
GREASE WASTE AND VENT	ABOVE GRADE	ALL	CAST IRON	ASTM A74	ALL	CAST IRON	ASTM A74	ALL	NO HUB	ALL	NO HUB	-	-	-	-	-	-	-	-	-	-	-	-	-	PIPING TO BE EPOXY COATED AS EQUAL TO CHARLOTTE EDGE HP, TYLER DURA PIPE. (SPEARS LAB WASTE EQUAL). HEAVY DUTY COUPLINGS. INSULATION AND HEAT TRACE ONLY REQUIRED ON INSTALLATIONS INDICATED ON DRAWINGS. PROVIDE TEMPERATURE MAINTENANCE TYPE HEAT TRACE ON ALL GREASE WASTE.
GREASE WASTE AND VENT	BELOW GRADE	ALL	CAST IRON	ASTM A74	ALL	CAST IRON	ASTM A74	ALL	HUB AND SPIGOT	ALL	HUB AND SPIGOT	-	-	-	-	-	-	-	-	-	-	-	-	-	PIPING TO BE EPOXY COATED AS EQUAL TO CHARLOTTE EDGE HP, TYLER DURA PIPE. (SPEARS LAB WASTE EQUAL). ASTM C564 GASKETS, ASTM B29 CAULKING MATERIALS HEAT TRACE ONLY REQUIRED ON INSTALLATIONS INDICATED ON DRAWINGS. PROVIDE TEMPERATURE MAINTENANCE TYPE HEAT TRACE ON ALL GREASE WASTE.

NOTES:

A. WATER PIPING INDOOR JOINING MAY BE PRESS FITTINGS ON 2" AND SMALLER PIPES.
B. INCLUDE 0.017" THICK ALUMINUM OUTER JACKET OVER ALL PIPE AND FITTING INSULATION OUTDOORS.
C. VALVE AND PIPING ACCESSORY INSULATION (STRAINERS, PRV, BFPS, ETC.) ON WATER PIPING MAY BE ELASTOMERIC TYPE, WITH THICKNESS 1/2" INDOOR S AND 1-1/2" OUTDOORS.
D. PROVIDE BLOCKING OR HIGHER DENSITY SAME THICKNESS INSULATION AT HANGER / SADDLE SUPPORTS.
E. INSULATE ALL INDOOR MULTI-STORY BUILDING SANITARY WASTE AND RAIN LEADER PIPING ABOVE LOWEST FLOOR SLAB TO 48" ABOVE HIGHEST FLOOR SLAB FOR SOUND ATTENUATION.
F. INCLUDE 12 GA. BARE COPPER WIRE WRAP AROUND ALL NON-METALLIC UNDERGROUND PIPING OUTSIDE BUILDING.
G. INCLUDE METALLIC SPECIAL IDENTIFICATION TAPE (12" BELOW FINISHED GRADE) ATOP ALL NON-METALLIC AND ALL PIPING BURIED MORE THAT THREE FEET (3') DEEP OUTSIDE BUILDINGS.
H. INCLUDE CUSTOM NEAT ELASTOMERIC INSULATION ON ALL WATER AND WASTE PIPING ON ADA SINKS/LAVATORIES.
I. PROVIDE A METAL RISER AT ALL ABOVE GROUND METER/REGULATOR/AND UNDERGROUND BRANCH PIPING.
J. USE SPEARS STAINLESS STEEL REINFORCED THREADED PVC ADAPTERS.
K. PIPE RISER AT METER/REGULATOR AND OTHER GRADE PENETRATIONS SHALL BE PVC COATED STEEL PAINTED.

ABBREVIATIONS:

ASJ	ALL SERVICE JACKET (INSULATION)
ALUM	0.014" ALUMINUM OUTER JACKET
BLK	BLACK
BF/EF	BUT FUSION ON PIPE TO PIPE. ELECTRO/HEAT FUSION ON BRANCH OUTLET SADDLE JOINTS
CSST	CORRUGATED STAINLESS STEEL TUBING
PE	POLYETHYLENE
PP	POLYPROPYLENE (NIRON/ASAHI)
TUPP	TRUE UNION POLYPROPYLENE

*** PIPE RISER AT METER/REGULATOR AND OTHER GRADE PENETRATIONS SHALL BE PVC COATED STEEL PAINTED.

DOMESTIC WATER PIPING TEST LOG

DATE	SYSTEM	DESCRIPTION OF PIPING SECTION TESTED	TEST PRESSURE (PSIG)	TEST DURATION (HOURS)	RETULTS (PASS/FAIL)	WITNESS (INITIALS)

This form stall be completed and submitted with the project closeout documents. Contractor shall copy this form if more sheets are required. Piping pressure test log shall be kept at project site and shall be made available to the Architect upon request.

SANITARY WASTE AND VENT PIPING TEST LOG

DATE	SYSTEM	DESCRIPTION OF PIPING SECTION TESTED	TEST PRESSURE (PSIG)	TEST DURATION (HOURS)	RETULTS (PASS/FAIL)	WITNESS (INITIALS)

This form stall be completed and submitted with the project closeout documents. Contractor shall copy this form if more sheets are required. Piping pressure test log shall be kept at project site and shall be made available to the Architect upon request.

STORM DRAIN PIPING TEST LOG

DATE	SYSTEM	DESCRIPTION OF PIPING SECTION TESTED	TEST PRESSURE (PSIG)	TEST DURATION (HOURS)	RETULTS (PASS/FAIL)	WITNESS (INITIALS)

This form stall be completed and submitted with the project closeout documents. Contractor shall copy this form if more sheets are required. Piping pressure test log shall be kept at project site and shall be made available to the Architect upon request.

PLUMBING CLOSEOUT DOCUMENT CHECKLIST

PROJECT NAME:

INITIALS OF PERSON COMPLETING TASK	DATE OF TASK COMPLETED	DESCRIPTION OF CONTRACTORS SUBMTITAL
		FINAL TAB REPORT
		SIGNED LETTER RECORD OF OWNERS PERSONNEL O & M TRAINING WITH SIGN IN SHEET.
		DVD RECORD OF OWNERS PERSONNEL O & M TRAINING (3 EACH).
		OPERATION AND MAINTENANCE MANUALS.
		AS-BUILT DRAWINGS WITH CONTRACTOR'S STAMP.
		WARRANTY INFORMATION
		POTABLE WATER SANITATION REPORT AND CERTIFICATION
		PIPE PRESSURE TEST LOG. INCLUDE NARRATIVES OF WHAT WAS TESTED, DESCRIPTION OF TEST METHODOLOGY AND RESULTS.
		VALVE TAG AND FLOOR PLAN LOCATION CHARTS.
		KEYS TO ACCESS DOORS, CONTROL PANELS, ETC. PROVIDE WRITTEN RECEIPTS WITH OWNER'S ACCEPTANCE).
		KEYS TO PLUMBING STOPS AND HOSE BIBB BOXES (PROVIDE WRITTEN RECEIPTS WITH OWNER'S ACCEPTANCE).
		PROVIDE SPARE CIRCULATING PUMP SEALS (PROVIDE WRITTEN RECEIPTS WITH OWNER'S ACCEPTANCE).
		SEISMIC RESTRAINT MANUFACTURER'S REPRESENTATIVE CERTIFICATION THAT ALL INSTALLATIONS HAVE BEEN INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552
STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655
CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609
ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820
LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565
DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

ERG
ERG P.N. 24.121
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JASON CHRISTOPHER GROSSI, LICENSED PROFESSIONAL ENGINEER, 01/16/26, 17087, STATE OF MISSISSIPPI

PLUMBING SCHEDULES

P602

FIRE PROTECTION SHEET INDEX

FP001	FIRE PROTECTION LEGEND, ABBREVIATIONS & NOTES
FP002	FIRE PROTECTION SPECIFICATIONS
FP003	FIRE PROTECTION SPECIFICATIONS
FP101	FIRE PROTECTION FLOOR PLAN LEVEL 1
FP102	FIRE PROTECTION FLOOR PLAN LEVEL 2
FP501	FIRE PROTECTION DETAILS
FP601	FIRE PROTECTION SCHEDULES

FIRE PROTECTION FLOW DATA

PRESSURE - 51 P.S.I. - STATIC / 48 P.S.I. - RESIDUAL

FLOW: 1061 GPM

FLOW TEST LOCATION: USM WESLEY 3200 MONTAGUE BLVD
HATTIESBURG, MS

DATE OF TEST: 10/30/25 CONDUCTED BY: SOUTHERN FIRE

CODE REVIEW

APPLICABLE OR LOCAL ADOPTED CODES (BASIS OF DESIGN)
CODE REQUIREMENTS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 1) FIRE CODE

2016 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

2016 NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL FIRE CODE

FIRE PROTECTION ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AH	AMP HOUR	NIC	NOT IN THIS CONTRACT
AHJ	AUTHORITY HAVING JURISDICTION	NO	NORMALLY OPEN
ALM	ALARM	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	OD	OUTSIDE DIMENSION
CLG	CEILING	P	PUMP
DIA	DIAMETER	PA	PREACTION
DN	DOWN	PLBG	PLUMBING
FH	FIRE HYDRANT	P.I.V.	POST INDICATOR VALVE
FD	FLOOR DRAIN	PRV	PRESSURE REDUCING VALVE
FLR	FLOOR	PSI	POUNDS PER SQUARE INCH (GAUGE)
FT	FEET	RPM	REVOLUTIONS PER MINUTE
GPM	GALLONS PER MINUTE	SP	SPRINKLER
HP	HORSE POWER	SF	SQUARE FEET
HR	HOUR	TS	TAMPER SWITCH
ID	INSIDE DIMENSION	TYP	TYPICAL
KW	KILOWATT	UL	UNDERWRITERS LABORATORY
LBS	POUNDS	V	VENT
MAX	MAXIMUM	VTR	VENT THRU ROOF
MECH	MECHANICAL	W/	WITH
MFG	MANUFACTURER	W/O	WITHOUT
MIN	MINIMUM	EFP	EXISTING FIRE PROTECTION
NC	NORMALLY CLOSED		

FIRE PROTECTION LEGEND

PIPING / ACCESSORIES

— F —	FIRE PROTECTION PIPING
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	OS&Y GATE VALVE (SUPERVISED)
	OS&Y GATE VALVE OR INDICATING BUTTERFLY VALVE (SUPERVISED)
	CHECK VALVE
	FLOW SWITCH
	BUTTERFLY VALVE WITH TAMPER SWITCH

SPRINKLER HEADS

	UPRIGHT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

MISCELLANEOUS

	NEW CONNECTION TO EXISTING PIPING, DUCTWORK AND/OR EQUIPMENT

FIRE PROTECTION GENERAL NOTES

GENERAL

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY THE APPROPRIATE BUILDING CODES, INCLUDING, BUT NOT LIMITED TO NFPA 13.
2. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. THE FIRE SUPPRESSION SYSTEM SPECIFICATIONS ARE PERFORMANCE BASED ONLY. THE CONTRACTOR(S) SHALL BE FULLY RESPONSIBLE FOR THE DESIGN AND TO PROVIDE ALL NECESSARY EQUIPMENT, HARDWARE, CONTROLS, SENSOR, ETC. PER LOCAL FIRE PROTECTION CODES.
3. NUMBERS AND LOCATIONS OF SPRINKLER HEADS, SHOWN ON THESE PLANS, ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT NUMBER AND LOCATIONS SHALL BE SHOWN ON SPRINKLER CONSTRUCTION SHOP DRAWINGS WHICH SHALL BE PROVIDED BY THE CONTRACTOR.
4. ALL NEW SPRINKLER PIPING AND HEADS SHALL BE LOCATED ONLY AS INDICATED ON APPROVED SHOP DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED BEFORE STARTING WORK. ANY DEVIATIONS MADE TO APPROVED LAYOUT MUST BE SUBMITTED TO ENGINEER AS "AS-BUILT" DRAWINGS.
5. ALL SPRINKLER SYSTEM COMPONENTS TO BE APPROVED BY THE ENGINEER AND GENERAL CONTRACTOR AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.
6. COORDINATE INTERLOCKS, SIGNALING AND ALARM CONTACTS WITH FIRE ALARM AND ELECTRICAL CONTRACTORS. COORDINATE DUCT SMOKE DETECTION WITH MECHANICAL CONTRACTOR.
7. CONTRACTOR TO DESIGN PER FM GLOBAL STANDARDS UNLESS OTHERWISE INDICATED.
8. IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTRACT SPECIFICATIONS. CONNECTION TO UNDERGROUND FIRE SERVICE. SYSTEMS AND DEVICE TESTING. ALL NECESSARY PERMITS.
9. THE FIRE SPRINKLER SYSTEMS FOR PROTECTION OF THE BUILDING SHALL BE HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEMS AS SPECIFIED IN THE FOLLOWING:
   A. OFFICES, INCLUDING CORRIDORS, LOUNGES, AND SIMILAR SPACES SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY TO PROVIDE A MINIMUM DESIGN DISCHARGE DENSITY OF 0.10 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   B. MECHANICAL, MINOR STORAGE, AND SIMILAR AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.15 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   C. BULK STORAGE AND SIMILAR AREAS AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 2 OCCUPANCY, A MINIMUM DESIGN DISCHARGE DENSITY OF 0.20 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   D. ALL SPRINKLERS WITHIN THE PROJECT AREA SHALL BE NEW, QUICK RESPONSE, ORDINARY TEMPERATURE RATING (EXCEPT AS REQUIRED BY NFPA 13).
10. PROVIDE A COMPLETE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR ALL NEW AND/OR EXISTING INTERIOR AND EXTERIOR COVERED SPACES, INTERSTITIAL SPACES, ATTICS, OVERHANGS, CANOPIES, ETC. AS REQUIRED FOR A COMPREHENSIVE FIRE SPRINKLER SYSTEM.
11. ALL EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND/OR FACTORY MUTUAL APPROVED.
12. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW, FIRST GRADE STANDARD, CURRENT PRODUCTS OF A MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS AND EQUIPMENT. WHERE TWO OR MORE PIECES OF EQUIPMENT PERFORMING THE SAME FUNCTION ARE REQUIRED, THEY SHALL BE THE PRODUCT OF ONE MANUFACTURER AND EXACT DUPLICATES.

PIPING

1. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN SPRINKLER SYSTEMS.
2. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
3. NO PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
4. PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AND SEALED TO A FIRE RATING EQUAL TO THE WALL IT PENETRATES.
5. ALL SPRINKLER PIPING 2" AND BELOW SHALL BE SCHEDULE 40 STEEL. SCHEDULE 10 PIPING SHALL BE ALLOWABLE FOR PIPE SIZES 2-1/2" AND ABOVE.
6. ALL SPRINKLER PIPING IN CRITICAL AREAS MUST BE SCHEDULE 40 STEEL WITH THREADED FITTINGS OR VICTAULIC-TYPE FITTINGS WHERE PERMITTED.
7. FIRE PROTECTION PIPING LAYOUT IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL REQUIRED FITTINGS, DRAIN VALVES, ETC.
8. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT THE SYSTEM CAN BE DRAINED. PROVIDE DRAINS FOR TRAPPED PIPING IN ACCORDANCE WITH NFPA 13.
9. ALL PIPES PASSING THROUGH FOUNDATION WALLS TO BE PROTECTED.
10. SPRINKLER SYSTEM DRAIN LINES SHALL BE FULLY COORDINATED WITH ALL TRADES.
11. THE USE OF SADDLE TEES FITTED WITH RUBBER GASKETS IS NOT PERMITTED.
12. PIPE SIZES INDICATED ON THE CONTRACT DRAWINGS SHALL NOT BE REDUCED. THEY SHALL HOWEVER BE INCREASED IF REQUIRED BY HYDRAULIC CALCULATIONS.
13. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
14. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
15. GROOVED COUPLINGS SHALL BE UL LISTED AND/OR FM APPROVED FOR FIRE PROTECTION SERVICE. PLAIN-END TYPE PIPE FITTINGS AND COUPLINGS SHALL NOT BE USED.
16. INSTALL HANGERS, BRAIDED HOSE DROP CONNECTIONS, SWING JOINTS AND BRACING IN ACCORDANCE WITH NFPA 13.
17. SYSTEM PIPING SHALL BE INSTALLED SUCH THAT NO JOINTS, FITTINGS OR DEVICES OCCUR DIRECTLY OVER ELECTRICAL EQUIPMENT OR WITHIN THE CLEARANCE SPACE AS REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS AND PENETRATIONS REQUIRED FOR THE FIRE PROTECTION PIPING.
19. CUTTING STRUCTURAL MEMBERS FOR THE PASSING OF FIRE PROTECTION PIPING OR PIPE HANGER FASTENING WILL NOT BE PERMITTED EXCEPT WITH APPROVAL OF THE PROFESSIONAL.
20. SUITABLE MEANS SHALL BE PROVIDED AT EACH HOLE OR PENETRATION TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.
21. INSTALL SPLIT WALL PLATES OR ESCUTCHEONS WHERE EXPOSED PIPING PASSES THROUGH A FINISHED FLOOR, WALL OR CEILING. THEY SHALL FIT SNUGLY AROUND PIPING. THE FINISH OF ESCUTCHEONS OR WALL PLATES SHALL MATCH THE COLOR OF ADJACENT WALLS, CEILINGS, OR FLOORS.
22. UPON COMPLETION OF INSTALLATION AND WHILE PIPING IS STILL EXPOSED, HYDROSTATICALLY TEST THE SYSTEMS AT 200 PSI (OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER) FOR A PERIOD OF 2 HOURS. PORTIONS OF THE SYSTEM MAY BE TESTED AS THEY ARE COMPLETED. SEVENTY-TWO HOUR NOTICE SHALL BE GIVEN TO THE PROFESSIONAL AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ANY TEST. A PRE-INSTALLATION INSPECTION OF PIPE, FITTINGS, AND DEVICES IS REQUIRED.
23. WHERE FLOOR OPENINGS ARE NOT CLASSIFIED AS ATRIUMS, THE SPRINKLERS AT THE CEILING MUST BE ZONED WITH LOWER LEVEL IF IT IS ENCLOSED ON THE UPPER LEVEL (THE ENCLOSURE IS EFFECTIVELY CREATING A HIGH CEILING), OTHERWISE, SPRINKLERS MUST BE ZONED WITH THE UPPER LEVEL.

SPRINKLERS

1. IN AREAS WITHOUT SUSPENDED CEILINGS, LOCATE SPRINKLER HEADS ABOVE AND BELOW ALL DUCTS OVER 48" IN WIDTH.
2. IN AREAS WITH SUSPENDED CEILINGS, SPRINKLER HEADS SHALL BE INSTALLED CENTERED IN BOTH DIRECTIONS OF THE CEILING TILE. CONCEALED SPRINKLER HEADS SHALL BE USED FOR ALL FINISHED CEILING AREAS.
3. UPRIGHT SPRINKLERS SHALL BE INSTALLED IN AREAS WITHOUT SUSPENDED CEILINGS, PROVIDE PROTECTIVE CAGE ON ALL HEADS IN AREAS UNDER DUCTS OR SUBJECT TO ACCIDENTAL DAMAGE.
4. ALL PENDENT AND SIDEWALL SPRINKLERS LOCATED WITHIN 7 FT OF THE FLOOR OR SUBJECT TO MECHANICAL DAMAGE SHALL BE PROVIDED WITH LISTED SPRINKLER GUARDS COMPATIBLE WITH THE SPRINKLER MODELS AND TYPES ON WHICH THEY ARE INSTALLED.
5. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS REQUIRED FOR EACH TEMPERATURE RATING. EXTRA SPRINKLERS IN THE QUANTITIES REQUIRED BY NFPA 13, CABINETS, AND WRENCHES SHALL BE PROVIDED.
6. DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA.
7. SPRINKLER HEADS INSTALLED IN TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILES.
8. SPRINKLER GUARDS MUST BE PROVIDED IN THE FOLLOWING: SPRINKLERS INSTALLED LESS THAN 7 FT FROM FLOOR, SPRINKLERS INSTALLED WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR PITS, SPRINKLERS INSTALLED WITHIN ELECTRICAL CLOSETS AND EQUIPMENT ROOMS
9. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. CHANGES ARE SUBJECT TO APPROVAL BY ARCHITECT AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalbo.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

FIRE PROTECTION LEGEND, ABBREVIATIONS & NOTES

FP001

GENERAL

WORK INCLUDED

A. THIS SECTION IS A PERFORMANCE SPECIFICATION SECTION ONLY. THE FIRE SPRINKLER SYSTEM DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS SHALL BE FULLY DESIGNED BY THE FIRE PROTECTION CONTRACTOR(S). THE FIRE SUPPRESSION SYSTEM SPECIFICATIONS ARE PERFORMANCE BASED ONLY. THE CONTRACTOR(S) SHALL BE FULLY RESPONSIBLE FOR THE DESIGN AND TO PROVIDE ALL NECESSARY EQUIPMENT, HARDWARE, CONTROLS, SENSOR, ETC. PER LOCAL FIRE PROTECTION CODES AND THE AUTHORITY HAVING JURISDICTION (AHJ). A FACTOR OF SAFETY SHALL BE EMPLOYED SUCH THAT A 5 PSI SURPLUS SHALL EXISTING ABOVE NEEDED PRESSURE.

B. FURNISH ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO COMPLETE THE AUTOMATIC FIRE SPRINKLER SYSTEM AND STANDPIPE (AS REQUIRED) SYSTEM AS HEREINAFTER DESCRIBED, READY FOR SERVICE TO THE ENTIRE SATISFACTION OF THE OWNER, ARCHITECT, AHJ AND OWNER'S INSURANCE UNDERWRITER. PROVIDE HYDRAULICALLY CALCULATED SYSTEMS AS DEFINED IN THE ADOPTED EDITION OF NFPA 13 AND NFPA 14 AND IN ACCORDANCE WITH THE AHJ AND OWNER'S INSURANCE REQUIREMENTS.

C. VERIFY ELECTRICAL REQUIREMENTS OF ALARM VALVES, FLOW SWITCHES, VALVE SUPERVISION SWITCHES, ALARM BELLS AND PUMPS WITH ELECTRICAL CONTRACTOR.

D. IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:
   1. COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTRACT SPECIFICATIONS.
   2. CONNECTION TO UNDERGROUND FIRE SERVICE.
   3. SYSTEMS AND DEVICE TESTING.
   4. ALL NECESSARY PERMITS.

F. THE FIRE SPRINKLER SYSTEMS FOR PROTECTION OF THE BUILDING SHALL BE HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEMS AS SPECIFIED IN THE FOLLOWING AND PER NFPA 13:
   1. OFFICES, INCLUDING CORRIDORS, LOUNGES, AND SIMILAR SPACES SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY TO PROVIDE A MINIMUM DESIGN DISCHARGE DENSITY OF 0.10 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   2. MECHANICAL, MINOR STORAGE, AND SIMILAR AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.15 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   3. BULK STORGE AND SIMILIAR AREAS AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 2 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.20 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   4. ALL SPRINKLERS WITHIN THE PROJECT AREA SHALL BE NEW, QUICK RESPONSE, ORDINARY TEMPERATURE RATING (EXCEPT AS REQUIRED BY NFPA 13).
   5. ELEVATOR SHAFTS AND STAIRWELLS SHALL BE SPRINKLERED.

G. PROVIDE A COMPLETE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR ALL NEW AND/OR EXISTING INTERIOR AND EXTERIOR COVERED SPACES, INTERSTITIAL SPACES, ATTICS, OVERHANGS, CANOPIES, ETC. AS REQUIRED FOR A COMPREHENSIVE FIRE SPRINKLER SYSTEM AND COVERAGE BY NFPA 13.

REFERENCE STANDARDS

A. SYSTEM, EQUIPMENT, INSTALLATION AND MATERIALS AND METHODS USED SHALL COMPLY WITH THE LATEST ADOPTED EDITIONS OF THE FOLLOWING:
   1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 1 FIRE CODE.
   2. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
   3. NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS.
   4. NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
   5. INTERNATIONAL BUILDING CODE
   6. INTERNATIONAL FIRE CODE

DESIGN CRITERIA

A. DESIGN SPRINKLER SYSTEMS AND OBTAIN APPROVAL FROM AHJ.

B. DETERMINE THE STATIC AND RESIDUAL PRESSURE FOR THE SITE AS REQUIRED FOR ACCURATE DETERMINATION OF SYSTEM REQUIREMENTS. BASE SYSTEM CALCULATIONS ON THE LOWEST EXPECTED STATIC AND RESIDUAL PRESSURE FOR THE AREA.
   1. TEST DATA FOR STATIC AND RESIDUAL PRESSURE SHALL BE MEASURED BY THE CONTRACTOR. TEST SHALL BE MADE WITHIN THE PRESENCE OF THE ARCHITECT AND AT A TIME APPROVED BY THE ARCHITECT AND OWNER.

C. IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR A COMPLETE AND OPERATING AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM IN FULL COMPLIANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AS SET FORTH IN NFPA 13, NFPA 14, AND NFPA 24, CURRENTLY ADOPTED EDITIONS.

D. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS TO DETERMINE THE EXTENT OF CONSTRUCTION AND RESULTANT FIRE PROTECTION COVERAGE TO COMPLY WITH NFPA, INTERSTITIAL SPACES, IF UTILIZED, WILL REQUIRE SPRINKLER PROTECTION.

E. PROVIDE FIRE SPRINKLERS TO PROTECT ALL BUILDING OVERHANGS GREATER THAN 4 FEET WIDE, OR AS REQUIRED BY LOCAL AUTHORITY.

F. PROVIDE ADDITIONAL FIRE SPRINKLERS WHERE REQUIRED TO MEET THE REQUIREMENTS OF NFPA13 AND/OR AHJ(S). COORDINATE WITH THE WORK OF OTHER TRADES ESPECIALLY WHEN IT MAY CREATE INTERFERENCES AND OR OBSTRUCTIONS REQUIRING SPECIAL PROTECTION. ADDITIONAL PIPING AND HEADS AND DRAINS.

G. USE OF PIPING LIGHTER THAN SCHEDULE 10 IS NOT ALLOWED.

H. THE INITIAL BUILDING SHALL CONTAIN BASIC SPRINKLER COVERAGE WHICH CAN BE MODIFIED AND EXTENDED FOR THE FUTURE BUILD-OUT OF UNIMPROVED SPACES.

I. DESIGN SHALL COMPLY WITH THE OWNER'S INSURANCE UNDERWRITERS' REQUIREMENTS.

1.4 COORDINATION/SPECIAL CONSIDERATIONS

A. COORDINATE WITH OTHER TRADES ALL EQUIPMENT LOCATIONS, PIPE, DUCT AND CONDUIT RUN'S, ELECTRICAL OUTLETS AND FIXTURES, AIR INLETS AND OUTLETS, AND STRUCTURAL AND ARCHITECTURAL FEATURES. PROVIDE INFORMATION ON LOCATION OF PIPING AND BRACING TO ALL OTHER TRADES AS REQUIRED FOR A COMPLETELY COORDINATED PROJECT.

B. CONTRACT DRAWINGS: ALL PIPING AND SPRINKLER HEADS REQUIRED FOR THE SPRINKLER AND STANDPIPE SYSTEMS ARE NOT SHOWN. SPRINKLER HEADS SHOWN ARE MINIMUM REQUIRED.

C. WHERE HEADS ARE LOCATED AT SUSPENDED CEILING, SPACING SHALL BE AS REQUIRED BY NFPA 13, EXCEPT AS FOLLOWS: IN ALL LOCATIONS, SPRINKLER HEADS SHALL BE EQUIDISTANT BETWEEN LIGHTS, BETWEEN WALL AND LIGHTS, BETWEEN LIGHTS AND AIR DIFFUSERS, AND BETWEEN WALL, LIGHTS, AND AIR DIFFUSERS. PROVIDE UNIFORM AND REPETITIVE PATTERN FOR EACH ROOM. LOCATE BY REFLECTED CEILING PLAN WHERE SHOWN.

D. INSTALL ALL SPRINKLER HEADS IN CENTER OF CEILING TILES.

E. PROVIDE APPROVED DRY PENDANT SPRINKLER HEADS IN SPACES SUBJECT TO FREEZING.

F. PROVIDE HIGH TEMPERATURE SPRINKLER HEADS IN ALL ELECTRICAL ROOMS OR OTHER AREAS WITH ELEVATED TEMPERATURES SUCH AS MECHANICAL ROOMS.

G. COORDINATE WITH THE FIRE ALARM CONTRACTOR TO ENSURE FULL AWARENESS OF THE LOCATION OF CONTROL VALVES, FLOW SWITCHES, TAMPER SWITCHES, AND ALARM AND SIGNAL SWITCHES.

GENERAL (CONTINUED)

QUALITY ASSURANCE

A. MANUFACTURERS: FIRMS REGULARLY ENGAGED IN MANUFACTURE OF FIRE PROTECTION PRODUCTS, OF TYPES, MATERIALS, AND SIZES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS.
B. INSTALLER: A FIRM WITH AT LEAST FIVE YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE ON PROJECTS WITH FIRE SPRINKLER PIPING SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
C. FIRESTOP PENETRATIONS WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE INTERNATIONAL BUILDING CODE (IBC).
D. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SPRINKLER SYSTEM, IF ANY) HAVE BEEN REVIEWED AND APPROVED BY THE AHJ AND THE OWNER'S INSURANCE UNDERWRITER.
E. THE FIRE SPRINKLER CONTRACTOR SHALL FURNISH EVIDENCE OF A FULL-TIME EMPLOYEE WHO POSSESSES A NICET LEVEL 3 OR HIGHER CERTIFICATION IN AUTOMATIC SPRINKLER SYSTEM LAYOUT. A SIGNED AND NOTARIZED WRITTEN STATEMENT FROM THE FIRE SPRINKLER CONTRACTOR STATING THE NAME AND NICET CERTIFICATION OF THE FULL-TIME EMPLOYEE WHO OVERSEES THE SHOP DRAWINGS AND INSTALLATION SHALL ACCOMPANY THE SHOP DRAWING SUBMITTAL.

SUBMITTALS

A. SUBMIT PIPE, FITTINGS, VALVES, SPRINKLER HEADS, GAUGES, SLEEVES AND ESCUTCHEONS, FLOW AND TAMPERS SWITCHES, ALARM BELLS, PIPE HANGERS AND SUPPORTS, IDENTIFICATION SIGNS, SPRINKLER HEAD CABINETS, HOSE VALVE CABINETS, COORDINATION DRAWINGS, AHJ APPROVAL LETTER, INSURANCE UNDERWRITER'S APPROVAL LETTER, HYDRAULIC CALCULATIONS AND STATIC AND RESIDUAL FLOW TEST RESULTS.
B. PREPARE AND SUBMIT PRELIMINARY DRAWING TO THE OWNER SHOWING THE PROPOSED LOCATION OF THE FIRE SPRINKLER HEADS COORDINATED WITH AND IN RELATION TO THE CEILING TILE PATTERN, LIGHT FIXTURE AND DUCT INLETS/OUTLETS. REVIEW OF THIS DRAWING AND THE AHJ'S REVIEW STAMP THEREON SHALL BE A PREREQUISITE FOR THE PREPARATION OF FURTHER WORKING PLANS.

PRODUCTS

MANUFACTURERS

A. NAMED MANUFACTURER MODEL NUMBERS USED AS EXAMPLE OF ITEM AND ESTABLISHED MINIMUM LEVEL OF QUALITY AND MINIMUM STANDARD OPTIONS. EQUIVALENT MODELS ARE ACCEPTABLE.
   1. SPECIALTY VALVES AND DEVICES: BADGER FIRE PROTECTION, INC., GRINNELL CORP., VIKING CORP.
   2. WATER-FLOW INDICATORS AND SUPERVISORY SWITCHES: GRINNELL CORP., POTTER ELECTRIC SIGNAL CO., VIKING CORP.
   3. SPRINKLER, DRAIN, AND ALARM TEST FITTINGS: CENTRAL SPRINKLER CORP., GRINNELL CORP., VICTAULIC CO.
   4. SPRINKLER, BRANCH-LINE TEST FITTINGS: ELKHART BRASS MFG. CO. INC., SMITH INDUSTRIES, INC; POTTER-ROEMER DIV.
   5. SPRINKLER, INSPECTOR'S TEST FITTINGS: G/J INNOVATIONS, INC., TRIPLE R SPECIALTY OF AJAX, INC.
   6. FIRE DEPARTMENT CONNECTIONS: BADGER FIRE PROTECTION, INC., ELKHART BRASS MFG. CO., INC., GRINNELL CORP.
   7. SPRINKLERS: BADGER FIRE PROTECTION, INC., GRINNELL CORP., VIKING CORP.
   8. INDICATOR POSTS AND INDICATOR-POST, GATE VALVES: GRINNELL CORP., MCWANE, INC.; KENNEDY VALVE DIV., NIBCO, INC.
   9. INDICATOR VALVES: GRINNELL CORP., MCWANE, INC.; KENNEDY VALVE DIV., NIBCO, INC.
   10. FIRE-PROTECTION-SERVICE VALVES: GRINNELL CORP., MCWANE, INC.; KENNEDY VALVE DIV., NIBCO, INC.
   11. GROOVED-END FITTINGS FOR STEEL PIPING: VICTAULIC CO.

VALVE AND ALARM SYSTEM IDENTIFICATION

A. PROVIDE IDENTIFICATION AS FOLLOWS:
   1. BRASS VALVE TAGS.
   2. PROVIDE THE FOLLOWING SIGNS:
      a. AT EACH SPRINKLER VALVE, INCLUDING ROOF MANIFOLD, SIGN INDICATING WHAT PORTION OF SYSTEM VALVE CONTROLS.
      b. AT EACH OUTSIDE ALARM DEVICE, SIGN INDICATING WHAT AUTHORITY TO CALL IF DEVICE IS ACTIVATED.

BASIC PIPES AND TUBES

A. PIPING SHALL BE NEW, DESIGNED FOR 300 PSI WORKING PRESSURE, CONFORMING TO ASTM SPECIFICATIONS AND HAVE THE MANUFACTURER'S NAME OR BRAND ALONG WITH THE PIPE APPLICABLE ASTM STANDARD MARKED ON EACH LENGTH OF PIPE.
B. PIPING INSTALLED UNDERGROUND: PVC PIPE: AWWA C900, CLASS 200, WITH BELL END WITH GASKET, AND WITH SPIGOT END.
C. PIPING INSTALLED ABOVE GROUND 2 INCH AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPE. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH SPECIFICATIONS ASTM A-135 AND A-53.
D. PIPING INSTALLED ABOVE GROUND 2-1/2 INCH AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL PIPE. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH SPECIFICATION ASTM A-135.
E. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED WITH FACTORY-APPLIED ANTIMICROBIAL COATINGS TO INHIBIT MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). ALLIED TUBE AND CONDUIT "ABF II", WHEATLAND TUBE COMPANY "MIC SHIELD" OR EQUAL.
F. SPRINKLER PIPING AND FITTINGS EXPOSED TO WEATHER, USED IN A CORROSIVE ATMOSPHERE, OR AS NOTED ON DRAWINGS SHALL BE GALVANIZED.
G. IN-BUILDING RISERS SHALL BE INSTALLED AS INDICATED ON THE PLANS. RISERS SHALL BE COMPOSED OF A SINGLE EXTENDED 90-DEGREE, FITTING OF FABRICATED 304 STAINLESS STEEL TUBING, MAXIMUM WORKING PRESSURE 300 PSI. THE FITTING SHALL HAVE A GROOVED-END CONNECTION ON THE OUTLET (BUILDING) SIDE AND A CIPS COUPLER ON THE INLET (UNDERGROUND) SIDE. THE IN-BUILDING RISER SHALL BE AN AMES FIRE & WATERWORKS SERIES IBR (OR EQUAL).
H. SADDLE TEE BRANCH FITTING NOT ALLOWED.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ERG
ERG P.N. 24.121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401
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JASON CHRISTOPHER GROSSI
LICENSED PROFESSIONAL ENGINEER
01/16/26
17087
STATE OF MISSISSIPPI

FIRE PROTECTION SPECIFICATIONS

FP002

PRODUCTS (CONTINUED)

PIPE AND TUBE FITTINGS

A. CAST-IRON THREADED FLANGES: ASME B16.1.

B. CAST-IRON THREADED FITTINGS: ASME B16.4.

C. DUCTILE-IRON FITTING: AWWA C110, DUCTILE-IRON OR CAST-IRON TYPE; OR AWWA C153, DUCTILE-IRON, COMPACT MECHANICAL-JOINT TYPE. INCLUDE CEMENT-MORTAR LINING AND SEAL COAT ACCORDING TO AWWA C104 AND GLANDS, RUBBER GASKETS, AND BOLTS AND NUTS ACCORDING TO AWWA C111.

D. DUCTILE-IRON FITTINGS: ASTM A47, MALLEABLE-IRON OR ASTM A 536 DUCTILE-IRON CASTING COMPLYING WITH AWWA PIPE SIZE; WITH ENDS FACTORY GROOVED ACCORDING TO AWWA C606.

E. PVC FITTINGS: AWWA C900, CLASS 200, WITH BELL-AND-SPIGOT OR DOUBLE-BELL ENDS. INCLUDE ELASTOMERIC GASKET IN EACH BELL.

F. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3.

G. STEEL, THREADED COUPLINGS: ASTM A 865.

H. STEEL WELDING FITTINGS: ASTM A 234/A 234M, ASME B16.9, OR ASME B16.11.

I. STEEL FLANGES AND FLANGED FITTINGS: ASME B16.5.

SUPPORTS AND ANCHORS

A. SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF NFPA 13. U-HOOK HANGERS USED AS SWAY BRACING SHALL HAVE LEGS BENT OUT 10 DEGREES AND SHALL HAVE A SLENDERNESS RATIO NOT EXCEEDING 200.

B. CONCRETE INSERTS: UNI-STRUT P-3200 CONTINUOUS INSERT OR M24 SPOT INSERT KIN-LINE OR EQUAL. DO NOT USE POWDER ACTUATED FASTENERS FOR SUPPORT OF OVERHEAD PIPING UNLESS APPROVED BY ARCHITECT.

C. ALL INTERIOR SUPPORTS TO AND FASTENERS TO BE ZINC PLATED STEEL.

D. ALL SUPPORTS AND FASTENERS EXSPOSED TO WEATHER TO BE HOT DIPPED GALVANIZED.

VALVES

A. PROVIDE VALVES, UL LISTED, AND FM APPROVED, IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND EQUIPMENT CONNECTIONS.

1. GATE VALVES: PROVIDE IRON GATE CONTROL VALVE, OUTSIDE SCREW AND YOKE (OS&Y), 175-LB RATED WORKING PRESSURE, OF SIZES INDICATED, TO CLOSE BY TURNING TO THE RIGHT AND TO BE SEALED WITH APPROVED METAL SEALS. VALVES SHALL BE IRON BODY, BRONZE FITTED. VALVES 2 INCHES AND SMALLER SHALL BE SCREWED AND VALVES OVER 2 INCHES SHALL BE FLANGED. FOR REFERENCE PURPOSES, MUELLER A-2073-6, GRINNELL, KENNEDY, STOCKHAM, OR EQUAL.

2. BUTTERFLY VALVE: PROVIDE UL LISTED FM APPROVED BUTTERFLY VALVES (SLOW-CLOSE) WITH POSITION INDICATORS. ELECTRIC MOTOR OPERATED VALVES SHALL BE NORMALLY OPEN AND SHALL FAIL IN THE OPEN POSITION. FOR REFERENCE PURPOSES, MUELLER B-3211, GRINNELL, KENNEDY, STOCKHAM, OR EQUAL.

3. SWING CHECK VALVES: PROVIDE UL LISTED FLANGED, SWING TYPE, IRON BODY, BRONZE SEAT RING AND DISC RING, AND 175 PSI PRESSURE RATING. FOR REFERENCE PURPOSES, MUELLER A-2120-6, GRINNELL, KENNEDY, STOCKHAM, OR EQUAL.

4. RISER DRAIN VALVES: MAIN RISER DRAIN VALVES SHALL BE ANGLE OR GLOBE TYPE, BRONZE BODY, SCREWED, 200 PSI PRESSURE RATING, 2 INCHES SIZE, WITH RENEWABLE COMPOSITION SOFT DISC. FOR REFERENCE PURPOSES, GRINNELL 3210, STOCKHAM, NIBCO, FAIRBANKS OR EQUAL.

5. AUXILIARY DRAIN VALVE: VALVES FOR AUXILIARY DRAINS AND OWNER'S TEST CONNECTIONS SHALL BE GLOBE TYPE, BRONZE BODY, SCREWED, 200 PSI PRESSURE RATING, 1-INCH SIZE WITH A RENEWABLE COMPOSITION SOFT DISC. FOR REFERENCE PURPOSES, GRINNELL 3210, STOCKHAM, NIBCO, FAIRBANKS OR EQUAL.

6. INDICATING VALVES, 2-1/2 INCHES AND SMALLER: UL 1091; BUTTERFLY OR BALL-TYPE, BRONZE BODY WITH THREADED ENDS; AND INTEGRAL INDICATING DEVICE.

7. INDICATOR POSTS: UL 789, VERTICAL TYPE, CAST IRON BODY, WITH WINDOWS FOR TARGET PLATES THAT INDICATE VALVE POSITION, EXTENSION ROD AND COUPLING, LOCKING DEVICE, AND RED ENAMEL FINISH.

8. SWING CHECK VALVES, 2 INCHES AND SMALLER: UL 312 OR MSS SP-80, CLASS 150; BRONZE BODY WITH BRONZE DISC AND THREADED ENDS.

9. SWING CHECK VALVES, 2-1/2 INCHES AND LARGER: UL 312, CAST-IRON BODY AND BOLTED CAP, WITH BRONZE DISC OR CAST-IRON DISC WITH BRONZE-DISC RING AND FLANGED ENDS.

FIRE PROTECTION SPECIALTIES

A. PROVIDE FIRE PROTECTION SPECIALTIES, UL LISTED, IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE SIZES AND TYPES THAT MATCH PIPING AND EQUIPMENT CONNECTIONS.

1. INSTALL DRAINS ON MAIN RISERS AND AUXILIARY DRAINS AT ALL LOW POINTS IN THE SYSTEM.

2. ONE OWNER'S TEST DRAIN SHALL BE INSTALLED FOR EACH SPRINKLER SYSTEM.

3. PROVIDE DRAIN LINE TO FLOOR SINK OR TO OUTSIDE, AS REQUIRED, TO SUIT PROJECT CONDITIONS.

4. FIVE OR FEWER TRAPPED HEADS WILL NOT REQUIRE A DRAIN VALVE BUT MAY BE DRAINED THROUGH A PLUGGED FITTING.

5. PIPE DRAIN VALVES TO A FLOOR SINK OR TO THE OUTSIDE OF THE BUILDING. DISCHARGE SHALL BE VISIBLE FROM SIGHT DRAIN FITTING OR OPEN-END DRAINPIPE. PROVIDE FLUSHING CONNECTIONS AT ENDS OF ALL CROSS MAINS.

6. FLOW ALARM: FURNISH AND INSTALL A FLOW ALARM SYSTEM FOR EACH MAIN SPRINKLER RISER AS SHOWN ON THE DRAWINGS. THE SYSTEMS SHALL BE COMPLETE WITH GRINNELL F-620, VIKING OR EQUAL, FLOW SWITCH. AS PART OF DIVISION 26, WIRE FLOW ALARM TO THE FIRE ALARM CONTROL PANEL. PROVIDE 3/4-INCH CONDUIT AND TWO #14 WIRES FROM THE TAMPER SWITCH TO THE FIRE DEPARTMENT CONTROL PANEL.

7. PROVIDE WIRING BETWEEN SWITCH, BELL, AND JUNCTION BOX. PROVIDE JUNCTION BOX UNDER DIVISION 26. WIRING SHALL MEET THE REQUIREMENTS OF DIVISION 26. ALL CONTROLS SHALL BE IDENTIFIED BY PERMANENT METAL TAGS OR OTHER APPROVED MEANS. ALARM SWITCH SHALL BE UL OR FM APPROVED AND SHALL HAVE ADJUSTABLE RETARD MECHANISM AND TWO SETS OF CONTACTS. WIRING BETWEEN ELECTRICAL DISTRIBUTION PANEL AND JUNCTION BOX WILL BE PROVIDED UNDER DIVISION 26.

8. WATER-FLOW INDICATORS: UL 346; ELECTRICAL-SUPERVISION, VANE-TYPE WATER-FLOW DETECTOR; WITH 250-PSIG PRESSURE RATING; AND DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATION. INCLUDE TWO SINGLE-POLE, DOUBLE-THROW, CIRCUIT SWITCHES FOR ISOLATED ALARM AND AUXILIARY CONTACTS, 7 A, 125-V AC AND 0.25 A, 24-V DC; COMPLETE WITH FACTORY-SET, FIELD-ADJUSTABLE RETARD ELEMENT TO PREVENT FALSE SIGNALS AND TAMPERPROOF COVER THAT SENDS SIGNAL IF REMOVED.

9. PRESSURE SWITCHES: UL 753; ELECTRICAL-SUPERVISION-TYPE, WATER-FLOW SWITCH WITH RETARD FEATURE. INCLUDE SINGLE-POLE, DOUBLE-THROW, NORMALLY CLOSED CONTACTS, AND DESIGN THAT OPERATES ON RISING PRESSURE AND SIGNALS WATER FLOW.

10. VALVE SUPERVISORY SWITCHES: UL 753; ELECTRICAL; SINGLE-POLE, DOUBLE THROW; WITH NORMALLY CLOSED CONTACTS. INCLUDE DESIGN THAT SIGNALS CONTROLLED VALVE IS IN OTHER THAN FULLY OPEN POSITION, GRINNELL MODEL F640, VIKING OR EQUAL, WITH SINGLE POLE DOUBLE THROW SWITCH ACTUATOR INSTALLED TO CHANGE SWITCH POSITION WHEN OS&Y VALVE IS BEING CLOSED.

11. INDICATOR-POST SUPERVISORY SWITCHES: UL 753; ELECTRICAL; SINGLE-POLE, DOUBLE THROW, WITH NORMALLY CLOSED CONTACTS. INCLUDE DESIGN THAT SIGNALS CONTROLLED INDICATOR-POST VALVE IS IN OTHER THAN FULLY OPEN POSITION.

12. AS PART OF DIVISION 26, WIRE SUPERVISORY SWITCH TO THE FIRE ALARM CONTROL PANEL, PROVIDE 3/4-INCH CONDUIT AND TWO #14 WIRES FROM THE TAMPER SWITCH TO THE FIRE DEPARTMENT CONTROL PANEL.

PRODUCTS (CONTINUED)

AUTOMATIC SPRINKLERS

A. PROVIDE AUTOMATIC SPRINKLERS IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE FUSIBLE LINKS OR GLASS BULBS FOR 165 DEGREES F. UNLESS OTHERWISE NOTED; UL OR FM APPROVED.

B. TYPE: SPRAY PATTERN TYPE, AUTOMATIC CLOSED-TYPE HEADS OF ORDINARY DEGREE TEMPERATURE RATING, EXCEPT THAT SPRINKLERS TO BE INSTALLED IN VICINITY OF HEATING EQUIPMENT SHALL BE OF TEMPERATURE RATINGS REQUIRED FOR SUCH LOCATIONS BY THE CURRENTLY ADOPTED EDITION OF NFPA 13.

C. SPRINKLER HEADS SHALL BE UL OR FM LISTED.

1. EXPOSED LOCATIONS: PROVIDE UPRIGHT TYPE HEADS AT ALL AREAS WITH NO FINISHED CEILINGS.

2. WHERE HEADS ARE LOCATED AT HEIGHT OF LESS THAN 8 FEET ABOVE FINISHED FLOOR, OR WHERE HEADS ARE LOCATED IN MECHANICAL EQUIPMENT AREAS, PROVIDE WIRE GUARDS TO PROTECT HEADS FROM DAMAGE.

3. CONCEALED LOCATIONS: PROVIDE UPRIGHT-TYPE HEADS OR PENDENT-TYPE HEADS.

4. SIDEWALL LOCATIONS: WHERE REQUIRED AND WHERE APPROVED BY THE ARCHITECT.

5. FINISHED CEILINGS: LOCATE AT ALL CEILINGS WITH LAY-IN ACOUSTICAL TILE CEILING AND AT PLASTER OR GYPSUM BOARD TYPE CEILINGS. PROVIDE CONCEALED TYPE HEADS ENAMEL METALLIC COVER IN CEILINGS OF FINISHED SPACES. METALLIC COVER COLOR SHALL BE SELECTED BY THE ARCHITECT.

6. WHERE FIRE SPRINKLER HEADS ARE LOCATED IN ROOMS WITH SURFACE MOUNTED LIGHTS (OR OTHER OBSTRUCTIONS), PROVIDE MULTIPLE CONCEALED TYPE HEADS WITH ENAMEL METALLIC COVER IN CEILINGS OF FINISHED SPACES. METALLIC COVER COLOR SHALL BE SELECTED BY THE ARCHITECT.

7. WHERE FIRE SPRINKLER HEADS ARE LOCATED IN SECURE CEILINGS, PROVIDE INSTITUTIONAL/ANTI-LIGATURE HEADS IN SECURE CEILINGS.

8. WHERE FIRE SPRINKLER HEADS ARE LOCATED IN ROOMS (UTILITY ROOMS, MECHANICAL ROOMS, ETC.) WITH SURFACE MOUNTED LIGHTS, PROVIDE 2- PIECE ADJUSTABLE SPRINKLER ESCUTCHEON, WITH ADJUSTMENT FROM 1-7/8" TO 3-1/8" BELOW FINISHED CEILING. FIRE SPRINKLER DROP NIPPLE SHOULD BE MOUNTED 2-1/4" BELOW THE FINISHED CEILING SURFACE.

9. SPRINKLER HEADS IN LIGHT HAZARD AREA SHALL BE QUICK RESPONSE TYPE.

10. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE USED.

D. SPRINKLER GUARDS: WIRE-CAGE TYPE, INCLUDING FASTENING DEVICE FOR ATTACHING TO SPRINKLER.

E. SPRINKLER CABINET AND WRENCH: FURNISH STEEL, BAKED RED ENAMELED, SPRINKLER BOX WITH CAPACITY TO STORE SPRINKLERS AND WRENCH SIZED TO SPRINKLERS. SPARE SPRINKLERS AND WRENCHES CALLED FOR UNDER "EXTRA STOCK."

FIRE DEPARTMENT CONNECTIONS

A. EXPOSED INLET TYPE, FIRE DEPARTMENT CONNECTIONS: UL 405, 175-PSIG MINIMUM PRESSURE RATING; WITH CORROSION-RESISTANT-METAL BODY WITH BRASS INLETS, BRASS WALL ESCUTCHEON PLATE, BRASS LUGGED CAPS WITH GASKETS AND BRASS CHAINS, AND BRASS LUGGED SWIVEL CONNECTIONS. INCLUDE INLETS WITH THREADS ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT SIZES AND THREADS, OUTLET WITH PIPE THREADS, CHECK DEVICES OR CLAPPERS FOR INLETS, AND ESCUTCHEON PLATE WITH MARKING SIMILAR TOO "AUTO SPKR.". FINISH: POLISHED CHROME-PLATED.

B. EXPOSED, FREE-STANDING TYPE, FIRE DEPARTMENT CONNECTIONS: UL 405, 175-PSIG MINIMUM PRESSURE RATING; WITH CORROSION-RESISTANT-METAL BODY WITH BRASS INLETS, BRASS WALL ESCUTCHEON PLATE, BRASS LUGGED CAPS WITH GASKETS AND BRASS CHAINS, AND BRASS LUGGED SWIVEL CONNECTIONS. INCLUDE INLETS WITH THREADS ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT SIZES AND THREADS, OUTLET WITH PIPE THREADS, CHECK DEVICES OR CLAPPERS FOR INLETS, AND ESCUTCHEON PLATE WITH MARKING SIMILAR TOO "AUTO SPKR.". FINISH: POLISHED CHROME-PLATED.

PAINTING

A. ALL PIPING SYSTEMS EXPOSED TO VIEW IN EQUIPMENT ROOMS AND IN OCCUPIED BUILDING SPACES SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLING IDENTIFICATION LABELS. COLOR BY ARCHITECT.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS

MEP / FP
JASON GROSSI
jgrossi@ergms.com
601.362.3552

STRUCTURAL
MIKE GODFREY
secondmoment@comcast.net
601.845.1655

CIVIL ENGINEERING
SHELBY MURRAY
shelby@clearpointengineers.com
601.261.2609

ELECTRICAL
CHRIS GREEN
cgreen@thepowersource.us
601.605.4820

LANDSCAPE
AUSTIN LOVITT
austin.lovitt@neel-schaffer.com
601.545.1565

DEVELOPER
WALKER THRASH
walker@vertikalco.com
601.310.4402

ERG
ERG P.N. 24.121

USM - WESLEY

3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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Issued: 01.16.2026

PROJ. A_2406

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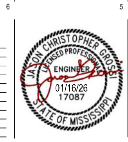
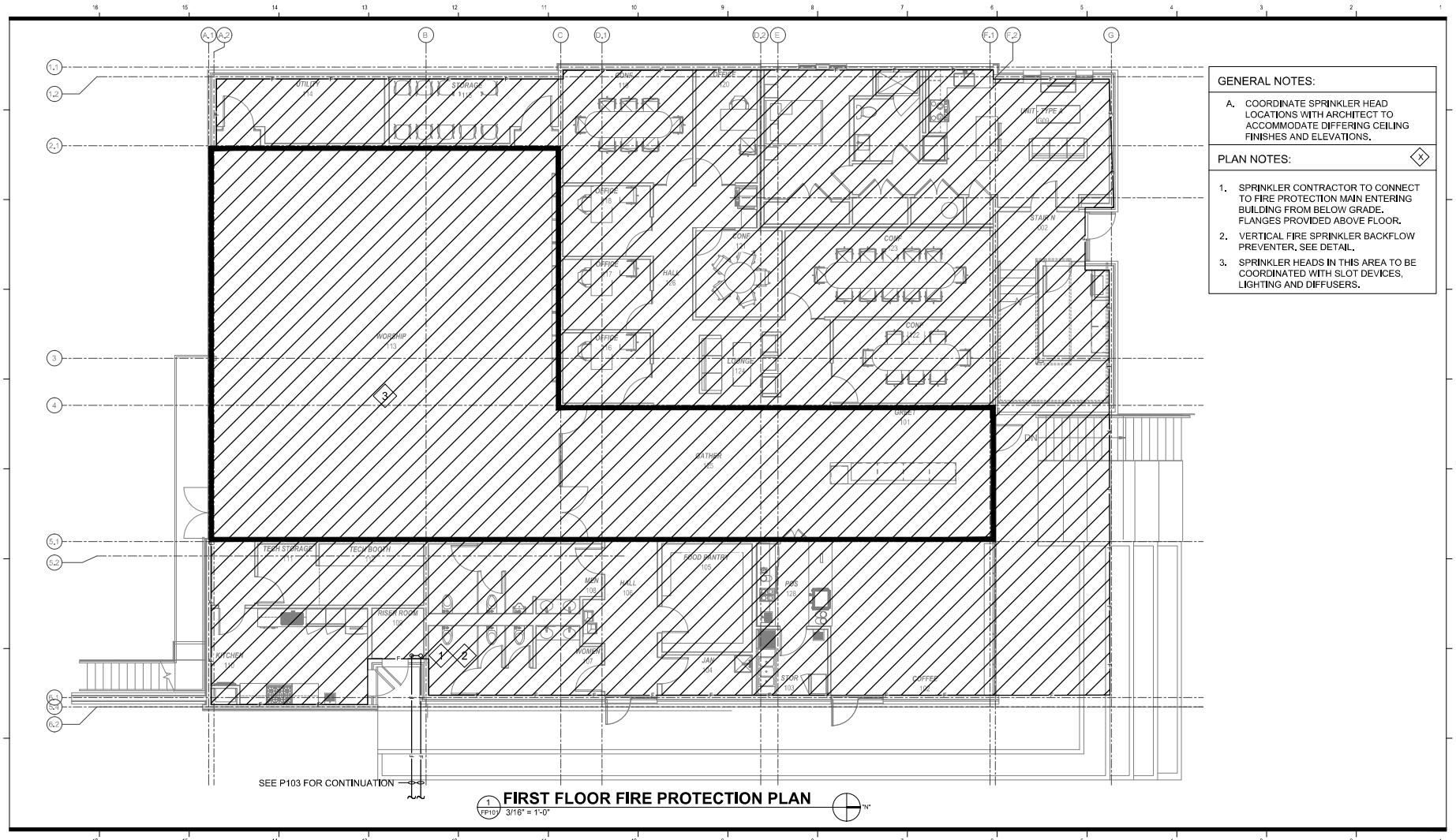


FIRE PROTECTION SPECIFICATIONS

FP003



1 FP101 FIRST FLOOR FIRE PROTECTION PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECT TO ACCOMMODATE DIFFERING CEILING FINISHES AND ELEVATIONS.

PLAN NOTES:

1. SPRINKLER CONTRACTOR TO CONNECT TO FIRE PROTECTION MAIN ENTERING BUILDING FROM BELOW GRADE. FLANGES PROVIDED ABOVE FLOOR.
2. VERTICAL FIRE SPRINKLER BACKFLOW PREVENTER. SEE DETAIL.
3. SPRINKLER HEADS IN THIS AREA TO BE COORDINATED WITH SLOT DEVICES, LIGHTING AND DIFFUSERS.

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECT'S CONSULTANTS
MEP / FP
JASON GROSS
ELECTRICAL
CHRIS GREEN
DEVELOPER
WALKER THRASH
STRUCTURAL
NIKE GODFREY
LANDSCAPE
AUSTIN LOVETT
CIVIL ENGINEERING
SHELBY MURRAY

ERG
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USM - WESLEY
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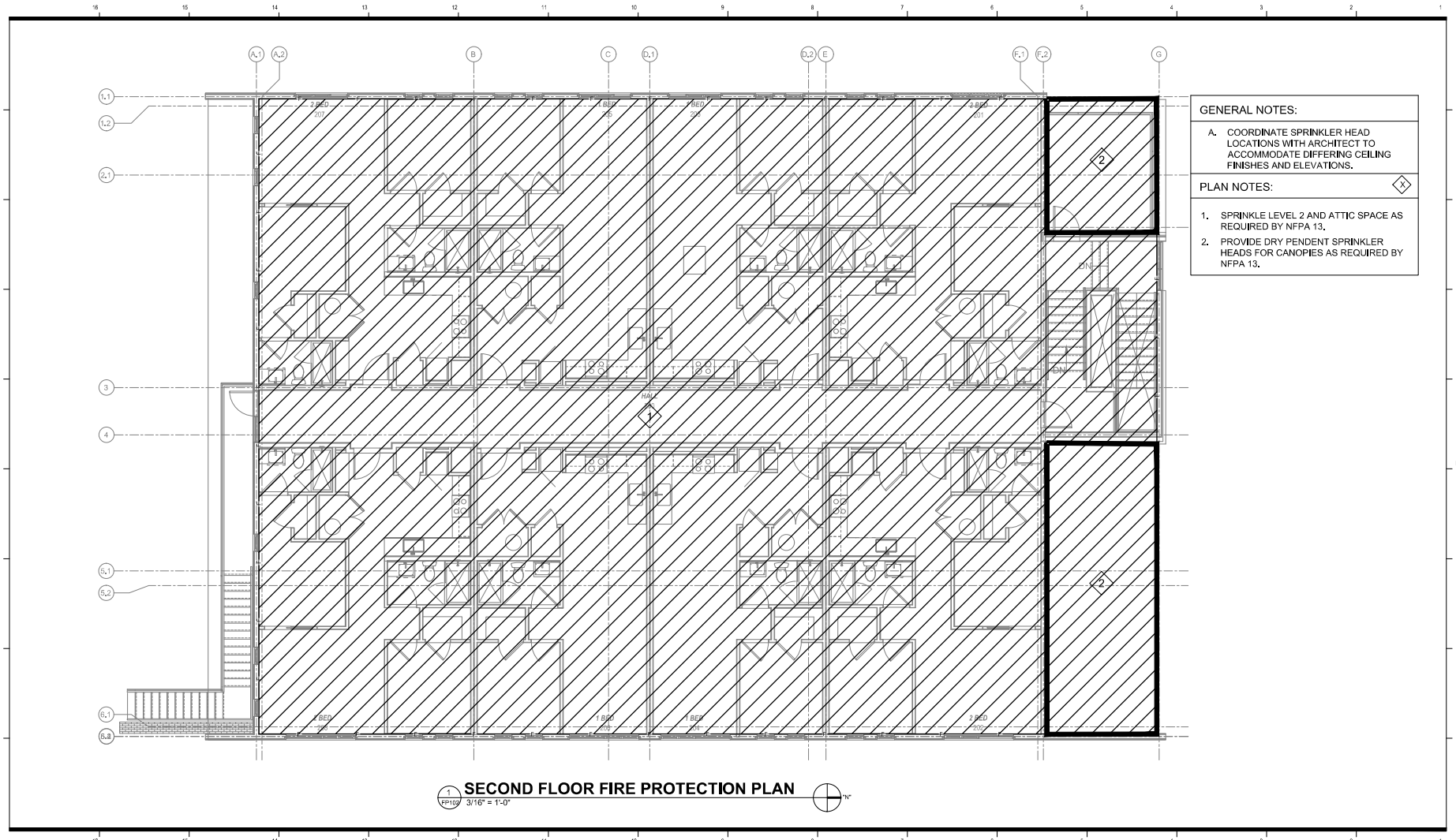
FIRST FLOOR FIRE PROTECTION PLAN

FP101



KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS

MEP / FP
JASON GROSS

ELECTRICAL
CHRIS GREEN

DEVELOPER
WALKER THRASH

STRUCTURAL
NIKE GODFREY

LANDSCAPE
AUSTIN LOVETT

CIVIL ENGINEERING
SHELBY MURRAY

ERG
ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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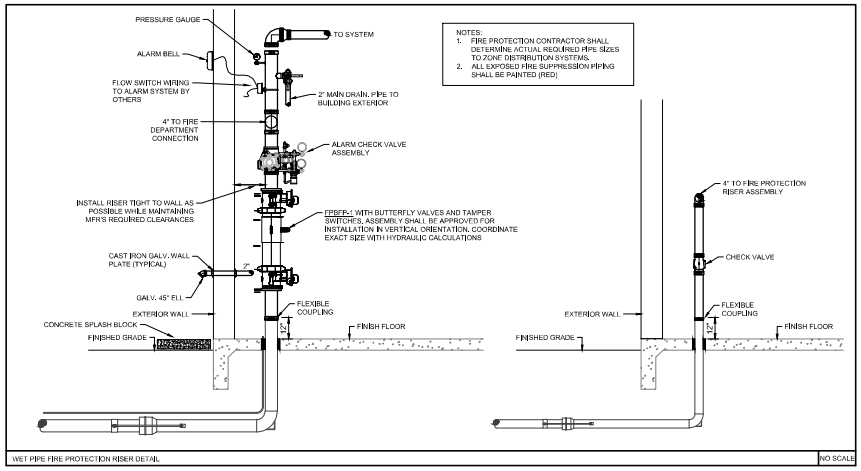
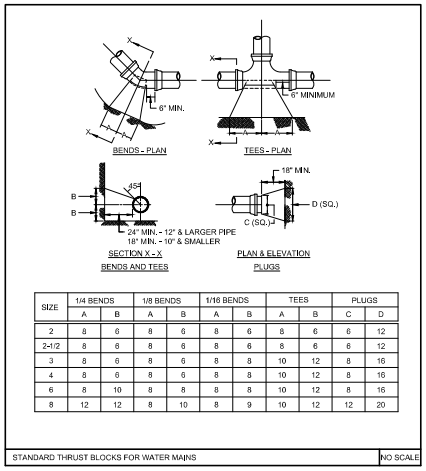
17087
STATE OF MISSISSIPPI

SECOND FLOOR FIRE PROTECTION PLAN

FP102



WET PIPE FIRE PROTECTION RISER DETAIL — NO SCALE



SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
2	8	6	8	6	8	6	8	6	6	12
2-1/2	8	6	8	6	8	6	8	6	6	12
3	8	6	8	6	8	8	10	12	8	16
4	8	6	8	6	8	8	10	12	8	16
6	8	10	8	8	8	8	10	12	8	16
8	12	12	8	10	8	9	10	12	12	20

STANDARD THRUST BLOCKS FOR WATER MAINS — NO SCALE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@mepeng.com
601.265.2552
STRUCTURAL
MIKE GODFREY
mikeGodfrey@jamesAnd
601.265.1955
CIVIL ENGINEERING
SHELBY MURRAY
smurray@deepsouthengineers.com
601.261.2808
ELECTRICAL
CHRIS GREEN
cgreen@mepeng.com
601.265.2552
LANDSCAPE
AUSTIN LOVETT
austinLovett@meadandhatfield.com
601.265.1955
DEVELOPER
WALKER THRASH
walker@scmdev.com
601.270.4487

ERG
ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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CHRISTOPHER GROSS — REGISTERED PROFESSIONAL ENGINEER — STATE OF MISSISSIPPI — 01/16/26 — 17087

FIRE PROTECTION DETAILS

FP501

MISCELLANEOUS FIRE PROTECTION POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
RISER	FIRE PROTECTION RISER VALVE	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
EAB	ELECTRIC ALARM BELL	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	LOCATED ON WALL ADJACENT TO FIRE PROTECTION RISER ROOM. SEE FIRE PROTECTION RISER DETAIL FOR ADDITIONAL INFORMATION.
FS	ZONE 1 FIRE PROTECTION FLOW SWITCH	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.

FIRE PROTECTION BACKFLOW PREVENTER

MARK	DESCRIPTION	MAKE	MODEL	SERVES	REMARKS
FPBFP-1	FIRE PROTECTION BACKFLOW PREVENTER	WATTS	757OSY NRS	FIRE PROTECTION	--

VIBRATION ISOLATION/SEISMIC RESTRAINTS

EQUIPMENT TYPE	BASIS OF DESIGN	SEISMIC DESIGN CATEGORY "SDC"	SEISMIC COMPONENT IMPORTANCE FACTOR	REMARKS
FIRE PROTECTION	KINETICS			1, 2

NOTES: 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 2. SEISMICALLY RATED FOR PROJECT CONDITIONS.

MISCELLANEOUS FIRE PROTECTION POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
PIV	POST INDICATOR VALVE	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. VERIFY LOCATION ON SITE.
RISER	FIRE PROTECTION RISER VALVE	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
FLOW	FIRE PROTECTION FLOW SWITCH	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
VAL	SUPERVISED VALVE	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
EAB	ELECTRIC ALARM BELL	DIV 26 ELECTRICAL	DIV 26 FIRE ALARM	120/1	LOCATED ON WALL ADJACENT TO FIRE PROTECTION RISER ROOM. SEE FIRE PROTECTION RISER DETAIL FOR ADDITIONAL INFORMATION.

FIRE SUPPRESSION PIPING TEST LOG (PER NFPA REQUIREMENTS

DATE	SYSTEM	DESCRIPTION OF PIPING SECTION TESTED	TEST PRESSURE (PSIG)	TEST DURATION (HOURS)	RETULTS (PASS/FAIL)	WITNESS (INITIALS)

This form stall be completed and submitted with the project closeout documents. Contractor shall copy this form if more sheets are required. Piping pressure test log shall be kept at project site and shall be made available to the Architect upon request.

FIRE PROTECTION CLOSEOUT DOCUMENT CHECKLIST

PROJECT NAME:

INITIALS OF PERSON COMPLETING TASK	DATE OF TASK COMPLETED	DESCRIPTION OF CONTRACTORS SUBMITTAL
		SIGNED LETTER RECORD OF OWNERS PERSONNEL O & M TRAINING.
		DVD RECORD OF OWNERS PERSONNEL O & M TRAINING (3 EACH).
		VALVE TAG AND FLOOR PLAN LOCATION CHARTS.
		PIPE PRESSURE TEST LOG. PIPE PRESSURE TEST PER NFPA 13.
		PROVIDE COPY OF INSTALLATION AND MATERIAL CERTIFICATE PER NFPA 13.

FIRE PROTECTION SUBMITTAL REQUIREMENTS

ITEM	PRODUCT DATA	SAMPLES	SHOP DRAWING
PIPING, FITTING, VALVES	R	--	--
SPRINKLER HEADS	R	--	R
GAUGES	R	--	R
SLEEVES AND ESCHUTCHEONS	R	--	--
FLOW AND TAMPER SWITCHES	R	--	R
ALARM BELLS	R	--	R
PIPE HANGERS AND SUPPORTS	R	--	R
IDENTIFICATION SIGNS	R	--	--
SPRINKLER HEAD CABINETS	R	--	R
HOSE VALVE CABINETS	R	--	R
COORDINATION DRAWINGS	--	--	R
AHJ APPROVAL LETTER	--	--	R
INSURANCE UNDERWRITER'S APPROVAL LETTER	--	--	R
HYDRAULIC CALCULATIONS	--	--	R
STATIC AND RESIDUAL FLOW TEST RESULTS	--	--	R
WRITTEN STATEMENT WITH NICET LEVEL 3 EMPLOYEE	R	--	--

NOTES: "R" MEANS REQUIRED.
"RJ" MEANS REQUIRED ONLY FOR PRODUCTS AND EQUIPMENT DIFFERING FOR THE SPECIFIED MANUFACTURER AND MODEL AND FOR "OR EQUALS" WHERE SPECIFIED.

FIRE PROTECTION PIPE SCHEDULE

LOCATION	PIPE MATERIALS ≤SIZE	MATERIAL	TYPE/ SCHEDULE	>SIZE	MATERIAL	TYPE/ SCHEDULE	REMARKS
ABOVE GRADE	2"	BLACK STEEL	SCH 40	2-1/2"	BLACK STEEL	SCH 10	ALL PIPING SHALL BE PROVIDED WITH FACTORY-APPLIED ANTIMICROBIAL COATINGS TO INHIBIT MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). WHEATLAND "MIC SHIELD". ALLIED TUBE AND CONDUIT "ABF II", OR EQUAL. STEEL THREADED COUPLING (ASTM A865), MALLEABLE-IRON THREADED FITTING (ASME B16.3), PAINT ALL EXPOSED PIPING AND INCLUDING FIRE PROTECTION RISER, COLOR BY ARCHITECT.
IN-BUILDING RISER	ALL	STAINLESS STEEL	TYPE 304	--	--	--	IN-BUILDING RISERS SHALL BE INSTALLED AS INDICATED ON THE PLANS. RISERS SHALL BE COMPOSED OF A SINGLE EXTENDED 90-DEGREE FITTING OF FABRICATED 304 STAINLESS STEEL TUBING, MAXIMUM WORKING PRESSURE 300 PSI. THE FITTING SHALL HAVE A GROOVED-END CONNECTION ON THE OUTLET (BUILDING) SIDE AND A CIPS COUPLER ON THE INLET (UNDERGROUND) SIDE. THE IN-BUILDING RISER SHALL BE AN AMES FIRE & WATERWORKS SERIES IBR, OR EQUAL.
BELOW GRADE	ALL	PVC	AWWA C900 CLASS 200	--	--	--	FITTINGS TO BE AWWA C900 BELL AND SPIGOT OR DOUBLE ENDS WITH ELASTOMERIC GASKET IN EACH BELL.
BELOW GRADE	ALL	DUCTILE IRON	AWWA C111/C151	--	--	--	FITTINGS TO BE ASTM A47 AWWA C110, DUCTILE-IRON OR CAST-IRON TYPE, OR AWWA C153, DUCTILE-IRON, COMPACT MECHANICAL-JOINT TYPE. INCLUDE CEMENT-MORTAR LINING AND SEAL COAT ACCORDING TO AWWA C104 AND GLANDS, RUBBER GASKETS, AND BOLTS AND NUTS ACCORDING TO AWWA C111. FACTORY GROOVED AWAA C606.

JOINING METHODS:

A. GROOVED-END PIPE COUPLINGS: UL 213 AND AWWA C606, RIGID PATTERN, UNLESS OTHERWISE INDICATED; GASKETED FITTING MATCHING STEEL PIPE OD. INCLUDE DUCTILE-IRON HOUSING WITH KEYS MATCHING STEEL PIPE FITTING GROOVES, PRE-LUBRICATED RUBBER GASKET LISTED FOR USE WITH HOUSING AND STEEL BOLTS AND NUTS. INCLUDE LISTING FOR DRY-PIPE SERVICE FOR COUPLINGS FOR DRY PIPING.
B. STEEL, GROOVED-END FITTINGS: UL-LISTED AND FM APPROVED, ASTM A47, MALLEABLE IRON OR ASTM A 536, DUCTILE IRON, WITH DIMENSIONS MATCHING STEEL PIPE AND ENDS FACTORY GROOVED ACCORDING TO AWWA C606.
C. TRANSITION COUPLINGS: AWWA C219, SLEEVE TYPE, OR OTHER MANUFACTURED FITTING THE SAME SIZE AS, WITH PRESSURE RATING AT LEAST EQUAL TO, AND WITH ENDS COMPATIBLE WITH PIPING TO BE JOINED.

ABBREVIATIONS:

AWWA AMERICAN WATER WORKS ASSOCIATION
SCH SCHEDULE

KEM STUDIO
1515 GENESSEE ST SUITE 11
KANSAS CITY MO 64102
t 816 756 1808
kemstudio.com

ARCHITECTS CONSULTANTS
MEP / FP
JASON GROSS
jgross@kempm.com
601.265.2552

STRUCTURAL
MIKE GODFREY
mikeGodfrey@joneswalker.com
601.949.4668

CIVIL ENGINEERING
SHELBY MURRAY
smurray@dunnsweeney.com
601.87.2.2808

ELECTRICAL
CHRIS GREEN
cgreen@hopewellsurveys.com
601.264.4670

LANDSCAPE
AUSTIN LOVETT
austinlovett@hawkinsfisher.com
601.265.1955

DEVELOPER
WALKER THRASH
walker@usmlife.com
601.270.4487

ERG
ERG P.N. 24,121

USM - WESLEY
3200 MONTAGUE BLVD
HATTIESBURG, MS 39401

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CHRISTOPHER GROSS LICENSED PROFESSIONAL ENGINEER 01/16/26 17087 STATE OF MISSISSIPPI

FIRE PROTECTION SCHEDULES

FP601

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG BOARD OF ADJUSTMENT

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Sandi Boykins
2. John Eye
3. Shawn Harris, Chair
4. Stacey Ready, Secretary
5. Richard Conville
6. Ronda Norris
7. Herman Dungan

Members Absent:

1. Brandon Williams
2. Jessica Cathey
3. James Hughes
4. Bernard Green, Vice Chair

Staff Present:

1. Wiley Quinn, Director of Urban Development
2. Cory Long, Planning Manager
3. Nathan Satcher, Senior Planner
4. Meridian McDaniel, Planner I

Shawn Harris, Chair, declared the Hattiesburg Board of Adjustment meeting open and in session at 3:34 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Herman Dungan motioned to approve the agenda.

Second:

Stacey Ready.

Vote:

Board Member	Yea	Nay	Other

Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

MINUTES REVIEW

The minutes from the May and June meetings were reviewed.

Motion:

Herman Dungan motioned to approve both May and June's minutes.

Second:

Sandi Boykins.

Vote:

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT

Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

BUSINESS MEETING

1. Planning Report:
2. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Board of Adjustment

Item A: Larry Albert, Applicant, requests a variance from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Sally Hughes

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris		X	
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

Item B: Clearpoint Engineers, Applicant, request a variance from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Eric Davis
- Sarah Newton

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval of the request.

Second:

Sandy Boykins

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye			ABSTAIN
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 6-0-1 vote.

Item C: Laron Smith, Applicant, requests a variance from the residential buffer requirement of 30ft to allow for 0ft for a B-3 (BCO) zoned property located at 1209 Corrine Street (PPIN21809 & 21810, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Laron Smith
- Jammeciq Godfrey

Proponents:

- None

Opponents:

- Kate Smith, President of the Oaks Historic Neighborhood Association
    a. Exhibit C-2
- Jacque Pace
- John McMahan, Farmers Village
- Mary Dryden
- Lee Cook
- Wendi Hill
    a. Exhibit C-3

General Comments:

- Terry Smith
- Chris Vineyard

Motion:

Herman Dungan motioned to recommend denial of the request.

Second:

John Eye.

Board Member	Yea	Nay	Other
Sandi Boykins		X	
Jessica Cathey			ABSENT
Richard Conville		X	
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready			ABSTAIN
Brandon Williams			ABSENT

The motion to recommend denial passed with a 4-2-1 vote.

Item D: United Fence, Applicant, request a variance from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for a I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Johnny Box
- James Davis

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris		X	
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		

Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

BUSINESS MEETING

- Discussion of upcoming text amendment requests.

Quorum was lost at 4:48 pm.

_____

Stacey Ready, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Board of Adjustment's recommendation to approve a variance request from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for an I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).**
File Number: 2026-713
Minute Book #

Summary
Accept the Board of Adjustment's recommendation to approve a variance request from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for an I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1). Board of Adjustment recommended approval on August 5th, 2026.

Recommendation Statement
Board of Adjustment recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Quick Facts:

Applicant:

United Fence

Address:

6892 Hwy 49

Zoning:

I-1 (Industrial)

Future Land Use:

Regional Business Corridor

Historic District:

N/A

Overlay District(s):

N/A

Flood Zone:

AE and SX

Ward:

1

County:

Forrest

PPIN Number(s):

27559

Parcel Number(s):

2-025B-25-060.00

Hattiesburg Board of Adjustment
Planning Division
Item D - Staff Report
August 5th, 2026

Property Image

Applicant's Requests:
United Fence, Applicant, requests a variance from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for an I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).

Background and History

Property and Surrounding Area Image

The applicant was referred to the planning division by code enforcement officers after the installation of a new fence on the property was stopped. The applicants were in the process of installing a 7-ft fence when they were stopped by code enforcement for installing the fence in the front yard. The Land Development Code limits front-yard fences to a maximum height of 4 ft. The applicants spoke with planning staff and decided to apply for a variance to allow the fence to exceed the 4-ft maximum and be 7 ft tall.

Future Land Use:

Regional Business District The Regional Business District is primarily a non-residential district located along major arterial streets and highways. Limited types of residential uses—apartment complexes and second-floor housing in strip commercial or lifestyle centers—are allowed and encouraged to locate in this district. The nature and volume of traffic along these corridors are different from the traffic along other commercial corridors, and therefore, the land uses require special consideration. The land uses in this district may generate a higher volume of regional traffic and/or require frequent access by large trucks and commercial vehicles.

District Characteristics The characteristics of this district include the following: suburban-style commercial centers and big-box buildings; well-positioned and screened outdoor uses; mixed-use buildings and developments; high-density residential developments such as apartment complexes; large, private parking areas; and light industrial campuses and employment centers. Regulations should be established to promote development patterns for these uses that enhance the streetscape, screen outdoor storage and equipment areas from public view, and enable safe circulation among neighboring properties without requiring travel on the street or highway corridor.

District Land Uses The following land uses should be found in this district: high-density residential uses; public and quasi-public uses; hotels and motels; general indoor and outdoor retail uses; heavy commercial and light industrial uses; service and office land uses; and light industrial campuses and corporate offices.

Surrounding Area Image

Codes and Regulations

SECTION 7: Dimensional Standards

7.9.1.7 The maximum height of fences and walls shall be four feet above grade when located in a front yard. Otherwise, the maximum height of a fence is eight feet.

Considerations and Basis for Approval

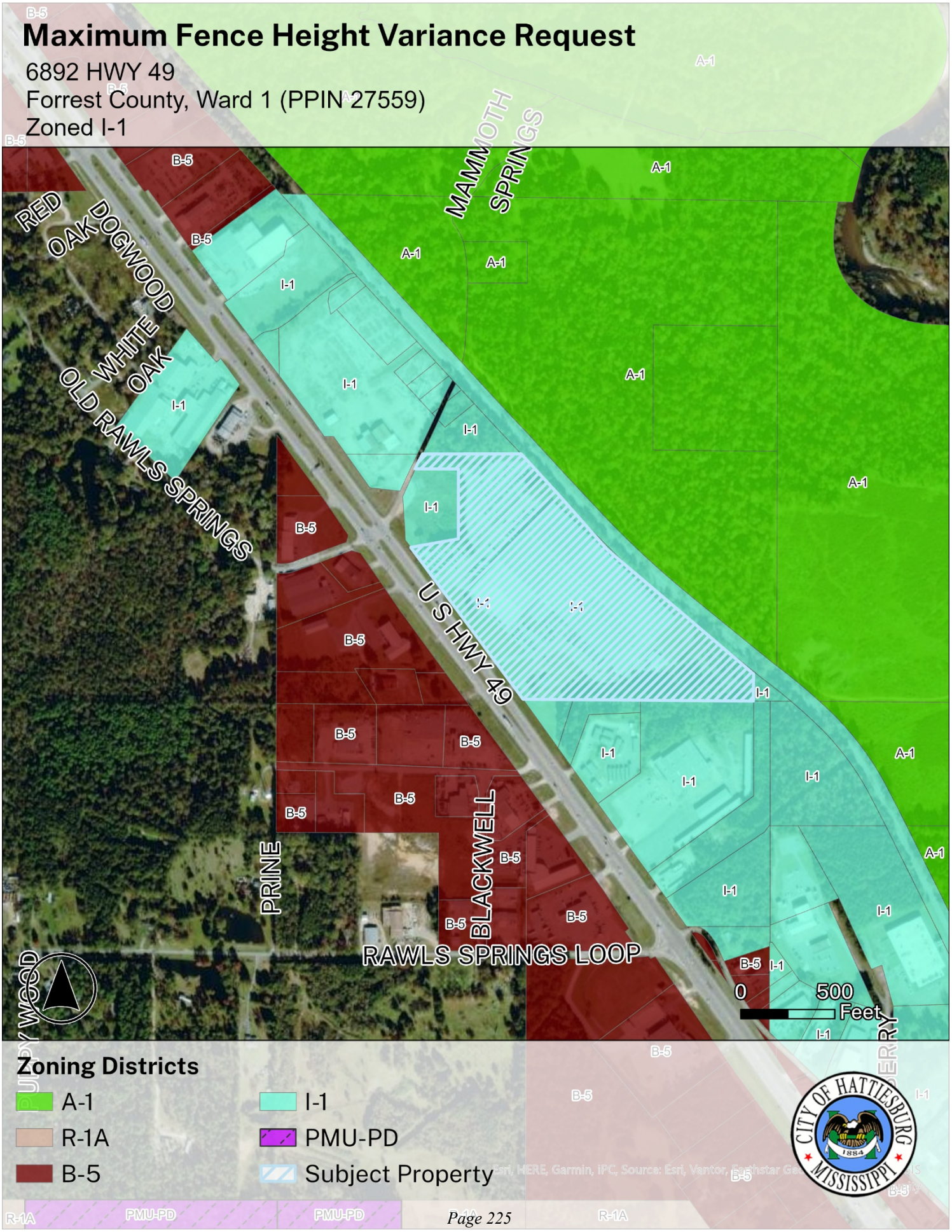
Option:

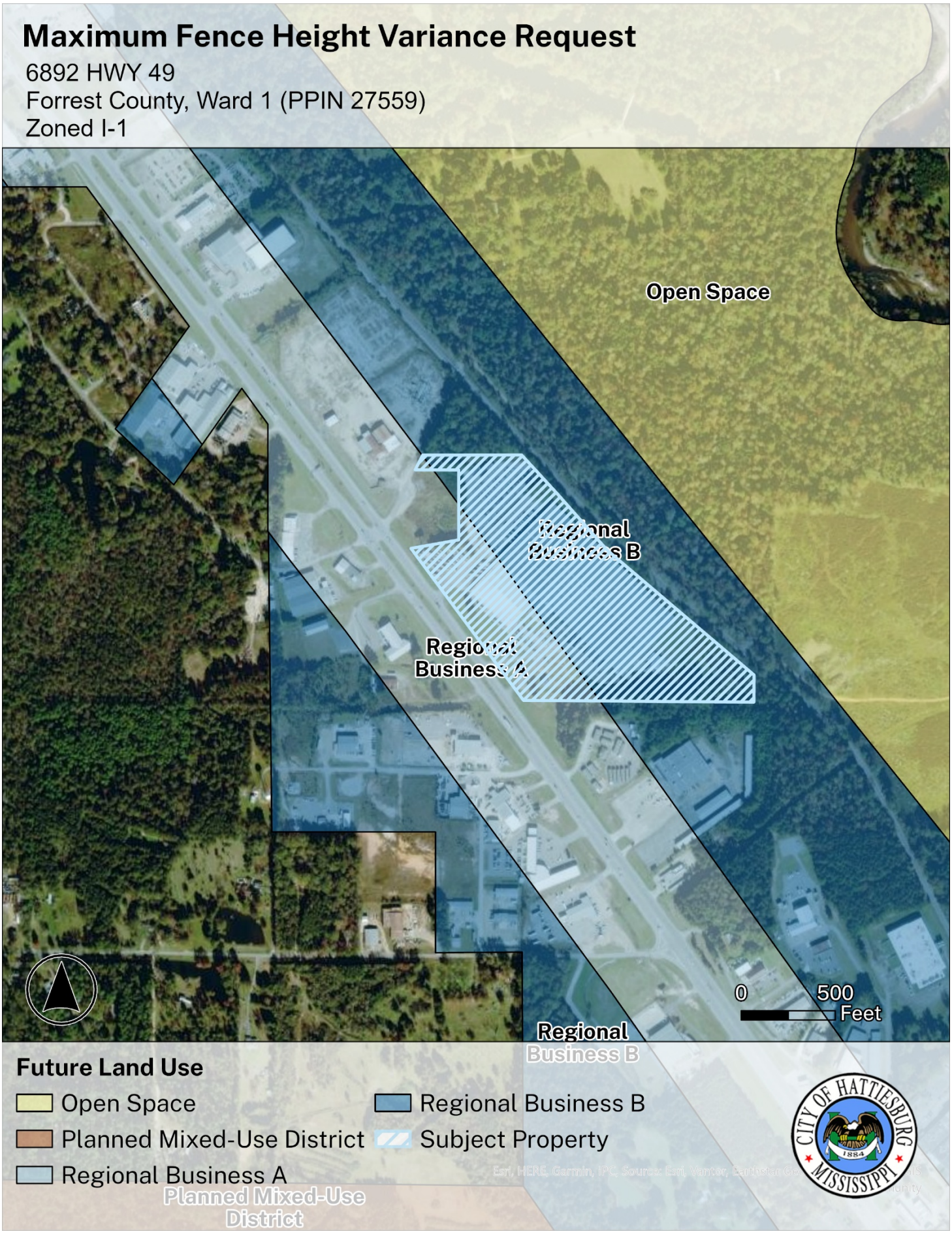
Recommend approval or denial of a variance from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for an I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).

Basis for Approval:

1. Hardship.
    a. The hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant.
    b. There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.
2. Special Privilege.
    a. A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.
3. Literal Interpretation.
    a. The literal interpretation of the provisions of the regulations would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant

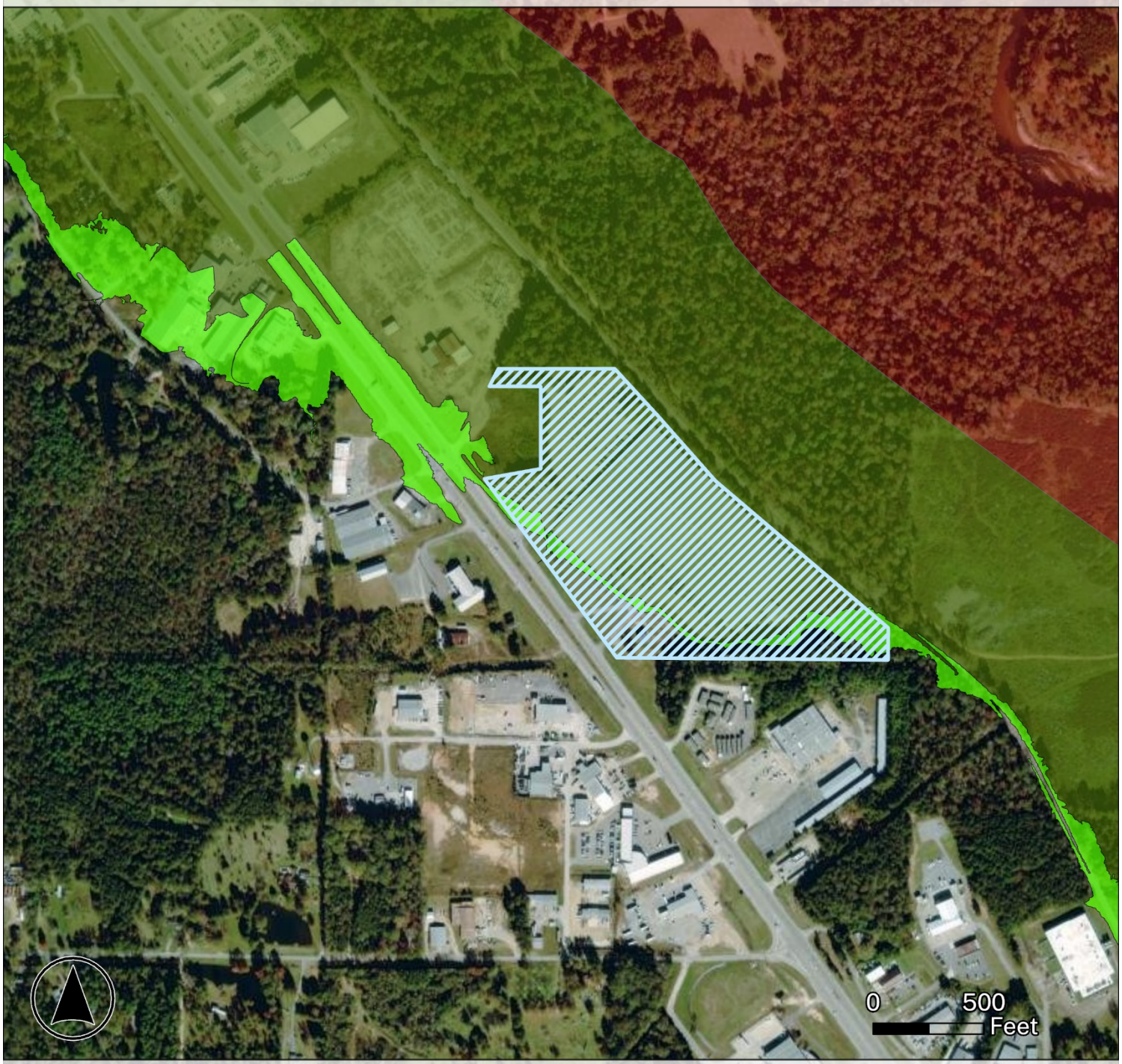
4. Reasonable Use.
    a. The applicant cannot make reasonable use of the property without the requested variance.
5. Minimum Required.
    a. The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.
6. Conformance with the Purposes of this Code.
    a. The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.


Maximum Fence Height Variance Request
6892 HWY 49
Forrest County, Ward 1 (PPIN 27559)
Zoned I-1
MAMMOTH SPRINGS
RED OAK DOGWOOD
WHITE OAK
OLD RAWLS SPRINGS
U S HWY 49
PRINE
BLACKWELL
RAWLS SPRINGS LOOP
0
500
Feet
Zoning Districts
A-1
R-1A
B-5
I-1
PMU-PD
Subject Property


Maximum Fence Height Variance Request
6892 HWY 49
Forrest County, Ward 1 (PPIN 27559)
Zoned I-1
Open Space
Regional Business B
Regional Business A
0
500
Feet
Regional Business B
Future Land Use
Open Space
Planned Mixed-Use District
Regional Business A
Regional Business B
Subject Property
Planned Mixed-Use District
CITY OF HATTIESBURG
1884
MISSISSIPPI

Maximum Fence Height Variance Request

6892 HWY 49
Forrest County, Ward 1 (PPIN 27559)
Zoned I-1



Flood Zones & Wetlands

- FLOODWAY AREA IN ZONE AE
- ZONE A (100 yr flood - no elevation)
- ZONE AE (100 yr flood w / elevation)
- ZONE SX (500 yr flood)
- Subject Property

CITY OF HATTIESBURG 1884 MISSISSIPPI

Esri, HERE, Garmin, [illegible]

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

NOTE:

- **Fill this application out IN FULL with what applies to your application**
- Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code

Applicant Information

Name Applicant: United Fence **Project Name:** Phoenix

Municipal Address of Site: 6892 USHWY 49 North **PPIN #:** 27559

Parcel Number(s): _____

Type of Public Hearing	Additional Information Needed:
☒ Variance	☐ Sign ☐ Setback ☐ Off-Site Parking ☐ Lot Width ☐ Lot Coverage Area ☐ Buffer ☐ Open Space ☒ Other: Fencing 6' tall + 3 Barbed Wire Surrounding Property with Cantilever gates x 2
☐ Rezoning	Existing Zoning: _____ Proposed Zoning: _____
☐ Conditional Use	☐ Automotive Filling Station ☐ Digital Billboard, New ☐ Digital Billboard, Replacement ☐ Telecommunications ☐ Restaurant ☐ Solar Farm ☐ Other: _____
Other Application types: ☐ Subdividing of lot, Parcel, or Tract ☐ Street or Alley Renaming ☐ Vacating Street or Alley	☐ Minor/Major Subdivision ☐ Overlay District ☐ Planned Mixed-Use District (PMU)

For Staff Only:

Zoning:	Historic District:	Flood Zone:	Ward:
I-1	N/A	AE	☒1 ☐2 ☐3 ☐4 ☐5
Project Number: VAR-0626-0041			**Received:**
PPIN # or Parcel #: 27559			

Updated Version 12/04/24

OWNER AFFIDAVIT PAGE

THIS PAGE MUST BE SIGNED IN FRONT OF A NOTARY, BY THE OWNER(S) OF THE SUBJECT PROPERTY

WITNESS THE SIGNATURES of the **OWNER(s)** of the subject property located at

401 E Kilbourn Ave Milwaukee WI,
Street Address City State

on this the 29 day of June, 2026

In the matter of this request, the property owner further authorizes the following named person(s) to represent them at the public hearing on this petition.

United Fence

on this the 29 day of June, 2026.

Owen Ruhl
Property Owner (Print)

Property Owner (Signature)

STATE OF Wisconsin

COUNTY OF Milwaukee

Personally came and appeared before me, the within named
kandice Bop,
who signed and delivered the above and foregoing instrument as and for their free act and deed on the day and year therein mentioned, and who acknowledge to me that they are the owner(s) of the subject property as described in this Public Hearing Application.

GIVEN UNDER MY HAND AND OFFICIAL SEAL OF OFFICE, this the 29th day of June, 2026

NOTARY PUBLIC

SHANNON GEE NOTARY PUBLIC STATE OF WISCONSIN

My Commission Expires:
4/23/2030

Scanned with CamScanner

FOR VARIANCE APPLICANTS:

The Board of Adjustment has the responsibility to hear and make recommendation on requests for variances to the requirements of this Code (per Section 11.4). Section 12.4.1 Variances are departures from the standards of the Land Development Code, except land use, which will not be contrary to the public interest and where, owing to conditions peculiar to the property and not as a result of the action of the applicant, a literal enforcement of this Code would result in unnecessary and undue hardship.

The following conditions must be met before a variance can be recommended.

Approval Criteria.
A variance is not a right, but a privilege that property owners meeting the following criteria may request. These criteria are to be used to consider all variance requests. It shall be the burden of the applicant to prove that the request meets these criteria. Use this worksheet or format your own to demonstrate the following criteria.

1. **Hardship.** (a) the hardship is unique to the property and is not or will not be caused by the actions or inactions of the applicant. (b) There are exceptional conditions creating an undue hardship applicable only to the property involved or the intended use which do not apply generally to the other land areas or uses within the same zoning district.

   This is an Industrial Building. Having a 4 foot tall Fence is not Sufficient for Security over this Property. For Security to be Sufficient, this fence Requires to be a minimum of 6 foot tall With 3 strands of Barbed Wire and Cantilever Gates.

2. **Special Privilege.** A variance shall not confer any special privilege that is denied to other lands or structures in the same zoning district.

   There are multiple Businesses in the area that have this same fence Installed. This new fence will be Identical to the ones surrounding it.

3. **Literal Interpretation.** The literal interpretation of the provision of the regulation would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district and would cause unnecessary and undue hardship on the applicant.

   A 4' foot Fence would cause hardship on the owner as it is not sufficient to secure the dwelling.

4. **Reasonable Use.** The applicant cannot make reasonable use of the property without the requested variance.

   Property owner can not safely store or manage Product without secure fencing.

5. **Minimum Required.** The granting of a variance is the minimum variance that will make possible the reasonable use of the land or structure.

The minimum requirement for fencing around this property is 6' tall galvanized Commercial Grade material with 3-3 strands of Barbed Wire on top and Security Cantilever gates to ensure Safety.

6. **Conformance with Purpose of this Code.** The granting of a variance will not conflict with the purposes and intent expressed or implied in the Land Development Code.

The overall granting of this variance will not conflict with public or Land Development Code

12.4.1.2 Conditions of Approval. In recommending the granting of a variance, the Board of Adjustment may require appropriate conditions and safeguards in conformity with this Code. Violation of such conditions and safeguards, when made a part of the terms under which a variance is granted, shall be deemed a violation of the Code. The recommendation of the Board Adjustment shall be presented to the City Council for final action.

Docusign Envelope ID: 13776AB1-FBC8-8814-81 739596D3FE8

Phoenix Hattiesburg MS Industrial Investors LLC
401 East Kilbourn Avenue, Suite 201
Milwaukee, WI 53202

July 6, 2026

VIA FEDEX

City of Hattiesburg
Permit Department
Building Permits
P.O. Box 1898
Hattiesburg, MS 39403

RE: Notice of Authorized Agent for Phoenix Hattiesburg MS Industrial Investors LLC ("Company"), owner of real property located at 6892 US Hwy 49 North, Hattiesburg, Mississippi 39402 ("Property")

To whom it may concern:

This letter serves as the Company's notice to the City of Hattiesburg that Owen Ruhl is authorized to act as the Company's authorized agent with respect to the Property.

Please contact me at david@phoenixinvestors.com if you have any questions.

Sincerely,

DocuSigned by:
David M. Marks
A7F97D76EAC4451...

David M. Marks
Manager

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG BOARD OF ADJUSTMENT

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Sandi Boykins
2. John Eye
3. Shawn Harris, Chair
4. Stacey Ready, Secretary
5. Richard Conville
6. Ronda Norris
7. Herman Dungan

Members Absent:

1. Brandon Williams
2. Jessica Cathey
3. James Hughes
4. Bernard Green, Vice Chair

Staff Present:

1. Wiley Quinn, Director of Urban Development
2. Cory Long, Planning Manager
3. Nathan Satcher, Senior Planner
4. Meridian McDaniel, Planner I

Shawn Harris, Chair, declared the Hattiesburg Board of Adjustment meeting open and in session at 3:34 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Herman Dungan motioned to approve the agenda.

Second:

Stacey Ready.

Vote:

Board Member	Yea	Nay	Other

Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

MINUTES REVIEW

The minutes from the May and June meetings were reviewed.

Motion:

Herman Dungan motioned to approve both May and June's minutes.

Second:

Sandi Boykins.

Vote:

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT

Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

BUSINESS MEETING

1. Planning Report:
2. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Board of Adjustment

Item A: Larry Albert, Applicant, requests a variance from the 10ft minimum side setback requirement to allow for 1ft for a R-1A zoned property located at 701 Adeline Street (PPIN 19452, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Sally Hughes

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris		X	
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

Item B: Clearpoint Engineers, Applicant, request a variance from the R-3 district residential density maximum of 7 dwelling units to allow for 9 (LDC Table 6.1) for a property zoned R-3 located at 3200 Montague Blvd (PPIN 22975 & 22976, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Eric Davis
- Sarah Newton

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval of the request.

Second:

Sandy Boykins

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye			ABSTAIN
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		
Brandon Williams			ABSENT

The motion to recommend approval passed with a 6-0-1 vote.

Item C: Laron Smith, Applicant, requests a variance from the residential buffer requirement of 30ft to allow for 0ft for a B-3 (BCO) zoned property located at 1209 Corrine Street (PPIN21809 & 21810, Forrest County, Ward 4).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Laron Smith
- Jammeciq Godfrey

Proponents:

- None

Opponents:

- Kate Smith, President of the Oaks Historic Neighborhood Association
    a. Exhibit C-2
- Jacque Pace
- John McMahan, Farmers Village
- Mary Dryden
- Lee Cook
- Wendi Hill
    a. Exhibit C-3

General Comments:

- Terry Smith
- Chris Vineyard

Motion:

Herman Dungan motioned to recommend denial of the request.

Second:

John Eye.

Board Member	Yea	Nay	Other
Sandi Boykins		X	
Jessica Cathey			ABSENT
Richard Conville		X	
Herman Dungan	X		
John Eye	X		
Bernard Green			ABSENT
Shawn Harris	X		
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready			ABSTAIN
Brandon Williams			ABSENT

The motion to recommend denial passed with a 4-2-1 vote.

Item D: United Fence, Applicant, request a variance from the fence height requirement of a maximum of 4ft in a front yard to instead allow for 7ft for a I-1 zoned property located at 6892 Hwy 49 (PPIN 27559, Forrest County, Ward 1).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Johnny Box
- James Davis

Proponents:

- None

Opponents:

- None

Motion:

Herman Dungan motioned to recommend approval of the request.

Second:

Stacey Ready.

Board Member	Yea	Nay	Other
Sandi Boykins	X		
Jessica Cathey			ABSENT
Richard Conville	X		
Herman Dungan	X		
John Eye		X	
Bernard Green			ABSENT
Shawn Harris		X	
James Hughes			ABSENT
Ronda Norris	X		
Stacey Ready	X		

Brandon Williams			ABSENT

The motion to recommend approval passed with a 5-2 vote.

BUSINESS MEETING

- Discussion of upcoming text amendment requests.

Quorum was lost at 4:48 pm.

_____

Stacey Ready, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Planning Commission's recommendation to approve a conditional use request for a “club/bar” for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).**
File Number: 2026-713
Minute Book #

Summary

Accept the Planning Commission's recommendation to approve a conditional use request for a “club/bar” for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).Planning Commission recommended approval on August 5th, 2026.

Recommendation Statement

Planning Commission recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Hattiesburg Planning Commission
Planning Division
Item A - Staff Report
August 5th, 2026

Quick Facts:

Applicant:

Sandra Willis

Address:

211 Old Airport Road

Zoning:

B-2 (Neighborhood Business)

Future Land Use:

Community Business Corridor

Historic District:

N/A

Overlay District(s):

N/A

Flood Zone:

X

Ward:

5

County:

Forrest

PPIN Number(s):

6805

Parcel Number(s):

2-042F-26-178.00

Property Area Image

Applicant's Request:
Sandra Willis, Applicant, requests a conditional use approval for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).

Background and History

Surrounding Area Image

The applicants met with staff for a pre-application meeting with staff on March 5, 2026, to discuss their plans for a pool hall and entertainment venue at 211 Old Airport Road. They explained that the business targets an "older crowd,' providing a place for customers to unwind in the Palmers Crossing area. They also mentioned ongoing efforts to clean the property and restore the existing parking area. Additionally, the applicants proposed allowing a food truck to operate at the site, which would be permitted separately.

Based on the applicants' description of their proposed business, staff identified the club/bar use category that most closely reflected the intended use of the property and explained the process to request a Conditional Use approval. Staff also reviewed parking and building requirements related to this use, such as the need for parking on a hard surface, the option of a shared parking agreement with the laundromat across the street, and relevant ADA and permitting standards.

Surrounding Area Image

Future Land Use:

Community Business District The Community Business District is primarily a non-residential district located along the city's major roadways. In this district, certain residential and non-residential land uses may be found that exhibit suburban development patterns.

District Characteristics The characteristics of this district include the following: moderate-density single-family residences and certain two-family and multi-family uses; mixed-use buildings and developments; suburban-style, higher-intensity business developments that provide services to the entire community; and less-intensive commercial uses than are found in the Regional Business District.

District Land Uses The following land uses should be found in this district: residential uses; public and quasi-public uses, such as churches and schools; and general indoor retail, service and office land uses that do not require the outdoor storage of goods or equipment

Codes and Regulations

SECTION 4: Zoning Districts Established

4.5.9 B-2 Neighborhood Business District.
The purpose of the B-2 District is to provide for retail and personal service uses in locations convenient to residential neighborhoods consistent with comprehensive planning policies. This district is consistent with the Neighborhood Business District in the Comprehensive Plan.

SECTION 5: Use Regulations

5.4.16 Clubs and Bars.

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

5.4.16.2 Off-premises parking for bars in B-3 is not permitted.

Considerations and Basis for Approval

Applicant's Request:
Approve or deny a conditional use request for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).

Basis for Approval:

1. Conditional Use
    a. Uses requiring Planning Commission approval, as noted in the Table of Uses in Section 5 of this Code, shall be approved subject to this Section. Any application for such use must comply with all applicable standards that apply to similar uses and properties in the zoning district in general, the specific conditions listed for that use in Section 5, and the following criteria. Where conflicts exist, the Planning Commission shall determine which criteria apply on a case-by-case basis.
    b. In addition to the standards mentioned above, the applicant for a request for the Planning Commission to approve a use shall be required to demonstrate that his/her proposal addresses the following additional requirements, except that the Planning

Commission may waive any one or more criteria that it determines are not applicable based upon the expected impact of the proposal.

c. Determination that adequate public facilities and services will be available concurrent with the impacts of the development as evidenced by letters of sufficiency from utilities and schools and a determination by the city engineer that the available capacity of existing streets can safely provide access to the site.
d. The proposed development will be compatible with surrounding uses and will protect adjacent properties through the following measures:
e. Protection of privacy. The proposed plan shall provide reasonable visual and auditory privacy for all dwelling units located within and adjacent to the site. Fences, walls, barriers and / or vegetation shall be arranged to protect and enhance the property and to enhance the privacy of on-site and neighboring occupants.
f. Protection of use and enjoyment. The proposed plan shall be designed and arranged to have minimal negative impact on the use and enjoyment of adjoining property.

Compatible design and integration. The use meets all design criteria required by this Code that apply and is designed to integrate well both on and off site.

12.3.5.4.viii. Conditions.

Conditions may be imposed on any application to ensure compliance with the Land Development Code and other rules and regulations and to protect the neighborhood. Conditions may include but are not limited to parking location/design, site design, expiration of approval requiring renewal, intensity of use, occupancy, hours of operation, etc. Such conditions shall be reasonable and related to the expected impacts of the development

Conditional Use Request for Surface Parking - Zoning Map
211 Old Airport Road
Forrest County, Ward 5 (PPIN 6805)
Zoned B-2
CROON
A-2
A-1
R-1C
I-1
B-2
R-1C
COX
A-2
HATTIESBURG
R-1C
CONNER
RAILROAD
ATT
R-1C
B-2
ANNIE
SELMA
PERRY
WASHINGTON
CHANCELLOR
B-3
OLD AIRPORT
B-3
B-2
B-2
DEAS
R-1C
R-1C
R-1C
MALCOLM
DOUGLAS
B-3
HERRIN
PALMER
SULLIVAN
DAWSON
R-1C
R-1C
R-1C
MONROE
0
500
Feet
Zoning Districts
A-1
A-2
R-1C
B-2
B-3
I-1
Subject Property
CITY OF HATTIESBURG
1884
MISSISSIPPI

Conditional Use Request for Surface Parking - Zoning Map

211 Old Airport Road
Forrest County, Ward 5 (PPIN 6805)
Zoned B-2

Future Land Use

- Community Business A
- Neighborhood Conservation District 2
- Subject Property

Microsoft, Vantor, GIS Division, State and Federal Program

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

NOTE:

- **Fill this application out IN FULL with what applies to your application**
- Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code

Applicant Information

Name Applicant: Sandra Willis **Project Name:** PPP Paradise Sports Bar & Grill LLC

Municipal Address of Site: 211 Old Airport Rd **PPIN #:** _____

Parcel Number(s): _____

Type of Public Hearing	Additional Information Needed:
☐ Variance	☐ Sign ☐ Setback ☐ Off-Site Parking ☐ Lot Width ☐ Lot Coverage Area ☐ Buffer ☐ Open Space ☐ Other: _____
☐ Rezoning	Existing Zoning: _____ Proposed Zoning: _____
☑ Conditional Use	☐ Automotive Filling Station ☐ Digital Billboard, New ☐ Digital Billboard, Replacement ☐ Telecommunications ☐ Restaurant ☐ Solar Farm ☑ Other: Sport Bar & Grill
Other Application types: ☐ Subdividing of lot, Parcel, or Tract ☐ Street or Alley Renaming ☐ Vacating Street or Alley	☐ Minor/Major Subdivision ☐ Overlay District ☐ Planned Mixed-Use District (PMU)

For Staff Only:

Zoning:	Historic District:	Flood Zone:	Ward:
B-2	N/A	X	☐1 ☐2 ☐3 ☐4 ☐5

Project Number: USE-0626-0041

PPIN # or Parcel #: 6805

Received: RECEIVED MAY 27 2026 By

Updated Version 12/04/24

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

Public Hearing Petitioner Information:

Deadline for applicant to file petition: ~~June~~ May 26th @ 5pm
Hattiesburg Planning Commission Meeting Date: July 1st 1pm
Hattiesburg Board of Adjustment Meeting Date: _____
City Council Agenda Review Date – (you or your representative should attend): July 20th 4pm
City Council Meeting (Vote) Date – (you or your representative may attend): July 21st 5pm

- There is a 10-day appeal period, required by State Law, between the Planning Commission Meeting and/or Board of Adjustment Meeting and the City Council Meeting – appeals must be filed within this 10-day period.
    - There is an additional 10-day appeal period, required by State Law, after the City Council Meeting, for all Variances and Conditional Use Permit which ends _____ and a 30-day wait period for Zoning or Street closing/re-naming, PMUs, PRDs, PUDs which ends _____.
- So, if approved by the City, no final site plan review approvals or building permits could be issued prior to these dates.

*Dates and times are subject to change. If an appeal is filed or the petition is tabled for any reason at any stage, the above-listed dates would need to be revised. *

Public Hearing Application Checklist

The following paperwork MUST be attached to this application:

☐ Site Diagram (11" x 17" preferred size): Drawing to scale prepared by professional engineer/surveyor showing lot dimensions, existing/proposed building, signs, parking areas, etc. (Different standards may be accepted only per approval from staff)

☐ Site & Design Review Committee, if needed

☑ Copy of entire Warranty Deed (filed and recorded at the courthouse) with legal description granting title to the current owner. (If the Warranty Deed covers a larger piece of property than the current project, a legal description for this project site only may also be required)

☐ Electronic/Digital copy of legal description REQUIRED for all public notices, saved as Word or text document OR emailed to planning@hattiesburgms.com

☑ An affidavit (pages 3 & 4) attesting that the applicant or representing party (if other than the owner) is acting on behalf of the owner(s) of record. The affidavit must be sworn to before a notary public or other appropriate official. (Included in owners signature page, or may be a separate document).

☐ **Variance application only:** A letter of approval/denial from all adjoining property owners must be obtained and submitted with the application

☐ Other documents needed (if relevant):

- ☐ Maps of digital billboard removal sites
- ☐ Maps of digital billboard replacement sites
- ☐ Documentation on measurements
- ☐ Other: _____

☐ Payment to the City of Hattiesburg for filing a public hearing application in the amount of $_____

Application for Site Plan Review

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

The following fees are an excerpt from Ordinance No. 2977, adopted January 22, 2008, as amended.

Public Hearing Fees	
Public Hearing Type	Fees Associated
Variance Variance applications include one Concept Site Plan Review and one Variance request	**$175.00** per application. **$50.00** for each additional variance.
Street / Alley Naming or Re-Naming *Fees for replacement street signs shall be paid after City Council approval but prior to the effective date. *	**$300.00** per application. **$100.00** per required street name sign *if approved*
Street / Alley Closing	**$200.00** per application.
Zoning Change	**$400.00** per application. *see PUD or PRD & zoning package rate)
Planned Unit Development (PUD) or Planned Residential Development (PRD) with zoning change package	**$600.00** per package.
Subdivision of Land (Preliminary Plats) Note: Final Plats should be submitted to the governing body for approval within 12 months of approval of preliminary plats.	**$250.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Planned Unit Development (PUD) or Planned Residential Development with Subdivision of Land Package**	**$500.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Change in Land Development Code Text	**$200.00** per application.
Appeal Fees for Proponent or Opponent appeals to City Council *Exempt from fees – Established Neighborhood Association*	**$50.00** per appeal.
Cancellation/Re-notification fee on any public hearing process (Planning Commission or City Council) that is tabled or cancelled at the owner/developer's Request	**$50.00** (per each 100 mailing labels)

Conditional USE: $200.00

OTHER PROCESSES MAY HAVE ADDITIONAL FEES
Make all checks payable to the City of Hattiesburg

I hereby certify that I have completed and attached the above-required documents, information, and fees.

Print Name: _____ **Signature:** _____

Updated Version 12/04/2024

OWNER AFFIDAVIT PAGE

THIS PAGE MUST BE SIGNED IN FRONT OF A NOTARY, BY THE OWNER(S) OF THE SUBJECT PROPERTY

WITNESS THE SIGNATURES of the **OWNER(s)** of the subject property located at

211 Old Airport Rd, Hbg MS 39401,
Street Address City State

on this the 19 day of May, 2026

In the matter of this request, the property owner further authorizes the following named person(s) to represent them at the public hearing on this petition.

Tamarkian L. Britton

on this the 18th day of May, 2026.

Sandra Willis
Property Owner (Print)

Property Owner (Signature)

STATE OF Mississippi

COUNTY OF Forrest

Personally came and appeared before me, the within named,
Sandra Willis,
who signed and delivered the above and foregoing instrument as and for their free act and deed on the day and year therein mentioned, and who acknowledge to me that they are the owner(s) of the subject property as described in this Public Hearing Application.

GIVEN UNDER MY HAND AND OFFICIAL SEAL OF OFFICE, this the 18th day of May, 2026.

NOTARY PUBLIC

My Commission Expires:
March 24, 2029

STATE OF MISSISSIPPI
DALJA ARRINGTON
NOTARY PUBLIC
FORREST COUNTY
My commission expires March 24, 2029
Commission number 494697

FOR CONDITIONAL USE APPLICANTS:

Section 12.3.3.1 Compliance Required. Uses requiring Planning Commission approval as noted in the Tables of Uses in Section 5 of this Code, shall be approved subject to this Section.

Any application for such use must comply with: all applicable standards that apply to similar uses and properties in the zoning district in general, the specific conditions listed for that use in Section 5, and the following criteria. *Where conflicts exist, the Planning Commission shall determine which criteria apply on a case-by-case basis.*

1. **Does this application meet the conditions set forth in Section 5 of the LDC for the requested use? If yes, please explain:**

2. **Describe the effects the proposed use of utilities and facilities will have on the community.** The Facility will provide entertainment, music, Dancing, social gathering, Public meeting, Drinks Food and comfortable atmosphere for the residence in the community

3. **Describe how the size of the site is appropriate for the proposed use.** Currently there's no where to gather within the community. The size will big enough to host and have events for patrons. with a max capacity of 101.

4. **Will there be any additional pedestrian or vehicular traffic generated by the proposed use? If yes, please explain:** Yes the residence that Live within the area will walk and or drive if they choose to do so.

5. **Will there be any elevation in the noise level resulting from this proposed use? If yes, please explain:** NO!

6. **What is the expected number of customers/employees per day?**
Expected 50/5

7. **Is proposed use compatible with surrounding uses and design? If yes, please explain:**
There's no other surrounding designs to make a comparison. The community is looking forward to when our doors will be open.

8. **Parking requirements:** Commercial/Industrial: Paved parking will be provided for 20 vehicles, and \ ADA vehicles; with \ loading spaces.

For more information, please reference the Land Development Code Section 12.3.3.2

Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code.

LRMINQ01 REDEMPTION LANDROLL INQUIRY - BASIC DATA LRWINQ01/M5

Library 2025 LANDROLL - FORREST

WILLIS SANDRA
1780 JAMES ST

Parcel 2-042F-2 178.00 PPIN 6805
Alt Parcel 167B-0000-026-220.00
Exempt Code JD 0 Tax District 4130
Subdivision

Neighborhood 0000 Map

HATTIESBURG MS 39401 St Addr 211 OLD AIRPORT ROAD
Sect/Twn/Rng 26 04N 13W Blk 026

Cls	C-Acres	C-Value	U-Acres	U-Value	T-Acres	Improved	True	Assessed
1		4810					4810	722
2						26240	26240	3936
		4810				26240	31050	4658

Homestead Type 1=065 2=DAV 3=DIS 4=Reg Reg 100 DAV
Mtg 7667 WILLIS SANDRA A Group Eligible C11 N (Y/N)
New Value Added F-Fire O-Override Deed Bk Pg Ext
Drainage Code Benefit Price Total Deed Date Type

	Current	2025 Yr		
L	4810	4810	Added 12	1 1990
B	26240	26240	XXX	
			Chged 7	27 2016

Levee Benefits X = Use1 5900 Use2 5900 SANDRA

F3-NEXT PARCEL F5-LEGAL F6-ADDENDUM F7-DEEDS F8-FLAGS F9-OPTIONS F24-EXIT
F3 Next Record, Page-Up Prev Record, F13 Paperlink

STATE OF MISSISSIPPI
FORREST COUNTY
I CERTIFY THIS INSTRUMENT
WAS FILED AND RECORDED
3538
1994 APR 22 A 11:57
AND PAGE OR U.C.C.
NO AS SHOWN
WITNESS MY HAND AND SEAL
Mary E. Harrell
CHANCERY CLERK

STATE OF MISSISSIPPI

COUNTY OF FORREST

WARRANTY DEED

For and in consideration of the sum of Ten Dollars ($10.00) cash in hand paid and other good and valuable considerations, the receipt of all of which is acknowledged and confessed, DUFF AMUSEMENT CO. INC., a Mississippi Corporation, do hereby convey and warrant unto SANDRA WILLIS, the following described property located in Forrest County and State of Mississippi, to-wit:

Beg SWC NW¼ SE¼E 75ft. N 150 ft.
W 75 ft S 150 ft to POB
8395 P80 7/74
SEC. 26-4N-13W

State and County and City taxes for the year 1994 will be paid by Grantee.

Witness my signature, this the 19th day of April, A. D., 1994.

Kenneth E. Duff
Kenneth E. Duff, President
Duff Amusement Co. Inc.

STATE OF MISSISSIPPI
COUNTY OF FORREST

Personally appeared before me, the undersigned authority in and for said County and State., Kenneth E. Duff, duly authorized President , Duff Amusement Co. Inc., who acknowledged that he signed and delivered the above and foregoing Deed of Conveyance on the day and year therein mentioned.

Witness my hand and official seal, this the 19th day of April, A.D., 1994.

Gwendolyn Keith Duff
NOTARY PUBLIC

My commission expires:
September 15, 1996

Grantor:
Rte 6 Box 1750
Hwy 495
Hattiesburg, Ms 39401
(601) 584-8791

* Grantee:
511 Col St.
Hattiesburg Ms 39401
(601) 583-4253

URBAN DEVELOPMENT
PLANNING DIVISION

PRE-APPLICATION MEETING SUMMARY NOTES
Meeting Date: Thursday, March 5, 2026
Pre-App Number: 0326-1119

Staff Present: Nathan Satcher (Senior Planner), Kevin Bates (Building Official), Jerald Little (Engineering Technician), Meridian McDaniel (Planner I), Noah Gower (Engineering Technician)

STATUS: **APPLY FOR PUBLIC HEARING- CONDITIONAL USE**

Project: Pool Hall

Address: 211 Old Airport Road

Presented by: Sandra Willis and Tamarkion Britton

Use Designation: Club/Bar

PPIN: 6805

Flood Zone: X

Historic District: N/A

Elevation Certificate Required: No

County: Forrest

Ward: 5

Construction type: Other

Zoning: B-2

Estimated Cost: TBD

Project Summary:

- Applicant Summary
  - Wanting to provide a space for an "older crowd" to relax and have alcohol and entertainment in Palmers Crossing. Has been cleaning up the property recently. Working on getting the parking lot back in working order.
  - Planning to have Pinky's Food Truck located at the 211 Old Airport Road location.
- Planning
  - Zoning Information
    - B-2 zoning does not allow for amusement facilities.
    - Allows for a club/bar with a conditional use approval. – Staff recommendation to go with this category because the described proposed use of the property fits better with the club/bar.
      - Conditional Use approval requires a public hearing with the Hattiesburg Planning Commission, which will make a recommendation to the City Council. Following the meeting, the item will go before the City Council for the final vote.
        - Public Hearing information:
          - May Planning Commission Dates
            - Public Hearing Date: May 6th at 1:00 pm at the Jackie Dole Sherrill Community Center.
            - Application Deadline: March 30th at 5:00 pm to the Planning Division office/online application portal.
              - Online portal link: https://energov.hattiesburgms.com/energov_prod/selfservice#/home
          - City Council
            - May 18th at 4:00 pm – Agenda review and citizens forum

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

- May 19th at 5:00 pm - Vote

- Parking requirements
  - Seat Count needed
  - Parking limited to 2 seats: 1 parking space
    - Potential for 60 seats – would require 30 parking spaces
  - Parking can only be on a hard surface (asphalt or concrete). Cannot be on gravel/grass/dirt.
    - A shared parking agreement can be in place with the laundromat across the street
      - Would need to be a formal agreement that is on file with the city.
  - Provide a parking striping plan to the Planning Division to help determine occupancy/parking requirements.

- Building
  - Apply for building permits for any substantial work being done in the structure or outside on the parking lot.
    - Plumbing and electrical work will require a permit.
    - Cosmetic work, such as painting and new flooring, does not need permits.
  - ADA
    - One bathroom will need to be ADA accessible
    - One parking space will need to be ADA accessible with an access aisle
      - Staff recommendation to get an ADA parking space as close to the front door as possible.
- Engineering
  - No comments at this meeting.
- Fire
  - Not present at this meeting.

NEXT STEPS:

- Additional information
  - Apply for Public Hearing
    - May Planning Commission Dates
      - Public Hearing Date: May 6th at 1:00 pm at the Jackie Dole Sherrill Community Center.
      - Application Deadline: March 30th at 5:00 pm to the Planning Division office/online application portal.
        - Online portal link: https://energov.hattiesburgms.com/energov_prod/selfservice#/home
  - Provide parking plan to the planning division showing parking spaces on site (and off site, if getting a shared parking agreement).
- Permits
  - Apply for permits indicated below

APPLICATIONS REQUIRED:

☐	Site Plan Review Checklist and Application	☒	Conditional Use Application
☒	Public Hearing Application	☐	Street/Alley Closing
☐	Variance Application	☐	Major Subdivision
☐	Rezone Application	☐	Minor Subdivision
☐	Certificate of Appropriateness (Historic)	☒	Building Permit Application
☐	Privilege Tax License	☐	Sign Permit

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG PLANNING COMMISSION

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Richard Conville
2. Amy Hinton, Chair
3. Elayne Lockett
4. Lee Anne Venable
5. Rebekah Ray, Secretary
6. Michael Dickerson
7. Edward Hargrove

Members Absent

1. Charles Dawe
2. Caroline Ingram
3. Rhoda Pickett, Vice Chair

Staff Present:

1. Cory Long, Planning Manager
2. Nathan Satcher, Senior Planner
3. Wiley Quinn, Director of Urban Development
4. Meridian McDaniel, Planner I

Amy Hinton, Chair, declared the Hattiesburg Planning Commission meeting open and in session at 1:04 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Rebekah Ray motioned to approve the agenda.

Second:

Elayne Lockett

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

MINUTES REVIEW

The minutes from the July 2026 meeting were reviewed.

Motion:

Rebekah Ray motioned to approve the minutes from the July Meeting.

Second:

Richard Conville

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

1. Building Report
2. Planning Report:
3. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Planning Commission

Item A:

Sandra Willis, Applicant, requests a conditional use approval for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Tamarkion Britton
- Sandra Willis

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray			ABSTAIN
Lee Anne Venable	X		

Item B:

Patricia Mitchell Longino, Applicant, Requests a conditional use approval for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue

(PPIN 26743, Forrest County, Ward 2).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Patricia Mitchell

Proponents:

- None

Opponents:

- None

Motion:

Rebekah Ray motioned to recommend approval.

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

Other Business:

- Lincoln Legacy Extention of Plat

Presented by:

- Ginger Lowrey

Proponents:

- None

Opponents:

- None

Motion:

Edward Hargrove motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

- Text Amendment Draft discussion
    - HPC asks for MDOT ROW and masonry walls.

Adjournment:

The meeting was adjourned at 2:28 pm

Motion:

Amy Hinton

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

_____

Rebekah Ray, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Planning Commission's recommendation to approve a conditional use request for “dwelling, single family detached” for a B-2 zoned property located at 1512 McInnis Avenue (PPIN 26743, Forrest County, Ward 2).**
File Number: 2026-714
Minute Book #

Summary

Accept the Planning Commission's recommendation to approve a conditional use request for “dwelling, single family detached” for a B-2 zoned property located at 1512 McInnis Avenue (PPIN 26743, Forrest County, Ward 2). Planning Commission recommended approval on August 5th, 2026.

Recommendation Statement

Planning Commission recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Hattiesburg Planning Commission
Planning Division
Item B - Staff Report
August 5th, 2026

Quick Facts:

Applicant:

Patricia Mitchell Longino

Address:

1512 McInnis Avenue

Zoning:

B-2 (Neighborhood Business)

Future Land Use:

Neighborhood Business Corridor

Historic District:

N/A

Overlay District(s):

N/A

Flood Zone:

AE

Ward:

2

County:

Forrest

PPIN Number(s):

26743

Parcel Number(s):

2-030M-11-013.00

Property Area Image

Applicant's Request:
Patricia Mitchell Longino, Applicant, requests a conditional use approval for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue (PPIN 26743, Forrest County, Ward 2).

Property Area Image

Background and History

Surrounding Area Image

The applicant met with staff for a pre-application meeting with staff on May 28, 2026, to discuss building a single-family home at the end of McInnis Street. She mentioned that she had previously obtained Conditional Use approval for the site in 2021 but was unable to proceed with the development at that time due to illness. She has lived in the area since the 1970s, she has family members with property nearby. She indicated her intention to build a residence around 700 square feet.

During the meeting, staff explored two options for allowing residential development on the property. Under the current B-2 zoning, a single-family home can be built through the Conditional Use process. Alternatively, the applicant could rezone to B-1, where single-family residences are allowed by right. Staff noted that the nearby family-owned parcels could potentially be combined into a single map amendment, easing future residential projects in the area. They also discussed development concerns related to the property's location in the AE flood zone, including requirements for elevation certificates, building at least one foot above the flood elevation, water and sewer access, foundation standards, and wind-load regulations.

Future Land Use: **Neighborhood Business District** The Neighborhood Business District is primarily a residential district located along the city's collector, minor arterial, and certain local streets. In this district, certain residential and low-intensity business uses may be found that exhibit development patterns that complement the residential, pedestrian-oriented character of surrounding neighborhoods.

Surrounding Area Image

District Characteristics The characteristics of this district include the following: moderate-density single-family residences and certain two-family and multi-family uses; mixed-use buildings and developments; smaller, lower-intensity business developments that provide

services to the neighborhood and community; and less-intensive commercial uses than are found in the Community Business District. Site development standards should include maximum building sizes, maximum residential densities, minimum and maximum building setbacks, building and site design elements, and provisions for pedestrian comfort and accessibility.

District Land Uses The following land uses should be found in this district: single-family residential uses; two-family and multifamily residences, subject to use, density, and design guidelines; public and quasi-public uses, such as general indoor retail, specialty retail, service and office land uses that do not require the outdoor storage of goods or equipment.

Codes and Regulations

SECTION 4: Zoning Districts Established

4.5.9 B-2 Neighborhood Business District.

The purpose of the B-2 District is to provide for retail and personal service uses in locations convenient to residential neighborhoods consistent with comprehensive planning policies. This district is consistent with the Neighborhood Business District in the Comprehensive Plan.

SECTION 6: Dimensional Standards and Measurements

District	Minimum Lot Size in SF/ Width at Setback	Max. Dwelling Units	Max. Floor Area Ratio	Setbacks in feet				Max. Height*	Max. Impervious Surface Lot Coverage	Buffer in Feet
				Min. Front	Max. Front	Min. Side	Min. Rear			
A-1	130,680 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	35%	-
A-2	43,560 / 100	1 per lot	-	25	-	15	25	35 feet or 3 stories	50%	-
R-1A	10,000/ 50	1 per lot	-	30	-	10	25	35 feet or 3 stories	50%	-
R-1B	7,500/ 50	1 per lot	-	25	-	10	25	35 feet or 3 stories	50%	-
R-1C	5,000/ 50	1 per lot	-	20	-	10	25	35 feet or 3 stories	50%	-
R-2	4,000/ 40	2 per lot	-	20	-	10	20	35 feet or 3 stories	50%	-
R-3	7,500/ 40	17 per acre	-	20	-	5	20	35 feet or 3 stories	50%	-
B-1	0/100	-	.75	20	25	0 or 15	0	35 feet or 3 stories	80%	20
B-2	4,000/ 100	-	0.75	0	10	0 or 10	0	35 feet or 3 stories	80%	20
B-3	No minimum/ 100	-	1.00	0	30	0 or 10	0	40 feet or 3 stories	80%	30
B-4	No minimum/ none	-	No limit	0	10	0	0	135 feet or 10 stories	100%	40
B-5	No minimum/ 100	-	1.50	30	150	0 or 10	0	72 feet or 6 stories	90%	50

Considerations and Basis for Approval

Applicant's Request:

Approve or deny a conditional use request for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue (PPIN 26743, Forrest County, Ward 2).

Basis for Approval:

1. Conditional Use
    a. Uses requiring Planning Commission approval, as noted in the Table of Uses in Section 5 of this Code, shall be approved subject to this Section. Any application for such use must comply with all applicable standards that apply to similar uses and properties in the zoning district in general, the specific conditions listed for that use in Section 5, and the following criteria. Where conflicts exist, the Planning Commission shall determine which criteria apply on a case-by-case basis.
    b. In addition to the standards mentioned above, the applicant for a request for the Planning Commission to approve a use shall be required to demonstrate that his/her proposal addresses the following additional requirements, except that the Planning Commission may waive any one or more criteria that it determines are not applicable based upon the expected impact of the proposal.
    c. Determination that adequate public facilities and services will be available concurrent with the impacts of the development as evidenced by letters of sufficiency from utilities and schools and a determination by the city engineer that the available capacity of existing streets can safely provide access to the site.
    d. The proposed development will be compatible with surrounding uses and will protect adjacent properties through the following measures:
    e. Protection of privacy. The proposed plan shall provide reasonable visual and auditory privacy for all dwelling units located within and adjacent to the site. Fences, walls, barriers and / or vegetation shall be arranged to protect and enhance the property and to enhance the privacy of on-site and neighboring occupants.
    f. Protection of use and enjoyment. The proposed plan shall be designed and arranged to have minimal negative impact on the use and enjoyment of adjoining property.

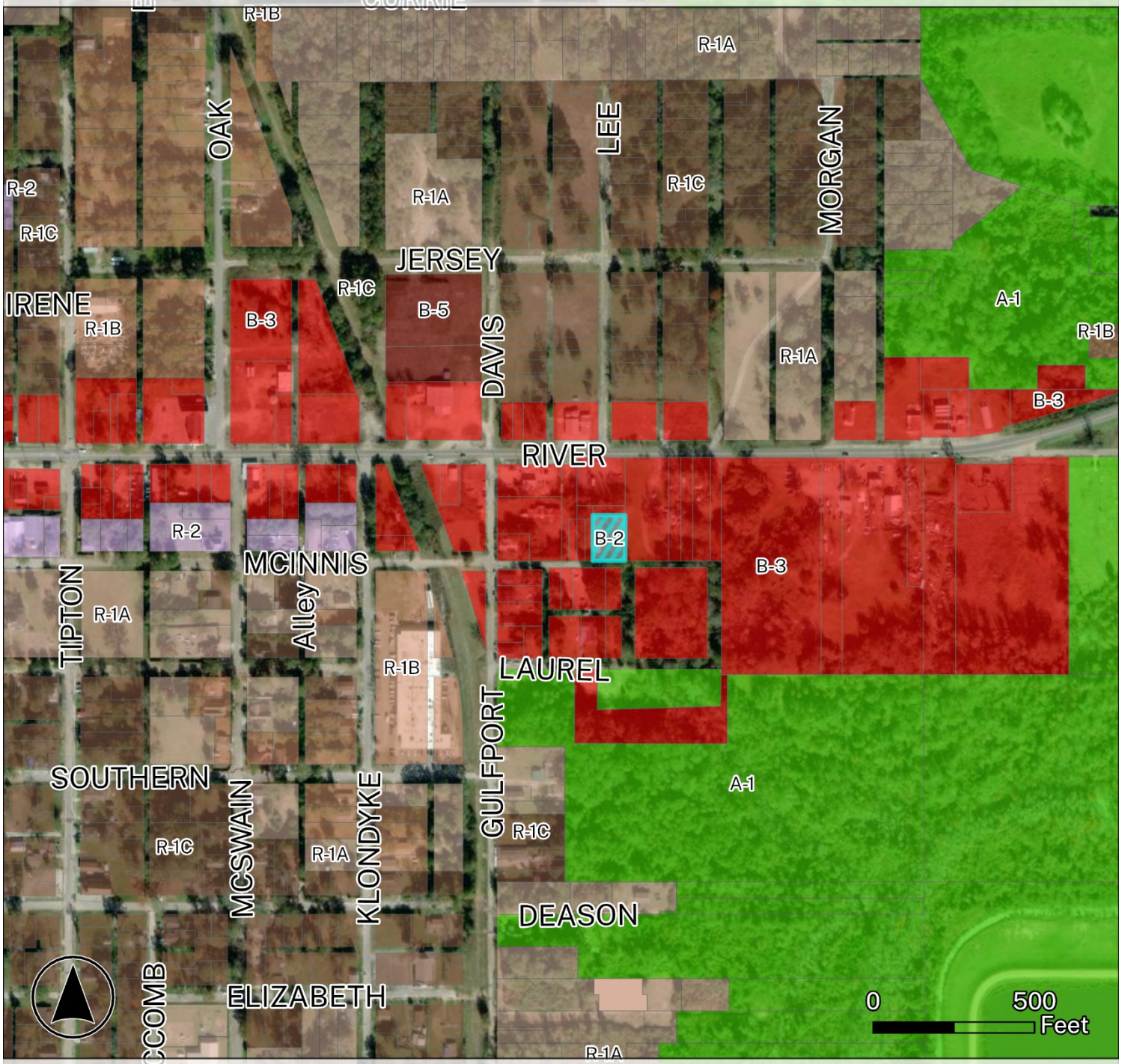
Compatible design and integration. The use meets all design criteria required by this Code that apply and is designed to integrate well both on and off site.

12.3.5.4.viii. Conditions.

Conditions may be imposed on any application to ensure compliance with the Land Development Code and other rules and regulations and to protect the neighborhood. Conditions may include but are not limited to parking location/design, site design, expiration of approval requiring renewal, intensity of use, occupancy, hours of operation, etc. Such conditions shall be reasonable and related to the expected impacts of the development

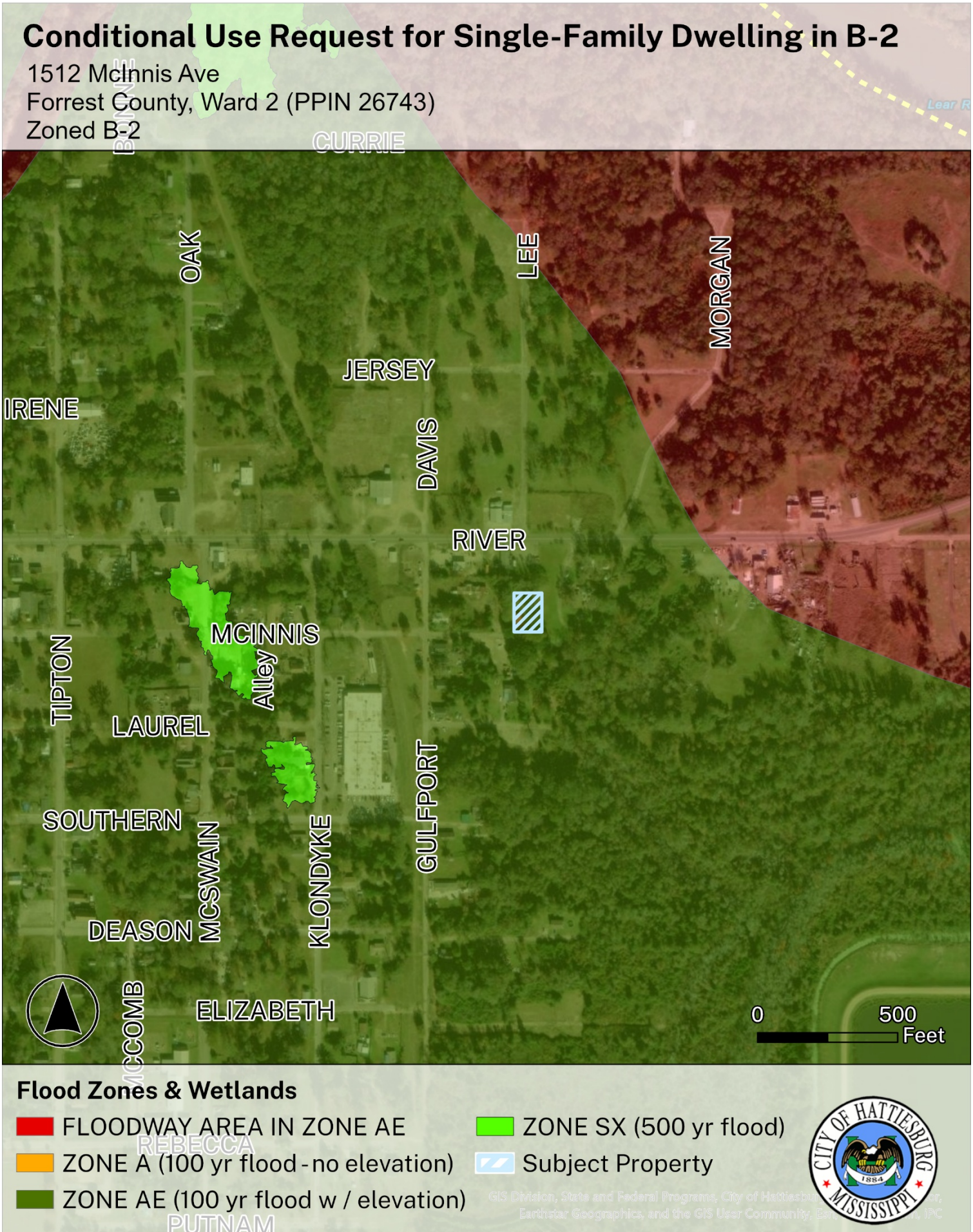
Conditional Use Request for Single-Family Dwelling in B-2

1512 McInnis Ave
Forrest County, Ward 2 (PPIN 26743)
Zoned B-2



Zoning Districts

- A-1
- R-1A
- R-1B
- R-1C
- R-2
- B-2
- B-3
- B-5
- Subject Property


Conditional Use Request for Single-Family Dwelling in B-2
1512 McInnis Ave
Forrest County, Ward 2 (PPIN 26743)
Zoned B-2
CURRIE
OAK
LEE
MORGAN
JERSEY
IRENE
DAVIS
RIVER
MCINNIS
Alley
TIPTON
LAUREL
SOUTHERN
MCSWAIN
KLONDYKE
GULFPORT
DEASON
ELIZABETH
MCCOMB
0
500
Feet
Flood Zones & Wetlands
FLOODWAY AREA IN ZONE AE
ZONE A (100 yr flood - no elevation)
ZONE AE (100 yr flood w / elevation)
ZONE SX (500 yr flood)
Subject Property
REBECCA
PUTNAM

Conditional Use Request for Single-Family Dwelling in B-2
1512 McInnis Ave
Forrest County, Ward 2 (PPIN 26743)
Zoned B-2
Neighborhood Conservation District 1
Open Space
Neighborhood Business
Open Space
Neighborhood Conservation District 1
Rural Residential/Agricultural
0
500
Feet
Future Land Use
Neighborhood Business
Neighborhood Conservation District 1
Open Space
Rural Residential/Agricultural
Subject Property
CITY OF HATTIESBURG
1884
MISSISSIPPI

Application for Public Hearing

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

NOTE:

- **Fill this application out IN FULL with what applies to your application**
- Refer to the hattiesburgms.com/planning for Land Development Code and GIS map. Access via link or QR code

Applicant Information

Name Applicant: Patricia Longino-Mitchell **Project Name:** Patricia Longino

Municipal Address of Site: 1512 Mc- Innis Ave. **PPIN #:** 26743

Parcel Number(s): 2-030M-11-013.00

Type of Public Hearing	Additional Information Needed:
☐ Variance	☐ Sign ☐ Setback ☐ Off-Site Parking ☐ Lot Width ☐ Lot Coverage Area ☐ Buffer ☐ Open Space ☐ Other: _____
☐ Rezoning	Existing Zoning: _____ Proposed Zoning: _____
☒ Conditional Use	☐ Automotive Filling Station ☐ Digital Billboard, New ☐ Digital Billboard, Replacement ☐ Telecommunications ☐ Restaurant ☐ Solar Farm ☐ Other: Residential
Other Application types: ☐ Subdividing of lot, Parcel, or Tract ☐ Street or Alley Renaming ☐ Vacating Street or Alley	☐ Minor/Major Subdivision ☐ Overlay District ☐ Planned Mixed-Use District (PMU)

For Staff Only:

Zoning:	Historic District:	Flood Zone:	Ward:
B-2	N/A	AE	☐1 ☒2 ☐3 ☐4 ☐5

Project Number: USE-0626-0042

PPIN # or Parcel #: 26743

Received:

Updated Version 12/04/24

Application for Site Plan Review

City of Hattiesburg – Planning Division
PO BOX 1898 – Hattiesburg, MS 39403-1898 | Phone (601)- 545-4599

The following fees are an excerpt from Ordinance No. 2977, adopted January 22, 2008, as amended.

Public Hearing Fees	
Public Hearing Type	Fees Associated
Variance Variance applications include one Concept Site Plan Review and one Variance request	**$175.00** per application. **$50.00** for each additional variance.
Street / Alley Naming or Re-Naming *Fees for replacement street signs shall be paid after City Council approval but prior to the effective date. *	**$300.00** per application. **$100.00** per required street name sign *if approved*
Street / Alley Closing	**$200.00** per application.
Zoning Change	**$400.00** per application. *see PUD or PRD & zoning package rate)
Planned Unit Development (PUD) or Planned Residential Development (PRD) with zoning change package	**$600.00** per package.
Subdivision of Land (Preliminary Plats) Note: Final Plats should be submitted to the governing body for approval within 12 months of approval of preliminary plats.	**$250.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Planned Unit Development (PUD) or Planned Residential Development with Subdivision of Land Package**	**$500.00** per application. **$10.00** per each additional created lot (** see PUD or PRD & Subdivision of Land package rate)
Change in Land Development Code Text	**$200.00** per application.
Appeal Fees for Proponent or Opponent appeals to City Council *Exempt from fees – Established Neighborhood Association*	**$50.00** per appeal.
Cancellation/Re-notification fee on any public hearing process (Planning Commission or City Council) that is tabled or cancelled at the owner/developer's Request	**$50.00** (per each 100 mailing labels)

OTHER PROCESSES MAY HAVE ADDITIONAL FEES

Make all checks payable to the City of Hattiesburg

I hereby certify that I have completed and attached the above-required documents, information, and fees.

Print Name: Patricia Mitchell **Signature**

Updated Version 12/04/2024

Conditional Use *(2 pages)*

12.3.3.1 Compliance Required. Uses requiring Planning Commission approval, as noted in the Tables of Uses in Section 5 of this Code, shall be approved subject to this Section. Any application for such use must comply with all applicable standards that apply to similar uses and properties in the zoning district in general, the specific conditions listed for that use in Section 5, and the following criteria. Where conflicts exist, the Planning Commission shall determine which criteria apply on a case by case basis.

1. Does this application meet the conditions set forth in Section 5 for the requested use? If yes, please explain:

~~No~~ currently ~~No~~ building on the property is being used as a storage building

2. Describe the effects the proposed use of utilities and facilities will have on the community.

Currently there are no utilities connected to the building but after the Rezoning the building will be a single family home with average use of utilities.

3. Describe how the size of the site is appropriate for the proposed use.

This site is in a residential area. This size of the building on the site is appropriate for a new home.

4. Will there be any additional pedestrian or vehicular traffic generated by the proposed use? No

If yes, please explain:

5. Will there be any elevation in the noise level resulting from this proposed use? No

If yes, please explain:

6. What is the expected number of customers/employees per day? 102

7. Parking Requirements:

Commercial/Industrial: No Paved parking will be provided for 102 vehicles, and _____ ADA vehicle(s); with _____ loading spaces.

For more information please reference the Land Development Code Section 12.3.3.2.

FOR RE-ZONING APPLICANTS:

As stated in Section 12.3 in the Land Development Code, one of the following conditions must be met before a rezoning can be recommended. Check the condition(s) most applicable to your request and explain in writing:

☐ There was a mistake in the original zoning.

☒ The character of the neighborhood has changed substantially so that rezoning is clearly justified and there is a public need for the rezoning.

☐ Annexation.

Detailed explanation of condition(s) most applicable to your request:

The demographics of the neighborhood is residential. Single family homes established since the 1970's. The property sits at the Dead End of McInnis Ave where there is no flow thru access for traffic. Therefore it is not benefical for any business.

Conditional Use is no longer the need status. A permante build with a foundation will be the better type of construction for.

URBAN DEVELOPMENT
PLANNING DIVISION

PRE-APPLICATION MEETING SUMMARY NOTES
Meeting Date: Thursday, May 28, 2026
Pre-App Number: 0526-1170

Staff Present: Cory Long (Planning Division Manager), Kevin Bates (Building Official), Jerald Little (Engineering Technician), Meridian McDaniel (Planner I), Noah Gower (Engineering Technician), Nick Bishop (Fire Department), Wiley Quinn (Director of Urban Development)

STATUS: Apply for Public Hearing

Project: McInnis Housing

Address: McInnis

Presented by: Patricia Mitchell

Use Designation: Dwelling, Single Family

PPIN: 26743

Flood Zone: X

Historic District: N/A

Elevation Certificate Required: No

County: Forrest

Ward: 2

Construction type: Other

Zoning: B-2

Estimated Cost: TBD

Project Summary:

- Applicant Summary
  - Property at end of McInnis
  - 2021 Mistake in zoning, had conditional use. Due to illness didn't proceed with development plan
  - Had plans for a tiny home.
  - Lived in the area since the 70s. Has family members in the area.
  - Desires the area to be rezoned to residential.
  - Willing to be the first for the neighborhood to build. But will help the rest of the neighborhood.
  - House blueprints provided. About 700+ square feet.
  - Would like to explore a fee waiver.
- Planning
  - B-2 zoning currently
    - Property can be used as single family residential with a conditional use request
    - Could also consider a rezone to B-1
      - Single family homes are allowed by right
    - May want to consider rezoning all the family land to B-1 for an easier residential redevelopment process. Single-family allowed by right if rezoning to B-1.
    - Planning Could process 1 map amendment as long as the property is contiguous.
    - Conditional use or rezoning public hearing would need an application.
      - August 5th Public Hearing
        - Application Deadline- June 29th, 2026 at 5:00pm
  - EOC letter for address needed Phone Number 601-544-5911
  - Flood Zone
    - Property is located in AE flood zone
    - Elevation certificate will be needed for the new structure
      - Building will need to be elevated 1 ft above the base flood elevation height

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

        - EC can be done by a surveyor or engineer
        - Previous EC says BFE is 145.1 so building would need to be built at 146.1 or higher
        - 3 ECs will be required- pre, mid, and post construction
- Engineering
    - Water and sewer available. May need new taps which would trigger fees.
    - Will need to locate the services on the property to prevent new taps and fees.
- Building
    - Verify elevation to resist flood loads. Will need something that can show the foundation can withstand the hydrostatic load. May need a licensed engineer to certify the foundation.
        - Can use engineer of choice.
    - House needs to withstand 130 mph wind loads. The existing plan may have the details needed. Not reviewed at this point.
    - Solar power can be added with detailed drawings from the contractor. Can be included separately or together. Not suggested to explore having the home off of the grid network.
- Fire
    - No comments at this time.

NEXT STEPS:

- Additional information
    - Apply for a public hearing for conditional use and zoning change when ready

APPLICATIONS REQUIRED:

☐	Site Plan Review Checklist and Application	☒	Conditional Use Application
☒	Public Hearing Application	☐	Street/Alley Closing
☐	Variance Application	☐	Major Subdivision
☒	Rezone Application	☐	Minor Subdivision
☐	Certificate of Appropriateness (Historic)	☐	Building Permit Application
☐	Privilege Tax License	☐	Sign Permit

Pre-application meeting notes are provided as a courtesy by staff during pre-application meetings.
These notes are not exhaustive. All Land Development Codes and City Ordinances apply, even if not listed during a pre-application meeting.

MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG PLANNING COMMISSION

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Richard Conville
2. Amy Hinton, Chair
3. Elayne Lockett
4. Lee Anne Venable
5. Rebekah Ray, Secretary
6. Michael Dickerson
7. Edward Hargrove

Members Absent

1. Charles Dawe
2. Caroline Ingram
3. Rhoda Pickett, Vice Chair

Staff Present:

1. Cory Long, Planning Manager
2. Nathan Satcher, Senior Planner
3. Wiley Quinn, Director of Urban Development
4. Meridian McDaniel, Planner I

Amy Hinton, Chair, declared the Hattiesburg Planning Commission meeting open and in session at 1:04 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Rebekah Ray motioned to approve the agenda.

Second:

Elayne Lockett

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

MINUTES REVIEW

The minutes from the July 2026 meeting were reviewed.

Motion:

Rebekah Ray motioned to approve the minutes from the July Meeting.

Second:

Richard Conville

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

1. Building Report
2. Planning Report:
3. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Planning Commission

Item A:

Sandra Willis, Applicant, requests a conditional use approval for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Tamarkion Britton
- Sandra Willis

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray			ABSTAIN
Lee Anne Venable	X		

Item B:

Patricia Mitchell Longino, Applicant, Requests a conditional use approval for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue

(PPIN 26743, Forrest County, Ward 2).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Patricia Mitchell

Proponents:

- None

Opponents:

- None

Motion:

Rebekah Ray motioned to recommend approval.

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

Other Business:

- Lincoln Legacy Extention of Plat

Presented by:

- Ginger Lowrey

Proponents:

- None

Opponents:

- None

Motion:

Edward Hargrove motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

- Text Amendment Draft discussion
    - HPC asks for MDOT ROW and masonry walls.

Adjournment:

The meeting was adjourned at 2:28 pm

Motion:

Amy Hinton

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

_____

Rebekah Ray, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Accept the Planning Commission's recommendation to approve a request for an extension to the major subdivision plat approval to be known as Lincoln Legacy Development, for properties located along Lincoln Road Extension (PPIN 17642, 17643, 18020, 24814, 29025, 29843, Lamar County, Ward 3).**
File Number: 2026-715
Minute Book #

Summary

Accept the Planning Commission's recommendation to approve a request for an extension to the major subdivision plat approval to be known as Lincoln Legacy Development, for properties located along Lincoln Road Extension (PPIN 17642, 17643, 18020, 24814, 29025, 29843, Lamar County, Ward 3). Planning Commission recommended approval on August 5th, 2026.

Recommendation Statement

Planning Commission recommended approval on August 5th, 2026.

Please place this on the August 18, 2026 City Council meeting for consideration.

URBAN DEVELOPMENT
PLANNING DIVISION

Planning Commission
Case Fact Sheet

Names of Petitioner: Lincoln Plaza Development LLC, Lincoln Road Investments LLC, Lincoln Road Investments II LLC, David Lee, Property Owners/Applicants, Ginger M. Lowrey, Representative, Forrest Dungan, Engineer, and Charles M. Dawe, Representative

Address of Property:	**Parcel:**	**PPIN:**	**Ward:**
Lincoln Road Extension	056L-23- 015.000	17642	3
	056K-24- 012.000	17643	3
	056K-24- 010.000	18020	3
	056K-24- 013.000	24814	3
	056L-23- 004.000	29025	3
	056K-24- 012.001	29843	3

Request(s): **Request for Comprehensive Plan Text Amendment**

Purpose of Request: Lincoln Plaza Development LLC, Lincoln Road Investments LLC, Lincoln Road Investments II LLC, David Lee, Property Owners/Applicants, Ginger M. Lowrey, Representative, Forrest Dungan, Engineer, and Charles M. Dawe, Representative, request approval for major subdivision, to be known as Lincoln Legacy Development, for properties located along Lincoln Road Extension (PPIN 17642, 17643, 18020, 24814, 29025, 29843, Lamar County, Ward 3).

History / Background: The applicant is requesting approval for a Major Subdivision to facilitate the division of the proposed Lincoln Legacy District into appropriately zoned parcels. The subdivision is intended to align with the proposed zoning changes for the district, including

mixed-use zoning (MX-3) along the street frontage and a mix of single-family residential (RD-2 and RA-3) zoning. This subdivision will establish the legal framework for the division of land in preparation for future development, though no infrastructure improvements or physical changes to the site are proposed at this time.

The Lincoln Legacy District encompasses approximately 164.7 acres, with 157.9 acres on the south side and 6.8 acres on the north side of Lincoln Road Extension, located west of Interstate 59 and east of Sandy Run Road. The proposed subdivision will divide the land into parcels that correspond with the new zoning boundaries established under the proposed Form-Based Code amendments.

This subdivision will set the stage for future development phases, which may include residential, commercial, and mixed-use components. However, it is important to note that this request does not involve the construction of any infrastructure or physical changes to the site. The subdivision will strictly create the parcels needed for future development, aligning with the proposed zoning changes.

Applicant Summary: * See Attached *

Applicable Regulations:

SECTION 11 **Administration and Enforcement**

11.10.1.8 Subdivision Violations. The owner of a subdivision shall not transfer title to any lot in such subdivision until such time as the final plat has been approved by the appropriate authority as outlined in this Code and duly recorded in the office of the Chancery Clerk of Forrest County or Lamar County, Mississippi. Transfers prior to such approval and recording shall be deemed a violation of this Code and shall be subject to any and all remedies available to the City.

11.10.1.9 Recording Violations.
The Chancery Clerks of Forrest County and Lamar County, Mississippi shall not receive, file or record a plat of a subdivision within the jurisdiction of this Land Development Code without prior approval of the appropriate authority as outlined in this

Code. Plats recorded prior to such approval shall be deemed unlawful and invalid

SECTION 12 **Process and Procedures**

Categories of Development Approvals

12.3.2 Preliminary Plat Approval for Major Subdivisions

12.3.2.1 Approval Criteria.

i. Conformance with the Hattiesburg Comprehensive Plan.
ii. Conformance with the standards of the zoning district.
iii. Conformance with other standards and requirements of this Code and other City policies and regulations.
iv. Determination that adequate public facilities and services will be available concurrent with the impacts of the subdivision.
v. Determination that the project will have little or no adverse or negative impacts upon the natural environment.

12.3.2.4 Final Plat.

i. No Significant Change. Final plats of major subdivisions that are substantially the same as the approved preliminary plat, as determined by the Site and Design Review Committee, shall be approved administratively.
ii. Significant Change. Final plats that exhibit any significant deviation from the approved preliminary plat, as determined by the Site Plan Review Committee, shall require approval by the Planning Commission.

12.3.2.5 Recording. In order to be an official and legal plat, the final approved plat must be recorded along with all applicable covenants, deed restrictions and property owners' association documents with the Chancery Clerk of Forrest or Lamar County, as appropriate. The City Engineer shall ensure that the City records this information within 90 days of submission for acceptance with any applicable bonds.

12.3.2.6 Duration

As this code and state and federal law may change over time, approval of a preliminary plat shall be effective for a maximum period of one (1) year for a permit to be submitted to the city. A six (6) month extension may be granted upon the Planning Commission's recommendation to the City Council followed

by an approval of the Council. An extension request must come in writing by the subdivider before the regularly scheduled Planning Commission hearing in which it is to be heard. The Planning Commission will offer its recommendation under “other business” as notice was given at the original hearing date. If the final plat has not been submitted to Urban Development within this time limit, the preliminary plat process shall begin anew.

12.3.2.7 Improvement Guarantees

Request for the final plat approval may be granted if one or more of the following improvement guarantees is posted with the City and recommended for acceptance by the City Attorney and City Engineer.

Site Stabilization Bond: Before construction permits can be approved, a bond assuring the stabilization of the site must be submitted to the City. This bond will serve as a guarantee that the site will be properly stabilized during and after construction including but not limited to: addressing erosion, sedimentation, other environmental impacts, safety concerns, and unsightly conditions per recommendation of the City Engineer. The bond amount is equal to the estimated cost of returning the site to a stable condition. The developer's engineer shall submit such estimate for approval to the City Engineer. The duration of the bond is a maximum of one (1) year, extendable one (1) time for up six (6) months.

Performance Bond: In place of the completion of improvements before the submission of the final plat for approval the city may accept a bond. The bond amount is equal to the estimated cost of completion plus ten (10) percent. The developer's engineer shall submit such estimate for approval to the City Engineer. The duration of the bond is a maximum of one (1) year, extendable one (1) time for up six (6) months. Where improvements have been installed as permitted and all improvements are deemed to be satisfactory through written notice of acceptance from the city engineer, bonds shall be returned to the subdivider, by action of the City Council. Completion of the improvements then shall transition into a maintenance bond.

Sidewalk Bond: If sidewalks are required for the development,

they must be installed prior to the acceptance of the final plat or they may be assured through a performance bond. The bond amount is equal to the estimated cost of completion plus ten (10) percent. The developer's engineer shall submit such estimate for approval to the City Engineer. The duration of the bond is a maximum of three (3) years. Where improvements have been installed as permitted and all improvements are deemed to be satisfactory through written notice of acceptance from the city engineer, bonds shall be returned to the subdivider, by action of the City Council.

Maintenance Bond: The subdivider must assure that the installation and construction of streets and other improvements are satisfactory, and that the standards prescribed in these regulations have been fulfilled. A maintenance bond is required upon completion of these improvements guaranteeing to the City the reasonable costs resulting from defective workmanship and/or materials. The maintenance bond shall equal ten (10) percent of the construction cost of all improvements as determined by the engineering department. This maintenance bond shall be in effect for one (1) year after acceptance of these improvements by the Governing Authorities.
Sixty (60) to forty-five (45) days prior to the conclusion of the warranty period the City Engineer will perform a final inspection of all improvements.

1. If all improvements are deemed to be satisfactory, written notice of acceptance from the city engineer shall be provided. The city council may release the maintenance bond and the city shall assume perpetual maintenance of all improvements in the subdivision.
2. Improvements that need repairs shall be noticed to the subdivider and city council. The city council may then extend the maintenance bond or draw funds from the bond to complete the necessary repairs.

Satisfactory Completion of Improvements: If any portion of the required improvements shall fail to be accepted for dedication either for reason of incompletion or for reason of substandard construction, then the City Council shall take the following actions:

1. The subdivider and bonding agent shall be advised that the improvements must be completed or reconstructed under

the bond. The City Council shall declare the bond to be forfeited. Where the City is not already in possession of said bond, it shall immediately take the actions necessary to obtain it.

2. The City Council shall use any bond applicable to finance the completion or construction of improvements to the proper specifications. Unused portions of these securities, consistent with the city's damages and/or costs shall be used as a fine and submitted to the general fund of the city.

12.3.2.8 Utilities

All utilities are required to be installed underground. Crossing of creeks, streams, and rivers shall be done as inconspicuously as possible.

Official Zoning Map, whichever action is relevant.

Present Zoning: B-3 (Community Business) and R-1A (Single-Family Residential)

Present Use: Vacant/undeveloped

Future Land Use: Planned Mixed-Use

Letters or Concerns stated: The Planning Division has not received any letters or concerns as of finalizing this report.

Option: Recommend **Approval** or **Denial** of a preliminary plat for a major subdivision for an area to be known as the "Lincoln Legacy District" (PPIN 17642, 17643, 18020, 24814, 29025, 29843, Lamar County, Ward 3).

Basis for approval: Planning Commission must deem that all of the following approval criteria must be met before granting approval for the Preliminary Plat for a Major Subdivision:

12.3.2 Preliminary Plat Approval for Major Subdivisions
12.3.2.1 Approval Criteria.

i. Conformance with the Hattiesburg Comprehensive Plan.
ii. Conformance with the standards of the zoning district.
iii. Conformance with other standards and requirements of this

Code and other City policies and regulations.
iv. Determination that adequate public facilities and services will be available concurrent with the impacts of the subdivision.
v. Determination that the project will have little or no adverse or negative impacts upon the natural environment.
determines are not applicable based upon the expected impact of the proposal.

i. Determination that adequate public facilities and services will be available concurrent with the impacts of the development as evidenced by letters of sufficiency from utilities and schools and a determination by the city engineer that the available capacity of existing streets can safely provide access to the site.
ii. The proposed development will be compatible with surrounding uses and will protect adjacent properties through the following measures:
    - Protection of privacy. The proposed plan shall provide reasonable visual and auditory privacy for all dwelling units located within and adjacent to the site. Fences, walls, barriers and / or vegetation shall be arranged to protect and enhance the property and to enhance the privacy of on-site and neighboring occupants.
    - Protection of use and enjoyment. The proposed plan shall be designed and arranged to have minimal negative impact on the use and enjoyment of adjoining property.
    - Compatible design and integration. The use meets all design criteria required by this Code that apply and is designed to integrate well both on and off site.

Madlow LLC
Planning & Development

Date: 7/24/2026

Planning Division, City of Hattiesburg

Re: Request for Extension — Final Plat Filing, Lincoln Legacy

Dear Mr. Long,

On behalf of Lincoln Legacy, I am writing to request an extension of the deadline to file the Final Plat. The Preliminary Plat was reviewed and approved by the Planning Commission on July 2, 2025, and the plat was adopted by City Council on August 5, 2025.

The Planning Division has notified us of the approaching deadline for the Final Plat submission. No substantive changes have been made to the plat itself; however, in the course of review, City staff identified certain easements reflected in the City's files that have not yet been recorded with Lamar County. Because these easements are not yet of record, they cannot presently be depicted on the Final Plat. We understand the City is working to have these easements properly filed with the County, and we want to ensure the Final Plat accurately reflects that data once it is available.

We have been in ongoing communication with both the Planning Division and the Engineering Division on this matter and are actively awaiting the finalized easement information from the City. We are prepared to submit the Final Plat promptly once that data is available.

We understand the Land Development Code permits an extension of up to six months for circumstances of this nature. Accordingly, we respectfully request a six-month extension of the Final Plat filing deadline to allow time for the easement data to be finalized and incorporated.

Thank you for your continued assistance and support in this matter. Please let us know if any additional information is needed to process this request.

Sincerely,
Ginger Lowrey, AICP
On behalf of Lincoln Legacy

OWNER'S CERTIFICATE
State of Mississippi
County of Lamar
City of Hattiesburg

This is to certify that, I, the undersigned owner of Lincoln Legacy, hereby dedicate this plat to be known as Lincoln Legacy and dedicate the streets, and rights-of-way as shown to public use forever. The undersigned have caused the same to be subdivided as shown and have signed and delivered this plat.

This the _____ day of _____, 2025.

By: _____ By: _____
Lincoln Plaza Development LLC Lincoln Road Investments LLC
_____, Managing Member _____, Managing Member

ACKNOWLEDGMENT
State of Mississippi
County of Lamar
City of Hattiesburg

Personally appeared before me, the undersigned authority in and for the said county and

state, on this _____ day of _____ 2025. Within my jurisdiction, the within named _____, who acknowledged that he executed the above and foregoing instrument, after first having been duly authorized by said corporation so to do.

My commission expires on: _____ _____
Notary Public

CERTIFICATE OF COMPARISON:
State of Mississippi
County of Lamar
City of Hattiesburg

We, Jamie Aultman, Chancery Court Clerk of Lamar County, and John C. Anglin, Professional Land Surveyor, do hereby certify that we have carefully compared this plat of Lincoln Legacy with the original/duplicate/copy thereof by the said Professional Land Surveyor and find it to be a true and correct copy of said map or plat.

_____ _____
Chancery Clerk Professional Land Surveyor

NOTES

1. Class "B" Survey.
2. Date of field survey: May 15, 2025
3. Water supply by The City of Hattiesburg
4. Sewer provided by The City of Hattiesburg
5. Total area of Surveyed property: Block 1= 19.21 Acres ±, Block 2= 33.68 Acres ±, Block 3= 95.92 Acres ±, Block 4= 2.91 Acres ±, Total= 151.72 Acres ±
6. Monuments set are ½" x 18" rebar with cap stamped CLEARPOINT COA 165 unless noted otherwise.
7. North is based upon GPS observation, referenced to Mississippi State Plane Coordinate system.

State Plane Zone:	MS East-2254
Datums:	NAD 1983 / NAVD 1988
Combined Factor:	0.99998259
Convergence Angle:	(-)00° 16' 49.94"
Reference Point:	NW CORNER OF THE SW 1/4 OF THE SW 1/4 OF THE NE 1/4 OF SECTION 23, T-4-N, R-14-W, LAMAR COUNTY, MS.

8. Property shown is located in Flood Zone "X" according to Flood Insurance Rate Map (FIRM) Number 28035C0111D with an effective date of March 2, 2010..
9. The location of utilities are limited to above ground structures and facilities observed during the conducting of the field work. Additional underground utilities exist which are not shown on this survey plat. Excavations should be done with caution. The surveyor assumes no responsibility for the accuracy of the location of underground utilities shown. The Mississippi one call network (MS 811 or 1-800-227-6477) should be notified prior to commencing with excavation activities.
10. No record search of Easements was preformed.

CLEARPOINT ENGINEERS
1051 Jackson Road | Hattiesburg, MS 39402
t 601.261.2609 | clearpointengineers.com

CITY APPROVAL AND ACCEPTANCE FORM
State of Mississippi
County of Lamar
City of Hattiesburg

Survey checked by John C. Anglin, and approved by the City Engineer for the City of Hattiesburg.

This the _____ day of _____, 2025.

_____
City Engineer

This subdivision is herein approved and accepted, and all improvements contained therein to be dedicated to the City of Hattiesburg are hereby accepted for the City of Hattiesburg.

This the _____ day of _____, 2025.

_____ _____ _____
City Clerk Mayor

SURVEYOR'S CERTIFICATE:
State of Mississippi
County of Lamar
City of Hattiesburg

This is to certify that I have surveyed the land shown on this plat and fully described on this plat and have subdivided the same with lots according to the requirements of the City, County and the subdivision laws of the State of Mississippi governing surveying, dividing and mapping the land and that the plat hereon is a correct representation of the sold survey and subdivision, and that all monuments indicated thereon actually exist and their location, size and materials are correctly shown.

This the _____ day of _____, 2025.

_____
John C. Anglin

REFERENCE MATERIAL

1. Deed Book 16-K, Page 73
2. Deed Book 16-S, Page 93
3. Deed Book 16-X, Page 289
4. Deed Book 17-M, Page 229
5. Deed Book 18-N, Page 557
6. Deed Book 18-N, Page 588
7. Deed Book 29-A, Page 482
8. Deed Book 10-A, Page 385
9. Deed Book 10-W, Page 536
10. Deed Book 10-X, Page 679
11. Deed Book 12-N, Page 88
12. Deed Book 13-N, Page 199
13. Deed Book 14-F, Page 372
14. Deed Book 15-E, Page 1
15. Deed Book 16-S, Page 529
16. Deed Book 17-B, Page 13
17. Deed Book 17-V, Page 609
18. Deed Book 18-B, Page 717
19. Deed Book 18-F, Page 603
20. Deed Book 18-I, Page 737
21. Deed Book 19-M, Page 407
22. Deed Book 20-X, Page 330
23. Deed Book 21-D, Page 639
24. Deed Book 22-H, Page 608
25. Deed Book 22-T, Page 596
26. Deed Book 23-F, Page 230
27. Deed Book 23-W, Page 632
28. Deed Book 23-Z, Page 223
29. Deed Book 24-F, Page 550
30. Deed Book 24-T, Page 590
31. Deed Book 25-D, Page 695
32. Deed Book 26-Y, Page 460
33. Deed Book 28-O, Page 47
34. Deed Book 29-M, Page 387
35. Deed Book 29-Q, Page 139
36. Deed Book 30-G, Page 488
37. Deed Book 30-X, Page 728
38. Deed Book 30-Y, Page 658
39. Deed Book 30-Z, Page 751

LEGEND

◎	MONUMENT SET
◉	MONUMENT FOUND
IPS	IRON PIN SET
IPF	IRON PIN FOUND
CMF	CONCRETE MONUMENT FOUND
MPF	METAL PIPE FOUND
CTP	CRIMPED TOP PIPE
ROW	RIGHT OF WAY
L	ARC LENGTH
R	RADIUS
CB	CHORD BEARING
CL	CHORD LENGTH
APS	AS PER SURVEY
APR	AS PER RECORD
POC	POINT OF COMMENCEMENT
POB	POINT OF BEGINNING
	ELECTRIC TRANSFORMER
	UTILITY POLE
	FIBER OPTIC BOX
	TELEPHONE PEDESTAL
	WATER METER
	FIRE HYDRANT
	WATER VALVE
	SEWER CLEAN-OUT
	SEWER MANHOLE
OHE	OVERHEAD POWER LINE
x	WIRE FENCE
	CHAIN LINK FENCE
	WOOD FENCE
	BOUNDARY TIE LINE
	SUBJECT PROPERTY LINE
	GLO LINE
	ADJOINING PARCEL LINES
	RIGHT OF WAY LINE

ACKNOWLEDGMENT
State of Mississippi
County of Lamar
City of Hattiesburg

Sworn to and subscribed before me, this the _____ day of _____, 2025.

My commission expires on: _____ _____
Notary Public

FILING CERTIFICATION BY CHANCERY CLERK

I certify that this Instrument was filed for record in my office on this the _____ day of _____, 2025, in plat book _____, page _____. slide _____.

_____
Chancery Clerk

SURVEY DESCRIPTION:

BLOCK 1
A Parcel of land being part of the NE 1/4 of Section 23, Township 4 North, Range 14 West, Lamar County, Mississippi, having bearings based upon Grid North derived from GPS observations and referenced to Mississippi State Plane Coordinate System (East Zone, NAD 83), with a convergence angle of (-)00° 16' 49.94" and using grid distances with a combined factor of 0.99995259 (determined at the Point of Commencement) and being more particularly described as follows:

COMMENCE at a 3/4" metal pipe found at the Northwest corner of the SW 1/4 of the SW 1/4 of the NE 1/4 of said Section 23, said point having grid coordinates of N = 654158.39, E = 815576.59; thence along the West line of the said SW1/4 of the NE1/4 run N 00°20'02" E for 202.51 feet to a 1/2" iron pin set at the **POINT OF BEGINNING,** said point having grid coordinates of N= 654360.90, E= 815577.77; thence continuing along said West line run N 00°28'06" E for 268.97 feet to a 1/2" iron pin set on the South right of way of Lincoln Road; thence along said South right of way run N 88°58'48" E for 512.10 feet of a found concrete monument; thence along said South right of way run along a curve to the left for 99.77 feet to a 1/2" iron pin found on the boundary of the property described in Deed Book 29M at Page 387, said curve having a radius of 818.51 feet, a chord bearing of N 88°46'50" E and a chord length of 99.70 feet; thence run along said boundary for the following three calls, thence S 09°43'11" E for 240.00 feet to a 1" crimped top pipe found; thence N 80°25'19" E for 129.76 feet to a 1" crimped top pipe found; thence N 09°40'16" W for 242.38 feet to a 1/2" iron pin found stamped W ENG 02946 on the South right of way of Lincoln Road; thence along said South right of way run along a curve to the left for 156.05 feet to a concrete monument found, said curve having a radius of 818.51 feet, a chord bearing of N 68°29'04" E and a chord length of 155.81 feet; thence along said South right of way run N 64°16'47" E for 1367.67 feet to a 1/2" iron pin set; thence along said South right of way run along a curve to the right for 134.89 feet to a 1/2" iron pin set on the boundary of the property described in Deed Book 29Q at Page 139, said curve having a radius of 1432.40 feet, a chord bearing of N 67°52'21" E and a chord length of 134.84 feet; thence run along said boundary for the following 3 calls; thence S 53°46'38" E for 14.54 feet to a 1/2" iron pin set; thence S 00°23'57" W for 500.26 feet to a 1/2" iron pin found; thence S 89°36'03" E for 101.92 feet to a 1/2" iron pin set; thence leaving said boundary run S 01°57'37" E for 175.61 feet to a 1/2" iron pin set; thence run S 89°47'56" W for 895.28 feet to a 1/2" iron pin set; thence run S 61°25'30" W for 543.84 feet to a 1/2" iron pin set; thence run S 77°40'03" W for 253.99 feet to a 1/2" iron pin set; thence run S 89°52'16" W for 738.92 feet back to the **POINT OF BEGINNING**. Said parcel contains 19.21 Acres, more or less.

SURVEY DESCRIPTION:

BLOCK 2
A Parcel of land being part of the NE 1/4 of Section 23 and of the W 1/2 of the NW1/4 of Section 24 all in Township 4 North, Range 14 West, Lamar County, Mississippi, having bearings based upon Grid North derived from GPS observations and referenced to Mississippi State Plane Coordinate System (East Zone, NAD 83), with a convergence angle of (-)00° 16' 49.94" and using grid distances with a combined factor of 0.99998259 (determined at the Point of Commencement) and being more particularly described as follows:

BEGIN at a 3/4" metal pipe found at the Northwest corner of the SW 1/4 of the SW 1/4 of the NE 1/4 of said Section 23, said point having grid coordinates of N = 654158.39, E = 815576.59; thence along the West line of the said SW1/4 of the NE1/4 run N 00°20'02" E for 202.51 feet to a 1/2" iron pin set, said point having grid coordinates of N= 654360.90, E= 815577.77; thence leaving said West line run N 89°52'16" E for 738.92 feet to a 1/2" iron pin set; thence run N 77°40'03" E for 253.99 feet to a 1/2" iron pin set; thence run N 61°25'30" E for 543.84 feet to a 1/2" iron pin set; thence run N 89°47'56" E for 895.28 feet to a 1/2" iron pin set; thence run N 01°57'37" W for 175.61 feet to a 1/2" iron pin set on the South line of the property described in Deed Book 29Q at Page 139; thence along said South line run S 89°36'03" E for 428.69 feet to a 1/2" iron pin set on the boundary of the property described in Deed Book 24X at Page 688; thence along said boundary run N 00°00'21" W for 121.25 feet to a 1/2" iron pin found marking the Southwest corner of the property described in Deed Book 25D at Page 695; thence along the South line of said property run S 89°48'05" E for 873.24 feet to a 1/2" iron pin found; thence leaving said South line run S 05°52'05" E for 344.53 feet to a 1/2" iron pin set; thence run N 89°33'16" W for 533.65 feet to a 1/2" iron pin set; thence run S 58°19'16" W for 181.95 feet to a 1/2" iron pin set; thence run S 29°35'31" W for 383.32 feet to a 1/2" iron pin set; thence run S 89°41'57" W for 123.04 feet to a 1/2" iron pin marking the Southeast corner of the property described in Deed Book 18N at page 557; thence along the South line of said property run S 89°20'02" W for 1398.03 feet to a 1" crimped top pipe found marking the Southwest corner of said property also being on the West line of the SE 1/4 of the NE 1/4 of said Section 23; thence leaving said boundary and along said West line run S 00°26'08" W for 34.46 feet to a 1/2" iron pin found marking the Northeast corner of the property described in Deed Book 30Y at Page 658; thence along the North line of said property and the North line of the properties described in Deed Book 18F at Page 603 and Deed Book 23W at Page 632 run N 89°54'54" W for 1290.75 feet back to the **POINT OF BEGINNING**. Said parcel contains 33.68 Acres, more or less.

Lincoln Legacy
Preliminary Plat

Name of Owner:
LINCOLN ROAD INVESTMENTS , LLC

Name of Owner:
LINCOLN PLAZA DEV. , LLC
119 Hardy Street,
HATTIESBURG, MS, 39401

SURVEY DESCRIPTION:

BLOCK 3
A Parcel of land being part of the NW 1/4 of Section 24, Township 4 North, Range 14 West, Lamar County, Mississippi, having bearings based upon Grid North derived from GPS observations and referenced to Mississippi State Plane Coordinate System (East Zone, NAD 83), with a convergence angle of (-)00° 16' 49.94" and using grid distances with a combined factor of 0.99998259 (determined at the Point of Commencement) and being more particularly described as follows:

BEGIN at a 3/4" metal pipe found at the Southwest corner of the SW 1/4 of the NW 1/4 of said Section 24, said point having grid coordinates of N= 653447.79, E= 818262.02; thence along the West line of said SW1/4 of the NW 1/4 run N 00°15'52" E for 759.41 feet to a 1/2" iron pin set marking the Southeast corner of the property described in Deed Book 18N at Page 557; thence leaving said West line and boundary run N 89°41'57" E for 123.04 feet to a 1/2" iron pin set; thence run N 29°35'31" E for 383.32 feet to a 1/2" iron pin set; thence run N 58°19'16" E for 181.95 feet to a 1/2" iron pin set; thence run S 89°33'16" E for 533.65 feet to a 1/2" iron pin set; thence run N 05°52'05" W for 344.53 feet to a 1/2" iron pin found marking the Southeast corner of the property described in Deed Book 18I at Page 737; thence along the South line of said property run N 89°48'45" W for 576.07 feet to a 1/2" iron pin found stamped TWA COA 109 marking the Southwest corner of the property described in Deed Book 25D at Page 695; thence along the East line of said property run N 00°47'57" E for 475.52 feet to a 1/2" iron pin set on the South right of way of Lincoln road; thence along said South right of way run S 89°31'26" E for 63.46 feet to a 1/2" iron pin set; thence along said South right of way run along a curve to the left for 521.03 feet to a 1/2" iron pin found; said curve having a radius of 1265.21 feet, a chord bearing of N 78°43'39" E, and a chord length of 517.36 feet; thence along said South right of way run along a curve to the left for 311.96 feet to a 1/2" iron pin set, said curve having a radius of 1265.21, a chord bearing of N 59°52'33" E and a chord length of 311.17 feet; thence along said South right of way run N 54°26'29" E for 83.00 feet to a 1/2" iron pin found on the boundary of the property described in Deed Book 28O at Page 47; thence leaving said South right of way run along said boundary for the following 9 calls; thence S 34°10'36" E for 65.66 feet to a 1/2" iron pin found; thence along a curve to the right for 82.64 feet to a 1/2" iron pin found, said curve having a radius of 150.70 feet, a chord bearing of S 18°31'37" E and a chord length of 81.61 feet; thence S 02°44'44" E for 13.13 feet to a 1/2" iron pin found; thence along a curve to the left for 135.49 feet, said curve having a radius of 274.30 feet, a chord bearing of S 16°53'05" E, and a chord length of 134.12 feet; thence S 31°08'40" E for 87.52 feet to a 1/2" iron pin found; thence along a curve to the right for 159.62 feet, said curve having a radius of 261.00 feet, a chord bearing of S 13°34'25" E and a chord length of 157.15 feet; thence S 89°57'38" E for 211.52 feet to a 1/2" iron pin found; thence N 01°36'37" W for 25.87 feet to a 1/2" iron pin found; thence S 89°43'10" E for 297.29 feet to a 1/2" iron pin found on the East line of the property described in Deed Book 16X at Page 289; thence along said East line run S 00°08'54" E for 475.32 feet to a 1/2" iron pin on the North line of the SE 1/4 of the NW1/4 of said Section 24; thence along said North line run N 89°57'49" E for 666.25 feet to a 3/4" iron pin found at the Northeast corner of the SE 1/4 of the NW 1/4 of said Section 24, said point having grid coordinates of N= 654802.16, E= 820931.69; thence along the East line of said SE 1/4 of the NW 1/4 run S 00°09'44" E for 1344.99 feet to a to a pine knot found marking the Southeast corner of the said SE 1/4 of the NW 1/4, said point having grid coordinates of N= 653457.17, E= 820935.50; thence along the South line of the NW 1/4 of said Section 24 run S 89°47'56" W for 2673.49 feet back to the **POINT OF BEGINNING**. Said parcel contains 97.93 Acres, more or less. Less and Except 2.01 Acres more or less described as follows.

LESS AND EXCEPT 2.01 ACRES AS PER DB 17Q PG 105

A part of the SE ¼ of the NW ¼ of Section 24, Township 4 North, Range 14 West in the City of Hattiesburg, Lamar County, Mississippi, which contains 87,584.93 square feet (2.011 acres), more or less, and is particularly described as follows:

Commence at the Northeast comer of the SE ¼ of the NW ¼, Section 24, Township 4 North, Range 14 West, Lamar County, Mississippi, and run S 89°43'39" W, along the North line of the SE ¼ of the NW ¼ of Section 24, 784.79 feet to the Point of Beginning; thence S 15°07'52" E, 279.44 feet; thence S 47°26'45" W, 246.90 feet; thence N 42°33'15" W, 147.56 feet to a point on a curve; thence in a Northeasterly direction along a curve to the left having a radius 330.00 feet and an arc length of 266.18 feet (chord bearing and distance N 01°19'43" E, 259.02 feet); thence N 21°46'40" W, 73.15 feet to the above said North line of the SE ¼ of the NE ¼ of Section 24; thence N 89°42'49" E along the said North line of the SE ¼ of the NW ¼ of Section 24, 229.86 feet back to the Point of Beginning, ; together with all improvements thereon and all appurtenances thereunto belonging.

SURVEY DESCRIPTION:

BLOCK 4
A Parcel of land being part of the NE 1/4 of the NE 1/4 of Section 23, Township 4 North, Range 14 West, Lamar County, Mississippi, having bearings based upon Grid North derived from GPS observations and referenced to Mississippi State Plane Coordinate System (East Zone, NAD 83), with a convergence angle of (-)00° 16' 49.94" and using grid distances with a combined factor of 0.99998259 (determined at the Point of Commencement) and being more particularly described as follows:

COMMENCE at a 3/4" iron pin found at the Southeast corner of the NE 1/4 of the NE 1/4 of said Section 23, said point having grid coordinates of N= 654803.32, E= 818268.28; thence along the East line of said NE1/4 of the NE 1/4 run N 00°02'08" W for 306.33 feet to a 1/2" iron pin set marking the Southeast corner of the property owned by Lincoln Plaza Development LLC with a PPIN of 31923 at the **POINT OF BEGINNING,** said point having grid coordinates of N= 655109.65, E= 818268.09**;** thence along the South line of said property run N 89°36'03" W for 406.62 feet to a 1/2" iron pin set on the boundary of the property described in Deed Book 29Q at Page 139; thence along said boundary run N 00°23'57" E for 261.53 feet to a 1/2" iron pin set; thence along said boundary run N 34°39'33" E for 11.43 feet to a 1/2" iron pin set on the South right of way of Lincoln Road; thence along said South right of way run along a curve to the right for 405.13 feet to a 1/2" iron pin set marking the Northwest corner of the property described in Deed Book 18B at Page 723, said curve having a radius of 1432.40 feet, a chord bearing of N 80°14'41" E, and a chord length of 403.92 feet; thence along the West line of said property run S 00°02'08" E for 342.19 feet back to the POINT OF BEGINNING. Said parcel contains 2.91 Acres, more or less.

Sheet 1 of 3 (18X24)
06/10/2025
Plat not Valid unless all Sheets are Present

GRAPHIC SCALE

200 0 100 200

(IN FEET)
1 inch = 200 ft.

LINE TABLE

LINE NUMBER	APS BEARING	APS LENGTH	APR BEARING	APR LENGTH
L1	S 09°43'11" E	240.00'	S 09°59'54" E	240.08'
L2	N 80°25'19" E	129.76'	N 80°05'07" E	129.94'
L3	N 09°40'16" W	242.38'	N 09°58'56" W	243.37'
L4	N 54°26'29" E	83.00'	N 53°53'38" E	
L5	S 34°10'36" E	65.66'	S 34°11'19" E	65.68'
L6	S 02°44'44" E	13.13'	S 02°45'41" E	13.16'
L7	S 31°08'40" E	87.52'	S 31°04'02" E	87.56'
L8				
L9	N 00°00'21" W	121.25'	N 00°04'16" W	
L10				
L11	S 89°31'26" E	63.46'	S 89°43'14" E	
L13	N 21°15'12" W	73.86'	N 21°46'40" W	73.15'
L14	S 89°57'11" W	229.95'	S 89°42'49" W	229.86'
L15	N 89°59'13" E	118.45'	N 89°41'53" E	
L16	N 89°36'03" W	406.62'	N 89°49'21" W	
L17	N 00°23'57" E	261.53'	N 00°10'39" E	261.53'
L18	S 00°02'08" E	342.19'	S 00°20'17" E	
L19	N 34°39'33" E	11.43'	N 35°57'26" E	11.43'
L20	S 53°46'38" E	14.54'	S 53°59'56" E	14.57'
L21	S 89°31'26" E	60.00'	S 89°29'48" E	60.00'

CURVE TABLE

CURVE NUMBER	APS ARC LENGTH	APR ARC LENGTH	APR/APS RADIUS	APS CHORD LENGTH	APR CHORD LENGTH	APS CHORD BEARING	APR CHORD BEARING
C1	99.77'		818.51'	99.70'		N 88°46'50" E	
C2	130.12'	130.18'	818.51'	129.98'	130.04'	N 79°22'27" E	N 78°38'14" E
C3	156.05'		818.51'	155.81'		N 68°29'04" E	
C4	82.64'	82.66'	150.70'	81.61'	81.63'	S 18°31'37" E	S 18°28'30" E
C5	135.49'	135.51'	274.30'	134.12'	134.14'	S 16°53'05" E	S 16°54'52" E
C6	159.62'	159.53'	261.00'	13.16'	157.15'	S 13°34'25" E	S 13°33'23" E
C7	405.13'		1432.40'	403.92'		N 80°14'41" E	
C8	266.17'	266.18'	330.00'	259.02'	259.02'	N 01°34'05" E	N 01°19'43" E
C9	51.39'	51.39'	1432.40'	51.39'	51.39'	N 70°46'18" E	N 70°51'00" E

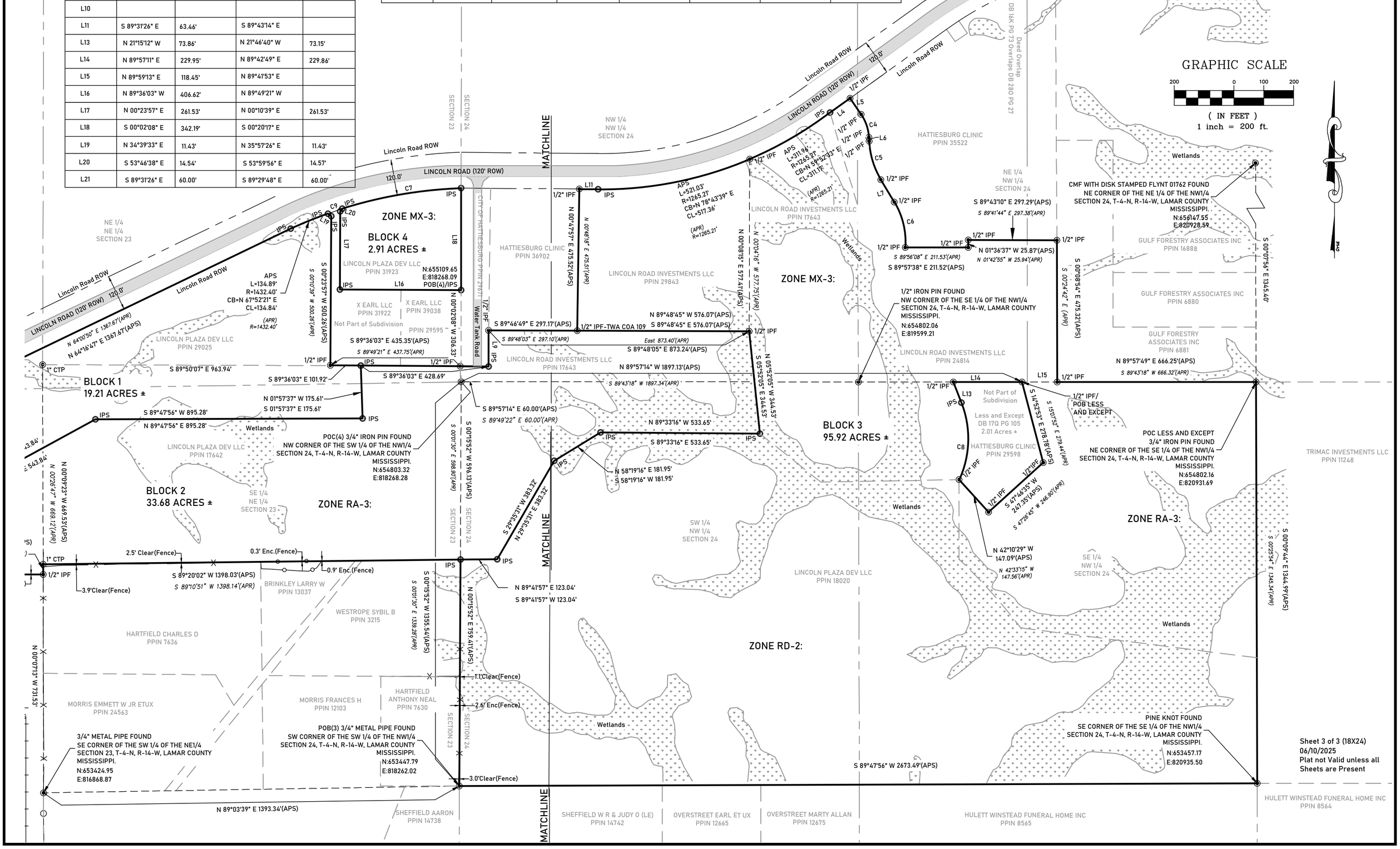
Sheet 2 of 3 (18X24)
06/10/2025
Plat not Valid unless all Sheets are Present

LINE TABLE

LINE NUMBER	APS BEARING	APS LENGTH	APR BEARING	APR LENGTH
L1	S 09°43'11" E	240.00'	S 09°59'54" E	240.08'
L2	N 80°25'19" E	129.76'	N 80°05'07" E	129.94'
L3	N 09°40'16" W	242.38'	N 09°58'56" W	243.37'
L4	N 54°26'29" E	83.00'	N 53°53'38" E	
L5	S 34°10'36" E	65.66'	S 34°11'19" E	65.68'
L6	S 02°44'44" E	13.13'	S 02°45'41" E	13.16'
L7	S 31°08'40" E	87.52'	S 31°04'02" E	87.56'
L8				
L9	N 00°00'21" W	121.25'	N 00°04'16" W	
L10				
L11	S 89°31'26" E	63.46'	S 89°43'14" E	
L13	N 21°15'12" W	73.86'	N 21°46'40" W	73.15'
L14	N 89°57'11" E	229.95'	N 89°42'49" E	229.86'
L15	N 89°59'13" E	118.45'	N 89°41'53" E	
L16	N 89°36'03" W	406.62'	N 89°49'21" W	
L17	N 00°23'57" E	261.53'	N 00°10'39" E	261.53'
L18	S 00°02'08" E	342.19'	S 00°20'17" E	
L19	N 34°39'33" E	11.43'	N 35°57'26" E	11.43'
L20	S 53°46'38" E	14.54'	S 53°59'56" E	14.57'
L21	S 89°31'26" E	60.00'	S 89°29'48" E	60.00'

CURVE TABLE

CURVE NUMBER	APS ARC LENGTH	APR ARC LENGTH	APR/APS RADIUS	APS CHORD LENGTH	APR CHORD LENGTH	APS CHORD BEARING	APR CHORD BEARING
C1	99.77'		818.51'	99.70'		N 88°46'50" E	
C2	130.12'	130.18'	818.51'	129.98'	130.04'	N 79°22'27" E	N 78°38'14" E
C3	156.05'		818.51'	155.81'		N 68°29'04" E	
C4	82.64'	82.66'	150.70'	81.61'	81.63'	S 18°31'37" E	S 18°28'30" E
C5	135.49'	135.51'	274.30'	134.12'	134.14'	S 16°53'05" E	S 16°54'52" E
C6	159.62'	159.53'	261.00'	13.16'	157.15'	S 13°34'25" E	S 13°33'23" E
C7	405.13'		1432.40'	403.92'		N 80°14'41" E	
C8	266.17'	266.18'	330.00'	259.02'	259.02'	N 01°34'05" E	N 01°19'43" E
C9	51.39'	51.39'	1432.40'	51.39'	51.39'	N 70°46'18" E	N 70°51'00" E



MINUTES OF THE

REGULAR MEETING OF THE

HATTIESBURG PLANNING COMMISSION

August 5th, 2026

Board Members Roll Call:

Members Present:

1. Richard Conville
2. Amy Hinton, Chair
3. Elayne Lockett
4. Lee Anne Venable
5. Rebekah Ray, Secretary
6. Michael Dickerson
7. Edward Hargrove

Members Absent

1. Charles Dawe
2. Caroline Ingram
3. Rhoda Pickett, Vice Chair

Staff Present:

1. Cory Long, Planning Manager
2. Nathan Satcher, Senior Planner
3. Wiley Quinn, Director of Urban Development
4. Meridian McDaniel, Planner I

Amy Hinton, Chair, declared the Hattiesburg Planning Commission meeting open and in session at 1:04 pm.

AGENDA REVIEW

The August 2026 agenda was reviewed.

Motion:

Rebekah Ray motioned to approve the agenda.

Second:

Elayne Lockett

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

MINUTES REVIEW

The minutes from the July 2026 meeting were reviewed.

Motion:

Rebekah Ray motioned to approve the minutes from the July Meeting.

Second:

Richard Conville

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove			ABSENT
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

1. Building Report
2. Planning Report:
3. Chair's Report:

INTRODUCTIONS

Commissioners and staff introduced themselves.

PUBLIC HEARING – Planning Commission

Item A:

Sandra Willis, Applicant, requests a conditional use approval for a "club/bar" for a B-2 zoned property located at 211 Old Airport Road (PPIN 6805, Forrest County, Ward 5).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Tamarkion Britton
- Sandra Willis

Proponents:

- None

Opponents:

- None

Motion:

Richard Conville motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray			ABSTAIN
Lee Anne Venable	X		

Item B:

Patricia Mitchell Longino, Applicant, Requests a conditional use approval for "dwelling, single family detached" for a B-2 zoned property located at 1512 McInnis Avenue

(PPIN 26743, Forrest County, Ward 2).

Discussion and Vote :

The planning staff introduced the case.

Presented by:

- Patricia Mitchell

Proponents:

- None

Opponents:

- None

Motion:

Rebekah Ray motioned to recommend approval.

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

BUSINESS MEETING

Other Business:

- Lincoln Legacy Extention of Plat

Presented by:

- Ginger Lowrey

Proponents:

- None

Opponents:

- None

Motion:

Edward Hargrove motioned to recommend approval.

Second:

Lee Anne Venable

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

- Text Amendment Draft discussion
    - HPC asks for MDOT ROW and masonry walls.

Adjournment:

The meeting was adjourned at 2:28 pm

Motion:

Amy Hinton

Second:

Edward Hargrove

Vote:

Board Member	Yea	Nay	Other
Richard Conville	X		
Charles Dawe			ABSENT
Michael Dickerson	X		
Edward Hargrove	X		
Amy Hinton	X		
Caroline Ingram			ABSENT
Elayne Lockett	X		
Rhoda Pickett			ABSENT
Rebekah Ray	X		
Lee Anne Venable	X		

_____

Rebekah Ray, Secretary

_____

Cory Long, AICP, Planning Division Manager

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director**

cc: **Ann Jones, Chief Administrative Officer**

Date: **Tuesday, August 18, 2026**

Re: **Accept for perpetual maintenance the final street improvements for Hattiesburg Marketplace Subdivision and authorize the release of the performance bond associated with the development.**
File Number: 2026-716
Minute Book #

Summary
The streets have been completed and inspected. We can release the bond.

Recommendation Statement
Accept the streets and release the performance bond held for the improvements.

Please place this on the August 18, 2026 City Council meeting for consideration.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Marybeth Bergin, Director of Transportation and Engineering**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Approve amended Professional Services Agreement with Shows, Dearman and Waits, Inc. for engineering services related to 2027 SRLF-Katie-John-Dabbs, Hattiesburg High PH II and East Jerusalem PH I and III Projects and authorize the Mayor to execute in duplicate.**
File Number: 2026-717
Minute Book #

Summary

Amend Professional Services Agreement with Shows, Dearman and Waits, Inc. for engineering services related to 2027 SRLF-Katie-John-Dabbs, Hattiesburg High PH II and East Jerusalem PH I and III Projects and authorize the Mayor to execute in duplicate.

Due to discoveries made during the Preliminary Engineering phase, the scope of the project is needed to increase to include additional sewer replacement along S Tipton St in the East Jerusalem Phase III project. The design fee will increase from $1,137,200.00 to $1,184,750.00, and the construction services will increase from $796,100.00 to $829,330.81, for an overall total project increase of $80,780.81.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

This is **EXHIBIT K**, consisting of 3 pages, referred to in and part of the **Agreement between Owner and Engineer** dated April 07, 2026.

Amendment to Owner-Engineer Agreement

1. Background Data:

   Effective Date of Owner-Engineer Agreement: April 07, 2026

   Owner: City of Hattiesburg

   Engineer: Shows, Dearman and Waits

   Project: 2027 SRLF – Katie John Dabbs, Hattiesburg II and East Jerusalem Ph I and III

2. Nature of Amendment

x	Modifications to Services of Engineer
x	Additional Services to be performed by Engineer
x	Modifications to Services of Engineer
x	Modifications to Responsibilities of Owner
x	Modifications to Payment to Engineer
_____	Modifications to Time(s) for rendering Services
_____	Modifications to other terms and conditions of the Agreement

1. Description of Modifications

   Due to discoveries made during the Preliminary Engineering phase the owner has decided to increase the scope of the project to include additional sewer to be placed along S Tipton St. in the East Jerusalem Ph III project. The change in scope has increased the design requirements to include additional surveying services, design of sewer system and additional CEI services. Appendix A has been updated to reflect the additional areas.

Agreement Summary:

Original design agreement amount:	$1,137,200.00
Original Resident Project Representative Services	$ 796,100.00
Net change prior to amendments:	$0.00

EJCDC E-582 Model Form of Agreement Between Owner and Program Manager.
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This amendment amount:

a.	Planning/Application Phase	$ 118,475.00
b.	Preliminary Design Phase	$ 630,500.00
c.	Final Design Phase	$ 270,900.00
d.	Bidding and Negotiating Phase	$ 164,875.00
	Final design amount:	$1,184,750.00
	Final Resident Project Representative Services	$829,330.81

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is 8/18/2026 .

OWNER: City of Hattiesburg	Engineer: Shows, Dearman and Waits, Inc.
By: Toby Barker	By: Shea McNease, P.E.
Title: Mayor	Title: President
Date Signed:	Date Signed: 8/14/26

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CITY OF HATTIESBURG, MS

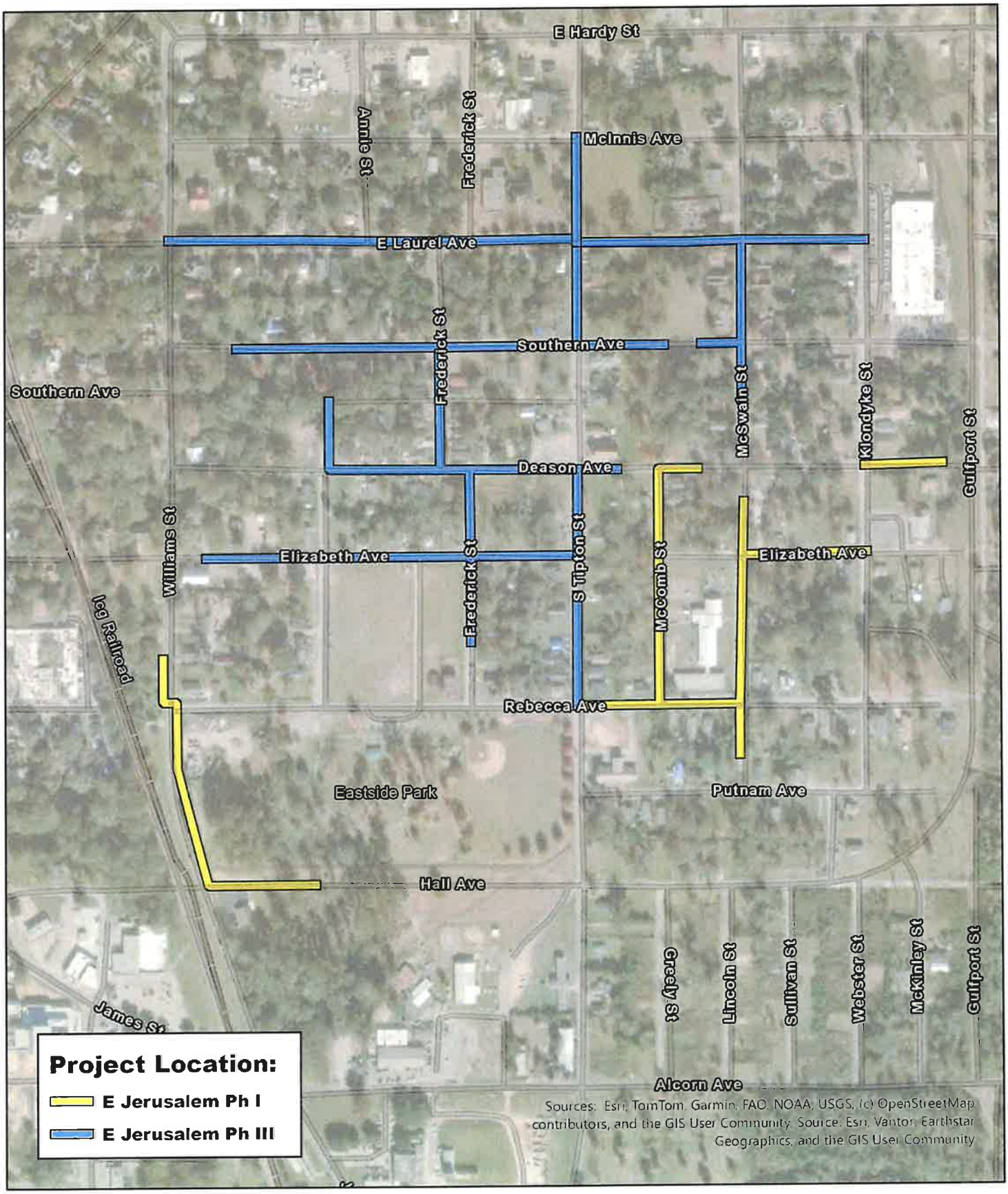
APPENDIX A - EAST JERUSALEM SEWER PH I & III

DATE: 04-29-2026
PROJECT # 12260

SCALE: 1" = 400'

0 200 400 800 LF

N



OPINION OF PROBABLE COSTS	Proj. No.: 12260	Date: December 5, 2025

East Jerusalem PH I Sewer Rehabilitation

Item	Description	Unit	Quantity	Unit Price	Extension
1	6" SDR 26 PVC Sewer Pipe	LF	990	$440.00	$435,600.00
2	8" SDR 26 PVC Sewer Pipe	LF	2,596	$455.00	$1,181,180.00
	12" SDR 26 PVC Sewer Pipe	LF	350	$455.00	$159,250.00
				Project Subtotal:	**$1,776,030.00**
				Contingencies:	**$177,603.00**
				Project Total	**$1,953,633.00**
				Planning	**$19,536.33**
				Engineering	**$175,826.97**
				Construction E&I	**$136,754.31**
				Project Total:	**$2,285,750.61**

OPINION OF PROBABLE COSTS	Proj. No.: 12260	Date: December 5, 2025

East Jerusalem PH III Sewer Rehabilitation

Item	Description	Unit	Quantity	Unit Price	Extension
	6" SDR 26 PVC Sewer Pipe	LF	150	$440.00	$66,000.00
	8" SDR 26 PVC Sewer Pipe	LF	6,500	$455.00	$2,957,500.00
	12" SDR 26 PVC Sewer Pipe	LF	450	$455.00	$204,750.00
	21" SDR 26 PVC Sewer Pipe	LF	1,850	$495.00	$915,750.00
				Project Subtotal:	**$4,144,000.00**
				Contingencies:	**$414,400.00**
				Project Total	**$4,558,400.00**
				Planning	**$45,584.00**
				Engineering	**$410,256.00**
				Construction E&I	**$319,088.00**
				Project Total:	**$5,333,328.00**

CITY OF HATTIESBURG, MS

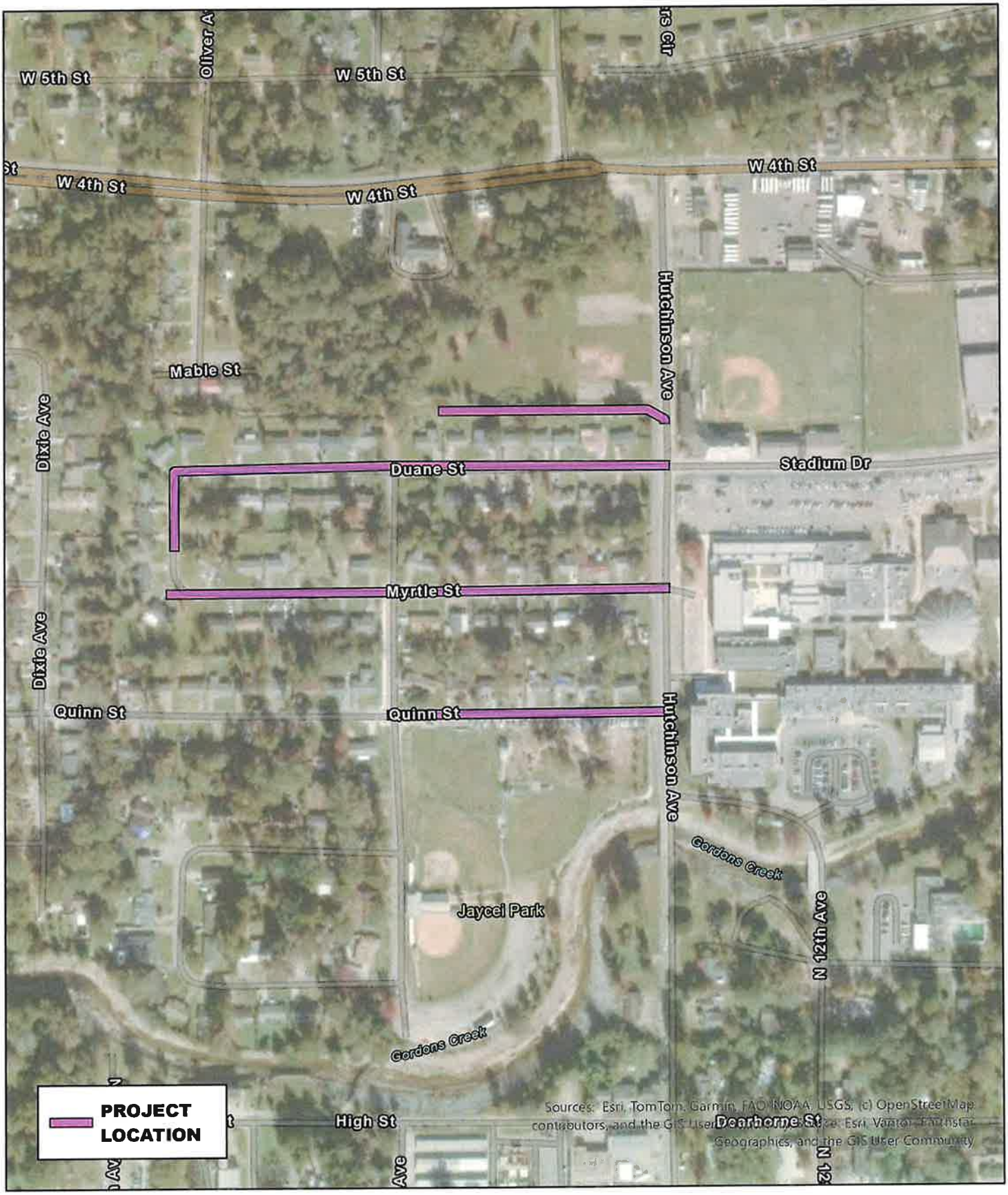
APPENDIX A - HATTIESBURG HIGH SEWER REHABILIATION PHASE II

DATE: 03-10-2026
PROJECT # 12260

SCALE: 1" = 300'

0 150 300 600 LF

N



OPINION OF PROBABLE COSTS	Proj. No.: 12238	Date: December 5, 2025

Hattiesburg High Area Sewer Rehabilitation Phase II

Duane, Lurty, Myrtle and Quinn St

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	8" SDR 26 PVC Sewer Pipe	LF	3,400	$445.00	$1,513,000.00
				Project Subtotal:	**$1,513,000.00**
				Contingencies:	**$151,300.00**
				Project Total	**$1,664,300.00**
				Planning	**$16,643.00**
				Engineering	**$149,787.00**
				Construction E&I	**$116,501.00**
				Project Total:	**$1,947,231.00**

CITY OF HATTIESBURG, MS

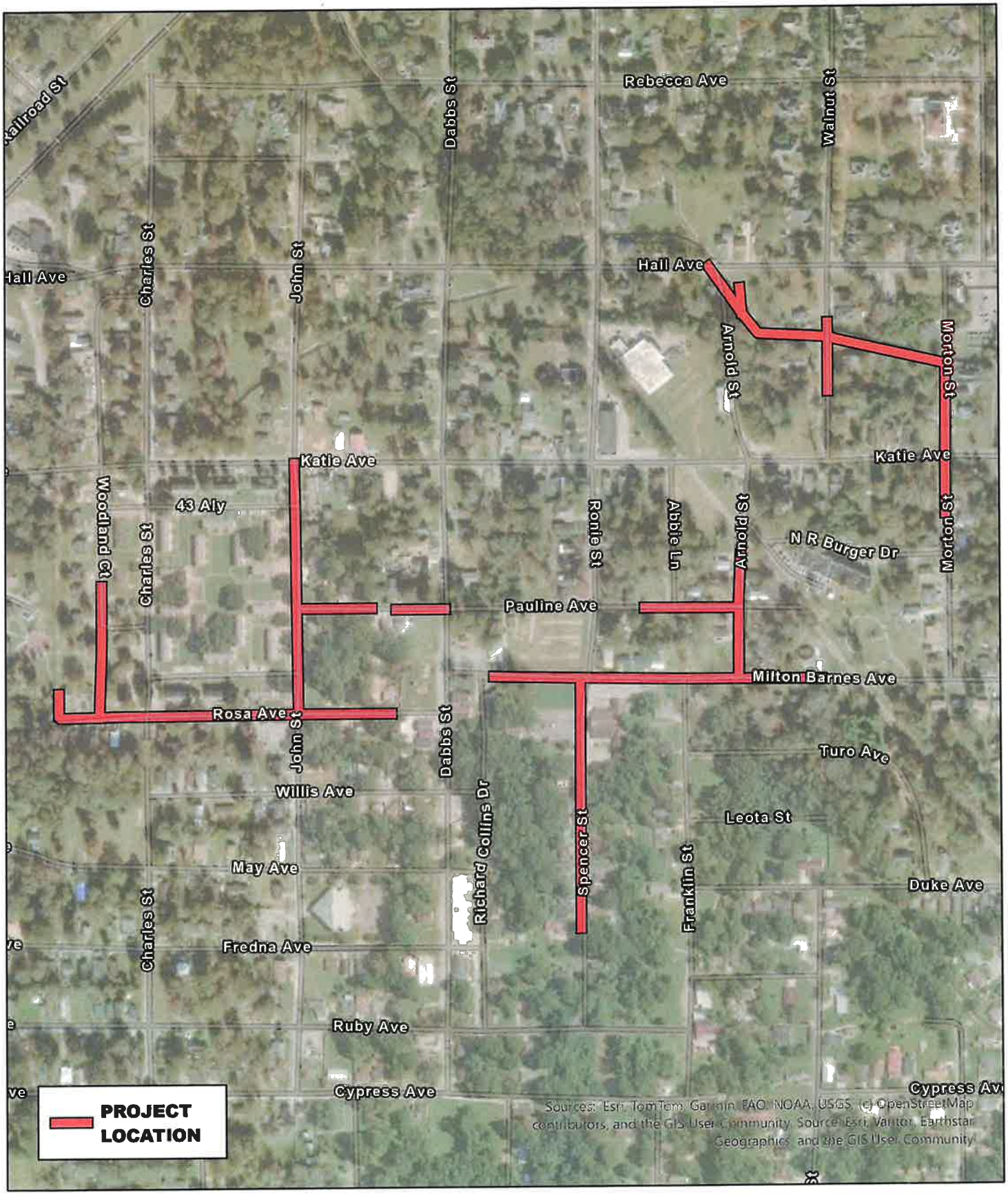
APPENDIX A - KATIE, JOHN, DABBS SEWER REHABILITATION PROJECT

DATE: 03-10-2026
PROJECT # 12260

SCALE: 1" = 400'

0 200 400 800 LF

N



OPINION OF PROBABLE COSTS	Proj. No.: 12238	Date: December 5, 2025

Katie, John and Dabbs Neighborhood Sewer Rehabilitation

Item	Description	Unit	Quantity	Unit Price	Extension
	Sewer Pipe Items				
1	8" SDR 26 PVC Sewer Pipe	LF	7,500	$445.00	$3,337,500.00
				Project Subtotal:	**$3,337,500.00**
				Contingencies:	**$333,750.00**
				Project Total	**$3,671,250.00**
				Planning	**$36,712.50**
				Engineering	**$330,412.50**
				Construction E&I	**$256,987.50**
				Project Total:	**$4,295,362.50**

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Marybeth Bergin, Director of Transportation and Engineering**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Approve Contract Change Order No. 1 with R & J Construction, for the Grace Ave Sidewalk Project for a contract increase of $17,770.00 and Authorize the Mayor to execute in duplicate.**
File Number: 2026-717
Minute Book #

Summary
Approve Contract Change Order No. 1 with R & J Construction, for the Grace Ave Sidewalk Project for a contract increase of $17,770.00 and Authorize the Mayor to execute in duplicate.

The change is need to adjust for the removal of thermoplastic pavement markings, additional pay items requested by the City, and utility adjustments not identified on the survey during design.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

NEEL-SCHAFFER

8/7/2026
N-S Project No. 16258

Marybeth Bergin, PE
City Engineer
City of Hattiesburg
P.O. Box 1898
Hattiesburg, MS 39403-1898

RE: FTA Sidewalk – Grace Avenue
City of Hattiesburg

Dear Mrs. Bergin:

Please find attached Change Order #1. This Change Order includes the cost adjustment for the removal of thermoplastic pavement markings. It also includes additional pay items requested by the city as well as utilities adjustments that were not identified on the survey during design.

Sincerely,

Dustin Gatlin, P.E.
Engineer Manager, Project Manager

ACCEPTED:

BY: _____ DATE: _____

Attachments: Construction Change Request #1

P: 601.545.1565 | F: 601.545.2267
704 Hardy Street
Hattiesburg, MS 39401
www.neel-schaffer.com

engineers | planners | surveyors | environmental scientists | landscape architects

FTA Sidewalk - Grace Avenue

City of Hattiesburg

CONSTRUCTION CHANGE REQUEST NO.1

Project No. : 16258 Date August 7, 2026

The following changes on the above project, with stations, quantities and items involved, are recommended for the reasons stated in detail:

Proposed:

Due to upcoming paving project in the work area, the city has requested that the engineer remove the thermoplastic striping pay items

1) and replace with paint for temporary pavement markings.

By request of the City of Hattiesburg, additional curb be removed and replaced in preparation for upcoming paving projects.

2) Additional pay items are needed due to the type of curb and locations.

3) Contractor is requesting ten (10) working days added to the contract for the additional curb work.

Sewer cleanouts and gas valves for residents were identified by the contractor that were not located on the survey for design.

4) Additional pay items are required to adjust these utilites.

ORINGAL QUANTITIES AND COST

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
626-H	6" DOUBLE THERMOPLASTIC LEGEND, YELLOW	180.0	LF	$4.00	$720.00
626-H	6" EQV. THERMOPLASTIC LEGEND, WHITE	550.0	LF	$5.00	$2,750.00
				TOTAL	$3,470.00

REVISED QUANTITIES AND COST

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
626-H	6" DOUBLE THERMOPLASTIC LEGEND, YELLOW	-180.0	LF	$4.00	-$720.00
626-H	6" EQV. THERMOPLASTIC LEGEND, WHITE	-550.0	LF	$5.00	-$2,750.00
				TOTAL	-$3,470.00

NEW PAY ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
202-BO6	REMOVAL OF CURB AND GUTTER	88.0	LF	$18.50	$1,628.00
609-D	COMBINATION CONCRETE CURB AND GUTTER, VALLEY CURB AND GUTTER	88.0	LF	$39.00	$3,432.00
626-H	6" DOUBLE PAINT LEGEND, YELLOW	180.0	LF	$2.50	$450.00
626-H	6" EQV. PAINT LEGEND, WHITE	550.0	LF	$3.00	$1,650.00
613-E	ADJUSTMENT OF SEWER CLEANOUTS	22.0	EA	$290.00	$6,380.00
613-F	ADJUSTMENTS OF GAS VALVES	22.0	EA	$350.00	$7,700.00
				TOTAL	$21,240.00

ORIGINAL COST:	$3,470.00
REVISED COST:	$17,770.00

Total Estimated Project - Per Contract

Original Contract Amount	$515,323.53	(A)
Change Order Amount	$17,770.00	(B)
TOTAL CONTRACT ITEMS (A+B)	$533,093.53	(C)

APPROVAL RECOMMENDED: Approved

Project Engineer

APPROVAL RECOMMENDED: _____

City of Hattiesburg Engineer

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Malcolm Berch, Chief Financial Officer**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Adopt the August 18, 2026 Amendments to the budget for the City of Hattiesburg for fiscal year ending September 30, 2026 and adopt Resolution authorizing publication for funds in excess of 10% of the originally appropriated fund balance.**
File Number: 2026-720
Minute Book #

Summary
Adopt the August 18th, 2026 Amendments to the budget for the City of Hattiesburg for fiscal year ending September 30,2026 and adopt Resolution authorizing publication for funds in excess of 10% of the originally appropriated fund balance.

Recommendation Statement
I recommend adoption of the August 18th, 2026 Amendments for fiscal year 2025-2026 and Resolution authorizing publication of amendments in excess of 10% of the original appropriated fund balance.

Please place this on the August 18, 2026 City Council meeting for consideration.

MEMORANDUM

TO	***:***	***Mayor Barker, Members of City Council***
FROM	***:***	***Malcolm G. Berch CFO***
DATE	***:***	***August 18, 2026***
SUBJECT	***:***	***Proposed Amendments, FY 2026***

Below is a list of the most significant proposed amendments to the FY 2026 budget. Attached is a more detailed list of proposed changes to the General Fund, detailing the impact to the Fund's budgeted ending cash. Descriptions are also included for proposed changes to the budgets of other funds.

Significant items specifically for the **General Fund** include:

- Increase of Contractual Services for Special Duty and Jail Expenses
- Establish budget for the Heritage Preservation Grant
- Establish budget for transfer to reclassify revenues
- Final adjustments for Fuel and Utilities

Budget amendments in other funds were attributed mostly to adjusting beginning cash estimates and adjustments for open purchase orders. Other notable adjustments are increase in Parks & Rec to purchase a replacement Christmas tree, Water & Sewer adjustments and transfer of revenues to W&S Construction.

If you have questions concerning the information presented, please give me a call.

RECAP OF PROPOSED AMENDMENTS
August 18, 2026
FY 2026

GENERAL FUND:

Budgeted Ending Cash as adopted		**5,978,758**
Amendments to Expenditures:		
City Council - Audit	(10,000)	
Municipal Court - Stop Violence, Utilities	(19,850)	
Mayor/Admin - Fuel	(1,000)	
Information Technology - Professional Services	(70,900)	
Gen Ins oth. -	(72,500)	
Police - Realignment, Body Cams, Utilities, Fuel	(20,000)	
Joint P&F Training - A/C repair	(5,000)	
Code Enforcement - Utilities	(5,500)	
Contractual Services - Special Duty, Jail Expense	(275,000)	
Streets - Asphalt, Fuel, Ag Repair, Uniform rent	(10,000)	
Street Lights - Electricity	(150,000)	
Engineering - Utilities	(4,000)	
Shop - Utilities	(6,000)	
Sanitation - Fuel, Tipping fees	(60,000)	
Health - Fuel	(16,000)	
Animal Control - Fuel	(8,500)	
Transfers - increase transfer to Parks & Rec	(323,140)	
Airport - Electricity	(6,500)	
Cemetery - Fuel, Utilities, Tree removal	(22,500)	
Parking Garage - Electricity	(2,000)	
		(1,088,390)
Budgeted Ending Cash, as Amended		**$ 4,890,368**

PARKS & RECREATION FUND:		
Fuel and Replacement Tree	**$**	**(56,000)**
WATER AND SEWER		
Utilities, Streets and Structures	**$**	**(280,714)**
W & S Rev Obligation		
Transfers for SRF Loan and Revenue reclassification	**$**	**(2,340,000)**
Mass Transit		
Utilities	**$**	**(48,000)**

W & S Construction		
Revenue, Transfers	$	**(361,568)**
Community Centers		
Fuel, A/C repair	$	**(27,000)**
COVID FISCAL RECOVERY		
Expense Reclassification	$	**(426,294)**
SPECIAL SALES TAX		
Transfer	$	**(40,000)**

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2026

	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
Revenues & Beg. Cash Balance:							
Taxes -Other	$17,500		$17,500		$17,500		$17,500
Licenses & Permits	4,809,520		4,809,520		$4,809,520		$4,809,520
Intergovernmental Revenues:							$0
Federal	3,130,249	-159,658	2,970,591		$2,970,591		$2,970,591
State	1,106,476		1,106,476		$1,106,476	500,000	$1,606,476
State-Shared	28,230,092		28,230,092		$28,230,092		$28,230,092
County/City Shared	168,239		168,239		$168,239		$168,239
Charges for Services:					$0		$0
Public Safety	458,500		458,500		$458,500		$458,500
Streets	0		0		$0		$0
Sanitation	3,360,500		3,360,500		$3,360,500		$3,360,500
Misc.	0		0		$0		$0
Fines & Forf.	1,206,000		1,206,000		$1,206,000		$1,206,000
Misc. Revenues	524,400		524,400		$524,400		$524,400
Transfers-In	1,250,000		1,250,000		$1,250,000		$1,250,000
Non-Revenue Receipts	335,200		335,200		$335,200		$335,200
TOTAL REVENUES EXCLUSIVE OF			0		0		$0
PROPERTY TAXES	$44,596,676	-$159,658	$44,437,018	$0	$44,437,018	$500,000	$44,937,018
Beg. Fund Balance	14,700,000	-3,309,536	11,390,464		$11,390,464		$11,390,464
Less Reserve for Court Technology			0		$0		$0
Less Reserve for Future Debt Service			0		$0		0
Property Tax Levy	23,200,000		23,200,000		$23,200,000		23,200,000
TOTAL AVAIL. REVENUES	**$82,496,676**	**-$3,469,194**	**$79,027,482**	**$0**	**$79,027,482**	**$500,000**	**$79,527,482**
THE GENERAL FUND EXPENDITURE BUDGETS:							
001003 City Council							
Personnel	$464,700		$464,700		$464,700		464,700
Supplies & Expenses	3,400		3,400		$3,400		3,400
Other Services & Charges	243,500		243,500		$243,500	10,000	253,500
Capital Outlays	6,000		6,000		$6,000		6,000
Total - City Council	$717,600	$0	$717,600	$0	$717,600	$10,000	$727,600
001015 City Court							
Personnel	$1,348,900	$36,320	$1,385,220	$14,000	$1,399,220	$4,500	1,403,720
Supplies & Expenses	31,533	3,570	35,103		$35,103		35,103
Other Services & Charges	304,180		304,180		$304,180	15,350	319,530
Capital Outlays	0		0		$0		0
Total - City Court	$1,684,613	$39,890	$1,724,503	$14,000	$1,738,503	$19,850	$1,758,353
001020 Mayor/Admin.							
Personnel	$1,006,400		$1,006,400		$1,006,400		1,006,400
Supplies & Expenses	31,550		31,550		$31,550	1,000	32,550
Other Services & Charges	247,150	13,000	260,150		$260,150		260,150
Capital Outlays	4,500	18,380	22,880		$22,880		22,880
Total - Mayor/Admin.	$1,289,600	$31,380	$1,320,980	$0	$1,320,980	$1,000	$1,321,980
001030 Elections							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	0		0		$0		0
Total - Elections	$0	$0	$0	$0	$0	$0	$0
001040 Muni. Clerk							
Personnel	$225,650		$225,650		$225,650		$225,650
Supplies & Expenses	4,750		4,750		$4,750		4,750
Other Services & Charges	49,100		49,100		$49,100		49,100
Capital Outlays	0		0		$0		0
Total - Muni Clerk	$279,500	$0	$279,500	$0	$279,500	$0	$279,500
001042 Accounting							
Personnel	$472,300		$472,300		$472,300		$472,300
Supplies & Expenses	11,500		11,500		$11,500		11,500
Other Services & Charges	7,300		7,300		$7,300		7,300
Capital Outlays	0		0		$0		0
Total - Accounting	$491,100	$0	$491,100	$0	$491,100	$0	$491,100

CITY OF HATTIESBURG, MS. - GENERAL FUND
Analysis of Revenue and Expenditure Budgets
Fiscal Year Ending September 30, 2026

		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
001045	Purchasing							
	Personnel	$153,230		$153,230		$153,230		$153,230
	Supplies & Expenses	2,750		2,750		$2,750		2,750
	Other Services & Charges	6,605		6,605		$6,605		6,605
	Capital Outlays	0		0		$0		0
	Total - Purchasing	$162,585	$0	$162,585	$0	$162,585	$0	$162,585
001060	City Attorney							
	Personnel	$97,060		$97,060		$97,060		$97,060
	Supplies & Expenses	100		100		$100		100
	Other Services & Charges	350		350		$350		350
	Capital Outlays	0		0		$0		0
	Total - City Attorney	$97,510	$0	$97,510	$0	$97,510	$0	$97,510
001080	Human Resources							
	Personnel	$325,180	$7,600	$332,780		$332,780		$332,780
	Supplies & Expenses	10,800	2,340	13,140		$13,140		13,140
	Other Services & Charges	8,750	1,500	10,250		$10,250		10,250
	Capital Outlays	0		0		$0		0
	Total - Human Resources	$344,730	$11,440	$356,170	$0	$356,170	$0	$356,170
001081	Loss Control							
	Personnel	$74,160		$74,160		$74,160		$74,160
	Supplies & Expenses	4,800		4,800		$4,800		4,800
	Other Services & Charges	3,400		3,400		$3,400		3,400
	Capital Outlays	0		0		$0		0
	Total - Loss Control	$82,360	$0	$82,360	$0	$82,360	$0	$82,360
001090	Urban Development							
	Personnel	$646,740		$646,740	$11,450	$658,190		$658,190
	Supplies & Expenses	22,695	460	23,155		$23,155		23,155
	Other Services & Charges	118,780	3,234	122,014		$122,014		122,014
	Capital Outlays	0		0		$0		0
	Total - Urban Dev.	$788,215	$3,694	$791,909	$11,450	$803,359	$0	$803,359
001091	Information Systems							
	Personnel	$327,300		$327,300		$327,300		$327,300
	Supplies & Expenses	39,100		39,100		$39,100		39,100
	Other Services & Charges	823,400	165,000	988,400	100,000	$1,088,400	70,000	1,158,400
	Capital Outlays	40,000		40,000		$40,000	900	40,900
	Total - Inf. Systems	$1,229,800	$165,000	$1,394,800	$100,000	$1,494,800	$70,900	$1,565,700
001092	Gen. Gov't Building							
	Personnel			$0		$0		$0
	Supplies & Expenses	19,500	1,390	20,890		$20,890		20,890
	Other Services & Charges	423,700		423,700	50,000	$473,700		473,700
	Capital Outlays	0		0		$0		0
	Total - Gen. Gov't Building	$443,200	$1,390	$444,590	$50,000	$494,590	$0	$494,590
001093	Intermodal Facility (Depot) O & M:							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	11,350		11,350		$11,350		11,350
	Other Services & Charges	84,500		84,500	5,000	$89,500		89,500
	Capital Outlays	0		0		$0		0
	Total - Depot O & M	$95,850	$0	$95,850	$5,000	$100,850	$0	$100,850
001094	Metro Planning							
	Personnel	$231,670		$231,670		$231,670		$231,670
	Supplies & Expenses	9,650		9,650		$9,650		9,650
	Other Services & Charges	217,050		217,050		$217,050		217,050
	Capital Outlays			0		$0		0
	Total - Metro Planning	$458,370	$0	$458,370	$0	$458,370	$0	$458,370
001095	Gen. Gov't Insurance/Other serv.							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	500		500		$500		500
	Other Services & Charges	3,442,110	17,200	3,459,310	-200,000	$3,259,310	72,500	3,331,810
	Capital Outlays			0		$0		0
	Total - Gen. Gov't Insur/other Serv.	$3,442,610	$17,200	$3,459,810	-$200,000	$3,259,810	$72,500	$3,332,310

CITY OF HATTIESBURG, MS. - GENERAL FUND
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		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
001096	Federal Programs Administration							
	Personnel	$0		0		$0		0
	Supplies	0		0		$0		0
	Other Services & Charges	0	$990	990		$990		990
	Capital Outlay	0		0		$0		0
	Total - Federal Programs Admin.	$0	$990	$990	$0	$990	$0	$990
	Recap - General Government Cost Centers							
	Personnel	***$5,373,290***	***$43,920***	***$5,417,210***	***$25,450***	***$5,442,660***	***$4,500***	***$5,447,160***
	Supplies & Expenses	***$203,978***	***$7,760***	***$211,738***	***$0***	***$211,738***	***$1,000***	***$212,738***
	Other Services & Charges	***$5,979,875***	***$200,924***	***$6,180,799***	***-$45,000***	***$6,135,799***	***$167,850***	***$6,303,649***
	Capital Outlays	***$50,500***	***$18,380***	***$68,880***	***$0***	***$68,880***	***$900***	***$69,780***
	Total - Gen. Government	***$11,607,643***	***$270,984***	***$11,878,627***	***-$19,550***	***$11,859,077***	***$174,250***	***$12,033,327***
001100	Police							
	Personnel	$14,492,400	$62,440	$14,554,840	$4,210	$14,559,050		$14,559,050
	Supplies & Expenses	784,420	14,940	799,360		$799,360		799,360
	Other Services & Charges	1,483,249	126,935	1,610,184	129,000	$1,739,184	20,000	1,759,184
	Capital Outlays	0		0		$0		0
	Total - Police	$16,760,069	$204,315	$16,964,384	$133,210	$17,097,594	$20,000	$17,117,594
001131	Police & Fire Training							
	Personnel	$54,400		$54,400		$54,400		$54,400
	Supplies & Expenses	98,772		98,772		$98,772		98,772
	Other Services & Charges	68,700		68,700		$68,700	5,000	73,700
	Capital Outlays	0		0		$0		0
	Total - Police & Fire Training	$221,872	$0	$221,872	$0	$221,872	$5,000	$226,872
001160	Fire							
	Personnel	$12,288,300	$11,480	$12,299,780		$12,299,780		$12,299,780
	Supplies & Expenses	295,350	3,495	298,845	15,000	$313,845		313,845
	Other Services & Charges	360,320		360,320	32,000	$392,320		392,320
	Capital Outlays	0		0		$0		0
	Total - Fire Dept.	$12,943,970	$14,975	$12,958,945	$47,000	$13,005,945	$0	$13,005,945
001180	Code Enforcement							
	Personnel	$880,520		$880,520		$880,520		$880,520
	Supplies & Expenses	34,755		34,755	1,500	$36,255	1,000	37,255
	Other Services & Charges	311,250		311,250	102,000	$413,250	4,500	417,750
	Capital Outlays	25,000	11,500	36,500		$36,500		36,500
	Total - Code Enforcement	$1,251,525	$11,500	$1,263,025	$103,500	$1,366,525	$5,500	$1,372,025
001190	Contractual Services - Public Safety							
	Personnel	$300,200		$300,200		$300,200	$130,000	$430,200
	Supplies & Expenses	0		0		$0		0
	Other Services & Charges	790,000		790,000		$790,000	145,000	935,000
	Capital Outlays	0		0		$0		0
	Total - Cont. Serv. - Public Safety	$1,090,200	$0	$1,090,200	$0	$1,090,200	$275,000	$1,365,200
	Public Services Cost Centers:							
001191	Traffic Maint.							
	Personnel	$367,320		$367,320		$367,320		$367,320
	Supplies & Expenses	144,750	6,700	151,450	3,300	$154,750		154,750
	Other Services & Charges	95,550	76,500	172,050	9,800	$181,850		181,850
	Capital Outlays	0		0		$0		0
	Total - Traffic Maint.	$607,620	$83,200	$690,820	$13,100	$703,920	$0	$703,920
001201	Streets							
	Personnel	$1,111,200		$1,111,200		$1,111,200		$1,111,200
	Supplies & Expenses	296,100		296,100	43,000	$339,100		339,100
	Other Services & Charges	1,634,600	54,000	1,688,600	16,000	$1,704,600	10,000	1,714,600
	Capital Outlays	0		0		$0		0
	Total - Streets	$3,041,900	$54,000	$3,095,900	$59,000	$3,154,900	$10,000	$3,164,900
001202	Street Lights							
	Personnel			$0		$0		$0
	Supplies & Expenses			0		$0		0
	Other Services & Charges	1,500,000		1,500,000	160,000	$1,660,000	150,000	1,810,000
	Capital Outlays	0		0		$0		0
	Total - Street Lights	$1,500,000	$0	$1,500,000	$160,000	$1,660,000	$150,000	$1,810,000

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		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
001203	Engineering							
	Personnel	$667,080		$667,080		$667,080		$667,080
	Supplies & Expenses	16,150		16,150		$16,150		16,150
	Other Services & Charges	394,602		394,602		$394,602	4,000	398,602
	Capital Outlays	0	368,223	368,223		$368,223		368,223
	Total - Engineering	$1,077,832	$368,223	$1,446,055	$0	$1,446,055	$4,000	$1,450,055
001204	Shop							
	Personnel	$394,700	$20,910	$415,610		$415,610		$415,610
	Supplies & Expenses	24,950		24,950		$24,950		24,950
	Other Services & Charges	64,600		64,600		$64,600	6,000	70,600
	Capital Outlays	0		0		$0		0
	Total - Shop	$484,250	$20,910	$505,160	$0	$505,160	$6,000	$511,160
001205	GOFS							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	3,450		3,450		$3,450		3,450
	Other Services & Charges	11,000	4,000	15,000	4,600	$19,600		19,600
	Capital Outlays	0		0		$0		0
	Total - GOFS	$14,450	$4,000	$18,450	$4,600	$23,050	$0	$23,050
001206	Drainage							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	5,750		5,750		$5,750		5,750
	Other Services & Charges	75,000		75,000		$75,000		75,000
	Capital Outlays	1,753,000	-100,000	1,653,000		$1,653,000		1,653,000
	Total - Drainage	$1,833,750	-$100,000	$1,733,750	$0	$1,733,750	$0	$1,733,750
001207	Construction							
	Personnel	$638,000		$638,000		$638,000		$638,000
	Supplies & Expenses	100,600	18,750	119,350		$119,350		119,350
	Other Services & Charges	196,800	24,800	221,600		$221,600		221,600
	Capital Outlays	0		0		$0		0
	Total - Construction	$935,400	$43,550	$978,950	$0	$978,950	$0	$978,950
001220	Sanitation							
	Personnel	$1,926,650		1,926,650		$1,926,650		$1,926,650
	Supplies & Expenses	395,100	93,100	488,200	65,000	$553,200	30,000	583,200
	Other Services & Charges	1,748,700	205,500	1,954,200	-108,000	$1,846,200	30,000	1,876,200
	Capital Outlays	0		0		$0		0
	Total - Sanitation	$4,070,450	$298,600	$4,369,050	-$43,000	$4,326,050	$60,000	$4,386,050
001221	Street Cleaning							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	0		0		$0		0
	Other Services & Charges	0		0		$0		0
	Capital Outlays	0		0		$0		0
	Total - Street Cleaning	$0	$0	$0	$0	$0	$0	$0
001250	Health							
	Personnel	$1,523,690		$1,523,690		$1,523,690		$1,523,690
	Supplies & Expenses	118,000		118,000	7,000	$125,000	16,000	141,000
	Other Services & Charges	4,150	9,100	13,250		$13,250		13,250
	Capital Outlays	0		0		$0		0
	Total - Health	$1,645,840	$9,100	$1,654,940	$7,000	$1,661,940	$16,000	$1,677,940
	Recap - Public Services:							
	Personnel	***$6,628,640***	***$20,910***	***$6,649,550***	***$0***	***$6,649,550***	***$0***	***$6,649,550***
	Supplies & Expenses	***$1,104,850***	***118,550***	***1,223,400***	***118,300***	***$1,341,700***	***46,000***	***1,387,700***
	Other Services & Charges	***$5,725,002***	***373,900***	***6,098,902***	***82,400***	***$6,181,302***	***200,000***	***6,381,302***
	Capital Outlays	***$1,753,000***	***268,223***	***2,021,223***	***0***	***$2,021,223***	***0***	***2,021,223***
	Total - Public Services	***$15,211,492***	***$781,583***	***$15,993,075***	***$200,700***	***$16,193,775***	***$246,000***	***$16,439,775***
001260	Animal Control							
	Personnel	$195,800		$195,800	$20,000	$215,800		$215,800
	Supplies & Expenses	7,400		7,400		$7,400	8,500	15,900
	Other Services & Charges	321,850		321,850		$321,850		321,850
	Capital Outlays	0		0		$0		0
	Total - Animal Control	$525,050	$0	$525,050	$20,000	$545,050	$8,500	$553,550

CITY OF HATTIESBURG, MS. - GENERAL FUND
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		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
001280	Human/Social Assist.							
	Personnel			$0		$0		$0
	Supplies & Expenses			0		$0		0
	Other Services & Charges	331,500	35,000	366,500	-25,000	$341,500		341,500
	Capital Outlays			0		$0		0
	Total - Human/Social Assist.	$331,500	$35,000	$366,500	-$25,000	$341,500	$0	$341,500
001402	Economic Dev.							
	Personnel			$0		$0		$0
	Supplies & Expenses			0		$0		0
	Other Services & Charges	673,000	903,729	1,576,729		$1,576,729		1,576,729
	Capital Outlays	1,050,000	1,894,902	2,944,902	403,000	$3,347,902	500,000	3,847,902
	Total - Economic Dev.	$1,723,000	$2,798,631	$4,521,631	$403,000	$4,924,631	$500,000	$5,424,631
001460	Debt Service							
	Principal	$798,867		$798,867		$798,867		$798,867
	Interest	275,091		$275,091		$275,091		$275,091
	Paying Agent Fee	3,000		$3,000		$3,000		$3,000
	Total Debt Service	$1,076,958	$0	$1,076,958	$0	$1,076,958	$0	$1,076,958
001551	Airport							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	13,350		13,350		$13,350		13,350
	Other Services & Charges	42,300		42,300		$42,300	6,500	48,800
	Capital Outlays	0		0		$0		0
	Total - Airport	$55,650	$0	$55,650	$0	$55,650	$6,500	$62,150
001553	Cemetery							
	Personnel	$943,100		$943,100		$943,100		$943,100
	Supplies & Expenses	71,650		71,650		$71,650	17,500	89,150
	Other Services & Charges	58,790		58,790		$58,790	5,000	63,790
	Capital Outlays	60,500	18,200	78,700		$78,700		78,700
	Total - Cemetery	$1,134,040	$18,200	$1,152,240	$0	$1,152,240	$22,500	$1,174,740
001560	Parking Garages							
	Personnel	$54,750		$54,750		$54,750		$54,750
	Supplies & Expenses	1,600		1,600		$1,600		1,600
	Other Services & Charges	51,670		51,670	3,000	$54,670	2,000	56,670
	Capital Outlays	0		0		$0		0
	Total - Parking Garages	$108,020	$0	$108,020	$3,000	$111,020	$2,000	$113,020
	Transfers to Other Funds	$3,755,687	150,000	$3,905,687	101,000	$4,006,687	323,140	$4,329,827
	EXPENDITURES & TRANSFERS	**$67,796,676**	**$4,285,188**	**$72,081,864**	**$966,860**	**$73,048,724**	**$1,588,390**	**$74,637,114**
	Recap - General Fund							
	Personnel	*$41,211,400*	*$138,750*	*$41,350,150*	*$49,660*	*$41,399,810*	*$134,500*	*$41,534,310*
	Supplies & Expenses	*2,616,125*	*144,745*	*2,760,870*	*134,800*	*2,895,670*	*74,000*	*2,969,670*
	Other Services & Charges	*16,200,506*	*1,640,488*	*17,840,994*	*278,400*	*18,119,394*	*555,850*	*18,675,244*
	Capital Outlays	*2,939,000*	*2,211,205*	*5,150,205*	*403,000*	*5,553,205*	*500,900*	*6,054,105*
	Principal Payments	*798,867*	*0*	*798,867*	*0*	*798,867*	*0*	*798,867*
	Interest Payments	*275,091*	*0*	*275,091*	*0*	*275,091*	*0*	*275,091*
	Total - Gen. Fund Cost Centers	*$64,040,989*	*$4,135,188*	*$68,176,177*	*$865,860*	*$69,042,037*	*$1,265,250*	*$70,307,287*
	Transfers to Other Funds	*3,755,687*	*150,000*	*3,905,687*	*101,000*	*4,006,687*	*323,140*	*4,329,827*
	Total - Expenditures & Transfers	*$67,796,676*	*$4,285,188*	*$72,081,864*	*$966,860*	*$73,048,724*	*$1,588,390*	*$74,637,114*
	Ending Cash Budget	**$14,700,000**	**-$7,754,382**	**$6,945,618**	**-$966,860**	**$5,978,758**	**-$1,088,390**	**$4,890,368**

CITY OF HATTIESBURG, MS. - GENERAL FUND
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	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	June Amend'ts	Amended Budgets	August Amend'ts	Proposed Amended Budgets
ADMINISTRATIVE	$11,607,643		$11,878,627		$11,859,077		$12,033,327
POLICE & ACADEMY	$16,981,941		$17,186,256		$17,319,466		$17,344,466
FIRE	$12,943,970		$12,958,945		$13,005,945		$13,005,945
CODE ENFORCEMENT	$1,251,525		$1,263,025		$1,366,525		$1,372,025
PUBLIC WORKS	$15,211,492		$15,993,075		$16,193,775		$16,439,775
DEBT SERVICE	$1,076,958		$1,076,958		$1,076,958		$1,076,958
OTHER	$4,967,460		$7,819,291		$8,220,291		$9,034,791
TRANSFERS	$3,755,687		$3,905,687		$4,006,687		$4,329,827
PERSONNEL	$41,211,400		$41,350,150		$41,399,810		$41,534,310
SUPPLIES	$2,616,125		$2,760,870		$2,895,670		$2,969,670
OTHER SERVICES & CHARGES	$16,200,506		$17,840,994		$18,119,394		$18,675,244
CAPITAL OUTLAY	$2,939,000		$5,150,205		$5,553,205		$6,054,105
DEBT SERVICE	$1,073,958		$1,073,958		$1,073,958		$1,073,958
TRANSFERS	$3,755,687		$3,905,687		$4,006,687		$4,329,827

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
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		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
	Parks & Recreation (Fund #2):							
002300	Recreation Maint. Cost Center							
	Personnel	$2,108,520		$2,108,520		$2,108,520		$2,108,520
	Supplies & Expenses	500,300		500,300	22,500	$522,800	20,000	542,800
	Other Services & Charges	550,910		550,910	8,000	$558,910		558,910
	Capital Outlays	0	144,000	144,000		$144,000	36,000	180,000
	Total - Recreation Maint.	$3,159,730	$144,000	$3,303,730	$30,500	$3,334,230	$56,000	$3,390,230
002315	Recreation Admin.							
	Personnel	$583,100		$583,100		$583,100		$583,100
	Supplies & Expenses	80,100		80,100		$80,100		80,100
	Other Services & Charges	566,800		566,800	70,000	$636,800		636,800
	Capital Outlays	0		0		$0		0
	Total - Recreation Admin.	$1,230,000	$0	$1,230,000	$70,000	$1,300,000	$0	$1,300,000
	Kamper Park Zoo							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	0		0		$0		0
	Other Services & Charges	0		0		$0		0
	Capital Outlays	0		0		$0		0
	Total - Kamper Park	$0	$0	$0	$0	$0	$0	$0
	Recap - Parks & Recreation Fund:							
	Personnel	***$2,691,620***	***$0***	***$2,691,620***	***$0***	$2,691,620	***$0***	***$2,691,620***
	Supplies & Expenses	***580,400***	***0***	***580,400***	***22,500***	$602,900	***20,000***	***622,900***
	Other Services & Charges	***1,117,710***	***0***	***1,117,710***	***78,000***	$1,195,710	***0***	***1,195,710***
	Capital Outlays	***0***	***144,000***	***144,000***	***0***	$144,000	***36,000***	***180,000***
	Total - Recreation Maint.	***$4,389,730***	***$144,000***	***$4,533,730***	***$100,500***	***$4,634,230***	***$56,000***	***$4,690,230***
	Municipal Fire Protection (Fund #5):							
	Personnel	**$0**		**$0**		**$0**		**$0**
	Supplies & Expenses	**64,500**		**64,500**		**$64,500**		**64,500**
	Other Services & Charges	**55,000**		**55,000**		**$55,000**		**55,000**
	Capital Outlays	**75,000**	**447,320**	**522,320**		**$522,320**		**522,320**
	Principal Payments	**0**		**0**		**$0**		**0**
	Interest Payments	**0**		**0**		**$0**		**0**
	Total - Municipal Fire Prot. Fund	***$194,500***	***$447,320***	***$641,820***	***$0***	***$641,820***	***$0***	***$641,820***
	Special Streets (Fund #8):							
	Personnel	**$0**		**$0**		**$0**		**$0**
	Supplies & Expenses	**0**		**0**		**$0**		**0**
	Other Services & Charges	**20,000**		**20,000**		**$20,000**		**20,000**
	Capital Outlays	**0**		**0**		**$0**		**0**
	Total - Special Streets	***$20,000***	***$0***	***$20,000***	***$0***	***$20,000***	***$0***	***$20,000***
	Water & Sewer Operation & Maint. (Fund #9):							
009660	Customer Accounts Cost Center							
	Personnel	$983,280	$8,410	$991,690		$991,690		$991,690
	Supplies & Expenses	74,300		74,300	-5,000	$69,300	-5,000	64,300
	Other Services & Charges	556,300		556,300	-4,400	$551,900	-7,500	544,400
	Capital Outlays	70,000		70,000	-2,392	$67,608	-632	66,976
	Total - Customer Accounts	$1,683,880	$8,410	$1,692,290	-$11,792	$1,680,498	-$13,132	$1,667,366
009672	Water Transmission Cost Center							
	Personnel	$1,279,370		$1,279,370		$1,279,370		$1,279,370
	Supplies & Expenses	320,500		320,500	-30,000	$290,500	8,500	299,000
	Other Services & Charges	2,637,300		2,637,300	624,000	$3,261,300	106,200	3,367,500
	Capital Outlays	210,000		210,000	-182,836	$27,164		27,164
	Total - Water Trans.	$4,447,170	$0	$4,447,170	$411,164	$4,858,334	$114,700	$4,973,034
009673	Plant Cost Center							
	Personnel	$593,850	$660	$594,510		$594,510		$594,510
	Supplies & Expenses	489,000		489,000	-122,000	$367,000	-41,354	325,646
	Other Services & Charges	1,490,060		1,490,060	228,000	$1,718,060	-2,500	1,715,560
	Capital Outlays	0		0		$0		0
	Total - Plant	$2,572,910	$660	$2,573,570	$106,000	$2,679,570	-$43,854	$2,635,716

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		Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
009676	Sewer Cost Center							
	Personnel	$407,200		$407,200		$407,200		$407,200
	Supplies & Expenses	317,100		317,100	-40,950	$276,150	-7,500	268,650
	Other Services & Charges	2,965,500		2,965,500	93,200	$3,058,700	111,000	3,169,700
	Capital Outlays	85,000		85,000	-78,302	$6,698		6,698
	Total - Sewer	$3,774,800	$0	$3,774,800	-$26,052	$3,748,748	$103,500	$3,852,248
009677	Lagoon Cost Center							
	Personnel	$645,120		$645,120		$645,120		$645,120
	Supplies & Expenses	319,500		319,500	-100,500	$219,000		219,000
	Other Services & Charges	2,245,400		2,245,400	-70,700	$2,174,700	119,500	2,294,200
	Capital Outlays	0		0		$0		0
	Principal Payments	0		0		$0		0
	Interest Payments	0		0		$0		0
	Total - Lagoon Cost Center	$3,210,020	$0	$3,210,020	-$171,200	$3,038,820	$119,500	$3,158,320
	Recap: Water & Sewer O & M Fund:							
	Personnel	***$3,908,820***	***$9,070***	***$3,917,890***	***$0***	***$3,917,890***	***$0***	***$3,917,890***
	Supplies & Expenses	***1,520,400***	***0***	***1,520,400***	***-298,450***	***$1,221,950***	***-45,354***	***$1,176,596***
	Other Services & Charges	***9,894,560***	***0***	***9,894,560***	***870,100***	***$10,764,660***	***326,700***	***$11,091,360***
	Capital Outlays	***365,000***	***0***	***365,000***	***-263,530***	***$101,470***	***-632***	***$100,838***
	Principal Payments	***0***	***0***	***0***	***0***	***$0***	***0***	***$0***
	Interest Payments	***0***	***0***	***0***	***0***	***$0***	***0***	***$0***
	Total - Water & Sewer O & M Fund	***$15,688,780***	***$9,070***	***$15,697,850***	***$308,120***	***$16,005,970***	***$280,714***	***$16,286,684***
	Water & Sewer Bond & Int. (Fund #10):							
	Other Services & Charges			$0		$0		$0
	Principal Payments	$5,786,000		$5,786,000		$5,786,000		$5,786,000
	Interest Payments	$1,052,000		$1,052,000		$1,052,000		$1,052,000
	Paying Agent Fees	$15,000		$15,000		$15,000		$15,000
	Total - W & S Bond & Int. Fund	***$6,853,000***	***$0***	***$6,853,000***	***$0***	***$6,853,000***	***$0***	***$6,853,000***
	Water & Sewer Revenue (Fund #11):							
	Principal Payments	$0		$0		$0	$104,000	$104,000
	Interest Payments	0		0		$0	70,000	70,000
	Other services & charges	90,000		90,000		$90,000		90,000
	Transfers to other funds	28,670,000		28,670,000		$28,670,000	2,166,000	30,836,000
	Total - W & S Revenue Fund	***$28,760,000***	***$0***	***$28,760,000***	***$0***	***$28,760,000***	***$2,340,000***	***$31,100,000***
	2020 Tax Increment (Planet Fitness) Bond & Int (Fund #12):							
	Principal Payments	$38,932		$38,932		$38,932		$38,932
	Interest Payments	13,679		13,679		$13,679		13,679
	Other Services & Charges	0		0		$0		0
	Transfers	0		0		$0		0
	Paying Agent Fees	0		0		$0		0
	Total - 1999 TIF Bond & Int Fund	***$52,611***	***$0***	***$52,611***	***$0***	***$52,611***	***$0***	***$52,611***
	City Bond & Interest (Fund #13):							
	Principal Payments	$1,840,000		$1,840,000		$1,840,000		$1,840,000
	Interest Payments	2,063,200		2,063,200		$2,063,200		2,063,200
	Other Services & Charges	31,000		31,000		$31,000		31,000
	Transfers	0		0		$0		0
	Paying Agent Fees	20,000		20,000		$20,000		20,000
	Total - 1999 TIF Bond & Int Fund	***$3,954,200***	***$0***	***$3,954,200***	***$0***	***$3,954,200***	***$0***	***$3,954,200***
	SUPPLEMENTAL ENVIRONMENTAL PROJECT (FUND #17):							
	Supplies	$0		$0		$0		$0
	Other Services & Charges	233,534		233,534		$233,534		233,534
	Capital Outlay	0		0		$0		0
	Transfers	0		0		$0		0
	Total - Supp. Env. Project Fund	***$233,534***	***$0***	***$233,534***	***$0***	***$233,534***	***$0***	***$233,534***
	Police Fines & Forfeitures (Fund #19):							
	Personnel	$0		$0		$0		$0
	Supplies & Expenses	0	20,000	20,000		$20,000		20,000
	Other Services & Charges	0	20,000	20,000		$20,000	-4,000	16,000
	Capital Outlays	0	25,000	25,000		$25,000	4,000	29,000
	Transfers	0		0		$0		0
	Total - Fines & Forf. Fund	***$0***	***$65,000***	***$65,000***	***$0***	***$65,000***	***$0***	***$65,000***

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	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
Series 2002 TIF Bond & Int (Southern Pointe, Fund #20):							
Principal Payments	$205,000		$205,000		$205,000		$205,000
Interest Payments	37,709		37,709		$37,709		37,709
other services & charges	2,000		2,000		$2,000		2,000
Total - 1999 TIF Bond & Int Fund	*$244,709*	*$0*	*$244,709*	*$0*	*$244,709*	*$0*	*$244,709*
Series 2004 TIF Bond & Int (Home Depot, Fund #21):							
Principal Payments	$0		$0		$0		$0
Interest Payments	0		0		$0		0
Transfers	0		0		$0		0
other services & charges	0		0		$0		0
Total - 2004 TIF Bond & Int Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2003 TIF Bond & Int (Chauvet Sq., Fund #22):							
Principal Payments	$180,000		$180,000		$180,000		$180,000
Interest Payments	16,425		16,425		$16,425		16,425
other services & charges	2,500		2,500		$2,500		2,500
Transfers to other Funds	0		0		$0		0
Total - 2003 TIF Bond & Int Fund	*$198,925*	*$0*	*$198,925*	*$0*	*$198,925*	*$0*	*$198,925*
Series 2007 TIFBond & Int (Turtle Creek Fund 23):							
Principal Payments	90,000		90,000		$90,000		90,000
Interest Payments	10,725		10,725		$10,725		10,725
Other Services & Charges	2,500		2,500		$2,500		2,500
Total - 2007 TIF Bond & Int Fund	*$103,225*	*$0*	*$103,225*	*$0*	*$103,225*	*$0*	*$103,225*
Series 2008 TIF Bond & Int (Lincoln Center Fund 24):							
Principal Payments	$0		0		$0		0
Interest Payments	$0		0		$0		0
Other Services & Charges	$0		0		$0		0
Total - 2008 TIF Bond & Int Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2011 TIF Bond & Int (Turtle Creek Commons/Kohl's Fund 25):							
Principal Payments	$0		0		$0		0
Interest Payments	$0		0		$0		0
Transfers	$0		0		$0		0
Total - 2008 TIF Bond & Int Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2016 TIF Bond & Int (Whispering Pines Fund 26):							
Principal Payments	$213,000		213,000		$213,000		213,000
Interest Payments	$66,423		66,423		$66,423		66,423
Other Services & Charges	$2,000		2,000		$2,000		2,000
Total - 2008 TIF Bond & Int Fund	*$281,423*	*$0*	*$281,423*	*$0*	*$281,423*	*$0*	*$281,423*
Series 2016 TIF Bond & Int (Hburg Clinic Midtown Fund 28):							
Principal Payments	$60,000		60,000		$60,000		60,000
Interest Payments	$16,006		16,006		$16,006		16,006
Other Services & Charges			0		$0		0
Total - 2008 TIF Bond & Int Fund	*$76,006*	*$0*	*$76,006*	*$0*	*$76,006*	*$0*	*$76,006*
Airport Imp. (Fund #39):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	50,000	308,085	358,085		$358,085		358,085
Capital Outlays	1,236,134	1,167,242	2,403,376		$2,403,376		2,403,376
Total - Airport Imp. Fund	*$1,286,134*	*$1,475,327*	*$2,761,461*	*$0*	*$2,761,461*	*$0*	*$2,761,461*
Series 2015A TIF Bond & Int (The Ridge at Turtle Creek) (Fund #50)							
Principal Payments	88,000		88,000		88,000		88,000
Interest Payments	30,965		30,965		30,965		30,965
Paying Agent Fees	2,000		2,000		2,000		2,000
Other Services & Charges	-		0		0		0
Total - Series 2015A TIF Bond & Int	*$ 120,965*	*$ -*	*$ 120,965*	*$ -*	*$ 120,965*	*$ -*	*$ 120,965*
Series 2015B TIF Bond & Int (Midtown Market) (Fund #51)							
Principal Payments	15,000		15,000		15,000		15,000
Interest Payments	5,363		5,363		5,363		5,363
Paying Agent Fees	2,000		2,000		2,000		2,000

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	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
Other Services & Charges	-		-		-		-
Total - Series 2015B TIF Bond & Int	*$ 22,363*	*$ -*	*$ 22,363*	*$ -*	*$ 22,363*	*$ -*	*$ 22,363*
Series 2019 TIF Bond & Int (Elam Arms) (Fund #52)							
Principal Payments							
Interest Payments	194,000		194,000		194,000		194,000
Paying Agent Fees	97,608		97,608		97,608		97,608
	4,000		4,000		4,000		4,000
Other Services & Charges			0		0		0
Total - Series 2019 TIF Bond & Int	*$ 295,608*	*$ -*	*$ 295,608*	*$ -*	*$ 295,608*	*$ -*	*$ 295,608*
Municipal Road & Bridge (Fund #72):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	1,330,000	100,000	1,430,000		$1,430,000		1,430,000
Capital Outlays	5,815,000	-221,000	5,594,000		$5,594,000		5,594,000
Transfers	0	252,000	252,000		$252,000		252,000
Principal	0		0		$0		0
Interest	0		0		$0		0
Total - Municipal Road & Bridge	*$7,145,000*	*$131,000*	*$7,276,000*	*$0*	*$7,276,000*	*$0*	*$7,276,000*
Mass Transit (Fund #73):							
Personnel	$1,606,000		$1,606,000		$1,606,000		$1,606,000
Supplies & Expenses	250,700		250,700		$250,700	36,000	286,700
Other Services & Charges	326,875		326,875		$326,875	12,000	338,875
Capital Outlays	3,419,577		3,419,577		$3,419,577		3,419,577
Transfers	0		0		$0		0
Total - Mass Transit Fund	*$5,603,152*	*$0*	*$5,603,152*	*$0*	*$5,603,152*	*$48,000*	*$5,651,152*
Water & Sewer Construction (Fund #75):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	2,200,000		2,200,000		$2,200,000		2,200,000
Transfers	0		0		$0	111,568	111,568
Capital Outlays	3,600,000		3,600,000		$3,600,000	1,000,000	4,600,000
Total - W & S Construction Fund	*$5,800,000*	*$0*	*$5,800,000*	*$0*	*$5,800,000*	*$1,111,568*	*$6,911,568*
Community Centers (Fund #77):							
Personnel	$658,200		$658,200		$658,200		$658,200
Supplies & Expenses	46,200		46,200		$46,200		46,200
Other Services & Charges	189,950		189,950		$189,950	17,000	206,950
Capital Outlays	70,500		70,500		$70,500	10,000	80,500
Transfers	0		0		$0		0
Total - Community Centers Fund	*$964,850*	*$0*	*$964,850*	*$0*	*$964,850*	*$27,000*	*$991,850*
Community Dev. Block Grant (Fund #82):							
Personnel	$308,200		$308,200		$308,200		$308,200
Supplies & Expenses	8,250		8,250		$8,250		8,250
Other Services & Charges	897,260		897,260		$897,260		897,260
Capital Outlays	928,906	740,394	1,669,300		$1,669,300		1,669,300
Transfers	0		0		$0		0
Total - CDBG Fund	*$2,142,616*	*$740,394*	*$2,883,010*	*$0*	*$2,883,010*	*$0*	*$2,883,010*
Covid Fiscal Recovery Fund (Fund #79):							
Supplies	$0		0		$0		0
Other Services & Charges	$0		0		$0		0
Transfers Out	$0		0		$0	$426,294	426,294
Capital Outlay	9,472,000		9,472,000		$9,472,000		9,472,000
Total - Series 2009 G.O. Bonds	*$9,472,000*	*$0*	*$9,472,000*	*$0*	*$9,472,000*	*$426,294*	*$9,898,294*
Special Sales Tax-Parks/Rec/USM Improvements (Fund 86):							
Principal Payments	$1,395,000		1,395,000		$1,395,000		1,395,000
Interest Payments	$80,007		80,007		$80,007		80,007
Personal Services	$57,850		57,850		$57,850		57,850
Supplies	$0		0		$0		0
Other Services & Charges	$1,950,000		1,950,000		$1,950,000	$40,000	1,990,000
Transfers Out	$0		0		$0		0
Capital Outlay	1,428,000		1,428,000		$1,428,000		1,428,000
Total - Parks/Rec/USM Impr.	*$4,910,857*	*$0*	*$4,910,857*	*$0*	*$4,910,857*	*$40,000*	*$4,950,857*

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	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
Public Safety/Recreation Construction (Fund #88):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	2,000,000		2,000,000		$2,000,000		2,000,000
Transfers to other Funds	0		0		$0		0
Total - Series 2002 Const. Fund	*$2,000,000*	*$0*	*$2,000,000*	*$0*	*$2,000,000*	*$0*	*$2,000,000*
MDA Energy Efficiency Capital Projects (Fund 89):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	0		0		$0		0
Transfers	0		0		$0		0
Total - Series 2004 Const. Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2008 G.O. Note (Downtown Lighting)(Fund # 90):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	0		0		$0		0
Transfers	0		0		$0		0
Total - Series 2004 Const. Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
TIF Construction (Fund # 91):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	0		0		$0		0
Transfers	0		0		$0		0
Total - Series 2004 Const. Fund	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Fire Station Construction Fund (Fund 95):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	5,656,414		5,656,414		$5,656,414		5,656,414
Transfers	0		0		$0		0
Total - Series 2001 Const. Fund	*$5,656,414*	*$0*	*$5,656,414*	*$0*	*$5,656,414*	*$0*	*$5,656,414*
Infrastructure Impr-Internet Sales Tax (Fund #97):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Transfers			0		$0		0
Capital Outlays	9,000,000		9,000,000		$9,000,000		9,000,000
Total - Internet Sales Tax Fund	*$9,000,000*	*$0*	*$9,000,000*	*$0*	*$9,000,000*	*$0*	*$9,000,000*
Water Meter Project (Fund #98):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Transfers	0		0		$0		0
Capital Outlays	50,000		50,000		$50,000		50,000
Total - Kamper Park Imp. Fund	*$50,000*	*$0*	*$50,000*	*$0*	*$50,000*	*$0*	*$50,000*
Series 2010 Water & Sewer G.O. Constr. (Fund #99):							
Personnel					$0		
Supplies & Expenses					$0		
Other Services & Charges			0		$0		0
Capital Outlay	$0		0		$0		0
Transfers out	$0		0		$0		$0
Total - Series 2010 Constr.	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2013 Water & Sewer Revenue Constr. (Fund #105):							
Personnel			0		$0		0
Supplies & Expenses			0		$0		0
Other Services & Charges	$0		0		$0		0
Capital Outlay	$0		0		$0		0
Transfers	$0		0		$0		0
Total - Series 2013 Constr.	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*

CITY OF HATTIESBURG, MS
Analysis of Expenditure Budgets - Funds Other Than General
Fiscal Year Ending September 30, 2026

	Original FY 2026 Budgets	March Amend'ts	Amended Budgets	February Amend'ts	Amended Budgets	July Amend'ts	Proposed Amended Budgets
Series 2016 Water & Sewer Taxable Bonds Constr. (Fund #93):							
Personnel			0		$0		0
Supplies & Expenses			0		$0		0
Other Services & Charges	$0		0		$0		0
Capital Outlay	$0		0		$0		0
Transfers			0		$0		0
Total - Series 2016 Constr.	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Series 2012 Water & Sewer Const. (Fund #94):							
Personnel	$0		$0		$0		$0
Supplies & Expenses	0		0		$0		0
Other Services & Charges	0		0		$0		0
Capital Outlays	0		0		$0		0
Transfers Out	0		0		$0		0
Total - Series 2012 Const.	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
GRAND TOTAL - FUNDS OTHER THAN THE GENERAL FUND	$115,520,602	$3,012,111	$118,532,713	$408,620	$118,941,333	$4,329,576	$123,270,909
General Fund	$67,796,676	$4,285,188	$72,081,864	$966,860	$73,048,724	$1,588,390	$74,637,114
TOTAL EXPENDITURES & TRANSFERS	$183,317,278	$7,297,299	$190,614,577	$1,375,480	$191,990,057	$5,917,966	$197,908,023
Less: Interfund Transfers	-32,425,687	-402,000	-32,827,687	-101,000	-32,928,687	-2,600,708	-35,529,395
TOTAL EXPENDITURES	$150,891,591	$6,895,299	$157,786,890	$1,274,480	$159,061,370	$3,317,258	$162,378,628
Recap of City-Wide Expenditure Budgets:							
Personnel	*$50,442,090*	*$147,820*	*$50,589,910*	*$49,660*	*$50,639,570*	*$134,500*	*$50,774,070*
Supplies & Expenses	*$5,086,575*	*$164,745*	*$5,251,320*	*-$141,150*	*$5,110,170*	*$84,646*	*$5,194,816*
Other Services & Charges	*$34,638,395*	*$2,068,573*	*$36,706,968*	*$1,226,500*	*$37,933,468*	*$1,373,844*	*$39,307,312*
Capital Outlays	*$46,055,531*	*$4,514,161*	*$50,569,692*	*$139,470*	*$50,709,162*	*$1,550,268*	*$52,259,430*
Principal Payments	*10,903,799*	*0*	*10,903,799*	*0*	*10,903,799*	*104,000*	*11,007,799*
Interest Payments	*3,765,201*	*0*	*3,765,201*	*0*	*3,765,201*	*70,000*	*3,835,201*
Total Expenditure Budgets	*$150,891,591*	*$6,895,299*	*$157,786,890*	*$1,274,480*	*$159,061,370*	*$3,317,258*	*$162,378,628*

RESOLUTION

WHEREAS, the Mayor and City Council of the City of Hattiesburg, Mississippi, have determined that expenditures within the City will exceed the original budget appropriation; and

WHEREAS, the additional appropriation needed is in excess of ten percent (10%) of the original appropriation, and in accordance with Section 21-35-25 of the Mississippi Code of 1972, as amended, shall be published;

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF HATTIESBURG:

Section 1. That the following budget amendments are hereby authorized to be made in the City's General Fund Information Systems Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$823,400	$335,000	$1,158,400	Pace program

Section 2. That the following budget amendments are hereby authorized to be made in the City's General Fund Police Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$1,483,249	$275,935	$1,759,184	Utilities

Section 3. That the following budget amendments are hereby authorized to be made in the City's General Fund Code Enforcement Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$311,250	$106,500	$417,750	Utilities

Section 4. That the following budget amendments are hereby authorized to be made in the City's General Fund Contractual Services Personnel Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$300,200	$130,000	$430,200	Special Duty

Section 5. That the following budget amendments are hereby authorized to be made in the City's General Fund Contractual Services Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$790,000	$145,000	$935,000	Jail Expense

Section 6. That the following budget amendments are hereby authorized to be made in the City's General Fund Street Lights Other Services & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$1,500,000	$310,000	$1,810,000	Utilities

Section 7. That the following budget amendments are hereby authorized to be made in the City's General Fund Sanitation Supplies & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$395,100	$188,100	$583,200	Fuel

Section 8. That the following budget amendments are hereby authorized to be made in the City's General Fund Health Supplies & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$118,000	$23,000	$141,000	Fuel

Section 9. That the following budget amendments are hereby authorized to be made in the City's General Fund Animal Control Supplies & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$7,400	$8,500	$15,900	Fuel

Section 10. That the following budget amendments are hereby authorized to be made in the City's General Fund Economic Development Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$1,050,000	$2,797,902	$3,847,902	Heritage Preservation Project

Section 11. That the following budget amendments are hereby authorized to be made in the City's General Fund Airport Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$42,300	$6,500	$48,800	Utilities

Section 12. That the following budget amendments are hereby authorized to be made in the City's General Fund Cemetery Supplies & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$71,650	$17,500	$89,150	Fuel, Disaster Repairs

Section 13. That the following budget amendments are hereby authorized to be made in the City's Parks & Recreation Maintenance Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$180,000	$180,000	Christmas tree replacement

Section 14. That the following budget amendments are hereby authorized to be made in the City's General Fund Water Transmission Other Services & Charges Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$2,637,300	$730,200	$3,367,500	Streets and Structures

Section 15. That the following budget amendments are hereby authorized to be made in the City's General Fund Water & Sewer Revenue Debt Service Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$174,000	$174,000	SLRF Repayment

Section 16. That the following budget amendments are hereby authorized to be made in the City's General Fund Police Forfeitures Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$29,000	$29,000	Vehicles

Section 17. That the following budget amendments are hereby authorized to be made in the City's General Fund Mass Transit Supplies & Expenses Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$250,700	$36,000	$286,700	Fuel

Section 18. That the following budget amendments are hereby authorized to be made in the City's General Fund Water & Sewer Construction Transfers Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$111,568	$111,568	Transfer

Section 19. That the following budget amendments are hereby authorized to be made in the City's General Fund Water & Sewer Construction Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$3,600,000	$1,000,000	$4,600,000	Capital Projects

Section 20. That the following budget amendments are hereby authorized to be made in the City's General Fund Community Centers Capital Outlays Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$70,500	$10,000	$80,500	A/C Unit replacement

Section 21. That the following budget amendments are hereby authorized to be made in the City's General Fund Covid Fiscal Recovery Transfers Unappropriated Fund Balance:

ORIGINAL BALANCE	CUMULATIVE AMENDMENTS	AMENDED BUDGET	DESCRIPTION OF ITEMS NOT PREVIOUSLY LISTED
$0	$426,294	$426,294	Expense Reclassification

Section 22. That public interest and necessity requiring same, this resolution shall become effective immediately from and after passage, but nevertheless to be published according to law.

The above and foregoing Resolution, after having been first reduced to writing, was introduced by Councilperson _____, seconded by Councilperson _____, and was adopted by the following, to wit;

YEAS: NAYS:

The President thereby declared the motion carried and the Resolution adopted, this the 18th day of August, 2026.

(S E A L)

ATTEST: ADOPTED:

_____ _____

CLERK OF COUNCIL PRESIDENT

The above and foregoing Resolution having been submitted to and approved by the Mayor, this the 18th day of August, 2026.

ATTEST: APPROVED:

_____ _____

CITY CLERK MAYOR

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

GENERAL FUND:

REVENUES & BEG. CASH:	
Taxes - Other	$17,500
Licenses & Permits	4,809,520
Inter-governmental Revenues:	
Federal Grants	2,970,591
State Grants	1,606,476
State-Shared Revenues	28,230,092
County Shared Revenues	168,239
Charges for Services:	
Public safety	458,500
Streets	0
Sanitaiton	3,360,500
Misc.	0
Fines & Forfeits	1,206,000
Miscellaneous	524,400
Transfers-In	1,250,000
Non-Revenue Receipts	335,200
Total From All Sources	
Other Than taxation	44,937,018
Beginning Cash and	
Investment Balance	11,390,464
Reserve for Court Technology	0
Amount to be Raised by Tax Levy	23,200,000
TOTAL FROM ALL SOURCES	**$79,527,482**
EXPENDITURES & ENDING CASH:	
General Government:	
Personnel	5,447,160
Supplies & Expenses	212,738
Other services & Charges	6,303,649
Capital Outlays	69,780
Total - General Government	12,033,327
Police Dept.:	
Personnel	14,559,050
Supplies & Expenses	799,360
Other services & Charges	1,759,184
Capital Outlays	0
Total - Police Dept.	17,117,594
Police & Fire Training:	
Personnel	54,400
Supplies & Expenses	98,772
Other services & Charges	73,700
Capital Outlays	0
Total - Police & Fire Training	226,872
Fire Dept.:	
Personnel	12,299,780
Supplies & Expenses	313,845
Other services & Charges	392,320
Capital Outlays	0
Total - Fire Dept.	13,005,945
Land Development Administration:	
Personnel	880,520
Supplies & Expenses	37,255
Other services & Charges	417,750
Capital Outlays	36,500
Total - Land Dev. Admin.	1,372,025

Public Safety Contractual Services:	
Personnel	430,200
Other services & Charges	935,000
Total - Pub. Safety Cont. Serv.	1,365,200
Public Services:	
Personnel	6,649,550
Supplies & Expenses	1,387,700
Other services & Charges	6,381,302
Capital Outlays	2,021,223
Total - Public Services	16,439,775
Animal Control	
Personnel	215,800
Supplies & Expenses	15,900
Other services & Charges	321,850
Capital Outlays	0
Total - Animal Control	553,550
Human/Social	
Other services & Charges	341,500
Total - Human/Social	341,500
Economic Development	
Personnel	
Supplies & Expenses	
Other services & Charges	1,576,729
Capital Outlays	3,847,902
Total - Eco. Dev.	5,424,631
Debt Service:	
Prinicpal Payments	798,867
Interest Payments	275,091
Paying Agent Fee	3,000
Total - Debt service	1,076,958
Airport	
Personnel	0
Supplies & Expenses	13,350
Other services & Charges	48,800
Capital Outlays	0
Total - Airport	62,150
Cemetery	
Personnel	943,100
Supplies & Expenses	89,150
Other services & Charges	63,790
Capital Outlays	78,700
Total - Cemetery	1,174,740
Parking Garages	
Personnel	54,750
Supplies & Expenses	1,600
Other services & Charges	56,670
Capital Outlays	0
Total - Parking Garages	113,020
Operating Transfers Out	4,329,827
Total Expenditures & Transfers	**74,637,114**
Ending Cash Balance	**$4,890,368**
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$79,527,482**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

PARKS & RECREATION FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$1,000
State Grants	0
County Shared Revenues	0
Misc. grants	0
Charges for Services:	
Culture & Recreation	93,450
Miscellaneous	60,000
Transfers-In	2,816,280
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	2,970,730
Beginning Cash and Investment Balance	656,283
Amount to be Raised by Tax Levy	1,070,000
TOTAL FROM ALL SOURCES	**$4,697,013**

EXPENDITURES & ENDING CASH:

Culture & Recreation:	
Personnel	2,691,620
Supplies & Expenses	622,900
Other services & Charges	1,195,710
Capital Outlays	180,000
Total Expenditures	$4,690,230
Cash balance at End of Year	6,783
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$4,697,013**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

MUNICIPAL FIRE PROTECTION FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
State-Shared Revenues	$317,500
Charges for Services	96,000
Fines & Forfeits	0
Miscellaneous	5,000
Contributions	0
Transfers In	0
Non-Revenue Receipts	
Total From All Sources	
Other Than taxation	418,500
Beginning Cash and	
Investment Balance	552,451
TOTAL FROM ALL SOURCES	**$970,951**

EXPENDITURES & ENDING CASH:

Public Safety:	
Personnel	$0
Supplies & Expenses	64,500
Other services & Charges	55,000
Capital Outlays	522,320
Lease Debt Service - Principal	0
Lease Debt Service - Interest	0
Total Expenditures	$641,820
Cash balance at End of Year	329,131
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$970,951**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

SPECIAL STREET
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$0
State Shared Revenues	95,000
Misc. grants	0
Miscellaneous	1,000
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	96,000
Beginning Cash and Investment Balance	(66,764)
TOTAL FROM ALL SOURCES	**$29,236**

EXPENDITURES & ENDING CASH:

Public Services:	
Supplies & Expenses	0
Other services & Charges	20,000
Capital Outlays	0
Total Expenditures	$20,000
Cash balance at End of Year	9,236
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$29,236**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

WATER & SEWER OPERATION AND MAINTENANCE FUND:

REVENUES & BEG. CASH:	
Charges for Services	$60,000
Transfers-In	16,200,000
Miscellaneous	1,000
Non-Revenue Receipts	11,000
Total From All Sources Other Than taxation	16,272,000
Beginning Cash and Investment Balance	1,825,061
TOTAL FROM ALL SOURCES	**$18,097,061**
EXPENDITURES & ENDING CASH:	
Personnel	3,917,890
Supplies & Expenses	1,176,596
Other services & Charges	11,091,360
Capital Outlays	100,838
Lease Debt Service - Principal	0
Lease Debt Service - Interest	0
Total Expenditures	$16,286,684
Cash balance at End of Year	1,810,377
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$18,097,061**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

WATER & SEWER BOND AND INTEREST FUND:

REVENUES & BEG. CASH:

Transfers-In	$7,056,000
Miscellaneous	150,000
Non-Revenue Receipts	0
Total Revenues	7,206,000
Beginning Cash Balance	30,755,558
TOTAL FROM ALL SOURCES	**$37,961,558**

EXPENDITURES & ENDING CASH:

Bonds Redeemed	5,786,000
Interest on Bonds	1,052,000
Other Services & Charges	0
Paying Agent Fees	15,000
Total Expenditures	**6,853,000**
Cash balance at End of Year	31,108,558
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$37,961,558**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

WATER & SEWER ENTERPRISE FUND:

REVENUES & BEG. CASH:

Charges for Services:	
Licenses, Permits & Fees	$5,000
Miscellaneous	155,000
Metered Water Sales	14,550,000
Taps	190,000
Water Turn-On Fees	85,000
Sewer Connections	75,000
Sewer Charges	13,700,000
Total Revenues	28,760,000
Beginning Fund Balance	0
TOTAL FROM ALL SOURCES	**$28,760,000**

EXPENDITURES & ENDING CASH:

Other Services & Charges	90,000
Principal	104,000
Interest	70,000
Operating Transfers Out	30,836,000
Total Expenditures	**$31,100,000**
Cash balance at End of Year	**($2,340,000)**
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$28,760,000**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

2020 TAX INCREMENT FINANCING (PLANET FITNESS) BOND & INT FUND (DEBT SERVICE FUND):

REVENUES & BEG. CASH:	
Interest	$100
County-Shared Revenues	28,548
Total From All Sources Other Than taxation	28,648
Beginning Cash and Investment Balance	140,262
Amount to be Raised by Tax Levy	24,063
TOTAL FROM ALL SOURCES	**$192,973**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	38,932
Interest on Bonds	13,679
Paying Agent Fees	0
Transfers Out	0
Other Services & Charges	0
Total Expenditures	$52,611
Cash balance at End of Year	140,362
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$192,973**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

CITY BOND & INTEREST FUND (DEBT SERVICE FUND):

REVENUES & BEG. CASH:	
County-Shared Revenues	$0
Interest	2,500
Non-Revenue receipts	0
Transfers-In	0
Total From All Sources Other Than taxation	2,500
Beginning Cash and Investment Balance	3,052,608
Amount to be Raised by Tax Levy	2,660,000
TOTAL FROM ALL SOURCES	**$5,715,108**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	1,840,000
Interest on Bonds	2,063,200
Other Services & Charges	31,000
Transfers	0
Paying Agent Fees	20,000
Total Expenditures	$3,954,200
Cash balance at End of Year	1,760,908
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$5,715,108**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

SUPPLEMENTAL ENVIRONMENTAL PROJECT FUND

REVENUES & BEG. CASH:	
Interest	8,000
Transfers In	$0
Total From All Sources Other Than taxation	8,000
Beginning Cash and Investment Balance	244,965
TOTAL FROM ALL SOURCES	**$252,965**
EXPENDITURES & ENDING CASH:	
Other Services & Charges	233,534
Operating transfers out	0
Total Expenditures	$233,534
Cash balance at End of Year	19,431
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$252,965**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

FINES & FORFEITURES FUND:

REVENUES & BEG. CASH:

State grants	
Charges for Services	0
Fines & Forfeits	0
Miscellaneous	0
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	0
Beginning Cash and Investment Balance	87,154
TOTAL FROM ALL SOURCES	**$87,154**

EXPENDITURES & ENDING CASH:

Public Safety:	
Personnel	0
Supplies & Expenses	20,000
Other services & Charges	16,000
Capital Outlays	29,000
Transfers Out	0
Total Expenditures	$65,000
Cash balance at End of Year	22,154
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$87,154**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

SERIES 2002 TIF BOND & INTEREST FUND (Southern Pointe Project):

REVENUES & BEG. CASH:	
Interest	$200
Transfers In	$0
County-Shared Revenues	182,046
Total From All Sources Other Than taxation	182,246
Beginning Cash and Investment Balance	411,967
Amount to be Raised by Tax Levy	65,634
TOTAL FROM ALL SOURCES	**$659,847**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	205,000
Interest on Bonds	37,709
Other Services & Charges	2,000
Total Expenditures	**$244,709**
Cash balance at End of Year	415,138
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$659,847**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

SERIES 2003 TIF BOND & INTEREST FUND (Chauvet Square Project):

REVENUES & BEG. CASH:	
Interest	$0
Transfer From Other Funds	0
Total From All Sources Other Than taxation	0
Beginning Cash and Investment Balance	230,370
Amount to be Raised by Tax Levy	170,000
TOTAL FROM ALL SOURCES	**$400,370**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	180,000
Interest on Bonds	16,425
Other Services & Charges	2,500
Transfers to Other Funds	0
Total Expenditures	**$198,925**
Cash balance at End of Year	201,445
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$400,370**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
for the fiscal year ended September 30, 2026

SERIES 2007 TIF BOND & INTEREST FUND (Turtle Creek):

REVENUES & BEG. CASH:	
Interest	$150
County Shared Revenue	$52,838
Transfer From Other Funds	
Total From All Sources Other Than taxation	52,988
Beginning Cash and Investment Balance	256,037
Amount to be Raised by Tax Levy	55,000
TOTAL FROM ALL SOURCES	**$364,025**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	90,000
Interest on Bonds	10,725
Other Services & Charges	2,500
Total Expenditures	$103,225
Cash balance at End of Year	260,800
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$364,025**

CITY OF HATTIESBURG, MISSISSIPPI
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For the Fiscal Year Ending September 30, 2026

2016 TIF BOND AND INTEREST FUND (Whispering Pines):

REVENUES & BEG. CASH:	
Interest	$500
County Shared Revenue	$215,851
Transfer From Other Funds	0
Total From All Sources Other Than taxation	216,351
Beginning Cash and Investment Balance	914,016
Amount to be Raised by Tax Levy	168,558
TOTAL FROM ALL SOURCES	**$1,298,925**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	213,000
Interest on Bonds	66,423
Other Services & Charges	2,000
Total Expenditures	$281,423
Cash balance at End of Year	1,017,502
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$1,298,925**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

2016 TIF BOND AND INTEREST FUND
FUND (Hattiesburg Clinic Midtown):

REVENUES & BEG. CASH:	
Interest	$50
County Shared Revenue	$41,803
Transfer From Other Funds	0
Total From All Sources Other Than taxation	41,853
Beginning Cash and Investment Balance	84,752
Amount to be Raised by Tax Levy	34,202
TOTAL FROM ALL SOURCES	**$160,807**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	60,000
Interest on Bonds	16,006
Other Services & Charges	0
Total Expenditures	$76,006
Cash balance at End of Year	84,801
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$160,807**

CITY OF HATTIESBURG, MISSISSIPPI
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BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

AIRPORT IMPROVEMENT
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Federal Grants	$582,274
State Grants	$1,625,327
Miscellaneous	28,500
Transfers In	250,000
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	2,486,101
Beginning Cash and Investment Balance	1,000,568
TOTAL FROM ALL SOURCES	**$3,486,669**

EXPENDITURES & ENDING CASH:

Public Services:	
Other services & Charges	358,085
Capital Outlays	2,403,376
Total Expenditures	**$2,761,461**
Cash balance at End of Year	725,208
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$3,486,669**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

2015A TIF BOND AND INTEREST FUND
FUND (The Ridge at Turtle Creek):

REVENUES & BEG. CASH:	
Interest	$0
County Shared Revenue	$29,924
Transfer From Other Funds	0
Total From All Sources Other Than taxation	29,924
Beginning Cash and Investment Balance	116,995
Amount to be Raised by Tax Levy	109,771
TOTAL FROM ALL SOURCES	**$256,690**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	88,000
Interest on Bonds	30,965
Other Services & Charges	2,000
Total Expenditures	$120,965
Cash balance at End of Year	135,725
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$256,690**

CITY OF HATTIESBURG, MISSISSIPPI
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For the Fiscal Year Ending September 30, 2026

2015B TIF BOND AND INTEREST FUND
FUND (Midtown Market):

REVENUES & BEG. CASH:	
Interest	$0
County Shared Revenue	$14,659
Transfer From Other Funds	0
Total From All Sources Other Than taxation	14,659
Beginning Cash and Investment Balance	15,126
Amount to be Raised by Tax Levy	11,059
TOTAL FROM ALL SOURCES	**$40,844**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	15,000
Interest on Bonds	5,363
Paying Agent Fees	2,000
Other Services & Charges	0
Total Expenditures	$22,363
Cash balance at End of Year	18,481
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$40,844**

CITY OF HATTIESBURG, MISSISSIPPI
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SERIES 2019 TIF BOND & INT FUND (ELAM ARMS):

REVENUES & BEG. CASH:	
Interest	$350
County Shared Revenue	$165,331
Transfer From Other Funds	54,406
Total From All Sources Other Than taxation	220,087
Beginning Cash and Investment Balance	1,048,150
Amount to be Raised by Tax Levy	129,107
TOTAL FROM ALL SOURCES	**$1,397,344**
EXPENDITURES & ENDING CASH:	
General Issues:	
Bonds Redeemed	194,000
Interest on Bonds	97,608
Other Services & Charges	4,000
Total Expenditures	$295,608
Cash balance at End of Year	1,101,736
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$1,397,344**

CITY OF HATTIESBURG, MISSISSIPPI
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BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
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MUNICIPAL ROAD & BRIDGE
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$0
State Grants	0
County Shared Revenues	1,970,000
Miscellaneous	20,000
Transfers In	0
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	1,990,000
Beginning Cash and Investment Balance	5,286,658
TOTAL FROM ALL SOURCES	**$7,276,658**

EXPENDITURES & ENDING CASH:

Public Services:	
Supplies & Expenses	0
Other services & Charges	1,430,000
Capital Outlays	5,594,000
Transfers out	252,000
Principal Payments	0
Interest Payments	0
Total Expenditures	**$7,276,000**
Cash balance at End of Year	658
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$7,276,658**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal year Ending September 30, 2026

MASS TRANSIT OPERATING
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$5,217,252
State Grants	$85,000
Miscellaneous	1,580
Transfers-In	200,000
Non-Revenue Reciepts	1,143
Total From All Sources Other Than taxation	5,504,975
Beginning Cash and Investment Balance	(17,410)
Amount to be Raised by Tax Levy	266,000
TOTAL FROM ALL SOURCES	**$5,753,565**

EXPENDITURES & ENDING CASH:

Personnel	1,606,000
Supplies & Expenses	286,700
Other services & Charges	338,875
Capital Outlays	3,419,577
Total Expenditures	$5,651,152
Cash balance at End of Year	102,413
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$5,753,565**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal year Ending September 30, 2026

WATER & SEWER CONSTRUCTION FUND:

REVENUES & BEG. CASH:

Inter-governmental Revenues:	
Federal Grants	$0
Miscellaneous	130,000
Transfers-In	4,938,000
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	5,068,000
Beginning Cash and Investment Balance	2,574,688
TOTAL FROM ALL SOURCES	**$7,642,688**

EXPENDITURES & ENDING CASH:

Other services & Charges	$2,200,000
Capital Outlays	4,600,000
Transfers	111,568
Total Expenditures	6,911,568
Cash balance at End of Year	731,120
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$7,642,688**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

COMMUNITY CENTERS
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Charges for services:	
Culture & Recreation	$32,500
State Grants	$0
Miscellaneous	25,000
Transfers-In	650,000
Non-Revenue Receipts	0
Total From All Sources Other Than taxation	707,500
Beginning Cash and Investment Balance	600,200
TOTAL FROM ALL SOURCES	**$1,307,700**

EXPENDITURES & ENDING CASH:

Personnel	658,200
Supplies & Expenses	46,200
Other services & Charges	206,950
Capital Outlays	80,500
Transfers	0
Total Expenditures	**$991,850**
Cash balance at End of Year	315,850
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$1,307,700**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

COVID FISCAL RECOVERY FUND:

REVENUES & BEG. CASH:	
Federal Grants	0
State Grants	4,736,000
Interest Earnings	0
Total Revenues	4,736,000
Beginning Cash and Investment Balance	5,407,600
TOTAL FROM ALL SOURCES	**$10,143,600**
EXPENDITURES & ENDING CASH:	
Supplies	
Other services & Charges	0
Capital Outlays	9,472,000
Transfers Out	426,294
Total Expenditures	$9,898,294
Cash balance at End of Year	245,306
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$10,143,600**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

COMMUNITY DEVELOPMENT BLOCK GRANT
SPECIAL REVENUE FUND:

REVENUES & BEG. CASH:

Federal Grants	$3,301,699
Miscellaneous	$5,000
Transfers In	288,000
Total From All Sources Other Than taxation	3,594,699
Beginning Cash and Investment Balance	(429,014)
TOTAL FROM ALL SOURCES	**$3,165,685**

EXPENDITURES & ENDING CASH:

Personnel	308,200
Supplies & Expenses	8,250
Other services & Charges	897,260
Capital Outlays	1,669,300
Transfers	0
Total Expenditures	$2,883,010
Cash balance at End of Year	282,675
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$3,165,685**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

SPECIAL SALES TAX-PARKS/RECREATION/USM IMPROVEMENTS FUND

REVENUES & BEG. CASH:	
Intergovernmental Revenues:	
Federal Grants	0
State Grants	0
State Shared Revenues	3,760,000
Contributions	0
Transfers In	0
Miscellaneous	0
Total Revenues	3,760,000
Beginning Cash and Investment Balance	1,850,020
TOTAL FROM ALL SOURCES	**$5,610,020**
EXPENDITURES & ENDING CASH:	
Bonds Redeemed	1,395,000
Interest on Bonds	80,007
Personal Services	57,850
Other services & Charges	1,990,000
Capital Outlays	1,428,000
Transfers to Other Funds	0
Total Expenditures	$4,950,857
Cash balance at End of Year	659,163
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$5,610,020**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

Public Safety Complex/Recreation Construction Fund:

REVENUES & BEG. CASH:	
Proceeds from Bond Issue	0
Bond Premium	0
Federal Grants	2,470,000
State Grants	0
Transfers	0
Interest Earnings	20,000
Total Revenues	2,490,000
Beginning Cash and Investment Balance	2,794,039
TOTAL FROM ALL SOURCES	**$5,284,039**
EXPENDITURES & ENDING CASH:	
Other services & Charges	0
Capital Outlays	2,000,000
Transfers to Other Funds	0
Total Expenditures	$2,000,000
Cash balance at End of Year	3,284,039
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$5,284,039**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

2019 FIRE STATION CONSTRUCTION FUND:

REVENUES & BEG. CASH:

Interest Earnings	$60,000
Federal Grants	$2,096,414
Grant Revenues - State of MS	0
Transfers In	0
Note Proceeds	0
Proceeds from General Obligation Bond Issue	0
Total Revenues	2,156,414
Beginning Cash and Investment Balance	3,709,710
TOTAL FROM ALL SOURCES	**$5,866,124**

EXPENDITURES & ENDING CASH:

Other services & Charges	0
Capital Outlays	5,656,414
Transfers Out	0
Total Expenditures	**$5,656,414**
Cash balance at End of Year	209,710
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$5,866,124**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

INFRASTRUCTURE IMPROVEMENTS - INTERNET SALES TAX FUND:

REVENUES & BEG. CASH:

Intergovernmental Revenue	$5,900,000
Transfers In	0
Miscellaneous	65,000
Non-Revenue Receipts	
Total Revenues	5,965,000
Beginning Cash and Investment Balance	3,913,669
TOTAL FROM ALL SOURCES	**$9,878,669**

EXPENDITURES & ENDING CASH:

Other services & Charges	0
Transfers Out	0
Capital Outlays	9,000,000
Total Expenditures	$9,000,000
Cash Balance at End of Year	878,669
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$9,878,669**

CITY OF HATTIESBURG, MISSISSIPPI
A MUNICIPALITY
BUDGET OF ESTIMATED REVENUES AND EXPENDITURES
For the Fiscal Year Ending September 30, 2026

WATER METER PROJECT FUND:

REVENUES & BEG. CASH:

Bond Proceeds	$0
Transfers In	0
Miscellaneous	500
Non-Revenue Receipts	
Total Revenues	500
Beginning Cash and Investment Balance	140,623
TOTAL FROM ALL SOURCES	**$141,123**

EXPENDITURES & ENDING CASH:

Other services & Charges	0
Transfers Out	0
Capital Outlays	50,000
Total Expenditures	$50,000
Cash Balance at End of Year	91,123
TOTAL EXPENDITURES AND ENDING CASH BALANCE	**$141,123**

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Shannon Weaver-Harris, Major**

cc: **Kermas Eaton, City Clerk, Hardy Sims, Chief of Police**

Date: **Tuesday, August 18, 2026**

Re: **Approve Agreement between the City of Hattiesburg and Southern Pines Animal Shelter for management and services for a term beginning October 1, 2026, through September 30, 2027, and authorize the Mayor to execute.**
File Number: 2026-719
Minute Book #

Summary
Approve Agreement between the City of Hattiesburg

Recommendation Statement
Approve Item

Please place this on the August 18, 2026 City Council meeting for consideration.

STATE OF MISSISSIPPI, CITY OF HATTIESBURG

SOUTHERN PINES ANIMAL SHELTER CONTRACT

This contract between The City of Hattiesburg and Southern Pines Animal Shelter (hereinafter the "Contract") is made as of October 1, 2026, (the "Effective Date") by and between CITY OF HATTIESBURG (hereinafter Hattiesburg City or The City) and SOUTHERN PINES ANIMAL SHELTER (hereinafter "Southern Pines").

WHEREAS, Southern Pines constitutes an animal shelter on property that it owns in Hattiesburg City (hereinafter "Animal Shelter"); and

WHEREAS, the City deems it to be in the best interest of the citizens of Hattiesburg City to enter into a Contract with Southern Pines for the operation and administration of the Animal Shelter for canines and felines impounded by Hattiesburg Animal Control as outlined in the Contract to follow; and

WHEREAS, The City and Southern Pines have agreed to this new Contract that will supersede and replace any previous agreements;

THEREFORE, the parties to this Contract, in consideration of these promises, the mutual covenants and conditions contained herein and other valuable consideration by each party hereto, do hereby agree to terminate existing agreements as of the Effective Date and covenant and agree as of the Effective Date as follows:

Article I. Services

Section 1.01 Southern Pines shall have physical possession and control of the Animal Shelter and be responsible for ongoing maintenance of the buildings and all animals on the Animal Shelter premises.

Section 1.02 During the Term of this Contract, Southern Pines shall receive and provide for the humane disposition of dogs and cats running at-large as delivered into its custody by Animal Control and law enforcement officers of Hattiesburg City as per the Sections below.

Section 1.03 Southern Pines is a privately owned and operated entity. The Shelter's intake hours are 9am-4:30pm Monday, Thursday, and Friday, except on holidays. Animals will not be accepted after hours (ie. before 9am, after 4:30pm, or on any Tuesdays, Wednesdays, weekends, or holidays) except in cases of the following emergencies: bite quarantines, dangerous animals, death/hospitalization of owner, animals creating a public safety issue, and/or owner arrests.

Section 1.03a Orphaned neonates, injured, and/or ill animals or other animals who need round the clock care will not be accepted after hours, as Southern Pines does not have the ability to provide care after hours. The City will be responsible for alternative housing at a veterinary clinic for such animals, and will be responsible for transporting them to the shelter the next business day during

intake hours, and the City will be responsible for all costs associated with care and housing prior to intake at Southern Pines.

Section 1.03b In order to reduce disease risk, animals that have been housed at any Municipal, nonprofit, veterinary, boarding, and/or commercial pet housing or holding area, and/or other unapproved housing prior to intake will not be accepted. This includes but is not limited to temporary or long term housing areas operated by any Municipality, the personal homes of Animal Control officers, clinics, shelters, or rescues. Animals that have been housed at veterinary clinics for after hours medical care and animals who were current on all vaccinations for the duration of their stay at a veterinary clinic or licensed boarding facility and have not been exposed to or exhibited signs of illness are excluded from this restriction.

Section 1.04 Animal Control personnel, law enforcement, and other agents of the City are not authorized to unlock the gate or enter Southern Pines premises without a Southern Pines staff member present. In cases of after hours emergencies outlined in Section 1.03, a Southern Pines agent must be contacted to meet the officer or agent at the Shelter

Section 1.05 Southern Pines observes the following holidays:

- New Year's Day
- Martin Luther King Jr. Day
- Easter Day
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Christmas Eve
- Christmas Day

Section 1.06 When surrendering owned pets or strays directly to the shelter, residents of Hattiesburg City must follow all regular Shelter policies and protocols. Hattiesburg citizens will receive a 50% discount on surrender fees during the 12-month term of this contract. These fee costs are subject to change during the year and notice of fee changes will be relayed to Hattiesburg City. For the 2025-2026 contract year, the following are the surrender fees set forth by Southern Pines[1]:

- Fees for canines are as follows:
  - $150 per adult dog, no heartworm evaluation appointment required.
  - $150 per litter of puppies under 5.5 months (no adult canines).
- Community cats are not eligible for surrender by the public to Southern Pines and must follow the Community Cat Protocol (Section 1.12) . Fees for cats are as follows:
  - $150 per indoor, owner-surrendered cat.
  - $150 per litter of social, inside kittens under 5.5 months (no adult canines) or social, outside kittens who are under 4 months.
- For no additional cost, we are able to have the mother of the puppy/kitten litter fixed, micro-chipped, vaccinated and returned to her family once the puppies/kittens are weaned. If surrendering mom, normal fees and procedures apply.

[1] These fees may change on an annual basis which may occur during the contract term based on cost of care. If fees are updated, the City will receive a copy of the updated fees in writing in advance of the change.

Section 1.07 In the case of large or exotic animals, livestock, and wildlife, or under unusual circumstances where the chief executive of Southern Pines or their designee reasonably determines that an animal(s) cannot be adequately, safely, or humanely housed at the shelter, or if the projected length of stay will adversely impact the animal's health as determined by Southern Pines' veterinary staff and/or chief executive of Southern Pines or their designee, Southern Pines will decline to accept the animal into its care.

Section 1.08 Southern Pines agents will humanely remove all impounded animals from Animal Control vehicles. These animals shall immediately be placed in a suitable enclosure. Southern Pines agents will sanitize the Animal Control vehicle after each impoundment with chemicals and tools provided by Southern Pines. If the officer or agent refuses sanitation, no animals will be accepted from that vehicle in the future until it has been sanitized by Southern Pines staff.

Section 1.09 Southern Pines agrees to hold impounded stray dogs for a period of 5 days to allow owners adequate time to reclaim their lost pets. Animals surrendered to Animal Control or the Animal Shelter by an owner will not be held for any stray hold period. It is not the duty of the Shelter to verify the authenticity of ownership.

Section 1.10 Following any legal holding period, all animal(s), including at-large animals, not redeemed by their owners shall be provided with a disposition that is in the best interest of public health and safety, as determined by Southern Pines in accordance with State law (may include humane euthanasia).

Section 1.11 In cases where animals are determined to be ill or injured to such an extent that it would be inhumane to allow said animals to live or be deemed a threat to the health and safety of Southern Pines' staff or the public based on the animal's behavior, Southern Pines shall have the right to humanely euthanize the animal(s) in accordance with state law and at the discretion of Southern Pines' veterinary staff and/or chief executive of Southern Pines or their designee, regardless of stray hold or status.

Section 1.12 No holds may be placed on any animal(s) by Hattiesburg Animal Control, law enforcement, The City, or any agents of The City, except in the case of active bite quarantine or court order. Pets may be returned to their owners at any time after impoundment at the discretion of Southern Pines, except in cases of active bite quarantines (see Section 1.13) or court order.

Section 1.12b In cases where it is determined by the City that an animal(s) must be held for a period exceeding the legal 5 day stray hold for any reason except active bite quarantines (see Section 1.13), the City agrees to contract with an alternative boarding or vet clinic for the duration of the hold, including in cases of court holds. Southern Pines agrees to take ownership of the animal at the conclusion of the hold.

Section 1.13 In cases where an animal has a valid and current rabies vaccination and the owner has a secure location to house the animal, the animal will be allowed to complete their bite quarantine

in their home. The owner must meet all reclaim requirements as listed in Section 1.12, provide proof of rabies, and provide a valid address. Southern Pines is not responsible for monitoring home quarantines or contacting the owner at the conclusion of the quarantine.

Section 1.14 Southern Pines shall require that all persons who wish to reclaim possession of their pet show proof of ownership and pay redemption and boarding fees [1] as set by Southern Pines. Photographs of the pet and/or medical records for the pet may constitute proof of ownership. Owners are not required to show proof of ownership if the pet has a nametag or microchip registered to the reclaiming owner and the reclaiming owner produces valid ID.

For the 2025-2026 Contract, the following are the return to owner fees set forth by Southern Pines[2]:

- An animal that enters the Animal Shelter with identification (ID tag or registered microchip) will not be subject to any return to owner fees if the animal is reclaimed before 5pm on the day of impoundment. If the animal is not reclaimed within that time frame, regular fees apply.
- An unaltered animal that will be reclaimed intact: $200 + $50 per day of impoundment
    - Each additional offense adds $200 to the base return to owner fee (ie. second offense= $400 + $50 per day of impoundment)
- An unaltered animal that will be fixed and microchipped upon reclamation: Free
- Altered animals reclaimed at any point, with or without microchipping: Free

[2] These fees may change on an annual basis which may occur during the contract term based on cost of care. If fees are updated, the City will receive a copy of the updated fees in writing in advance of the change.

Section 1.15 Southern Pines will alter, immunize against rabies, ear-clip, and release all impounded at-large cats (hereinafter “Community Cats”) back to the place where they were initially impounded regardless of the animals intake type, age, or temperament as long as Southern Pines determines the animal to be reasonably healthy. Neither Animal Control nor The City nor any agents of The City reserve the right to make exceptions to this Section.

Section 1.15a Community Cats may be determined to be nuisance animals if they meet all of the following criteria: 1. They have been previously impounded to Southern Pines, fixed, vaccinated, ear-clipped, and released 2. The complainant signs a Nuisance Cat form recognizing that the cat may be euthanized 3. The cat poses a reasonable health or safety risk to the complainant, complainant’s pets, or the Community 4. The impounding Animal Control officer provides the signed Nuisance Cat form to Southern Pines staff; this form must accompany the cat at the time it is delivered into custody and will not be accepted later 5. If any of these criteria are not met, the cat will be released as per Section 1.12. Community Cats determined to be nuisance animals by Southern Pines and the City of Hattiesburg will be provided with a disposition that is in the best interest of public health and safety, as determined by Southern Pines, in accordance with State law (may include humane euthanasia).

Section 1.15b Allergies and other concerns that could reasonably be posed by any Community Cats do not constitute an adequate reason to determine a Community Cat to be a Nuisance.

Section 1.16 Southern Pines agents will accompany Hattiesburg law enforcement and/or Animal Control officers on suspected animal abuse cases during intake hours at their request and render their professional judgment regarding the health, safety, and humane conditions of suspected abuse cases. Southern Pines will provide mentorship regarding the Mississippi animal cruelty law and will be available for court proceedings that result from abuse cases.

Section 1.17 Southern Pines will not be expected to offer assistance in the form of emergency management of displaced pets during natural or other disasters. If this assistance is requested by the City, a separate meeting will be held to agree upon what services Southern Pines can provide and determine financial reimbursement from The City for said services.

Section 1.18 Southern Pines shall employ a competent and qualified agent for executing the responsibilities under this Contract.

Section 1.19 The operation, supervision, and management of the Animal Shelter shall be under the sole control of Southern Pines.

Section 1.20 Southern Pines is not responsible or liable for any equipment owned by The City that is left on Animal Shelter property.

Section 1.21 Southern Pines will conduct one free dog and cat rabies vaccination clinic to citizens at no additional cost to The City during the Contract period.

Section 1.22 Southern Pines shall keep full and accurate operational records on all animals delivered into its custody by Animal Control, Hattiesburg Law Enforcement, and Hattiesburg residents. Records shall, among other information, include the date, reason, and manner whereby animals were brought into custody, together with a description of the animal and a record of its final disposition. All such records of Southern Pines shall upon reasonable request by The City be made available to The City or its designated agents for auditing purposes.

Section 1.23 Southern Pines shall conduct an annual Audit or Financial and Expenditure Report in accordance with generally accepted standards which may be requested by the City of Hattiesburg.

Section 1.24 Nothing herein shall impair the ability of Southern Pines, at its discretion, to receive and provide for the humane disposition of dogs and cats. Any fees or expenses paid to Southern Pines from municipalities, citizens, or granting organizations and any moneys collected by Southern Pines as a result of fund-raising, program services, or other activities shall be the Southern Pines' sole money and not a set-off against fees to be paid by The City.

Section 1.25 Southern Pines reserves the right to limit and or halt all intakes from the public, Animal Control, Hattiesburg City, and all other municipalities in times of national, state, or local emergency; pandemic; internal emergencies; construction/maintenance/repairs to buildings and/or grounds which render care or housing of animals impossible or unsafe; overcrowding; disease outbreak; and supply and/or staffing shortages. Southern Pines will notify the Animal Control supervisor and city officials in cases where intake must be limited or halted and will implement a plan for normalizing intake as soon as possible.

Section 1.26 Southern Pines will not be compelled to euthanize animals where such euthanasia goes against the mission of the organization, state law, and/or local ordinance.

Section 1.27 A Southern Pines agent will carry an operational cell phone at all times during intake hours (as defined in Section 1.03). Animal Control must use this phone to notify Southern Pines agents of their arrival so that a staff member may be deployed to unload and sanitize their vehicle.

Article II. Hattiesburg Animal Control Field Responsibilities

Section 2.01 Animal Control officers will identify and document a verifiable physical street address for where the animal is picked up, by said officers, prior to delivering the animal to Southern Pines. This address and the time of impoundment will be recorded on the impoundment form and provided to Southern Pines at the time of intake. Southern Pines reserves the right to refuse animals without appropriate and complete impoundment forms. All other agents and citizens are required to go through Southern Pines' regular surrender process.

Section 2.01a If the pickup location is different from the location where the animal was found, it must also be clearly documented on the impound form to help with cross-referencing lost and found pets and aid in reuniting lost pets with their families.

Section 2.01b Southern Pines reserves the right to refuse intake of any animals confirmed to have been picked up or impounded outside of the city limits of Hattiesburg.

Section 2.02 Animal Control must present any bite reports, court documents, or other pertinent documents for animals being impounded at the time of impoundment or, in cases where a judge's signature is required, within 1 business day of impoundment. Southern Pines is obligated to enact bite holds only in cases where documentation has been provided.

Section 2.03 Only animals who have bitten humans causing broken skin are eligible for a 10 day bite quarantine, as per Mississippi state law. Animals who have bitten or killed other animals or who did not break skin will not be held for a 10 day bite quarantine.

Section 2.04 Southern Pines will hold for observation, for a time it deems sufficient for determination of disposition, animals who have bitten humans causing severe bruising or broken skin, or have unprovoked killed a domesticated dog, or who meet the definitions for "potentially dangerous, dangerous, or vicious" as defined in the City of Hattiesburg Ordinances.

Section 2.05 Animal Control officers will make every reasonable effort, including scanning animals for microchips in the field, to return at-large animals to their owners prior to delivering them to Southern Pines Animal Control will immediately undertake a reasonable effort to notify the owners of properly tagged pets while in the field.

Section 2.06 Animal Control officers will wear gloves in the field and at the Animal Shelter when handling all animals under 6 months of age, animals suspected of being exposed to illness/disease, and/or injured/ill animals; and agree to change gloves between groups of animals. Animals under 6 months of age are never to be placed on the ground or floor on or near Shelter premises. All

reasonable attempts will be made by Animal Control officers to reduce contamination of all animals, especially dogs and cats under 6 months of age.

Section 2.07 The City or its contracted organization shall employ competent and qualified Animal Control officers and an agent for executing the responsibilities under this Contract

Section 2.08 Animal Control and law enforcement agents agree to keep all transportation vehicles, animal housing areas, and equipment in safe, sanitary, and working order. Southern Pines reserves the right to refuse intake of animals from vehicles and/or housing areas that are deemed to be unsanitary or unsafe.

Section 2.09 Animal control officers, agents, and/or law enforcement officers are never to remove animals from their vehicle on Shelter property without the assistance of shelter staff.

Section 2.10 Animal Control Officers and any other agents or representatives of the City of Hattiesburg are strictly prohibited from capturing, recording, or disseminating any photographs, videos, or other visual media while inside any buildings, offices, or restricted areas of Southern Pines Animal Shelter without prior written consent from the Shelter Director or an authorized representative.

Article III. Contract Fee

Section 3.01 In consideration of the above-mentioned covenants of Southern Pines, The City agrees to pay Southern Pines a yearly amount as determined by Hattiesburg City Council in an amount of TWO HUNDRED AND FIFTY THOUSAND DOLLARS ($250,000.00). The fees set forth herein will be evaluated on an annual basis and may be increased or decreased by agreement of the parties hereto. There shall not be an automatic annual adjustment of fees; however, Southern Pines shall submit budget requests annually pursuant to The City's usual budget procedures. The City shall not be responsible for payment of costs of animals identified as not coming from Hattiesburg City. Southern Pines will receive payments of 1/12 the Yearly Fee amount in The City Budget, set by City Council, in monthly installments. Southern Pines is in charge of all aspects of managing the Animal Shelter, including but not limited to: maintaining strict compliance with all applicable local, state, and federal rules and regulations, managing the budget, and diligently controlling all monetary aspects of the Animal Shelter.

Section 3.02 In the event of annexation of any additional land, businesses, and or residential areas into the City Limits of Hattiesburg, Southern Pines must be notified in writing. At the time of annexation, the Contract Fee will increase by $5,506 annually (or $458.83 monthly) per square mile of annexed area.

Section 3.03 Each month's payment is due by the last business day of the prior month. A Southern Pines agent will pick up the check payment from the designated city office.

Section 3.04 A late fee of 1.5% of the monthly rate will be invoiced for each late payment.

Section 3.05 At such a time that a payment becomes 28 or more days late, all services will cease until overdue payments are made in full.

Article IV. Management

Section 4.01 The parties agree Southern Pines shall own, operate, and maintain all aspects of the Animal Shelter located at 1901 North 31st Avenue, Hattiesburg, MS 39401.

Article V Default and Remedies

Section 5.01 Default. Any one of the following events shall be deemed a default and a breach of this Contract, namely:

(a) If a party fails to observe or perform any of the terms, covenants or conditions of this Contract, and such failure continues after the expiration of 30 days from the date the non-defaulting party gives written notice to the defaulting party calling attention to the existence of such failure, provided however, that if the defaulting party cannot reasonably correct the default within said 30 day period, the defaulting party shall be given a mutually agreeable period of time to correct the default; or

(b) If a party is declared bankrupt or insolvent by judicial decree; or

(c) If a party takes the benefit of any federal reorganization; or

(d) If a party makes a general assignment for benefit of creditors.

Section 5.02 Rights in Event of Default. In the event of any default by a party as herein provided, the non-defaulting party at any time thereafter, shall have the right to terminate this Contract by giving the defaulting party written notice of such termination, whereupon, this Contract shall be regarded as canceled as of the date of the non-defaulting party's termination notice and to pursue all other remedies available at law or equity.

Article VI. Miscellaneous

Section 6.01 Assignment. Neither Southern Pines nor The City may assign this Contract or any of its rights or obligations hereunder without the other parties' written consent.

Section 6.02 Notices. All notices and other communications under this Contract shall be in writing and shall be deemed duly given if personally delivered or if mailed by registered mail or certified mail, return receipt requested, first class, postage prepaid as follows:

If to Southern Pines: P.O. Box 2021, Hattiesburg, MS 39403. Attn: Director

If to The City: Ann Jones, 200 Forrest Street, Hattiesburg, MS 39401, Attn: Chief Administrative Officer

The parties shall be responsible for notifying each other of any changes in address or contact person(s).

Section 6.03 Entire Contract. This Contract contains the entire agreement between the parties hereto. There are no promises, agreements, conditions, undertakings, warranties or representations, oral or written, express or implied, between them, other than as herein set forth,

Section 6.04 Integration. This Contract is intended by the parties hereto to be an integration of all prior and contemporaneous promises, agreements, conditions, negotiations and undertakings between the parties hereto.

Section 6.05 Modification. This Contract may not be modified orally or in any other manner than by an agreement in writing signed by all the parties hereto or their respective successors in interest.

Section 6.06 Partial Invalidity. If any term, covenant, condition or provision of this Contract or the application thereof to any person or circumstance shall, at any time or to any extent, be invalid or unenforceable, the remainder of this Contract, or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby (provided that neither party is substantially denied the benefit of its bargain hereunder), and each term, covenant, condition and provision of this Contract shall be valid and enforced to the fullest extent permitted by law.

Section 6.07 Headings. The headings used in this Contract are for reference and convenience only, and shall not enter into the interpretation hereof.

Section 6.08 Counterparts. This Contract may be executed in several counterparts, each of which shall be an original, but all of which shall constitute one and the same instrument.

Section 6.09 Gender. Whenever herein the singular number is used, the same shall include the plural, and the masculine in gender shall include the feminine and neutral genders, and vice versa, all as the context shall require.

Section 6.10 Application of Law. It is the intention of the parties hereto that all questions with respect to the construction of this Contract and the rights and liabilities of the parties hereunder shall be determined in accordance with the laws of the State of Mississippi.

Section 6.11 Binding Effect. Subject to the limitations set forth herein, all of the covenants, conditions and obligations contained in this Contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and permitted assigns.

Section 6.12 No Joint Venture. Nothing in this Contract shall be interpreted or deemed to constitute City and Southern Pines as partners or joint ventures in regard to the transactions contemplated in this Contract, or in any aspect thereof.

Section 6.13 Delays. Neither party shall be responsible or liable, or deemed in breach hereof, to the extent the performance of their respective obligations hereunder are prevented or delayed due solely to circumstances beyond the reasonable control and without the fault or negligence of the party experiencing such impediment to performance, including but not limited to acts of God; unusually severe weather; flood, cyclone, hurricane, tornado, earthquake or other similar catastrophe; war, hostility or acts of a public enemy; riots; labor difficulties; fire, epidemics, quarantine restrictions; inability despite due diligence to obtain required licenses; fire; or other casualty for which such party claiming the Force Majeure is not responsible (such causes hereinafter called 'Force Majeure').

The party experiencing the Force Majeure shall exercise due diligence in endeavoring to overcome any Force Majeure impediment to its performance. The party experiencing the Force Majeure shall promptly give written notification to the other party. This written notification shall include a full and complete explanation of the Force Majeure and its cause, the status of the Force Majeure, and the actions such party is taking and proposes to take to overcome the Force Majeure. If performance by either party is delayed due to Force Majeure, the time for that performance shall be extended for a period reasonably necessary to overcome the effect of the delay.

**** The reminder of this page is intentionally left blank. ****

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the day and year first above written.

HATTIESBURG CITY

WITNESSES:

BY:

Its,

SOUTHERN PINES ANIMAL SHELTER

BY:

Its, Amanda Paris, Shelter Director

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director, Dequandra Johnson**

cc: **Kermas Eaton, City Clerk**

Date: **Tuesday, August 18, 2026**

Re: **Approve Contractor and Owner Agreements according to the Minor Housing Repair Program Guidelines and authorize the Mayor to execute in duplicate.**
File Number: 2026-721
Minute Book #

Summary
Approve Contractor and Owner Agreements according to the Minor Housing Repair Program Guidelines and authorize the Mayor to execute in duplicate.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Minor Repair Program Contractor & Owner Agreement

HVAC Services

THIS AGREEMENT, made the 18th day of August, 2026, is entered into by and between the City of Hattiesburg, through its Community Development Division (COHCDD), David & Lonnie Patterson, owner of the property located at 705 W. Railroad Street, Hattiesburg, MS 39401 (Owner), and Dixie Heating and Air, with its principal place of business located at 80 Jake Johnson Road, Purvis, MS 39475 (Contractor), for HVAC services under the City's Minor Housing Repair Program.

WITNESSETH

1. SCOPE OF WORK

The Contractor shall furnish all labor, materials, equipment, tools, permits (when required), supervision, and all other services necessary to complete the HVAC repair, replacement, or related mechanical work identified in the approved Work Write-Up, Scope of Work, specifications, and other Contract Documents prepared by the COHCDD Housing Programs Inspector for **705 W. Railroad Street**. All work shall be performed at the property identified herein in accordance with applicable building codes, manufacturer specifications, permit requirements, and the terms of this Agreement. The approved Scope of Work, Contractor's accepted cost proposal, and any approved Change Orders are incorporated into this Agreement and shall constitute the Contract Documents for this project.

2. HVAC INSTALLATION REQUIREMENTS

The Contractor shall perform all HVAC repair, replacement, or installation work in accordance with the approved Scope of Work, applicable building and mechanical codes, manufacturer specifications, and all applicable federal, state, and local requirements. The Contractor shall:

A. Obtain all required permits and inspections before commencement of work, when applicable.
B. Install only the equipment and materials approved by the COHCDD and identified in the work specification or approved Change Order.
C. Ensure all equipment is properly installed, tested, and fully operational upon project completion.
D. Remove and properly dispose of all replaced equipment, debris, refrigerants, and other waste materials in accordance with applicable laws and regulations.
E. Provide the homeowner and the COHCDD with all applicable warranty information, equipment model and serial numbers, manufacturer's literature, and operating instructions at project completion.
F. Demonstrate the proper operation of the installed HVAC system to the homeowner upon completion of the work.

G. Maintain all licenses, certifications, insurance, and qualifications required under the COHCDD HVAC Contractor Services RFQ throughout performance of the project. Technicians handling refrigerants shall maintain applicable EPA Section 608 certification.
H. Self-perform all HVAC services. Subcontracting shall be limited to incidental non-HVAC work, such as minor electrical reconnect or carpentry, when necessary and approved by the City. Any subcontractor shall possess all licenses and qualifications required for the work performed.

The Contractor shall immediately notify the COHCDD if unforeseen conditions are discovered that require additional work or modification of the approved Scope of Work. No additional work shall be performed without prior written authorization from the COHCDD through an approved Change Order.

3. TIME OF COMPLETION

No work shall commence until the COHCDD issues a written Notice to Proceed. The Contractor shall commence work within ten (10) calendar days following issuance of the Notice to Proceed and shall complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by the COHCDD through an approved Change Order.

The Contractor shall promptly notify the COHCDD of any condition that may delay completion of the work. No extension of the Contract Time shall be effective unless approved in writing by the COHCDD.

4. COMPENSATION

As full consideration for the satisfactory performance by the Contractor of this Contract, the COHCDD shall pay to the Contractor the sum of Sixteen thousand seven hundred forty-eight dollars and seventy-one cents ($16,748.71), subject to any written additions or deductions provided and incorporated herein, in accordance with the payment provisions of this Contract.

The Contract Sum includes all labor, equipment, materials, permits, disposal, transportation, supervision, and other costs necessary to complete the approved Scope of Work unless otherwise authorized by written Change Order.

5. CHANGES IN THE WORK

The Owner/COHCDD, 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 Changes in the Work shall be authorized by a written Change Order approved by the COHCDD before the additional, deleted, or modified work is performed. The Contract Sum and/or Contract Time shall be adjusted accordingly, when applicable.

The Contract Sum and the Contract Time may be changed by a Change Order. The cost or credit resulting from a Change in the Work shall be determined and approved before the affected work is performed. No additional or substituted work shall be eligible for payment unless authorized by the COHCDD in writing before the work is performed.

6. WARRANTY AND CORRECTION OF WORK

A. Labor and Workmanship Warranty. The Contractor warrants all labor, installation, and workmanship performed under this Contract for a minimum period of one (1) year from the date of final acceptance by the COHCDD. The Contractor shall, at no additional cost to the Owner or COHCDD, correct defects resulting from improper installation or workmanship during the warranty period.

B. Manufacturer Warranty. All HVAC equipment, parts, and materials installed shall carry the applicable manufacturer's warranty. The Contractor shall provide the Owner and COHCDD with copies of all manufacturer warranty information, including applicable terms and coverage periods.

C. Warranty Registration. Where manufacturer registration is required to obtain or maintain warranty coverage, the Contractor shall ensure that the required manufacturer warranty registration is completed and shall provide confirmation of registration to the Owner and COHCDD before final payment. Nothing in this Contract shall reduce or limit any longer manufacturer warranty applicable to equipment, parts, or materials installed under this project.

D. Warranty Documentation. At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information.

E. Correction of Deficiencies. The Contractor shall correct deficiencies attributable to improper installation or workmanship, including but not limited to failure of the system to operate as designed, code deficiencies, improper electrical or mechanical connections, refrigerant leaks attributable to installation, or failure to install the equipment approved under the Contract Documents.

7. TERMINATION

If the Contractor fails to perform the Work in accordance with the Contract Documents or otherwise fails to comply with this Agreement, the COHCDD may provide written notice identifying the deficiency and requiring corrective action within a specified period. If the Contractor fails to timely correct the deficiency, the COHCDD may terminate the Contract, withhold payment for deficient or incomplete work, and take such other action as permitted under the Contract Documents and applicable law.

8. PAYMENTS

Payment shall be made following satisfactory completion of the approved Scope of Work, final inspection and acceptance by the COHCDD, and submission of a complete invoice and required supporting documentation.

Final payment shall not be processed until:

- The HVAC system has been inspected and accepted by the COHCDD;
- The system is fully operational;
- Required permits and inspections have been completed and closed, when applicable;
- Equipment model and serial numbers have been provided;
- Labor/workmanship and manufacturer warranty documentation has been provided;
- Required manufacturer warranty registration has been completed, when applicable; and
- Required lien waivers/releases have been submitted.

Payment may be withheld for defective or incomplete work, unresolved claims or liens, failure to pay subcontractors or suppliers, failure to provide required documentation, or other noncompliance with the Contract Documents.

9. OWNER OCCUPANCY

There will be no deed restriction attached to the property located at **705 W. Railroad Street** as this project is limited to HVAC services under the Minor Housing Repair Program. No affordability period applies to this project; however, the terms and conditions of this Agreement remain binding and enforceable.

The Owner acknowledges that assistance is being provided for their owner-occupied primary residence and affirms their intent to continue occupying the property as their primary residence following completion of the assisted repairs. The Owner further understands and agrees that they are responsible for the ongoing maintenance and upkeep of the HVAC system and related components following completion of the project.

10. ASSIGNMENT OF CONTRACT

The Contractor shall not assign this Agreement. HVAC services shall be self-performed by the Contractor in accordance with the City's HVAC Contractor Services RFQ. Incidental non-HVAC work may be subcontracted only when authorized by the City and performed by appropriately licensed and qualified subcontractors.

11. CONTRACT DOCUMENTS

This Agreement, the COHCDD's approved Scope of Work/Work Write-Up, the Contractor's accepted cost proposal, applicable Change Orders, and the applicable requirements of the COHCDD's HVAC Contractor Services RFQ constitute the Contract

Documents. The Contractor shall perform the work in accordance with these documents and the COHCDD's Minor Housing Repair Program Guidelines.

IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

David E. Patterson 8-18-26
David Patterson Date

Lonnie M Patterson 8-18-26
Lonnie Patterson Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: Kelvin Y

Date: 8-18-26

Attest: _____

CITY OF HATTIESBURG GRANT AWARD AGREEMENT

MINOR HOUSING REPAIR - HVAC SERVICES

General Terms and Conditions

1. DP I certify that I currently live in and own the home for which I am accepting repair assistance.

2. DP I agree to make my home reasonably accessible for scheduled repair work between 7:00 a.m. and 5:00 p.m., Monday through Friday, unless otherwise arranged with Community Development and the Contractor.

3. DP I understand that I am responsible for securing personal belongings and providing reasonable access to areas necessary for completion of the HVAC work.

4. DP I understand that illegal activity or verbal or physical threats toward City employees, the Contractor, or its workers may result in suspension or termination of repair activities and program assistance

5. DP I authorize the City to photograph or otherwise document the property and completed work as necessary for program administration, inspection, monitoring, and recordkeeping purposes.

6. DP I agree to receive information provided by the Contractor regarding the proper operation and routine maintenance of the installed HVAC system.

7. DP 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. DP I certify that the home is my primary residence and affirm my intent to continue occupying the property as my primary residence following completion of the assisted repairs. I understand that no affordability period or deed restriction applies to this assistance.

9. DP I understand that assistance under the Minor Housing Repair Program is one-time assistance and that the household and property will not be eligible for future assistance under this Program.

10. DP I hereby agree to maintain flood insurance when required by applicable federal or program requirements.

11. DP I hereby agree to maintain all county and city property taxes as they come due.

12. DP I hereby agree to cooperate with final inspection and project closeout and to execute required documentation necessary for completion of the project and processing of payment to the Contractor.

13. DP I authorize the City to conduct required environmental testing, inspections, procurement activities, and other necessary steps associated with the Minor Housing Repair Program and understand that applicable project costs will be administered in accordance with Program requirements.

By my signature below, I, David & Lonnie Patterson, owner of 705 W. Railroad Street, Hattiesburg, MS 39401, agree to the terms of this Grant Award Agreement and understand that failure to comply with applicable Program requirements may result in suspension or termination of assistance, subject to applicable Program requirements, this **18th** day of **August, 2026**.

David E. Patterson
Homeowner's Signature

Lonnie M Patterson
Spouse's Signature

GRANT AWARD

The Homeowner, **David & Lonnie Patterson**, owner of **705 W. Railroad Street, Hattiesburg, MS 39401**, is hereby awarded assistance under the City of Hattiesburg Minor Housing Repair Program for eligible HVAC services at the property. The approved HVAC contract amount is **Sixteen thousand seven hundred forty-eight dollars and seventy-one cents ($16,748.71).** The total project cost may include other eligible project-related costs incurred or administered by the City in accordance with the Minor Housing Repair Program Guidelines and applicable federal requirements. Any change to the approved HVAC Scope of Work or Contract Sum must be authorized in writing by Community Development in accordance with applicable Program requirements and Contract Documents. Assistance is provided as a grant. No deed restriction or affordability period applies to this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

MINOR HOUSING REPAIR PROGRAM

WORK AGREEMENT | HVAC SERVICES

For Repair Work At: 705 W. Railroad Street – David & Lonnie Patterson

1. KY I propose to furnish all materials and perform all labor necessary to complete the HVAC work described in the attached Work Write-Up/Bid Solicitation and approved Scope of Work.
2. KY I agree that all work will be completed using quality workmanship and approved materials and equipment, in accordance with the approved Scope of Work, manufacturer specifications, and applicable federal, state, and local requirements. Where applicable, work shall comply with lead-safe requirements.
3. KY I will begin work within ten (10) calendar days after receiving the Notice to Proceed and will complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by Community Development through an approved Change Order.
4. KY I will maintain and furnish evidence of all insurance coverage required by the City and the HVAC Contractor Services RFQ throughout the performance of this Agreement, including applicable general liability and workers' compensation coverage.
5. KY I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. KY I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. KY I certify that I will perform all work in conformance with applicable local building and mechanical codes, manufacturer specifications, and the City of Hattiesburg's applicable Contractor Performance Standards and Specifications.
8. KY I agree not to discriminate in employment or in the delivery of federally assisted programs and activities on the basis of age, race, color, religion, sex, disability, familial status, national origin, political affiliation, or union affiliation. I will comply with applicable nondiscrimination requirements, including Section 504 and 24 CFR Part 8. The City of Hattiesburg Community Development Division shall coordinate compliance and address related grievances.
9. KY I will keep the work site clean and safe and remove construction debris daily. Occupied areas shall be left clean and safe for entry or secured from access with prior approval from Community Development and notice to the homeowner. Replaced HVAC equipment, refrigerants, and other regulated materials shall be properly removed and disposed of in accordance with applicable requirements.
10. KY I will furnish all applicable manufacturers' and suppliers' written warranties covering HVAC equipment, parts, materials, and components to the City of Hattiesburg for forwarding to the Homeowner. I will also provide equipment model and serial numbers and ensure that any required manufacturer warranty registration is completed, when applicable.
11. KY I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. KY I understand that payment will be processed following satisfactory completion of the approved work, final inspection and acceptance by Community Development, and submission of the required invoice, warranty documentation, lien releases, and other required supporting documentation.
13. KY I understand that the homeowner cannot authorize any other contractor/individual not associated with the City of Hattiesburg Minor Housing Repair Program to make repairs to the premises during the duration of this Grant Agreement.
14. KY I understand that if any contractor/ individual not associated with the City of Hattiesburg Minor Housing Repair Program performs repairs to the premises during the term of this Agreement, it is my responsibility to immediately report such work to the Housing Programs Inspector or Housing Coordinator. Unauthorized work may affect the terms of the Agreement or the eligibility of the assisted project.

This work will be completed for the sum of $16,748.71.

ALL LABOR AND WORKMANSHIP IS WARRANTED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE. APPLICABLE MANUFACTURER WARRANTIES ON HVAC EQUIPMENT, PARTS, MATERIALS, AND COMPONENTS SHALL REMAIN IN EFFECT ACCORDING TO THEIR TERMS.

[signature] 8-18-26

Dixie Heating and Air **Date**

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials, equipment, and labor necessary to complete the work in accordance with this Work Agreement and applicable Contract Documents, this 18th day of August 2026.

[signature] 8-18-26

David Patterson, Signature **Date**

Lonnie M Patterson 8-18-26

Lonnie Patterson **Date**

[signature] 8-18-26

City of Hattiesburg – Witness **Date**

MINOR HOME REPAIR PROGRAM – HVAC SERVICES
***LIMITED WARRANTY**
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

****NOTE:*** *At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information. Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

By my signature below, I, David Patterson of 705 W. Railroad Street, acknowledge that the above Limited Warranty for Minor Home Repair has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

David Patterson 8-18-26
David Patterson / Date

Sahrah Yerozedeko 8-18-26
Housing Coordinator or Designee Signature/Date

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Minor Repair Program Contractor & Owner Agreement

HVAC Services

THIS AGREEMENT, made the 18th day of August, 2026, is entered into by and between the City of Hattiesburg, through its Community Development Division (COHCDD), Joyce Horne, owner of the property located at 927 Luther Street, Hattiesburg, MS 39401 (Owner), and Dixie Heating and Air, with its principal place of business located at 80 Jake Johnson Road, Purvis, MS 39475 (Contractor), for HVAC services under the City's Minor Housing Repair Program.

WITNESSETH

1. SCOPE OF WORK

The Contractor shall furnish all labor, materials, equipment, tools, permits (when required), supervision, and all other services necessary to complete the HVAC repair, replacement, or related mechanical work identified in the approved Work Write-Up, Scope of Work, specifications, and other Contract Documents prepared by the COHCDD Housing Programs Inspector for **927 Luther Street**. All work shall be performed at the property identified herein in accordance with applicable building codes, manufacturer specifications, permit requirements, and the terms of this Agreement. The approved Scope of Work, Contractor's accepted cost proposal, and any approved Change Orders are incorporated into this Agreement and shall constitute the Contract Documents for this project.

2. HVAC INSTALLATION REQUIREMENTS

The Contractor shall perform all HVAC repair, replacement, or installation work in accordance with the approved Scope of Work, applicable building and mechanical codes, manufacturer specifications, and all applicable federal, state, and local requirements. The Contractor shall:

A. Obtain all required permits and inspections before commencement of work, when applicable.
B. Install only the equipment and materials approved by the COHCDD and identified in the work specification or approved Change Order.
C. Ensure all equipment is properly installed, tested, and fully operational upon project completion.
D. Remove and properly dispose of all replaced equipment, debris, refrigerants, and other waste materials in accordance with applicable laws and regulations.
E. Provide the homeowner and the COHCDD with all applicable warranty information, equipment model and serial numbers, manufacturer's literature, and operating instructions at project completion.
F. Demonstrate the proper operation of the installed HVAC system to the homeowner upon completion of the work.

G. Maintain all licenses, certifications, insurance, and qualifications required under the COHCDD HVAC Contractor Services RFQ throughout performance of the project. Technicians handling refrigerants shall maintain applicable EPA Section 608 certification.
H. Self-perform all HVAC services. Subcontracting shall be limited to incidental non-HVAC work, such as minor electrical reconnect or carpentry, when necessary and approved by the City. Any subcontractor shall possess all licenses and qualifications required for the work performed.

The Contractor shall immediately notify the COHCDD if unforeseen conditions are discovered that require additional work or modification of the approved Scope of Work. No additional work shall be performed without prior written authorization from the COHCDD through an approved Change Order.

3. TIME OF COMPLETION

No work shall commence until the COHCDD issues a written Notice to Proceed. The Contractor shall commence work within ten (10) calendar days following issuance of the Notice to Proceed and shall complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by the COHCDD through an approved Change Order.

The Contractor shall promptly notify the COHCDD of any condition that may delay completion of the work. No extension of the Contract Time shall be effective unless approved in writing by the COHCDD.

4. COMPENSATION

As full consideration for the satisfactory performance by the Contractor of this Contract, the COHCDD shall pay to the Contractor the sum of Nine thousand two hundred seventy-five dollars and eighty-three cents ($9,275.83), subject to any written additions or deductions provided and incorporated herein, in accordance with the payment provisions of this Contract.

The Contract Sum includes all labor, equipment, materials, permits, disposal, transportation, supervision, and other costs necessary to complete the approved Scope of Work unless otherwise authorized by written Change Order.

5. CHANGES IN THE WORK

The Owner/COHCDD, 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 Changes in the Work shall be authorized by a written Change Order approved by the COHCDD before the additional, deleted, or modified work is performed. The Contract Sum and/or Contract Time shall be adjusted accordingly, when applicable.

The Contract Sum and the Contract Time may be changed by a Change Order. The cost or credit resulting from a Change in the Work shall be determined and approved before the affected work is performed. No additional or substituted work shall be eligible for payment unless authorized by the COHCDD in writing before the work is performed.

6. WARRANTY AND CORRECTION OF WORK

A. Labor and Workmanship Warranty. The Contractor warrants all labor, installation, and workmanship performed under this Contract for a minimum period of one (1) year from the date of final acceptance by the COHCDD. The Contractor shall, at no additional cost to the Owner or COHCDD, correct defects resulting from improper installation or workmanship during the warranty period.

B. Manufacturer Warranty. All HVAC equipment, parts, and materials installed shall carry the applicable manufacturer's warranty. The Contractor shall provide the Owner and COHCDD with copies of all manufacturer warranty information, including applicable terms and coverage periods.

C. Warranty Registration. Where manufacturer registration is required to obtain or maintain warranty coverage, the Contractor shall ensure that the required manufacturer warranty registration is completed and shall provide confirmation of registration to the Owner and COHCDD before final payment. Nothing in this Contract shall reduce or limit any longer manufacturer warranty applicable to equipment, parts, or materials installed under this project.

D. Warranty Documentation. At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information.

E. Correction of Deficiencies. The Contractor shall correct deficiencies attributable to improper installation or workmanship, including but not limited to failure of the system to operate as designed, code deficiencies, improper electrical or mechanical connections, refrigerant leaks attributable to installation, or failure to install the equipment approved under the Contract Documents.

7. TERMINATION

If the Contractor fails to perform the Work in accordance with the Contract Documents or otherwise fails to comply with this Agreement, the COHCDD may provide written notice identifying the deficiency and requiring corrective action within a specified period. If the Contractor fails to timely correct the deficiency, the COHCDD may terminate the Contract, withhold payment for deficient or incomplete work, and take such other action as permitted under the Contract Documents and applicable law.

8. PAYMENTS

Payment shall be made following satisfactory completion of the approved Scope of Work, final inspection and acceptance by the COHCDD, and submission of a complete invoice and required supporting documentation.

Final payment shall not be processed until:

- The HVAC system has been inspected and accepted by the COHCDD;
- The system is fully operational;
- Required permits and inspections have been completed and closed, when applicable;
- Equipment model and serial numbers have been provided;
- Labor/workmanship and manufacturer warranty documentation has been provided;
- Required manufacturer warranty registration has been completed, when applicable; and
- Required lien waivers/releases have been submitted.

Payment may be withheld for defective or incomplete work, unresolved claims or liens, failure to pay subcontractors or suppliers, failure to provide required documentation, or other noncompliance with the Contract Documents.

9. OWNER OCCUPANCY

There will be no deed restriction attached to the property located at **927 Luther Street** as this project is limited to HVAC services under the Minor Housing Repair Program. No affordability period applies to this project; however, the terms and conditions of this Agreement remain binding and enforceable.

The Owner acknowledges that assistance is being provided for their owner-occupied primary residence and affirms their intent to continue occupying the property as their primary residence following completion of the assisted repairs. The Owner further understands and agrees that they are responsible for the ongoing maintenance and upkeep of the HVAC system and related components following completion of the project.

10. ASSIGNMENT OF CONTRACT

The Contractor shall not assign this Agreement. HVAC services shall be self-performed by the Contractor in accordance with the City's HVAC Contractor Services RFQ. Incidental non-HVAC work may be subcontracted only when authorized by the City and performed by appropriately licensed and qualified subcontractors.

11. CONTRACT DOCUMENTS

This Agreement, the COHCDD's approved Scope of Work/Work Write-Up, the Contractor's accepted cost proposal, applicable Change Orders, and the applicable requirements of the COHCDD's HVAC Contractor Services RFQ constitute the Contract

Documents. The Contractor shall perform the work in accordance with these documents and the COHCDD's Minor Housing Repair Program Guidelines.

IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Joyce Horne 8-18-26

Joyce Horne Date

Homeowner Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: Kelvin Yawn

Date: 8-18-26

Attest: _____

CITY OF HATTIESBURG GRANT AWARD AGREEMENT

MINOR HOUSING REPAIR - HVAC SERVICES

General Terms and Conditions

1. JH I certify that I currently live in and own the home for which I am accepting repair assistance.
2. JH I agree to make my home reasonably accessible for scheduled repair work between 7:00 a.m. and 5:00 p.m., Monday through Friday, unless otherwise arranged with Community Development and the Contractor.
3. JH I understand that I am responsible for securing personal belongings and providing reasonable access to areas necessary for completion of the HVAC work.
4. JH I understand that illegal activity or verbal or physical threats toward City employees, the Contractor, or its workers may result in suspension or termination of repair activities and program assistance
5. JH I authorize the City to photograph or otherwise document the property and completed work as necessary for program administration, inspection, monitoring, and recordkeeping purposes.
6. JH I agree to receive information provided by the Contractor regarding the proper operation and routine maintenance of the installed HVAC system.
7. JH 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. JH I certify that the home is my primary residence and affirm my intent to continue occupying the property as my primary residence following completion of the assisted repairs. I understand that no affordability period or deed restriction applies to this assistance.
9. JH I understand that assistance under the Minor Housing Repair Program is one-time assistance and that the household and property will not be eligible for future assistance under this Program.
10. JH I hereby agree to maintain flood insurance when required by applicable federal or program requirements.
11. JH I hereby agree to maintain all county and city property taxes as they come due.
12. JH I hereby agree to cooperate with final inspection and project closeout and to execute required documentation necessary for completion of the project and processing of payment to the Contractor.
13. JH I authorize the City to conduct required environmental testing, inspections, procurement activities, and other necessary steps associated with the Minor Housing Repair Program and understand that applicable project costs will be administered in accordance with Program requirements.

By my signature below, I, Joyce Horne, owner of 927 Luther Street, Hattiesburg, MS 39401, agree to the terms of this Grant Award Agreement and understand that failure to comply with applicable Program requirements may result in suspension or termination of assistance, subject to applicable Program requirements, this **18th** day of **August, 2026**.

Joyce Horne
Homeowner's Signature

_____
Spouse's Signature

GRANT AWARD

The Homeowner, **Joyce Horne**, owner of **927 Luther Street, Hattiesburg, MS 39401**, is hereby awarded assistance under the City of Hattiesburg Minor Housing Repair Program for eligible HVAC services at the property. The approved HVAC contract amount is **Nine Thousand Two Hundred Seventy-Five Dollars and Eighty-Three Cents ($9,275.83).** The total project cost may include other eligible project-related costs incurred or administered by the City in accordance with the Minor Housing Repair Program Guidelines and applicable federal requirements. Any change to the approved HVAC Scope of Work or Contract Sum must be authorized in writing by Community Development in accordance with applicable Program requirements and Contract Documents. Assistance is provided as a grant. No deed restriction or affordability period applies to this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

MINOR HOUSING REPAIR PROGRAM

WORK AGREEMENT | HVAC SERVICES

For Repair Work At: 927 Luther Street – Joyce Horne

1. KY I propose to furnish all materials and perform all labor necessary to complete the HVAC work described in the attached Work Write-Up/Bid Solicitation and approved Scope of Work.
2. KY I agree that all work will be completed using quality workmanship and approved materials and equipment, in accordance with the approved Scope of Work, manufacturer specifications, and applicable federal, state, and local requirements. Where applicable, work shall comply with lead-safe requirements.
3. KY I will begin work within ten (10) calendar days after receiving the Notice to Proceed and will complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by Community Development through an approved Change Order.
4. KY I will maintain and furnish evidence of all insurance coverage required by the City and the HVAC Contractor Services RFQ throughout the performance of this Agreement, including applicable general liability and workers' compensation coverage.
5. KY I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. KY I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. KY I certify that I will perform all work in conformance with applicable local building and mechanical codes, manufacturer specifications, and the City of Hattiesburg's applicable Contractor Performance Standards and Specifications.
8. KY I agree not to discriminate in employment or in the delivery of federally assisted programs and activities on the basis of age, race, color, religion, sex, disability, familial status, national origin, political affiliation, or union affiliation. I will comply with applicable nondiscrimination requirements, including Section 504 and 24 CFR Part 8. The City of Hattiesburg Community Development Division shall coordinate compliance and address related grievances.
9. KY I will keep the work site clean and safe and remove construction debris daily. Occupied areas shall be left clean and safe for entry or secured from access with prior approval from Community Development and notice to the homeowner. Replaced HVAC equipment, refrigerants, and other regulated materials shall be properly removed and disposed of in accordance with applicable requirements.
10. KY I will furnish all applicable manufacturers' and suppliers' written warranties covering HVAC equipment, parts, materials, and components to the City of Hattiesburg for forwarding to the Homeowner. I will also provide equipment model and serial numbers and ensure that any required manufacturer warranty registration is completed, when applicable.
11. KY I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. KY I understand that payment will be processed following satisfactory completion of the approved work, final inspection and acceptance by Community Development, and submission of the required invoice, warranty documentation, lien releases, and other required supporting documentation.
13. KY I understand that the homeowner cannot authorize any other contractor/individual not associated with the City of Hattiesburg Minor Housing Repair Program to make repairs to the premises during the duration of this Grant Agreement.
14. KY I understand that if any contractor/ individual not associated with the City of Hattiesburg Minor Housing Repair Program performs repairs to the premises during the term of this Agreement, it is my responsibility to immediately report such work to the Housing Programs Inspector or Housing Coordinator. Unauthorized work may affect the terms of the Agreement or the eligibility of the assisted project.

This work will be completed for the sum of $9,275.83.

ALL LABOR AND WORKMANSHIP IS WARRANTED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE. APPLICABLE MANUFACTURER WARRANTIES ON HVAC EQUIPMENT, PARTS, MATERIALS, AND COMPONENTS SHALL REMAIN IN EFFECT ACCORDING TO THEIR TERMS.

Kevin Yu 8-18-26

Dixie Heating and Air **Date**

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials, equipment, and labor necessary to complete the work in accordance with this Work Agreement and applicable Contract Documents, this 18th day of August 2026.

Joyce Horne 8-18-26

Joyce Horne, Signature **Date**

Spouse Signature **Date**

Sahrah Yeroozedeh 8-18-26

City of Hattiesburg – Witness **Date**

MINOR HOME REPAIR PROGRAM – HVAC SERVICES
***LIMITED WARRANTY**
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

****NOTE:*** *Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information.

By my signature below, I, Joyce Horne of 927 Luther Street, acknowledge that the above Limited Warranty for Minor Home Repair has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Joyce Horne 8-18-26
Joyce Horne / Date

Sahrah Yeroozedeh 8-18-26
Housing Coordinator or Designee Signature/Date

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Minor Repair Program Contractor & Owner Agreement

HVAC Services

THIS AGREEMENT, made the 18th day of August, 2026, is entered into by and between the City of Hattiesburg, through its Community Development Division (COHCDD), Irene Brumfield, owner of the property located at 815 Grace Avenue, Hattiesburg, MS 39401 (Owner), and Dixie Heating and Air, with its principal place of business located at 80 Jake Johnson Road, Purvis, MS 39475 (Contractor), for HVAC services under the City's Minor Housing Repair Program.

WITNESSETH

1. SCOPE OF WORK

The Contractor shall furnish all labor, materials, equipment, tools, permits (when required), supervision, and all other services necessary to complete the HVAC repair, replacement, or related mechanical work identified in the approved Work Write-Up, Scope of Work, specifications, and other Contract Documents prepared by the COHCDD Housing Programs Inspector for **815 Grace Avenue**. All work shall be performed at the property identified herein in accordance with applicable building codes, manufacturer specifications, permit requirements, and the terms of this Agreement. The approved Scope of Work, Contractor's accepted cost proposal, and any approved Change Orders are incorporated into this Agreement and shall constitute the Contract Documents for this project.

2. HVAC INSTALLATION REQUIREMENTS

The Contractor shall perform all HVAC repair, replacement, or installation work in accordance with the approved Scope of Work, applicable building and mechanical codes, manufacturer specifications, and all applicable federal, state, and local requirements. The Contractor shall:

A. Obtain all required permits and inspections before commencement of work, when applicable.
B. Install only the equipment and materials approved by the COHCDD and identified in the work specification or approved Change Order.
C. Ensure all equipment is properly installed, tested, and fully operational upon project completion.
D. Remove and properly dispose of all replaced equipment, debris, refrigerants, and other waste materials in accordance with applicable laws and regulations.
E. Provide the homeowner and the COHCDD with all applicable warranty information, equipment model and serial numbers, manufacturer's literature, and operating instructions at project completion.
F. Demonstrate the proper operation of the installed HVAC system to the homeowner upon completion of the work.

G. Maintain all licenses, certifications, insurance, and qualifications required under the COHCDD HVAC Contractor Services RFQ throughout performance of the project. Technicians handling refrigerants shall maintain applicable EPA Section 608 certification.
H. Self-perform all HVAC services. Subcontracting shall be limited to incidental non-HVAC work, such as minor electrical reconnect or carpentry, when necessary and approved by the City. Any subcontractor shall possess all licenses and qualifications required for the work performed.

The Contractor shall immediately notify the COHCDD if unforeseen conditions are discovered that require additional work or modification of the approved Scope of Work. No additional work shall be performed without prior written authorization from the COHCDD through an approved Change Order.

3. TIME OF COMPLETION

No work shall commence until the COHCDD issues a written Notice to Proceed. The Contractor shall commence work within ten (10) calendar days following issuance of the Notice to Proceed and shall complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by the COHCDD through an approved Change Order.

The Contractor shall promptly notify the COHCDD of any condition that may delay completion of the work. No extension of the Contract Time shall be effective unless approved in writing by the COHCDD.

4. COMPENSATION

As full consideration for the satisfactory performance by the Contractor of this Contract, the COHCDD shall pay to the Contractor the sum of Nine thousand nine hundred seventy-five dollars and sixty-one cents ($9,975.61), subject to any written additions or deductions provided and incorporated herein, in accordance with the payment provisions of this Contract.

The Contract Sum includes all labor, equipment, materials, permits, disposal, transportation, supervision, and other costs necessary to complete the approved Scope of Work unless otherwise authorized by written Change Order.

5. CHANGES IN THE WORK

The Owner/COHCDD, 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 Changes in the Work shall be authorized by a written Change Order approved by the COHCDD before the additional, deleted, or modified work is performed. The Contract Sum and/or Contract Time shall be adjusted accordingly, when applicable.

The Contract Sum and the Contract Time may be changed by a Change Order. The cost or credit resulting from a Change in the Work shall be determined and approved before the affected work is performed. No additional or substituted work shall be eligible for payment unless authorized by the COHCDD in writing before the work is performed.

6. WARRANTY AND CORRECTION OF WORK

A. Labor and Workmanship Warranty. The Contractor warrants all labor, installation, and workmanship performed under this Contract for a minimum period of one (1) year from the date of final acceptance by the COHCDD. The Contractor shall, at no additional cost to the Owner or COHCDD, correct defects resulting from improper installation or workmanship during the warranty period.

B. Manufacturer Warranty. All HVAC equipment, parts, and materials installed shall carry the applicable manufacturer's warranty. The Contractor shall provide the Owner and COHCDD with copies of all manufacturer warranty information, including applicable terms and coverage periods.

C. Warranty Registration. Where manufacturer registration is required to obtain or maintain warranty coverage, the Contractor shall ensure that the required manufacturer warranty registration is completed and shall provide confirmation of registration to the Owner and COHCDD before final payment. Nothing in this Contract shall reduce or limit any longer manufacturer warranty applicable to equipment, parts, or materials installed under this project.

D. Warranty Documentation. At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information.

E. Correction of Deficiencies. The Contractor shall correct deficiencies attributable to improper installation or workmanship, including but not limited to failure of the system to operate as designed, code deficiencies, improper electrical or mechanical connections, refrigerant leaks attributable to installation, or failure to install the equipment approved under the Contract Documents.

7. TERMINATION

If the Contractor fails to perform the Work in accordance with the Contract Documents or otherwise fails to comply with this Agreement, the COHCDD may provide written notice identifying the deficiency and requiring corrective action within a specified period. If the Contractor fails to timely correct the deficiency, the COHCDD may terminate the Contract, withhold payment for deficient or incomplete work, and take such other action as permitted under the Contract Documents and applicable law.

8. PAYMENTS

Payment shall be made following satisfactory completion of the approved Scope of Work, final inspection and acceptance by the COHCDD, and submission of a complete invoice and required supporting documentation.

Final payment shall not be processed until:

- The HVAC system has been inspected and accepted by the COHCDD;
- The system is fully operational;
- Required permits and inspections have been completed and closed, when applicable;
- Equipment model and serial numbers have been provided;
- Labor/workmanship and manufacturer warranty documentation has been provided;
- Required manufacturer warranty registration has been completed, when applicable; and
- Required lien waivers/releases have been submitted.

Payment may be withheld for defective or incomplete work, unresolved claims or liens, failure to pay subcontractors or suppliers, failure to provide required documentation, or other noncompliance with the Contract Documents.

9. OWNER OCCUPANCY

There will be no deed restriction attached to the property located at **815 Grace Avenue** as this project is limited to HVAC services under the Minor Housing Repair Program. No affordability period applies to this project; however, the terms and conditions of this Agreement remain binding and enforceable.

The Owner acknowledges that assistance is being provided for their owner-occupied primary residence and affirms their intent to continue occupying the property as their primary residence following completion of the assisted repairs. The Owner further understands and agrees that they are responsible for the ongoing maintenance and upkeep of the HVAC system and related components following completion of the project.

10. ASSIGNMENT OF CONTRACT

The Contractor shall not assign this Agreement. HVAC services shall be self-performed by the Contractor in accordance with the City's HVAC Contractor Services RFQ. Incidental non-HVAC work may be subcontracted only when authorized by the City and performed by appropriately licensed and qualified subcontractors.

11. CONTRACT DOCUMENTS

This Agreement, the COHCDD's approved Scope of Work/Work Write-Up, the Contractor's accepted cost proposal, applicable Change Orders, and the applicable requirements of the COHCDD's HVAC Contractor Services RFQ constitute the Contract

Documents. The Contractor shall perform the work in accordance with these documents and the COHCDD's Minor Housing Repair Program Guidelines.

IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Irene Brumfield 8-18-26
Irene Brumfield Date

Homeowner Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: _____

Date: 8-18-26

Attest: _____

CITY OF HATTIESBURG GRANT AWARD AGREEMENT

MINOR HOUSING REPAIR - HVAC SERVICES

General Terms and Conditions

1. IB I certify that I currently live in and own the home for which I am accepting repair assistance.
2. IB I agree to make my home reasonably accessible for scheduled repair work between 7:00 a.m. and 5:00 p.m., Monday through Friday, unless otherwise arranged with Community Development and the Contractor.
3. IB I understand that I am responsible for securing personal belongings and providing reasonable access to areas necessary for completion of the HVAC work.
4. IB I understand that illegal activity or verbal or physical threats toward City employees, the Contractor, or its workers may result in suspension or termination of repair activities and program assistance
5. IB I authorize the City to photograph or otherwise document the property and completed work as necessary for program administration, inspection, monitoring, and recordkeeping purposes.
6. IB I agree to receive information provided by the Contractor regarding the proper operation and routine maintenance of the installed HVAC system.
7. IB 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. IB I certify that the home is my primary residence and affirm my intent to continue occupying the property as my primary residence following completion of the assisted repairs. I understand that no affordability period or deed restriction applies to this assistance.
9. IB I understand that assistance under the Minor Housing Repair Program is one-time assistance and that the household and property will not be eligible for future assistance under this Program.
10. IB I hereby agree to maintain flood insurance when required by applicable federal or program requirements.
11. IB I hereby agree to maintain all county and city property taxes as they come due.
12. IB I hereby agree to cooperate with final inspection and project closeout and to execute required documentation necessary for completion of the project and processing of payment to the Contractor.
13. IB I authorize the City to conduct required environmental testing, inspections, procurement activities, and other necessary steps associated with the Minor Housing Repair Program and understand that applicable project costs will be administered in accordance with Program requirements.

By my signature below, I, Irene Brumfield, owner of 815 Grace Avenue, Hattiesburg, MS 39401, agree to the terms of this Grant Award Agreement and understand that failure to comply with applicable Program requirements may result in suspension or termination of assistance, subject to applicable Program requirements, this **18th** day of **August, 2026**.

Irene Brumfield
Homeowner's Signature

_____
Spouse's Signature

GRANT AWARD

The Homeowner, **Irene Brumfield**, owner of **815 Grace Avenue, Hattiesburg, MS 39401**, is hereby awarded assistance under the City of Hattiesburg Minor Housing Repair Program for eligible HVAC services at the property. The approved HVAC contract amount is **Nine thousand nine hundred seventy-five dollars and sixty-one cents ($9,975.61).** The total project cost may include other eligible project-related costs incurred or administered by the City in accordance with the Minor Housing Repair Program Guidelines and applicable federal requirements. Any change to the approved HVAC Scope of Work or Contract Sum must be authorized in writing by Community Development in accordance with applicable Program requirements and Contract Documents. Assistance is provided as a grant. No deed restriction or affordability period applies to this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

MINOR HOUSING REPAIR PROGRAM

WORK AGREEMENT | HVAC SERVICES

For Repair Work At: 815 Grace Avenue – Irene Brumfield

1. KY I propose to furnish all materials and perform all labor necessary to complete the HVAC work described in the attached Work Write-Up/Bid Solicitation and approved Scope of Work.
2. KY I agree that all work will be completed using quality workmanship and approved materials and equipment, in accordance with the approved Scope of Work, manufacturer specifications, and applicable federal, state, and local requirements. Where applicable, work shall comply with lead-safe requirements.
3. KY I will begin work within ten (10) calendar days after receiving the Notice to Proceed and will complete the HVAC work within ten (10) working days after commencement, unless additional time is authorized in writing by Community Development through an approved Change Order.
4. KY I will maintain and furnish evidence of all insurance coverage required by the City and the HVAC Contractor Services RFQ throughout the performance of this Agreement, including applicable general liability and workers' compensation coverage.
5. KY I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. KY I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. KY I certify that I will perform all work in conformance with applicable local building and mechanical codes, manufacturer specifications, and the City of Hattiesburg's applicable Contractor Performance Standards and Specifications.
8. KY I agree not to discriminate in employment or in the delivery of federally assisted programs and activities on the basis of age, race, color, religion, sex, disability, familial status, national origin, political affiliation, or union affiliation. I will comply with applicable nondiscrimination requirements, including Section 504 and 24 CFR Part 8. The City of Hattiesburg Community Development Division shall coordinate compliance and address related grievances.
9. KY I will keep the work site clean and safe and remove construction debris daily. Occupied areas shall be left clean and safe for entry or secured from access with prior approval from Community Development and notice to the homeowner. Replaced HVAC equipment, refrigerants, and other regulated materials shall be properly removed and disposed of in accordance with applicable requirements.
10. KY I will furnish all applicable manufacturers' and suppliers' written warranties covering HVAC equipment, parts, materials, and components to the City of Hattiesburg for forwarding to the Homeowner. I will also provide equipment model and serial numbers and ensure that any required manufacturer warranty registration is completed, when applicable.
11. KY I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. KY I understand that payment will be processed following satisfactory completion of the approved work, final inspection and acceptance by Community Development, and submission of the required invoice, warranty documentation, lien releases, and other required supporting documentation.
13. KY I understand that the homeowner cannot authorize any other contractor/individual not associated with the City of Hattiesburg Minor Housing Repair Program to make repairs to the premises during the duration of this Grant Agreement.
14. KY I understand that if any contractor/ individual not associated with the City of Hattiesburg Minor Housing Repair Program performs repairs to the premises during the term of this Agreement, it is my responsibility to immediately report such work to the Housing Programs Inspector or Housing Coordinator. Unauthorized work may affect the terms of the Agreement or the eligibility of the assisted project.

This work will be completed for the sum of $9,975.61.

ALL LABOR AND WORKMANSHIP IS WARRANTED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE. APPLICABLE MANUFACTURER WARRANTIES ON HVAC EQUIPMENT, PARTS, MATERIALS, AND COMPONENTS SHALL REMAIN IN EFFECT ACCORDING TO THEIR TERMS.

Kelsey Lyn 8-18-26

Dixie Heating and Air **Date**

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials, equipment, and labor necessary to complete the work in accordance with this Work Agreement and applicable Contract Documents, this 18th day of August 2026.

Irene Brumfield 8-18-26

Irene Brumfield, Signature **Date**

Spouse Signature **Date**

Sahrah Yarbrough 8-18-26

City of Hattiesburg – Witness **Date**

MINOR HOME REPAIR PROGRAM – HVAC SERVICES
***LIMITED WARRANTY**
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

NOTE: *Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

At project completion, the Contractor shall provide equipment model and serial numbers, manufacturer warranty documentation, applicable registration confirmation, and operating and maintenance information.

By my signature below, I, Irene Brumfield of 815 Grace Avenue, acknowledge that the above Limited Warranty for Minor Home Repair has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Irene Brumfield 8-18-26
Irene Brumfield / Date

Sahrah Yeroushalmi 8-18-26
Housing Coordinator or Designee Signature/Date

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director, Dequandra Johnson**

cc: **Kermas Eaton, City Clerk**

Date: **Tuesday, August 18, 2026**

Re: **Approve Contractor and Owner Agreements according to the Emergency Roof Repair Initiative Manual and authorize the Mayor to execute in duplicate.**
File Number: 2026-658
Minute Book #

Summary
Approve Contractor and Owner Agreements according to the Emergency Roof Repair Initiative Manual and authorize the Mayor to execute in duplicate.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Emergency Repair
Roof Repair Initiative Program

Contractor & Owner Agreement

THIS AGREEMENT, made the 18th day of August, 2026 and between the City of Hattiesburg Community Development Department (COHCD) Homeowner Rehabilitation/Reconstruction Program (HRRP) and Maxine Buckley of 617 Duke Avenue, Hattiesburg, MS 39401, hereinafter called Owner, and Starter Homes of Mississippi with its principal place of business located at 57 Carter Drive, Seminary, Mississippi 39479, 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 Work Write-Up and described in the specifications and other Contract Documents prepared for the **617 Duke Avenue** project by the Housing Programs Inspector, said work to be preformed on the structure(s)/property located at **617 Duke 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) days after 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 the project repair completion exceeds thirty (30) 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 the Contractor of this Contract, the Owner/COHCD shall pay to the Contractor the sum of Fifteen thousand

dollars ($15,000.00), 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/CHOCD 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 waiver of all claims by the Contractor except those previously 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 provisions of the General Conditions of the Contract.

9. DEED RESTRICTION

There will be no deed restriction attached to the property located at **617 Duke Avenue** as this project is limited to roof repair only. The homeowner understands and agrees that they are solely responsible for the ongoing maintenance and upkeep of the repaired roof and related components. The homeowner further acknowledges that while no acknowledges no affordability period applies to this project, the terms of this contract remain binding and enforceable. Homeowner agrees to occupy the rehabilitated home after repair activities are completed. **Homeowner acknowledges and agrees that this contract shall be binding on his/her/their heirs, executors and assigns.**

10. ASSIGNMENT OF CONTRACT

This agreement may not be assigned to any Contractor or Agent of the Contractor. IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Maxine Buckley 8-18-26

Maxine Buckley Date

_____

Homeowner Signature Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: _____

Date: 8/18/26

Attest: _____

CITY OF HATTIESBURG EMERGENCY REPAIR
GRANT AWARD AGREEMENT- ROOF REPAIR INITIATIVE

General Terms and Conditions

1. MB I certify that I currently live in and own the home for which I am accepting repair assistance.

2. MB 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. MB I understand that I am responsible for the 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. MB 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. MB 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. MB 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. MB 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. MB I hereby agree to occupy the home as my primary residence at the time of repairs and understand that there is no required affordability period or deed restriction associated with this assistance.

9. MB I acknowledge that by accepting this grant, I am ineligible for any future Housing Rehabilitation, Housing Repair, Emergency Repair, or other federally funded housing assistance programs, administered by this division.

10. MB I hereby agree to maintain homeowner's insurance and, when applicable, flood insurance.

11. MB I hereby agree to maintain all county and city property taxes as they come due.

12. mb 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.

13. MB I authorize the city to proceed with preliminary testing, requests for bids, and other required steps necessary in order to proceed with a project, and further understand that costs related to the same shall be added to the total cost of the project under this grant award.

By my signature below I, **Maxine Buckley of 617 Duke 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 18th day of August, 2026.

Maxine Buckley
Homeowner's Signature

_____
Spouse's Signature

GRANT AWARD

The Homeowner(s), **Maxine Buckley of 617 Duke Avenue,** is hereby awarded a Housing Rehabilitation Award for costs associated with the repair or rehabilitation of **617 Duke Avenue**. The amount of the award shall be the actual cumulative cost of all related preparation and work, including but not limited to: preliminary environmental testing, required abatement work, construction costs, any required legal filing fees, any change orders/discovery repairs, and any approved voluntary temporary relocation assistance. General construction/rehabilitation/repair costs are not to exceed $20,000, excluding change orders/discovery repairs necessary to meet building codes and program standards according to the Housing Rehabilitation and Housing Repair Programs Manual Section VIII(E). Other associated costs are in addition to the $20,000 described for general construction/rehabilitation/repair. Lead and/or Asbestos activities are contracted separately. All actual costs are subject to program requirements, with no deed restriction or affordability period associated with this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

GENERAL CONTRACTOR HOUSING REHABILITATION GRANT PROGRAM
WORK AGREEMENT

For Repair Work At: 617 Duke Avenue – Maxine Buckley

1. ERN I propose to furnish all materials and perform all labor necessary to complete the work described in the attached Work Write-Up/Bid Solicitation.
2. ERN I agree that all work will be completed with quality workmanship and materials and I certify that no lead-based paint will be used on this job.
3. ERN I will begin work within ten (10) working days after receiving the ***Notice to Proceed***, and I will complete the job within sixty (60) days of the start date.
4. ERN I will purchase, maintain and furnish evidence of Comprehensive Business Liability Insurance coverage during the life of the contract, in an amount not less than $50,000 in the event of bodily injury, including death and $2,000.00 in the event of property damage arising out of work performed by me.
5. ERN I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. ERN I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. ERN I certify that I will perform all work in conformance with local codes and in conformance with the City of Hattiesburg's CDBG/HOME Contractors Performance Standards, Exhibit K.
8. ERN I agree that I will not discriminate against any persons employed by my company or any applicant for employment with my company because of age, race, color, religion, sex, handicap, familial status, national origin or because of any political or union affiliation. In accordance with 24 CFR Part 8 as required by Section 504 Regulations, there shall be no discrimination on the basis of of handicap in admission, access to, treatment or employment in federally assisted programs and activities. The City of Hattiesburg Department of Urban Development shall coordinate compliance of this part and is hereby the designee to handle any grievances concerning violations of these regulations.
9. ERN I will clean construction debris from the dwelling and the site to a dumpster or a code-legal dump at least daily, and I will leave the property in a broom-clean condition at the end of each work day. Additionally, for dwellings occupied during construction, I will vacuum all occupied spaces at the end of each work day, and the work areas will either be safe for occupant entry or secured to prohibit access. I will acquire approval from Community Development prior to prohibiting access to any work site, and I will notify the owner.
10. ERN I will furnish the original of all manufacturers' and suppliers' written guarantees and warranties covering materials and equipment to the City of Hattiesburg for forwarding to the Homeowner.
11. ERN I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. ERN I understand that payment may be made by percentage of completion, not to exceed 70% until completion of the work, provided this Agreement shall be fully executed, subject to the provisions of Article 8 of the General Conditions, Exhibit J.
13. ERN I understand that the homeowner can not authorize any other contractor/individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs Program to make repairs to the premises during the duration of this Grant Agreement.
14. ERN I understand that if any contractor/ individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs program performs any repairs to the premises; it is my responsibility to report it immediately to the Housing Program Inspector or the Housing Coordinator may immediately, all the terms of the Grant Agreement may be voided and the grant award to the homeowner forfeited.

This work will be completed for the sum of $15,000.00.

ALL WORKMANSHIP IS SUBJECT TO A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR.

Starter Homes of Mississippi — Date: 8/18/26

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials and labor required to complete the work mentioned in the above proposal, for which I agree to approve the payment in the amount specified in said proposal, and according to the terms thereof, on this the 18th of August, 2026.

Maxine Buckley, Signature — Date: 8-18-26

Spouse Signature — Date

City of Hattiesburg – Witness — Date: 8-18-26

HOUSING REPAIR/HOUSING REHABILITATION/RECONSTRUCTION PROGRAM
*LIMITED WARRANTY
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Loss or damage resulting from soil movement.

I. Natural wood imperfections such as swelling or shrinking of wood due to heat, cold and moisture.

J. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

***NOTE:** *Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

By my signature below, I, Maxine Buckley of 617 Duke Avenue, acknowledge that the above Limited Warranty for Housing Repair/Housing Rehabilitation has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Maxine Buckley 8-18-26

Maxine Buckley / Date

Sahrah Yeroozadeh 8-18-26

Housing Coordinator or Designee Signature/Date

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Emergency Repair

Roof Repair Initiative Program

Contractor & Owner Agreement

THIS AGREEMENT, made the 18th day of August, 2026 and between the City of Hattiesburg Community Development Department (COHCD) Homeowner Rehabilitation/Reconstruction Program (HRRP) and Bonnie and George Spann of 530 Dawson Street, Hattiesburg, MS 39401, hereinafter called Owner, and Starter Homes of Mississippi with its principal place of business located at 57 Carter Drive, Seminary, Mississippi 39479, 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 Work Write-Up and described in the specifications and other Contract Documents prepared for the **530 Dawson Street** project by the Housing Programs Inspector, said work to be preformed on the structure(s)/property located at **530 Dawson Street**, 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) days after 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 the project repair completion exceeds thirty (30) 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 the Contractor of this Contract, the Owner/COHCD shall pay to the Contractor the sum of Seventeen thousand

seven hundred forty-five ($17,745.00), 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/CHOCD 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 waiver of all claims by the Contractor except those previously 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 provisions of the General Conditions of the Contract.

9. DEED RESTRICTION

There will be no deed restriction attached to the property located at **530 Dawson Street** as this project is limited to roof repair only. The homeowner understands and agrees that they are solely responsible for the ongoing maintenance and upkeep of the repaired roof and related components. The homeowner further acknowledges that while no acknowledges no affordability period applies to this project, the terms of this contract remain binding and enforceable. Homeowner agrees to occupy the rehabilitated home after repair activities are completed. **Homeowner acknowledges and agrees that this contract shall be binding on his/her/their heirs, executors and assigns.**

10. ASSIGNMENT OF CONTRACT

This agreement may not be assigned to any Contractor or Agent of the Contractor. IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Bonnie Spann 08/18/2026
Bonnie Spann Date

George W. Spann 8/18/2026
George Spann Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: _____

Date: 8/18/26

Attest: _____

CITY OF HATTIESBURG EMERGENCY REPAIR
GRANT AWARD AGREEMENT- ROOF REPAIR INITIATIVE

General Terms and Conditions

1. BS I certify that I currently live in and own the home for which I am accepting repair assistance.
2. BS 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. BS I understand that I am responsible for the 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. BS 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. BS 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. BS 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. BS 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. BS I hereby agree to occupy the home as my primary residence at the time of repairs and understand that there is no required affordability period or deed restriction associated with this assistance.
9. BS I acknowledge that by accepting this grant, I am ineligible for any future Housing Rehabilitation, Housing Repair, Emergency Repair, or other federally funded housing assistance programs, administered by this division.
10. BS I hereby agree to maintain homeowner's insurance and, when applicable, flood insurance.
11. BS I hereby agree to maintain all county and city property taxes as they come due.
12. BS 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.
13. BS I authorize the city to proceed with preliminary testing, requests for bids, and other required steps necessary in order to proceed with a project, and further understand that costs related to the same shall be added to the total cost of the project under this grant award.

By my signature below I, **Bonnie & George Spann of 530 Dawson Street,** 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 18th day of August, 2026.

Bonnie Spann
Homeowner's Signature

George Spann
Spouse's Signature

GRANT AWARD

The Homeowner(s), **Bonnie & George Spann of 530 Dawson Street,** is hereby awarded a Housing Rehabilitation Award for costs associated with the repair or rehabilitation of **530 Dawson Street**. The amount of the award shall be the actual cumulative cost of all related preparation and work, including but not limited to: preliminary environmental testing, required abatement work, construction costs, any required legal filing fees, any change orders/discovery repairs, and any approved voluntary temporary relocation assistance. General construction/rehabilitation/repair costs are not to exceed $20,000, excluding change orders/discovery repairs necessary to meet building codes and program standards according to the Housing Rehabilitation and Housing Repair Programs Manual Section VIII(E). Other associated costs are in addition to the $20,000 described for general construction/rehabilitation/repair. Lead and/or Asbestos activities are contracted separately. All actual costs are subject to program requirements, with no deed restriction or affordability period associated with this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

GENERAL CONTRACTOR HOUSING REHABILITATION GRANT PROGRAM
WORK AGREEMENT

For Repair Work At: 530 Dawson Street – Bonnie & George Spann

1. ERN I propose to furnish all materials and perform all labor necessary to complete the work described in the attached Work Write-Up/Bid Solicitation.
2. ERN I agree that all work will be completed with quality workmanship and materials and I certify that no lead-based paint will be used on this job.
3. ERN I will begin work within ten (10) working days after receiving the ***Notice to Proceed***, and I will complete the job within sixty (60) days of the start date.
4. ERN I will purchase, maintain and furnish evidence of Comprehensive Business Liability Insurance coverage during the life of the contract, in an amount not less than $50,000 in the event of bodily injury, including death and $2,000.00 in the event of property damage arising out of work performed by me.
5. ERN I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. ERN I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. ERN I certify that I will perform all work in conformance with local codes and in conformance with the City of Hattiesburg's CDBG/HOME Contractors Performance Standards, Exhibit K.
8. ERN I agree that I will not discriminate against any persons employed by my company or any applicant for employment with my company because of age, race, color, religion, sex, handicap, familial status, national origin or because of any political or union affiliation. In accordance with 24 CFR Part 8 as required by Section 504 Regulations, there shall be no discrimination on the basis of of handicap in admission, access to, treatment or employment in federally assisted programs and activities. The City of Hattiesburg Department of Urban Development shall coordinate compliance of this part and is hereby the designee to handle any grievances concerning violations of these regulations.
9. ERN I will clean construction debris from the dwelling and the site to a dumpster or a code-legal dump at least daily, and I will leave the property in a broom-clean condition at the end of each work day. Additionally, for dwellings occupied during construction, I will vacuum all occupied spaces at the end of each work day, and the work areas will either be safe for occupant entry or secured to prohibit access. I will acquire approval from Community Development prior to prohibiting access to any work site, and I will notify the owner.
10. ERN I will furnish the original of all manufacturers' and suppliers' written guarantees and warranties covering materials and equipment to the City of Hattiesburg for forwarding to the Homeowner.
11. ERN I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. ERN I understand that payment may be made by percentage of completion, not to exceed 70% until completion of the work, provided this Agreement shall be fully executed, subject to the provisions of Article 8 of the General Conditions, Exhibit J.
13. ERN I understand that the homeowner can not authorize any other contractor/individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs Program to make repairs to the premises during the duration of this Grant Agreement.
14. ERN I understand that if any contractor/ individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs program performs any repairs to the premises; it is my responsibility to report it immediately to the Housing Program Inspector or the Housing Coordinator may immediately, all the terms of the Grant Agreement may be voided and the grant award to the homeowner forfeited.

This work will be completed for the sum of $17,745.00.

ALL WORKMANSHIP IS SUBJECT TO A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR.

Starter Homes of Mississippi — Date: 8/18/26

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials and labor required to complete the work mentioned in the above proposal, for which I agree to approve the payment in the amount specified in said proposal, and according to the terms thereof, on this the 18th of August, 2026.

Bonnie Spann — Date: 08/18/2026

George Spann — Date: 8/18/2026

City of Hattiesburg – Witness — Date: 8-18-26

HOUSING REPAIR/HOUSING REHABILITATION/RECONSTRUCTION PROGRAM
***LIMITED WARRANTY**
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Loss or damage resulting from soil movement.

I. Natural wood imperfections such as swelling or shrinking of wood due to heat, cold and moisture.

J. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

***NOTE:** Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

By my signature below, I, Bonnie & George Spann of 530 Dawson Street, acknowledge that the above Limited Warranty for Housing Repair/Housing Rehabilitation has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Bonnie Spann 08/18/2026 Dawson G. 8-18-26

Bonnie Spann / Date **Housing Coordinator or Designee Signature/Date**

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Emergency Repair
Roof Repair Initiative Program

Contractor & Owner Agreement

THIS AGREEMENT, made the 18th day of August, 2026 and between the City of Hattiesburg Community Development Department (COHCD) Homeowner Rehabilitation/Reconstruction Program (HRRP) and Susan Smith of 1812 Pearl Street, Hattiesburg, MS 39401, hereinafter called Owner, and Starter Homes of Mississippi with its principal place of business located at 57 Carter Drive, Seminary, Mississippi 39479, 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 Work Write-Up and described in the specifications and other Contract Documents prepared for the **1812 Pearl Street** project by the Housing Programs Inspector, said work to be preformed on the structure(s)/property located at **1812 Pearl Street**, 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) days after 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 the project repair completion exceeds thirty (30) 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 the Contractor of this Contract, the Owner/COHCD shall pay to the Contractor the sum of Eight thousand two

hundred twenty-five ($8,225.00), 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/CHOCD 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 waiver of all claims by the Contractor except those previously 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 provisions of the General Conditions of the Contract.

9. DEED RESTRICTION

There will be no deed restriction attached to the property located at **1812 Pearl Street** as this project is limited to roof repair only. The homeowner understands and agrees that they are solely responsible for the ongoing maintenance and upkeep of the repaired roof and related components. The homeowner further acknowledges that while no acknowledges no affordability period applies to this project, the terms of this contract remain binding and enforceable. Homeowner agrees to occupy the rehabilitated home after repair activities are completed. **Homeowner acknowledges and agrees that this contract shall be binding on his/her/their heirs, executors and assigns.**

10. ASSIGNMENT OF CONTRACT

This agreement may not be assigned to any Contractor or Agent of the Contractor. IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Susan M. Smith 8-18-26

Susan Smith Date

Homeowner Signature Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: _____

Date: 8/18/26

Attest: _____

CITY OF HATTIESBURG EMERGENCY REPAIR
GRANT AWARD AGREEMENT- ROOF REPAIR INITIATIVE

General Terms and Conditions

1. SMS I certify that I currently live in and own the home for which I am accepting repair assistance.

2. SMS 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. SMS I understand that I am responsible for the 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. SMS 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. SMS 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. SMS 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. SMS 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. SMS I hereby agree to occupy the home as my primary residence at the time of repairs and understand that there is no required affordability period or deed restriction associated with this assistance.

9. SMS I acknowledge that by accepting this grant, I am ineligible for any future Housing Rehabilitation, Housing Repair, Emergency Repair, or other federally funded housing assistance programs, administered by this division.

10. SMS I hereby agree to maintain homeowner's insurance and, when applicable, flood insurance.

11. SMS I hereby agree to maintain all county and city property taxes as they come due.

12. SMS 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.

13. SMS I authorize the city to proceed with preliminary testing, requests for bids, and other required steps necessary in order to proceed with a project, and further understand that costs related to the same shall be added to the total cost of the project under this grant award.

By my signature below I, **Susan Smith of 1812 Pearl Street,** 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 18th day of August, 2026.

Susan M. Smith
Homeowner's Signature

_____
Spouse's Signature

GRANT AWARD

The Homeowner(s), **Susan Smith of 1812 Pearl Street,** is hereby awarded a Housing Rehabilitation Award for costs associated with the repair or rehabilitation of **1812 Pearl Street**. The amount of the award shall be the actual cumulative cost of all related preparation and work, including but not limited to: preliminary environmental testing, required abatement work, construction costs, any required legal filing fees, any change orders/discovery repairs, and any approved voluntary temporary relocation assistance. General construction/rehabilitation/repair costs are not to exceed $20,000, excluding change orders/discovery repairs necessary to meet building codes and program standards according to the Housing Rehabilitation and Housing Repair Programs Manual Section VIII(E). Other associated costs are in addition to the $20,000 described for general construction/rehabilitation/repair. Lead and/or Asbestos activities are contracted separately. All actual costs are subject to program requirements, with no deed restriction or affordability period associated with this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

GENERAL CONTRACTOR HOUSING REHABILITATION GRANT PROGRAM
WORK AGREEMENT

For Repair Work At: 1812 Pearl Street – Susan Smith

1. ERN I propose to furnish all materials and perform all labor necessary to complete the work described in the attached Work Write-Up/Bid Solicitation.
2. ERN I agree that all work will be completed with quality workmanship and materials and I certify that no lead-based paint will be used on this job.
3. ERN I will begin work within ten (10) working days after receiving the ***Notice to Proceed***, and I will complete the job within sixty (60) days of the start date.
4. ERN I will purchase, maintain and furnish evidence of Comprehensive Business Liability Insurance coverage during the life of the contract, in an amount not less than $50,000 in the event of bodily injury, including death and $2,000.00 in the event of property damage arising out of work performed by me.
5. ERN I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. ERN I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. ERN I certify that I will perform all work in conformance with local codes and in conformance with the City of Hattiesburg's CDBG/HOME Contractors Performance Standards, Exhibit K.
8. ERN I agree that I will not discriminate against any persons employed by my company or any applicant for employment with my company because of age, race, color, religion, sex, handicap, familial status, national origin or because of any political or union affiliation. In accordance with 24 CFR Part 8 as required by Section 504 Regulations, there shall be no discrimination on the basis of of handicap in admission, access to, treatment or employment in federally assisted programs and activities. The City of Hattiesburg Department of Urban Development shall coordinate compliance of this part and is hereby the designee to handle any grievances concerning violations of these regulations.
9. ERN I will clean construction debris from the dwelling and the site to a dumpster or a code-legal dump at least daily, and I will leave the property in a broom-clean condition at the end of each work day. Additionally, for dwellings occupied during construction, I will vacuum all occupied spaces at the end of each work day, and the work areas will either be safe for occupant entry or secured to prohibit access. I will acquire approval from Community Development prior to prohibiting access to any work site, and I will notify the owner.
10. ERN I will furnish the original of all manufacturers' and suppliers' written guarantees and warranties covering materials and equipment to the City of Hattiesburg for forwarding to the Homeowner.
11. ERN I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. ERN I understand that payment may be made by percentage of completion, not to exceed 70% until completion of the work, provided this Agreement shall be fully executed, subject to the provisions of Article 8 of the General Conditions, Exhibit J.
13. ERN I understand that the homeowner can not authorize any other contractor/individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs Program to make repairs to the premises during the duration of this Grant Agreement.
14. ERN I understand that if any contractor/ individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs program performs any repairs to the premises; it is my responsibility to report it immediately to the Housing Program Inspector or the Housing Coordinator may immediately, all the terms of the Grant Agreement may be voided and the grant award to the homeowner forfeited.

This work will be completed for the sum of $8,225.00.

ALL WORKMANSHIP IS SUBJECT TO A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR.

Clayton Morris 8/18/26
Starter Homes of Mississippi **Date**

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials and labor required to complete the work mentioned in the above proposal, for which I agree to approve the payment in the amount specified in said proposal, and according to the terms thereof, on this the 18th of August, 2026.

Susan M. Smith 8-18-26
Susan Smith, Signature **Date**

Homeowner Signature **Date**

Sahrah Yeroozedek 8-18-26
City of Hattiesburg – Witness **Date**

HOUSING REPAIR/HOUSING REHABILITATION/RECONSTRUCTION PROGRAM
***LIMITED WARRANTY**
(Items Not Covered)

A. Any damage to the extent caused or made worse by any of the following:

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Loss or damage resulting from soil movement.

I. Natural wood imperfections such as swelling or shrinking of wood due to heat, cold and moisture.

J. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

NOTE: *Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

By my signature below, I, Susan Smith of 1812 Pearl Street, acknowledge that the above Limited Warranty for Housing Repair/Housing Rehabilitation has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Susan M. Smith 8-18-26
Susan Smith / Date

Sahrah Jerooyakel 8/18/26
Housing Coordinator or Designee Signature/Date

CITY OF HATTIESBURG COMMUNITY DEVELOPMENT

Emergency Repair
Roof Repair Initiative Program

Contractor & Owner Agreement

THIS AGREEMENT, made the 18th day of August, 2026 and between the City of Hattiesburg Community Development Department (COHCD) Homeowner Rehabilitation/Reconstruction Program (HRRP) and Teresa Young of 606 Martin Luther King Avenue, Hattiesburg, MS 39401, hereinafter called Owner, and Starter Homes of Mississippi with its principal place of business located at 57 Carter Drive, Seminary, Mississippi 39479, 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 Work Write-Up and described in the specifications and other Contract Documents prepared for the **606 Martin Luther King Avenue** project by the Housing Programs Inspector, said work to be preformed on the structure(s)/property located at **606 Martin Luther King 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) days after 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 the project repair completion exceeds thirty (30) 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 the Contractor of this Contract, the Owner/COHCD shall pay to the Contractor the sum of Thirteen thousand

one hundred dollars ($13,100.00), 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/CHOCD 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 waiver of all claims by the Contractor except those previously 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 provisions of the General Conditions of the Contract.

9. DEED RESTRICTION

There will be no deed restriction attached to the property located at **606 Martin Luther King Avenue** as this project is limited to roof repair only. The homeowner understands and agrees that they are solely responsible for the ongoing maintenance and upkeep of the repaired roof and related components. The homeowner further acknowledges that while no acknowledges no affordability period applies to this project, the terms of this contract remain binding and enforceable. Homeowner agrees to occupy the rehabilitated home after repair activities are completed. **Homeowner acknowledges and agrees that this contract shall be binding on his/her/their heirs, executors and assigns.**

10. ASSIGNMENT OF CONTRACT

This agreement may not be assigned to any Contractor or Agent of the Contractor. IN WITNESS WHEREOF, the parties hereto executed this Agreement the 18th day of August, 2026.

Teresa Young 8-18-26
Teresa Young Date

_____
Homeowner Signature Date

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

Contractor

By: _____

Date: 8/18/26

Attest: _____

CITY OF HATTIESBURG EMERGENCY REPAIR
GRANT AWARD AGREEMENT- ROOF REPAIR INITIATIVE

General Terms and Conditions

1. TY I certify that I currently live in and own the home for which I am accepting repair assistance.
2. TY 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. TY I understand that I am responsible for the 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. TY 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. TY 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. TY 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. TY 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. TY I hereby agree to occupy the home as my primary residence at the time of repairs and understand that there is no required affordability period or deed restriction associated with this assistance.
9. TY I acknowledge that by accepting this grant, I am ineligible for any future Housing Rehabilitation, Housing Repair, Emergency Repair, or other federally funded housing assistance programs, administered by this division.
10. TY I hereby agree to maintain homeowner's insurance and, when applicable, flood insurance.
11. TY I hereby agree to maintain all county and city property taxes as they come due.
12. TY 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.
13. TY I authorize the city to proceed with preliminary testing, requests for bids, and other required steps necessary in order to proceed with a project, and further understand that costs related to the same shall be added to the total cost of the project under this grant award.

By my signature below I, **Teresa Young of 606 Martin Luther King 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 18th day of August, 2026.

Teresa Young
Homeowner's Signature

Spouse's Signature

GRANT AWARD

The Homeowner(s), **Teresa Young of 606 Martin Luther King Avenue,** is hereby awarded a Housing Rehabilitation Award for costs associated with the repair or rehabilitation of **606 Martin Luther King Avenue**. The amount of the award shall be the actual cumulative cost of all related preparation and work, including but not limited to: preliminary environmental testing, required abatement work, construction costs, any required legal filing fees, any change orders/discovery repairs, and any approved voluntary temporary relocation assistance. General construction/rehabilitation/repair costs are not to exceed $20,000, excluding change orders/discovery repairs necessary to meet building codes and program standards according to the Housing Rehabilitation and Housing Repair Programs Manual Section VIII(E). Other associated costs are in addition to the $20,000 described for general construction/rehabilitation/repair. Lead and/or Asbestos activities are contracted separately. All actual costs are subject to program requirements, with no deed restriction or affordability period associated with this project.

City of Hattiesburg, Mississippi

By: _____
Toby Barker, Mayor

Date: August 18, 2026

Attest: _____
Kermas Eaton, City Clerk

GENERAL CONTRACTOR HOUSING REHABILITATION GRANT PROGRAM
WORK AGREEMENT

For Repair Work At: 606 Martin Luther King Avenue – Teresa Young

1. ERN I propose to furnish all materials and perform all labor necessary to complete the work described in the attached Work Write-Up/Bid Solicitation.
2. ERN I agree that all work will be completed with quality workmanship and materials and I certify that no lead-based paint will be used on this job.
3. ERN I will begin work within ten (10) working days after receiving the ***Notice to Proceed***, and I will complete the job within sixty (60) days of the start date.
4. ERN I will purchase, maintain and furnish evidence of Comprehensive Business Liability Insurance coverage during the life of the contract, in an amount not less than $50,000 in the event of bodily injury, including death and $2,000.00 in the event of property damage arising out of work performed by me.
5. ERN I will obtain all permits and licenses necessary for the completion and execution of the work and labor to be performed.
6. ERN I will perform all work in conformance with the terms shown in Article 8 of the General Conditions, Exhibit J.
7. ERN I certify that I will perform all work in conformance with local codes and in conformance with the City of Hattiesburg's CDBG/HOME Contractors Performance Standards, Exhibit K.
8. ERN I agree that I will not discriminate against any persons employed by my company or any applicant for employment with my company because of age, race, color, religion, sex, handicap, familial status, national origin or because of any political or union affiliation. In accordance with 24 CFR Part 8 as required by Section 504 Regulations, there shall be no discrimination on the basis of of handicap in admission, access to, treatment or employment in federally assisted programs and activities. The City of Hattiesburg Department of Urban Development shall coordinate compliance of this part and is hereby the designee to handle any grievances concerning violations of these regulations.
9. ERN I will clean construction debris from the dwelling and the site to a dumpster or a code-legal dump at least daily, and I will leave the property in a broom-clean condition at the end of each work day. Additionally, for dwellings occupied during construction, I will vacuum all occupied spaces at the end of each work day, and the work areas will either be safe for occupant entry or secured to prohibit access. I will acquire approval from Community Development prior to prohibiting access to any work site, and I will notify the owner.
10. ERN I will furnish the original of all manufacturers' and suppliers' written guarantees and warranties covering materials and equipment to the City of Hattiesburg for forwarding to the Homeowner.
11. ERN I understand that a *Request for Payment* with *Invoice,* and when applicable, the *Lien Waiver* and *Release of Lien Waivers* must be completed and submitted according to the Request for Payment Processing Schedule.
12. ERN I understand that payment may be made by percentage of completion, not to exceed 70% until completion of the work, provided this Agreement shall be fully executed, subject to the provisions of Article 8 of the General Conditions, Exhibit J.
13. ERN I understand that the homeowner can not authorize any other contractor/individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs Program to make repairs to the premises during the duration of this Grant Agreement.
14. ERN I understand that if any contractor/ individual not associated with the City of Hattiesburg CDBG/HOME Rehabilitation or Repairs program performs any repairs to the premises; it is my responsibility to report it immediately to the Housing Program Inspector or the Housing Coordinator may immediately, all the terms of the Grant Agreement may be voided and the grant award to the homeowner forfeited.

This work will be completed for the sum of $13,100.00.

ALL WORKMANSHIP IS SUBJECT TO A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR.

Elizabeth Morris 8/18/26
Starter Homes of Mississippi **Date**

CONTRACT ACCEPTANCE

You are hereby authorized to furnish all materials and labor required to complete the work mentioned in the above proposal, for which I agree to approve the payment in the amount specified in said proposal, and according to the terms thereof, on this the 18th of August, 2026.

Teresa Young 8-18-26
Teresa Young, Signature **Date**

Spouse Signature **Date**

Sahrah Yeroozidek 8-18-26
City of Hattiesburg – Witness **Date**

HOUSING REPAIR/HOUSING REHABILITATION/RECONSTRUCTION PROGRAM
***LIMITED WARRANTY**
(Items Not Covered)

A. **Any damage to the extent caused or made worse by any of the following:**

1. Negligence, vandalism, improper maintenance or improper operation by anyone other than the contractor, his or her employees or subcontractors.
2. Changes, alterations or additions made to the home by anyone other than the contractor.
3. Failure by the Homeowner or by anyone to comply with the warranty requirements of manufacturers of appliances, fixtures and items of equipment.
4. Failure by the homeowner to give notice to the Community Development Division of the Department of Urban Development within a reasonable amount of time of the discovered problem. (Three days is considered a reasonable time).
5. Dampness or condensation due to the failure of the Homeowner to maintain adequate ventilation.
6. Normal wear and tear or normal deterioration.

B. Loss or damage by or resulting from accidents, fire, smoke, falling objects, lightning, windstorm, hail, wind-driven water, flood or underground water, which were not reasonably foreseeable and/or other acts of God.

C. Loss or damage caused by rotting of any kind, insect damage, vermin, living organisms, pollution, or toxic substances of any kind.

D. Loss or damage caused by or resulting from abnormal loading on floors by the homeowner that exceeds design loads. (Example: large heavy objects on porches, interior floors and/or attics).

E. Loss or damage that the homeowner has not taken timely action to mitigate and/or minimize, such as leaking drain pipes under sinks and lavatories.

F. Any defect in, caused by, and/or resulting from materials or work supplied by anyone but the contractor or his or her subcontractors.

G. Loss or damage, not otherwise excluded under the Limited Warranty, which does not constitute a defect in the repairs of the home by the contractor or his or her subcontractors.

H. Loss or damage resulting from soil movement.

I. Natural wood imperfections such as swelling or shrinking of wood due to heat, cold and moisture.

J. Any request for warranty performance submitted to the CDBG Division or contractor after an unreasonable delay or after the expiration of the applicable warranty period.

****NOTE:*** *Appliances and equipment included in the repairs are not warranted by the Limited Warranty, but may be covered by separate warranties provided by the manufacturer. These are passed on to the homeowner at the time the warranty goes into effect.*

By my signature below, I, Teresa Young of 606 Martin Luther King Avenue, acknowledge that the above Limited Warranty for Housing Repair/Housing Rehabilitation has been explained to me and I understand that this Limited Warranty is for a period of one (1) year from the date of my Final Inspection.

Teresa Young 8-19-26
Teresa Young / Date

Sahrah Yeroozedek 8-18-26
Housing Coordinator or Designee Signature/Date

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Ann Jones**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Approve the Contract for Purchase and Sale of Real Property between Forrest County Industrial Park Commission and MMC Materials, INC., effective August 2026.**
File Number: 2026-707
Minute Book #

Summary
Approve the Contract for Purchase and Sale of Real Property between Forrest County Industrial Park Commission and MMC Materials, INC., effective August 2026.

Recommendation Statement
I recommend this item for approval.

Please place this on the August 18, 2026 City Council meeting for consideration.

CONTRACT FOR PURCHASE AND SALE OF REAL PROPERTY

This Contract for Purchase and Sale of Real Property ("Contract") is made and entered into this the _____ day of August 2026 (the "Effective Date"), by and between FORREST COUNTY INDUSTRIAL PARK COMMISSION, a public agency organized and existing pursuant to the laws of the State of Mississippi ("Seller") and MMC MATERIALS, INC., a Mississippi corporation, or assigns ("Buyer").

WITNESSETH:

For the considerations, and subject to the terms, conditions and provisions hereinafter set forth, and the mutual promises of, and benefits to each party, Seller hereby agrees to sell and Buyer agrees to purchase the below described real property, as follows:

1. PROPERTY DESCRIPTION: That certain real property located within the Forrest County Industrial Park in Hattiesburg, Mississippi, constituting approximately 26.28 acres (Tax Parcel ID 2-041P-34-007.00 (PPIN 27692) and Tax Parcel ID 2-041P-34-009.99 (PPIN 38191)), as generally depicted on the Surveys attached hereto as Exhibits A and B, respectively, and more particularly described by the legal descriptions attached hereto as Exhibits C and D, respectively, (all of the above real property is situated east of U.S. Highway 49 and south of J.M. Tatum Industrial Drive in Hattiesburg, Forrest County, Mississippi and hereinafter referred to as "Subject Property").

2. PURCHASE PRICE: The consideration to be paid by Buyer to Seller for Subject Property shall be based on the sum of Nine Thousand Two Hundred Forty-Six and 57/100 Dollars ($9,246.57) per acre, and with the acreage determined by the Surveys to be 26.28 acres, the Purchase Price shall be $243,000.00, and payable as follows:

The Purchase Price shall be payable in immediately available funds at Closing.

3. EARNEST MONEY: Buyer shall tender to Wise Carter Child & Caraway, P.A. ("Escrow Agent") the sum of Five Thousand and 00/100 Dollars ($5,000.00) as an earnest money deposit ("Earnest Money") within five (5) days of the full execution of this Contract. The Earnest Money shall be applied to the Purchase Price at Closing.

4. CLOSING DATE: This transaction shall be closed and the deed to and possession of Subject Property delivered on the date occurring no later than thirty (30) days following the expiration of the Due Diligence Period, which shall occur on a date and at a time and place mutually agreeable to the parties ("Closing").

5. TITLE AND CONVEYANCE: Subject Property is to be sold AS-IS, WHERE-IS and Seller makes no representations or warranties regarding the condition of Subject Property or the appropriateness of same for Buyer's intended use, except to the extent, if any, expressly and specifically set forth herein. The conveyance of Subject Property shall be made by Seller at the Closing, upon payment of the Purchase Price by Buyer, by a recordable Special Warranty Deed conveying good and marketable fee simple title to the aforesaid Subject Property. Seller shall convey all easements and rights-of-way appurtenant to Subject Property, and shall convey Subject Property, free and clear of all liens, security interests, defects, leases, restrictions, assessments and encumbrances, and said conveyance shall be subject to the lien of ad valorem taxes for the current year, zoning and other land use regulations, prior reservation and/or conveyance of mineral rights, and any matters set forth in the title commitment to be obtained by Buyer prior to Closing, unless objected to by Buyer.

Buyer may obtain an ALTA owner's policy of title insurance (the "Title Policy") respecting the Property from any title insurance company of its choosing (the "Title Company"). Buyer shall

be responsible for all costs and premiums associated with the title commitment and any Title Policy. Seller shall be responsible for the costs to furnish the Special Warranty Deed.

6. POSSESSION: Seller shall deliver unrestricted possession of Subject Property to Buyer upon Closing.

7. INSPECTION/DUE DILIGENCE: Seller has engaged Headwaters, Inc., and Shows, Dearman & Waits Professional Engineers to provide an update to the Environmental Due Diligence previously performed on Subject Property and has provided same to Buyer. Seller grants Buyer and its agents the right and privilege at any time within 120-days from the execution of this Contract (the "Due Diligence Period") and prior to the Closing to enter upon Subject Property and to conduct engineering studies, surveys, investigations and other analysis thereof, including, but not limited to, any additional Survey, a phase one environmental assessment, cultural resources analysis, wetlands delineation, soil borings, core samples and environmental tests or other analyses, and pursue such governmental and quasi-governmental approvals, and conduct such other activities and reviews with respect to Subject Property and Buyer's intended use thereof as Buyer shall deem appropriate. Seller shall not be required to conduct any such investigations or provide any information related to Subject Property other than the updated Environmental Due Diligence Report referenced above, rather Buyer shall conduct its own investigations, as it deems necessary and desirable, to determine to its own satisfaction the appropriateness of Subject Property for Buyer's intended purposes. At Buyer's request, Seller will reasonably cooperate with Buyer in the completion of such investigations. In the event any of the results from Buyer's investigations and/or title examination are not resolved to the satisfaction of Buyer prior to the Closing, Buyer shall have the right, at its sole option, to terminate this Contract by giving notice thereof to Seller and obtain a refund of the Earnest Money. Buyer shall be liable for any and all

actions of Buyer, its agents, employees and independent contractors while on Subject Property, and further, Buyer agrees to indemnify and hold Seller, its commissioners, agents, employees and attorneys harmless from any damages or losses resulting from Buyer's activities on Subject Property or claims associated therewith made against Seller. In the event Buyer does not close the transaction contemplated hereby with regard to Subject Property, Buyer agrees to furnish a copy of the survey and all finalized due diligence reports obtained from any third party to Seller within fifteen (15) days after the previously scheduled Closing Date.

8. BREACH OF CONTRACT: Except as otherwise set forth in Paragraph 7 hereinabove:

(a) In the event of breach of this Contract by Buyer, Seller's only remedy shall be to retain the Earnest Money and declare the Contract terminated.

(b) In the event of breach of this Contract by Seller, Buyer's remedy shall be (a) seek specific performance of the terms of this Contract or, (b) to declare the Contract terminated and obtain a refund of the Earnest Money.

9. SURVEY: Buyer agrees to obtain, at its sole cost and expense, an ALTA survey of Subject Property (the "Survey") accurately reflecting the boundaries of Subject Property, an accompanying legal description and showing all encumbrances and other matters typically reflected on an ALTA survey, including easements and access restrictions, which burden Subject Property. Buyer shall provide a copy of said Survey to Seller within three (3) days of receiving same.

10. BROKERS: Seller and Buyer acknowledge and agree that no Realtor, broker or other agent has been involved in this transaction or represented either party hereto, and no real estate commission is due any party.

11. CLOSING COSTS: Buyer shall pay the costs of closing this transaction, including but not limited to the inspection and due diligence activities set forth in Paragraph 7 hereinabove, title examination/commitment, ALTA Survey, closing, recording fees, Title Policy or other related insurance premiums, and its attorney's fees. Seller shall pay the costs of the deed preparation and its attorney's fees, as well as up to Ten Thousand and 00/100 Dollars ($10,000.00) towards the cost of the updated Environmental Due Diligence Report to be prepared by Headwaters, Inc., and Shows, Dearman & Waits Professional Engineers, with Buyer responsible for charges, if any, in excess of that amount. Ad valorem taxes for the current year, if any, shall be prorated between the Buyer and Seller as of the date of Closing.

12. RISK OF LOSS: If Subject Property is destroyed or materially damaged between the date hereof and the Closing, and Seller is unable or unwilling to restore it to its previous condition prior to Closing, Buyer shall have the option of canceling this Contract and obtaining a refund of the Earnest Money, or accepting Subject Property in its then condition. If Buyer elects to accept Subject Property in its damaged condition, the sum of (i) any insurance proceeds otherwise payable to Seller by reason of such damage, and (ii) the deductible amount of the loss as determined by the insurance company when computing the insurance proceeds payable to Seller, for which the Seller would not receive reimbursement from the insurance company, shall be applied against the balance of the Purchase Price or otherwise be payable to Buyer, in no event shall the balance of the Purchase Price be less than zero ($0.00).

13. NOTICES. All notices required or permitted hereunder shall be in writing and shall be deemed made when delivered in person, delivery service, electronic mail, or when mailed by certified mail, postage prepaid, return receipt requested, addressed as follows:

If to Buyer: MMC Materials, Inc.
Attn: Andrew Lester
1920 Byron Street
Hattiesburg, MS 39402
Phone: (601) 624-6249
Email: alester@mmcmaterials.com

with a copy to: Cody C. Bailey, Esq.
Brunini, Grantham, Grower & Hewes, PLLC
190 East Capitol Street
The Pinnacle Building, Suite 100
Jackson, MS 39201
Phone: (601) 973-8790
Email: cbailey@brunini.com

If to Seller: Forrest County Industrial Park Commission
c/o Area Development Partnership
Attn: Todd Jackson
One Convention Center Plaza
Hattiesburg, MS 39401
Phone: (601)296-7500
Email: t.jackson@theadp.com

with a copy to: Michael J. Shemper, Esq.
MICHAEL J. SHEMPER, PLLC
140 Mayfair Rd., Suite 1200
Hattiesburg, MS 39402
Phone: (601)545-7787
Email: michael@shemperlaw.com

and to: Joe D. Stevens, Esq.
Wise Carter Child & Caraway, P.A.
601 Adeline Street
Hattiesburg, MS 39401
Phone: 601-582-5551
Email: jds@wisecarter.com

14. ENTIRE AGREEMENT/BINDING TRANSACTION: This Contract constitutes the entire agreement between Seller and Buyer regarding Subject Property and supersedes all prior discussions, negotiations, and agreements, whether oral or written. All of the terms, covenants and conditions herein contained shall be binding on, and inure to the benefit of, the successors and/or

assigns of the Seller and Buyer. Buyer may assign this Contract to another entity related to Buyer. This Contract may only be amended by a writing signed by both Seller and Buyer.

15. GOVERNMENTAL APPROVALS: Seller and Buyer acknowledge and agree that Seller's Bylaws require Seller to obtain the approval of both The City of Hattiesburg, Mississippi ("City") and Forrest County, Mississippi ("County") in order to subdivide, improve, or issue lease or convey title to any personal or real property of the Seller. Thus, this Contract and Seller's obligations hereunder are subject to Seller obtaining official approval from both the City and the County for the sale of Subject Property to Buyer upon the terms and conditions set forth in this Contract. The successful obtaining of any required approvals that might be needed for Buyer's specific intended use of the Subject Property, including confirmation that the Subject Property is properly zoned to be used for Buyer's intended use, shall be a condition precedent to Closing. If Seller is unable, due to no fault of Buyer, to obtain the necessary approvals of the City and County, then Seller shall pay one-half (50%) of all the attorneys' fees, costs, and expenses incurred by Buyer to pursue the purchase of the Subject Property.

16. SELLER'S REPRESENTATIONS: As a material inducement to Buyer to execute this Contract and consummate this transaction, Seller represents and warrants to Buyer the following, each of which are true and correct as of the Effective Date of this Contract and will be true and correct at the Closing:

(a) Subject to Paragraph 15 above, Seller has full power and authority to execute, deliver, and carry out Seller's obligations under this Contract and all documents executed in connection with this Contract, and this Contract has been duly authorized by Seller's commissioners, and as may otherwise be required by Seller's governing documents, and the execution, delivery, and performance of this Contract and the transactions contemplated herein shall not breach the

provisions of any instrument binding upon Seller or any governmental orders to which Seller is a party, and the person signing this Contract on behalf of Seller has full power and authority to bind Seller and to execute and perform this Contract;

(b) To the best of Seller's knowledge, there has not occurred any destruction, disposal, or storage on the Subject Property of any hazardous substance, nor does any such hazardous substance exist on, in, or beneath the Property, and Seller has not received any written notice of any pending proceeding or inquiry by any government authority with respect to the presence of any hazardous substance on, in, or under the Subject Property, or the release of any hazardous substance from the Subject Property. "Hazardous Substance" means any hazardous, toxic or dangerous waste, substance or material as defined for purposes of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, or any other applicable law, any petroleum, petroleum products, natural or synthetic gas, asbestos, urea formaldehyde, radon gas, polychlorinated biphenyls, and all other substances or materials which may be hazardous to the health or safety of any person, including any substance which as of the Effective Date or the date of Closing is regulated under any federal, state or local statue, ordinance, rule, regulation or other law relating to environmental protection, contamination or cleanup; and

(c) There is not pending or, to the best of Seller's knowledge, threatened, any litigation, arbitration, proceeding or investigation relating to the Subject Property, Seller's operation or ownership of the Subject Property, or Seller's authority to consummate the transaction described in this Contract, and Seller does not have reasonable grounds to know of any basis for any such litigation, arbitration, proceeding or investigation;

(d) As of the Effective Date, there are no leases, licenses or occupancy agreements affecting the Subject Property or permitting any person or entity to occupy or use any portion of the Subject

Property, no party has an option, contract or right of first refusal or offer to purchase the Subject Property or any portion thereof, and Seller is the only rightful owner and holds clear and full title of the Subject Property.

IN WITNESS WHEREOF, the parties have caused this Contract to be duly executed as of the Effective Date.

SELLER:

FORREST COUNTY INDUSTRIAL PARK COMMISSION

By: _____
Ted J. Webb, Chairman

BUYER:

MMC MATERIALS, INC.

By: _____
Andrew Lester, Vice-President

EXHIBIT A

Depiction of 24.99 Acres of Subject Property

(See attached)

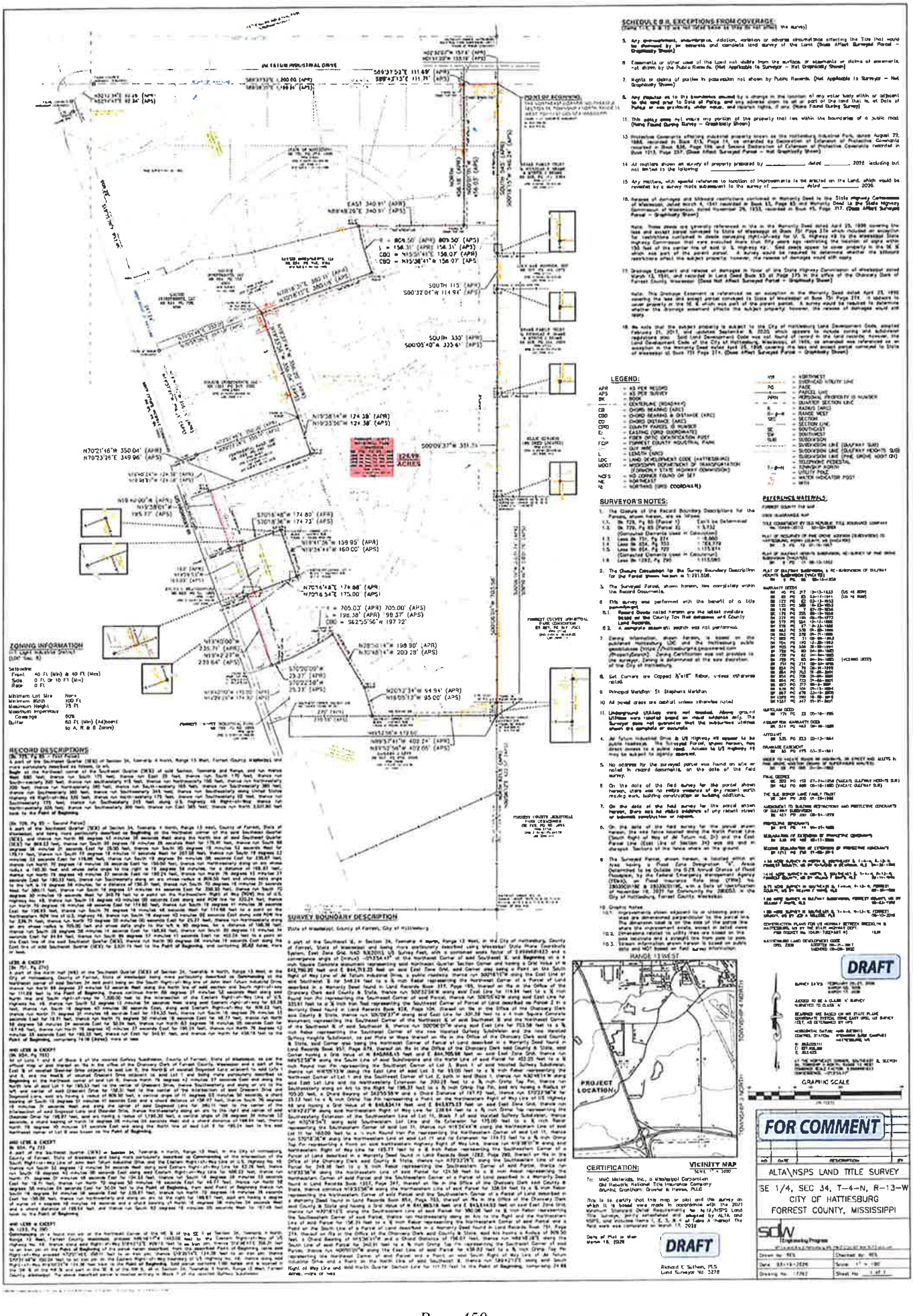

SCHEDULE B II, EXCEPTIONS FROM COVERAGE
LEGEND:
SURVEYOR'S NOTES:
REFERENCE MATERIALS
ZONING INFORMATION
RECORD DESCRIPTIONS
SURVEY BOUNDARY DESCRIPTION
VICINITY MAP
PROJECT LOCATION
CERTIFICATION:
DRAFT
FOR COMMENT
ALTA/NSPS LAND TITLE SURVEY
SE 1/4, SEC 34, T-4-N, R-13-W
CITY OF HATTIESBURG
FORREST COUNTY, MISSISSIPPI
GRAPHIC SCALE

EXHIBIT B

Depiction of 1.29 Acres of Subject Property

(See attached)

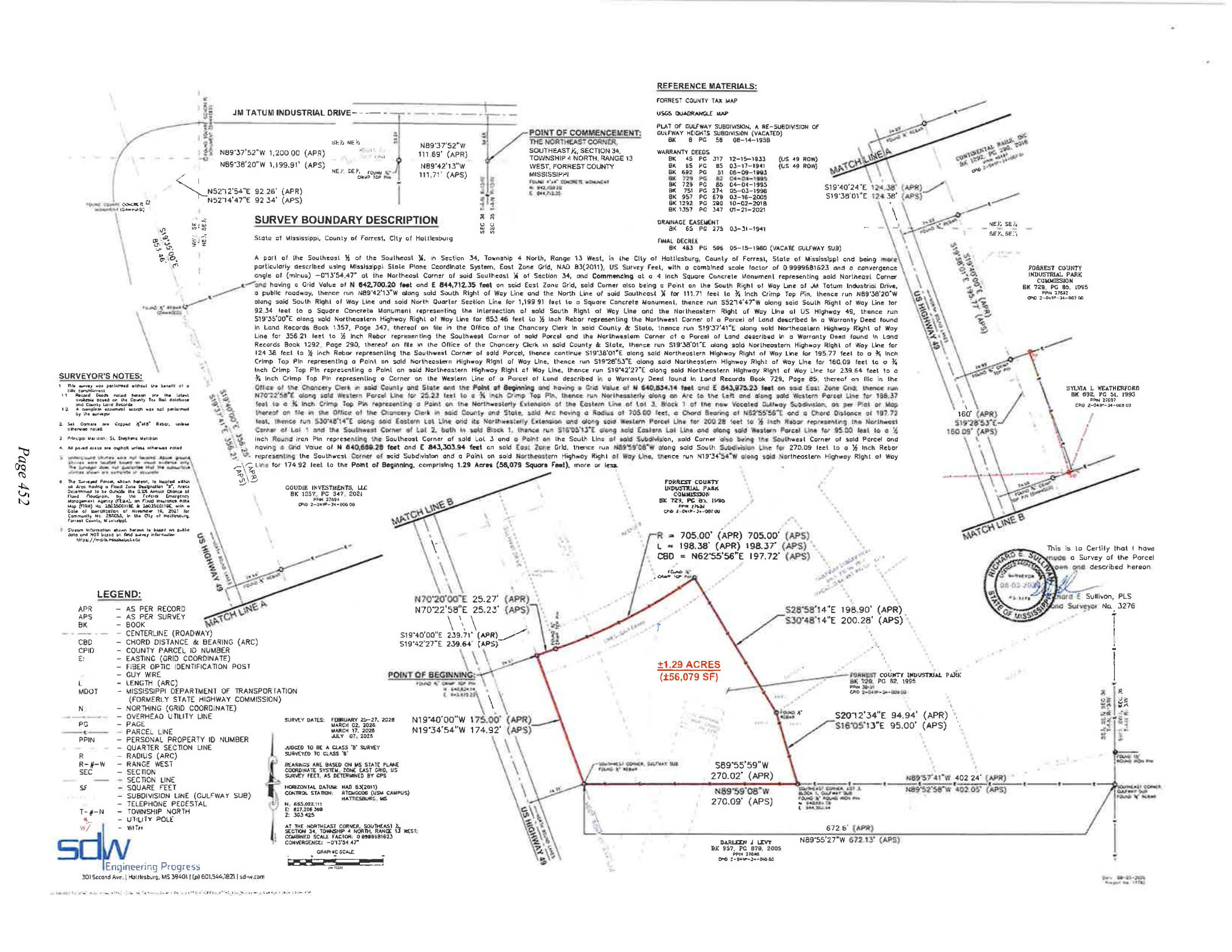

JM TATUM INDUSTRIAL DRIVE
N89°37'52"W 1,200.00' (APR)
N89°38'20"W 1,199.91' (APS)
N52°12'54"E 92.26' (APR)
N52°14'47"E 92.34' (APS)
S19°35'00"E 853.46'
N89°37'52"W 111.69' (APR)
N89°42'13"W 111.71' (APS)
POINT OF COMMENCEMENT:
THE NORTHEAST CORNER, SOUTHEAST ¼, SECTION 34, TOWNSHIP 4 NORTH, RANGE 13 WEST, FORREST COUNTY MISSISSIPPI
N: 642,708.99
E: 844,712.35
SURVEY BOUNDARY DESCRIPTION
State of Mississippi, County of Forrest, City of Hattiesburg
A part of the Southeast ¼ of the Southeast ¼, in Section 34, Township 4 North, Range 13 West, in the City of Hattiesburg, County of Forrest, State of Mississippi and being more particularly described using Mississippi State Plane Coordinate System, East Zone Grid, NAD 83(2011), US Survey Feet, with a combined scale factor of 0.9999681623 and a convergence angle of (minus) −0°13'54.47" at the Northeast Corner of said Southeast ¼ of Section 34, and Commencing at a 4 inch Square Concrete Monument representing said Northeast Corner and having a Grid Value of N 642,700.20 feet and E 844,712.35 feet on said East Zone Grid, said Corner also being a Point on the South Right of Way Line of JM Tatum Industrial Drive, a public roadway, thence run N89°42'13"W along said South Right of Way Line and the North Line of said Southeast ¼ for 111.71 feet to ¾ Inch Crimp Top Pin, thence run N89°38'20"W along said South Right of Way Line and said North Quarter Section Line for 1,199.91 feet to a Square Concrete Monument, thence run S52°14'47"W along said South Right of Way Line for 92.34 feet to a Square Concrete Monument representing the intersection of said South Right of Way Line and the Northeastern Right of Way Line of US Highway 49, thence run S19°35'00"E along said Northeastern Highway Right of Way Line for 853.46 feet to ½ Inch Rebar representing the Northwest Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1357, Page 347, thereof on file in the Office of the Chancery Clerk in said County & State, thence run S19°37'41"E along said Northeastern Highway Right of Way Line for 356.21 feet to ½ Inch Rebar representing the Southwest Corner of said Parcel and the Northwestern Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1292, Page 290, thereof on file in the Office of the Chancery Clerk in said County & State, thence run S19°38'01"E along said Northeastern Highway Right of Way Line for 124.38 feet to ½ Inch Rebar representing the Southwest Corner of said Parcel, thence continue S19°38'01"E along said Northeastern Highway Right of Way Line for 195.77 feet to a ¾ Inch Crimp Top Pin representing a Point on said Northeastern Highway Right of Way Line, thence run S19°26'53"E along said Northeastern Highway Right of Way Line for 160.09 feet to a ¾ Inch Crimp Top Pin representing a Point on said Northeastern Highway Right of Way Line, thence run S19°42'27"E along said Northeastern Highway Right of Way Line for 239.64 feet to a ½ Inch Crimp Top Pin representing a Corner on the Western Line of a Parcel of Land described in a Warranty Deed found in Land Records Book 729, Page 85, thereof on file in the Office of the Chancery Clerk in said County and State and the Point of Beginning and having a Grid Value of N 640,834.14 feet and E 843,975.23 feet on said East Zone Grid, thence run N70°22'58"E along said Western Parcel Line for 25.23 feet to a ¾ Inch Crimp Top Pin, thence run Northeasterly along an Arc to the Left and along said Western Parcel Line for 198.37 feet to a ¾ Inch Crimp Top Pin representing a Point on the Northwesterly Extension of the Eastern Line of Lot 3, Block 1 of the now Vacated Gulfway Subdivision, as per Plat or Map thereof on file in the Office of the Chancery Clerk in said County and State, said Arc having a Radius of 705.00 feet, a Chord Bearing of N62°55'56"E and a Chord Distance of 197.72 feet, thence run S30°48'14"E along said Eastern Lot Line and its Northwesterly Extension and along said Western Parcel Line for 200.28 feet to ½ Inch Rebar representing the Northwest Corner of Lot 1 and the Southwest Corner of Lot 2, both in said Block 1, thence run S16°05'13"E along said Eastern Lot Line and along said Western Parcel Line for 95.00 feet to a ½ inch Round Iron Pin representing the Southeast Corner of said Lot 3 and a Point on the South Line of said Subdivision, said Corner also being the Southwest Corner of said Parcel and having a Grid Value of N 640,689.28 feet and E 843,303.94 feet on said East Zone Grid, thence run N89°59'08"W along said South Subdivision Line for 270.09 feet to a ½ Inch Rebar representing the Southwest Corner of said Subdivision and a Point on said Northeastern Highway Right of Way Line, thence run N19°34'54"W along said Northeastern Highway Right of Way Line for 174.92 feet to the Point of Beginning, comprising 1.29 Acres (56,079 Square Feet), more or less.
REFERENCE MATERIALS:
FORREST COUNTY TAX MAP
USGS QUADRANGLE MAP
PLAT OF GULFWAY SUBDIVISION, A RE-SUBDIVISION OF GULFWAY HEIGHTS SUBDIVISION (VACATED)
BK 8 PG 58 08-14-1958
WARRANTY DEEDS
BK 45 PG 317 12-15-1933 (US 49 ROW)
BK 85 PG 85 03-17-1941 (US 49 ROW)
BK 692 PG 51 06-09-1993
BK 729 PG 82 04-04-1995
BK 729 PG 85 04-04-1995
BK 751 PG 274 05-03-1996
BK 957 PG 679 03-16-2005
BK 1292 PG 280 10-02-2018
BK 1357 PG 347 01-21-2021
DRAINAGE EASEMENT
BK 65 PG 275 03-31-1941
FINAL DECREE
BK 483 PG 586 05-15-1980 (VACATE GULFWAY SUB)
SURVEYOR'S NOTES:
1. This survey was performed without the benefit of a title commitment.
1.1 Record Deeds noted hereon are the latest available based on the County Tax Roll database and County Land Records
1.2 A complete easement search was not performed by this surveyor
2. Set Corners are Capped ½"x18" Rebar, unless otherwise noted.
3. Principal Meridian: St. Stephens Meridian
4. All paved areas are asphalt unless otherwise noted
5. Underground utilities were not located. Above ground utilities were located based on visual evidence only. The Surveyor does not guarantee that the subsurface utilities shown are complete or accurate
6. The Surveyed Parcel, shown hereon, is located within an Area having a Flood Zone Designation "X", Areas Determined to be Outside the 0.2% Annual Chance of Flood Floodplain, by the Federal Emergency Management Agency (FEMA), on Flood Insurance Rate Map (FIRM) No. 28035C0118E & 28035C0116E, with a Date of Identification of November 19, 2021 for Community No. 280053, in the City of Hattiesburg, Forrest County, Mississippi.
7. Stream information shown hereon is based on public data and NOT based on field survey information. https://maps.mdeq.ms.gov
LEGEND:
APR – AS PER RECORD
APS – AS PER SURVEY
BK – BOOK
– CENTERLINE (ROADWAY)
CBD – CHORD DISTANCE & BEARING (ARC)
CPID – COUNTY PARCEL ID NUMBER
E: – EASTING (GRID COORDINATE)
– FIBER OPTIC IDENTIFICATION POST
– GUY WIRE
L – LENGTH (ARC)
MDOT – MISSISSIPPI DEPARTMENT OF TRANSPORTATION (FORMERLY STATE HIGHWAY COMMISSION)
N – NORTHING (GRID COORDINATE)
– OVERHEAD UTILITY LINE
PG – PAGE
– PARCEL LINE
PPIN – PERSONAL PROPERTY ID NUMBER
– QUARTER SECTION LINE
R – RADIUS (ARC)
R-#-W – RANGE WEST
SEC – SECTION
– SECTION LINE
SF – SQUARE FEET
– SUBDIVISION LINE (GULFWAY SUB)
– TELEPHONE PEDESTAL
T-#-N – TOWNSHIP NORTH
– UTILITY POLE
– WITH
SURVEY DATES: FEBRUARY 25-27, 2026
MARCH 02, 2026
MARCH 17, 2026
JULY 07, 2025
JUDGED TO BE A CLASS 'B' SURVEY SURVEYED TO CLASS 'B'
BEARINGS ARE BASED ON MS STATE PLANE COORDINATE SYSTEM, ZONE EAST GRID, US SURVEY FEET, AS DETERMINED BY GPS
HORIZONTAL DATUM: NAD 83(2011)
CONTROL STATION: RTCM0006 (USM CAMPUS) HATTIESBURG, MS
N: 685,022.111
E: 827,206.399
Z: 303.425
AT THE NORTHEAST CORNER, SOUTHEAST ¼, SECTION 34, TOWNSHIP 4 NORTH, RANGE 13 WEST:
COMBINED SCALE FACTOR: 0.9999681623
CONVERGENCE: −0°13'54.47"
GRAPHIC SCALE
MATCH LINE A
MATCH LINE B
US HIGHWAY 49
S19°40'00"E 356.25' (APR)
S19°37'41"E 356.21' (APS)
GOUDIE INVESTMENTS, LLC
BK 1357, PG 347, 2021
PPIN 27694
CPID 2-041P-34-000.00
FORREST COUNTY INDUSTRIAL PARK COMMISSION
BK 729, PG 85, 1995
PPIN 27692
CPID 2-041P-34-007.00
CONTINENTAL RAILS, INC
BK 1292, PG 290, 2018
CPID 2-041P-34-007.00
S19°40'24"E 124.38' (APR)
S19°38'01"E 124.38' (APS)
S19°38'01"E 195.77' (APR)
S19°40'00"E 195.77' (APS)
SYLVIA L WEATHERFORD
BK 692, PG 51, 1993
PPIN 27697
CPID 2-041P-34-008.00
160' (APR)
S19°28'53"E 160.09' (APS)
R = 705.00' (APR) 705.00' (APS)
L = 198.38' (APR) 198.37' (APS)
CBD = N62°55'56"E 197.72' (APS)
N70°20'00"E 25.27' (APR)
N70°22'58"E 25.23' (APS)
S19°40'00"E 239.71' (APR)
S19°42'27"E 239.64' (APS)
S28°58'14"E 198.90' (APR)
S30°48'14"E 200.28' (APS)
±1.29 ACRES
(±56,079 SF)
POINT OF BEGINNING:
N19°40'00"W 175.00' (APR)
N19°34'54"W 174.92' (APS)
S20°12'34"E 94.94' (APR)
S16°05'13"E 95.00' (APS)
S89°55'59"W 270.02' (APR)
N89°59'08"W 270.09' (APS)
N89°57'41"W 402.24' (APR)
N89°52'58"W 402.05' (APS)
672.6' (APR)
N89°55'27"W 672.13' (APS)
FORREST COUNTY INDUSTRIAL PARK
BK 729, PG 82, 1995
PPIN 28191
CPID 2-041P-34-009.00
DARLEEN J LEVY
BK 957, PG 679, 2005
PPIN 27686
CPID 2-041P-34-000.00
This is to Certify that I have made a Survey of the Parcel shown and described hereon
Richard E Sullivan, PLS
Mississippi Land Surveyor No. 3276
RICHARD E. SULLIVAN
LICENSED PROFESSIONAL LAND SURVEYOR
08-03-2026
STATE OF MISSISSIPPI
sdw Engineering Progress
301 Second Ave. | Hattiesburg, MS 39401 | (p) 601.544.1821 | sd-w.com

EXHIBIT C
Legal Description of 24.99 acres of Subject Property

1. SURVEY BOUNDARY DESCRIPTION 24.99 Acres

State of Mississippi
County of Forrest
City of Hattiesburg

A part of the Southeast ¼, in Section 34, Township 4 North, Range 13 West, in the City of Hattiesburg, County of Forrest, State of Mississippi and being more particularly described using Mississippi State Plane Coordinate System, East Zone Grid, NAD 83(2011), US Survey Feet, with a combined scale factor of 0.9999681623 and a convergence angle of (minus) -0°13'54.47" at the Northeast Corner of said Southeast ¼, and **Beginning** at a 4 Inch Square Concrete Monument representing said Northeast Quarter Section Corner and having a Grid Value of **N 642,700.20 feet** and **E 844,712.35 feet** on said East Zone Grid, said Corner also being a Point on the South Right of Way Line of JM Tatum Industrial Drive, a public roadway; thence run S00°16'15"W along the East Line of said Southeast ¼ for 546.24 feet to a ¼ Inch Rebar representing the Northwest Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 377, Page 185, thereof on file in the Office of the Chancery Clerk said County & State, thence run S00°32'04"W along said East Line for 114.94 feet to a ½ Inch Round Iron Pin representing the Southwest Corner of said Parcel, thence run S00°05'40"W along said East Line for 335.61 feet to a ½ Inch Iron Rod representing the Southwest Corner of Parcel of Land described as Parcel 2 in a Warranty Deed found in Land Records Book 926, Page 104, thereof on file in the Office of the Chancery Clerk said County & State, thence run S00°09'37"W along said East Line for 331.39 feet to a 4 Inch Square Concrete Monument representing the Southeast Corner of the Northeast ¼ of said Southeast ¼ and the Northeast Corner of the Southeast ¼ of said Southeast ¼, thence run S00°06'01"W along said East Line for 703.58 feet to a 5/8 Inch Rebar

representing the Southeast Corner of the now Vacated Gulfway Subdivision and the now Vacated Gulfway Heights Subdivision, as per Plats or Maps thereof on file in the Office of the Chancery Clerk said County & State, said Corner also being the Northeast Corner of Parcel of Land described in a Warranty Deed found in Land Records Book 957, Page 679, thereof on file in the Office of the Chancery Clerk said County & State, said Corner having a Grid Value of **N 640,668.45 feet** and **E 844,705.98 feet** on said East Zone Grid, thence run N89°52'58"W along the South Line of said Subdivisions and the North Line of said Parcel for 402.05 feet to a ½ Inch Round Iron Pin representing the Southeast Corner of Lot 3, Block 1 of said Vacated Gulfway Subdivision, thence run N16°05'13"W along the East Line of said Lot 3 for 95.00 feet to a ½ Inch Rebar representing the Northwest Corner of Lot 1 and the Southwest Corner of Lot 2, both in said Block 1, thence run N30°48'14"W along said East Lot Line and its Northwesterly Extension for 200.28 feet to a ¾ Inch Crimp Top Pin, thence run Southwesterly along an Arc to the Right for 198.37 feet to a ¾ Inch Crimp Top Pin, said Arc having a Radius of 705.00 feet, a Chord Bearing of S62°55'56"W and a Chord Distance of 197.72 feet, thence run S70°22'58"W for 25.23 feet to a ¾ Inch Crimp Top Pin representing a Point on the Northeastern Right of Way Line of US Highway 49 and having a Grid Value of **N 640,834.14 feet** and **E 843,975.23 feet** on said East Zone Grid, thence run N19°42'27"W along said Northeastern Right of Way Line for 239.64 feet to a ¾ Inch Crimp Top representing the Southwesterly Extension of the Southeastern Line of Lot 11, Block 7 of said Vacated Gulfway Subdivision, thence run N70°16'54"E along said Southeastern Lot Line and its Extension for 175.00 feet to a ½ Inch Rebar representing the Southeastern Corner of said Lot 11, thence run N19°34'44"W along the Northeastern Line of said Lot 11 for 160.00 feet to a ¾ Inch Round Iron Pin representing the Northeastern Corner of said Lot 11, thence run S70°18'36"W along the Northwestern Line of said Lot 11 and its Extension for 174.73 feet to a ¾ Inch Crimp Top Pin representing a Point on said Northeastern Highway Right of Way Line, thence run N19°38'01"W along said Northeastern Right of Way Line for 195.77 feet to a ½ Inch Rebar representing the Southwestern Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1292, Page 290, thereof on file in the Office of the Chancery Clerk said County & State, thence run N70°23'26"E along the Southeastern Line of said Parcel for 349.96 feet to a ½ Inch Rebar representing the Southeastern Corner of said

Parcel, thence run N19°33'56"W along the Northeastern Line of said Parcel for 124.38 feet to a ½ Inch Rebar representing the Northeastern Corner of said Parcel and the Southeastern Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1357, Page 347, thereof on file in the Office of the Chancery Clerk said County & State, thence continue N19°33'56"W along the Northeastern Line of said Parcel for 356.04 feet to a ½ Inch Rebar representing the Northeastern Corner of said Parcel and the Southwestern Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 854, Page 703, thereof on file in the Office of the Chancery Clerk said County & State and having a Grid Value of **N 641,965.18 feet** and **E 843,944.03 feet** on said East Zone Grid, thence run N70°18'12"E along the Southeastern Line of said Parcel for 380.08 feet to ½ Inch Rebar representing the Southeastern Corner of said Parcel, thence run Northwesterly along an Arc to the Right and the Northeastern Line of said Parcel for 156.31 feet to a ½ Inch Rebar representing the Northeastern Corner of said Parcel and a Point on the South Line of a Parcel of Land described in a Warranty Deed found in Land Records Book 751, Page 274, thereof on file in the Office of the Chancery Clerk said County & State, said Arc having a Radius of 809.50 feet, a Chord Bearing of N15°36'41"W and a Chord Distance of 156.07 feet, thence run N89°48'26"E along the South Line of said Parcel for 340.91 feet to a ¾ Inch Crimp Top Pin representing the Southeast Corner of said Parcel, thence run N00°01'01"W along the East Line of said Parcel for 456.03 feet to a ¾ Inch Crimp Top Pin representing the Northeast Corner of said Parcel and a Point on said South Right of Way Line of JM Tatum Industrial Drive and a Point on the North Line of said Southeast ¼, thence run S89°42'13"E along said South Right of Way Line and said North Quarter Section Line for 111.71 feet to the **Point of Beginning**, comprising **24.99 Acres**, more or less.

EXHIBIT D
Legal Description of 1.29 acres of Subject Property

2. SURVEY BOUNDARY DESCRIPTION 1.29 Acres

State of Mississippi
County of Forrest
City of Hattiesburg

A part of the Southeast ½ of the Southeast ¼, in Section 34, Township 4 North, Range 13 West, in the City of Hattiesburg, County of Forrest, State of Mississippi and being more particularly described using Mississippi State Plane Coordinate System, East Zone Grid, NAD 83(2011), US Survey Feet, with a combined scale factor of 0.9999681623 and a convergence angle of (minus) -0°13'54.47" at the Northeast Corner of said Southeast ¼ of Section 34, and **Commencing** at a 4 Inch Square Concrete Monument representing said Northeast Corner and having a Grid Value of **N 642,700.20 feet** and **E 844,712.35 feet** on said East Zone Grid, said Corner also being a Point on the South Right of Way Line of JM Tatum Industrial Drive, a public roadway, thence run N89°42'13"W along said South Right of Way Line and the North Line of said Southeast ¼ for 111.71 feet to ¾ Inch Crimp Top Pin, thence run N89°38'20"W along said South Right of Way Line and said North Quarter Section Line for 1,199.91 feet to a Square Concrete Monument, thence run S52°14'47"W along said South Right of Way Line for 92.34 feet to a Square Concrete Monument representing the Intersection of said South Right of Way Line and the Northeastern Right of Way Line of US Highway 49, thence run S19°35'00"E along said Northeastern Highway Right of Way Line for 853.46 feet to ½ Inch Rebar representing the Northwest Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1357, Page 347, thereof on file in the Office of the Chancery Clerk in said County & State, thence run S19°37'41"E along said Northeastern Highway Right of Way Line for 356.21 feet to ½ Inch Rebar representing the Southwest Corner of said Parcel and the Northwestern Corner of a Parcel of Land described in a Warranty Deed found in Land Records Book 1292, Page 290, thereof on file in the Office of the Chancery Clerk in

said County & State, thence run S19°38'01"E along said Northeastern Highway Right of Way Line for 124.38 feet to ½ Inch Rebar representing the Southwest Corner of said Parcel, thence continue S19°38'01"E along said Northeastern Highway Right of Way Line for 195.77 feet to a ¾ Inch Crimp Top Pin representing a Point on said Northeastern Highway Right of Way Line, thence run S19°28'53"E along said Northeastern Highway Right of Way Line for 160.09 feet to a ¾ Inch Crimp Top Pin representing a Point on said Northeastern Highway Right of Way Line, thence run S19°42'27"E along said Northeastern Highway Right of Way Line for 239.64 feet to a ¾ Inch Crimp Top Pin representing a Corner on the Western Line of a Parcel of Land described in a Warranty Deed found in Land Records Book 729, Page 85, thereof on file in the Office of the Chancery Clerk in said County & State and the **Point of Beginning** and having a Grid Value of **N 640,834.14 feet** and **E 843,975.23 feet** on said East Zone Grid; thence run N70°22'58"E along said Western Parcel Line for 25.23 feet to a ¾ Inch Crimp Top Pin, thence run Northeasterly along an Arc to the Left and along said Western Parcel Line for 198.37 feet to a ¾ Inch Crimp Top Pin representing a Point on the Northwesterly Extension of the Eastern Line of Lot 3, Block 1 of the now Vacated Gulfway Subdivision, as per Plat or Map thereof on file in the Office of the Chancery Clerk in said County & State, said Arc having a Radius of 705.00 feet, a Chord Bearing of N62°55'56"E and a Chord Distance of 197.72 feet, thence run S30°48'14"E along said Eastern Lot Line and its Northwesterly Extension and along said Western Parcel Line for 200.28 feet to ½ Inch Rebar representing the Northwest Corner of Lot 1 and the Southwest Corner of Lot 2, both in said Block 1, thence run S16°05'13"E along said Eastern Lot Line and along said Western Parcel Line for 95.00 feet to a ½ Inch Round Iron Pin representing the Southeast Corner of said Lot 3 and a Point on the South Line of said Subdivision, said Corner also being the Southwest Corner of said Parcel and having a Grid Value of **N 640,669.28 feet** and **E 843,303.94 feet** on said East Zone Grid, thence run N89°59'08"W along said South Subdivision Line for 270.09 feet to a ½ Inch Rebar representing the Southwest Corner of said Subdivision and a Point on said Northeastern Highway Right of Way Line, thence run N19°34'54"W along said Northeastern Highway Right of Way Line for 174.92 feet to the **Point of Beginning**, comprising **1.29 Acres (56,079 Square Feet)**, more or less.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Ann Jones**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Approve Agreement between the City of Hattiesburg and the Art Makes Art, Inc. (Abigail Allen) to provide art and theater outreach programming for the City of Hattiesburg and authorize the Mayor to execute and authorize issuance of manual check for the same.**
File Number: 2026-722
Minute Book #

Summary
Approve Agreement between the City of Hattiesburg and the Art Makes Art, Inc. (Abigail Allen) to provide art and theater outreach programming.

Recommendation Statement
I recommend this item for approval.

Please place this on the August 18, 2026 City Council meeting for consideration.

FY 2026/2027 CONTRACTUAL AGREEMENT BETWEEN
Art Makes Art, Inc (Abigail Allen)
AND
THE CITY OF HATTIESBURG

This contract between the City of Hattiesburg (City) and Art Makes Art, Inc. (Abigail Allen) to provide art and theater outreach programing for the City of Hattiesburg whereby the City agrees to pay $20,000 in consideration of the following:

- Theatre, Creative movement and music program lead by Abigail Allen at Thames elementary school and Hawkins elementary school 2026-2027
- Programs begin August and continue through May to 2nd and 3rd graders.

- Hawkins Elementary
  - 2 classes per week.
- Thames Elementary
  - 2 classes per week.
- Classes include theater games, creative movement and dance, meditation, stretching, improvisation and public speaking.
- There will be an end-of-the-year performance at each school that parents and friends and community members may attend. These will be scheduled during the month of April.
- As a result of these classes there will be three guaranteed performances during the school year that parents and friends and community members will attend.
- Provide music therapy across the City of Hattiesburg by providing live music at venues around the city.
- Assist in connection of artist and musicians with venue generating opportunities
- Continue to foster the City of Hattiesburg as an arts incubator and destination

The term of this contract shall be for one (1) year.

Toby Barker
Mayor
City of Hattiesburg

Abigail Allen
Art Makes Art, Inc.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Marybeth Bergin, Director of Transportation and Engineering**

cc: **Betsy Mercier, Director of Parks and Recreation**

Date: **Tuesday, August 18, 2026**

Re: **Approve two-quote purchase to replace the roof of the employee clinic and authorize award of bid to Gable Roofing in the amount of $49,680.00.**
File Number: 2026-663
Minute Book #

Summary
Approve two-quote purchase to replace the roof of the employee clinic and authorize award of bid to Gable Roofing in the amount of $49,680.00.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

AUTHORIZATION PAGE

TPO Commercial Roof System	$49,680.00	**Name:** Ann Jones **Address:** 2101 West 4th Street, Hattiesburg, MS

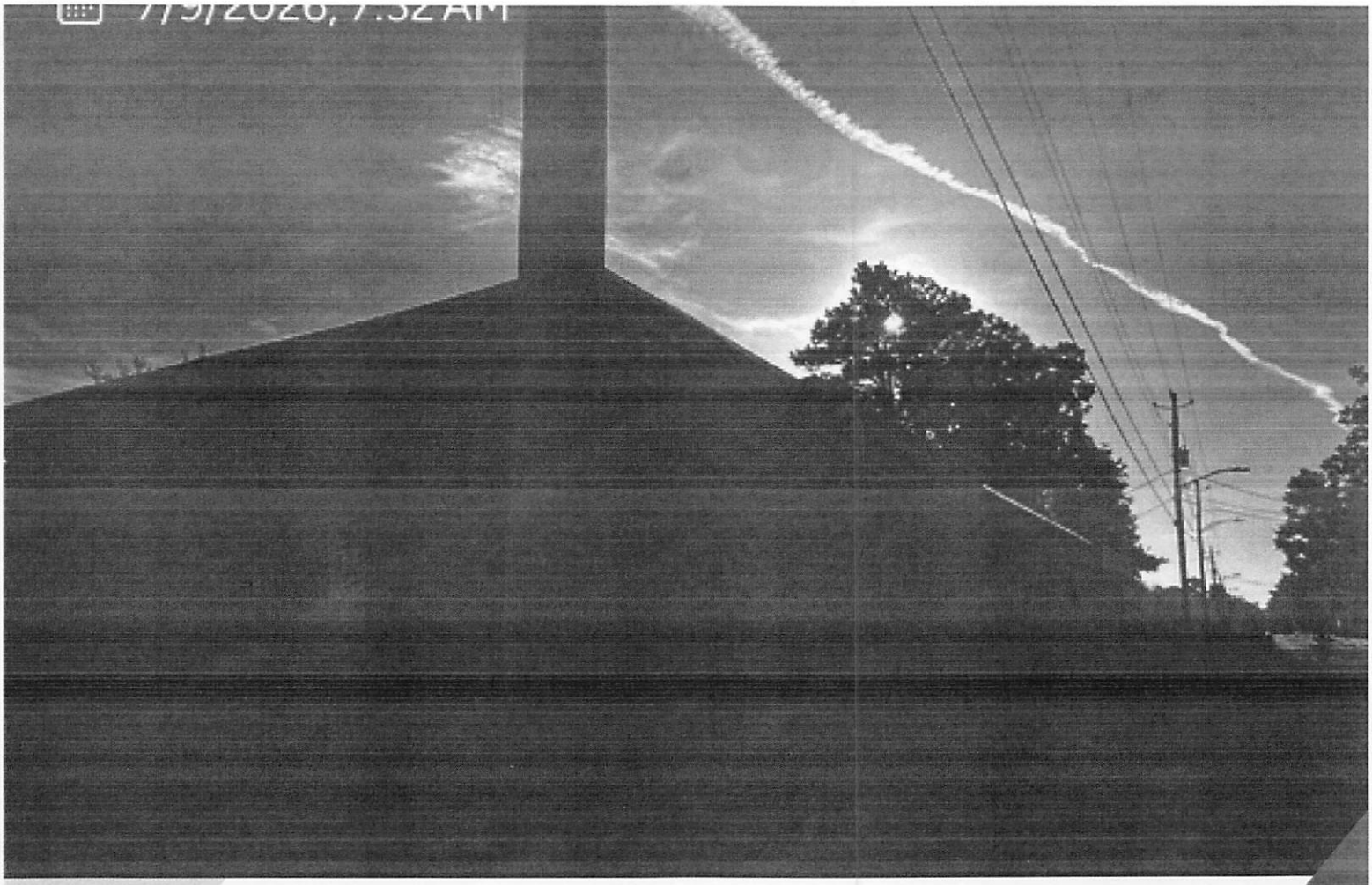
Estimates valid for 30 days from date of estimate / A 50% deposit is required before any project begins

Customer Comments / Notes

Ann Jones: _____ **Date:** _____

GABLE ROOFING

NATIONAL ROOFING CONTRACTORS ASSOCIATION MEMBER



TPO ROOF ESTIMATE

JUL 09, 2026

ANN JONES

2101 West 4th Street
Hattiesburg, MS
39401

caleb@gableroofing.net

INTRODUCTION

Hi Ann,

Thank you for considering us for the repairs to your building. Below you will find the estimate for the project, along with some optional upgrade options for potential improvements.

The estimate includes the following:

1. Removal and disposal of old materials
2. Supply and installation of new materials
3. Complete cleanup of the work area
4. Full safety setup and compliance with property requirements
5. Assigned Field Representative dedicated to your project
6. Manufacturer's audit of all completed work
7. 10 to 20-year warranty on full replacement or full coating projects

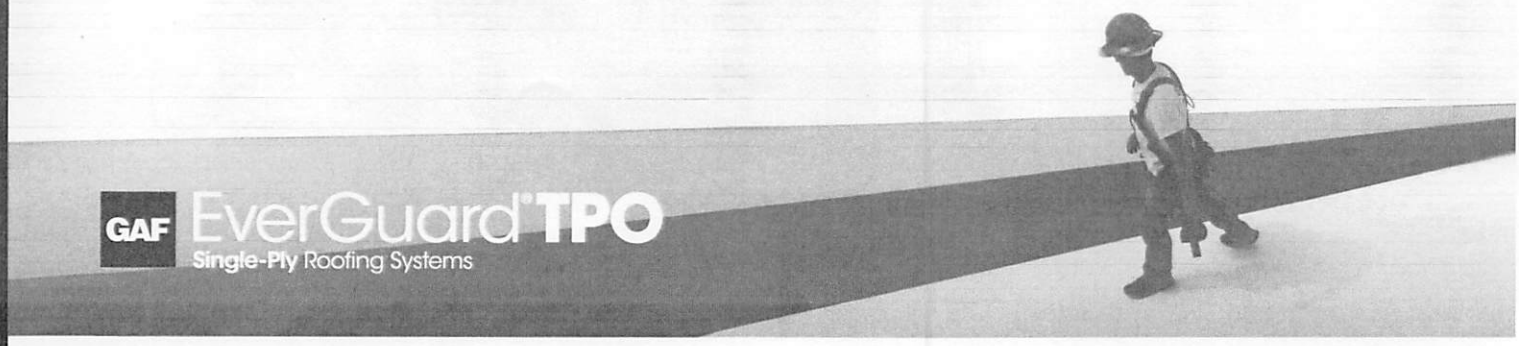
We prioritize safety and want to ensure you are not personally liable in case of any worker injuries. That's why we maintain a rigorous safety program, provide workers' compensation coverage for all employees, and carry $2 million in liability insurance.

Once the job is finished, your Field Representative, along with a qualified commercial roofing inspector from the manufacturer, will conduct a thorough quality control audit. This ensures that your project meets our strict standards and is eligible for warranty approval. Rest assured, we will also ensure that the site is left spotless.

If you have any questions, please don't hesitate to give me a call. We always strive to provide the best value to our clients. If our estimate is outside of your budget, please let me know, and we will do our best to accommodate your needs.

Kind regards,

Caleb Haynes
caleb@gableroofing.net



About **TPO** Roofing

Short for thermoplastic polyolefin, TPO is a single-ply roofing membrane that offers excellent performance and has been the most popular roofing membrane for many years. GAF EverGuard® TPO products offer a balance of long-term performance and state-of-the-art innovation designed to help tackle your specific roofing challenge.

GAF EverGuard® TPO:

- For performance you can count on, the construction of our EverGuard® TPO membrane has remained consistent for decades, during which the company has sold more than 6 billion square feet of membrane
  - A 20-plus year track record for performance
  - GAF studies of 8- to 16-year-old GAF TPO shows performance often meets current ASTM D6878-19 requirements for *new* membranes. Learn more at gaf.com/proven-performance.
- Offers flexibility, durability, UV reflectivity, and heat-sealable properties
- Is naturally fungal-resistant* and flexible without using plasticizers
- Offers cost-effective installation options
- Is supported with specialized training from GAF *Roofing It Right* videos, CARE classes, and unmatched technical support from GAF

GAF EverGuard Extreme® TPO:

- Includes an enhanced weathering package that allows GAF to offer a guarantee of up to 35 years†, the longest in the industry
- Great for high-heat and solar applications

GAF EverGuard® Fleece-Back TPO:

- Factory-applied polyester fleece lets you offer the proven performance of EverGuard® TPO, while increasing system durability
- Provides enhanced puncture resistance against foot traffic, hail, and other impacts‡
- Great for recovers as it does not require a slip sheet and helps reduce labor when installed over a variety of existing roof systems

GAF EverGuard® SA (self-adhered) TPO:

- Ready to install direct from the factory
- All the benefits of EverGuard® TPO, plus easier installation
- Can be installed in temperatures down to 20°F

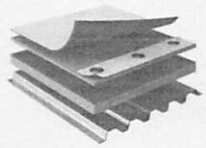
Colors: While standard color options are listed for TPO membranes in this catalog, you can customize your membrane leveraging the industry's largest selection of color options. See Page 19 for more information.

Find out more. In the field for more than 25 years, it's no wonder TPO currently accounts for more than 50% of single-ply roofs being installed today.

* Meets ASTM G21. GAF warranties and guarantees do not provide coverage against fungi or other biological growth. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.
† Additional requirements apply. Contact GAF for more information.
‡ GAF warranties and guarantees do not provide coverage against hail except where additional puncture resistance coverage is purchased on eligible jobs. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

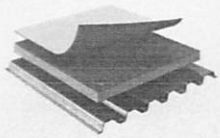
TPO can be installed using a wide variety of installation methods to suit application needs, desired wind uplift and increased puncture resistance, or economical/quick installation. Typical assemblies include:

Mechanically Attached Smooth TPO
with Drill-Tec™ Fasteners



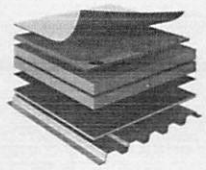
After attaching insulation to the deck, attach the TPO to the deck at the seam, then weld. It's one of the fastest installation methods, with the widest application temperature range, and qualifies for a 30-year warranty.* Ideal for many office buildings.

GAF Quick Spray Adhesive Smooth TPO



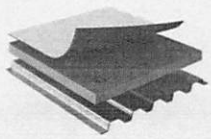
Adhesive is sprayed uniformly on the substrate and membrane underside. When the adhesive dries to a tacky feel, roll out the membrane and apply pressure. One of the fastest installation methods, with excellent finished look and high wind uplift resistance. Qualifies for up to a 35-year guarantee* when using EverGuard Extreme® 80 mil TPO.

Adhered Smooth TPO
with Traditional Bonding Adhesive



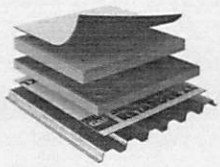
After attaching insulation to the deck, roll adhesive on both the substrate and the membrane and allow to flash off. Weld the membrane at the seams and broom in. This installation method offers a uniform, smooth appearance, minimizes thermal drift, and acts as a vapor barrier. Ideal for warm and windy environments. Adhered installations can qualify for a longer guarantee* duration than mechanically attached installations.

Induction-welded with Smooth TPO



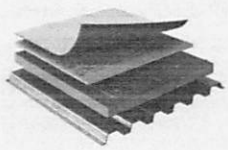
Induction-weld the membrane to plates secured to the insulation layer, then heat-weld the seams. With quick dry-in, no cure time, fumes, or mess, it offers a fast and easy installation in the widest temperature range. Qualifies for up to a 30-year guarantee.* Ideal for office buildings.

EverGuard® SA (Self-Adhered) TPO



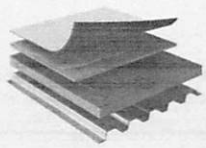
Ready to install straight from the factory, this self-adhered roof membrane can help save time and labor, and can be installed at temps down to 20°F. Seam-weld as usual. Ideal for occupied buildings where solvent odors are a concern. Qualifies for up to a 25 year guarantee.*

Adhered Fleece-back TPO
with Low-rise Foam



Apply adhesive in a spatter pattern, apply the membrane, weld the seams, and smooth with a weighted roller. This membrane installation method is up to 50% faster than installation of smooth membrane with traditional solvent-based bonding adhesive, increasing productivity, requires no expensive equipment, and the fleece backing offers additional puncture resistance.† Qualifies for up to a 35-year guarantee.* Ideal for most environments.

Adhered Fleece-back TPO
with WB181 Wet Lay-in (WB = Water-Based)



Apply adhesive directly to the deck, and roll the TPO membrane into the adhesive while still wet. Weld the seams and broom in. This installation method is faster than traditional solvent-based bonding adhesives, helps reduce labor, offers a uniform appearance, minimizes thermal drift, acts as a vapor barrier, and qualifies for up to a 35-year guarantee.* Fleece backing offers increased puncture resistance.† Ideal for all climates.

* Additional requirements apply. Contact GAF for more information. See GAF warranty guidelines for details.
† GAF warranties and guarantees do not provide coverage against hail except where additional puncture resistance coverage is purchased on eligible jobs. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

INSPECTION

A. Definitions

A.1. "Customer" is identified on the first page and by signature on this contract and defined as the entity or individual who has engaged the Contractor to perform the specified work. This party is responsible for providing access to the site, utility connections, timely decisions, and payments as outlined in the contract.

A.2. Contractor is identified on the first page by letterhead and the entity or individual performing the labor and related services as described in the Scope of Work. The Contractor is responsible for completing the work in a professional and timely manner, adhering to safety laws, and meeting quality standards.

A.3. "Change Order" means a description of changes in the Work, and any increase or decrease in the Contract Price and extension or reduction of Contract Time resulting from such changes, that has been signed by Customer and Contractor.

A.4. "Claim" means a demand or assertion by one of the parties seeking, as a matter of right, payment of money or other relief with respect to the terms of the Construction Documents, and also includes other disputes and matters in question between Customer and Contractor arising out of or relating to the Construction Documents.

A.5. "Concealed Conditions" means physical conditions in existence on the Effective Date located beneath the surface of the ground, or concealed or unknown conditions in an existing structure that Contractor could not have discovered by the exercise of reasonable diligence.

A.6. "Excused Delay" means a delay in Contractor's performance under the terms of this Contract due to acts of God, material availability by Customer, strikes, lockouts, labor shortages, labor restrictions by any governmental authority, civil riot, floods, adverse weather conditions, unavoidable casualties, or any cause beyond the control of Contractor, a Subcontractor, or a Supplier of any tier, that could not have been avoided using reasonable diligence. "Excused Delay" does not include delay resulting from negligence, default, or any condition not constituting an Excused Delay.

A.7. "Improvements" means the buildings, structures, landscaping, and other improvements to be constructed on the Property by Contractor according to Construction Documents.

A.8. "Property" means the real property described in Exhibit A.

A.9. "Substantial Completion" or "Substantially Complete" means that the Improvements have reached the stage at which only minor or cosmetic Work remains to be completed.

A.10. "Work" means the labor, coordination, management, equipment, and other resources and services required to construct the Project.

Terms not defined in this Contract or in the other Construction Documents have the meanings ascribed to them by common usage.

B. Construction Documents

B.1. Construction Documents. This Commercial Construction Contract between Customer and Contractor consists of the following Construction Documents:

Scope of Work attached as **Exhibit B**.

C. The Work

C.1. Work. Contractor will furnish all Work necessary to construct the Project as stated in, or reasonably inferable from, the Construction Documents.

C.2. Reporting Discovered Nonconformity. Contractor will report to Customer Rep any errors or omissions detected in the Contract before the Effective Date and will promptly report to Customer Rep any errors or omissions detected after the Effective Date. Adjustments in this Contract Time and Contract Price may be made by Change Order resulting from errors or omissions that were detected and timely reported to Customer Rep.

C.3. Reporting Concealed Conditions. Contractor will promptly notify Customer Rep if Contractor encounters Concealed Conditions. Contractor will provide Customer with an estimate of any additional

I acknowledge that I have read and understand this page. Initials: _____

costs and impact to the Construction Schedule resulting from the Concealed Conditions. Contractor and Customer will execute a Change Order for any agreed-on changes to the Work.

D. Contractor Obligations. Contractor agrees to perform its obligations under the Construction Documents, including the following:

D.1. Work. Perform the Work in a good and workmanlike manner, free from defects in labor, and in accordance with the Construction Documents and Applicable Law.

D.2. Cooperation. Cooperate with any contractor or supplier engaged by Customer to perform Work at the Project Site to minimize delay and disruption of the Project.

E. Customer Obligations. Customer agrees to perform its obligations under the Construction Documents, including the following:

E.1. Access. Provide Contractor with timely access to the Project Site.

E.2. Utility Connections. Provide utility connections necessary for the Work to the Property line, unless utility extension is part of the Work.

E.3. Supervision of Customer Rep. Require Customer Rep to respond to submissions, including shop drawings, Draw Requests, and requests for clarification, in a timely manner so as not to cause undue delay to the Project.

E.4. Timely Decisions. Make decisions on Allowances, changes, selections, and other decisions in a timely manner so as not to cause undue delay.

E.5. Timely Payments. Make timely payments of amounts owed to Contractor in accordance with Section J.

E.6. Cooperation. Require third-party contractors and vendors performing Work at the Project Site to cooperate with Contractor and to be liable for damages caused to Contractor's Work.

F. Contract Price

F.1. Determination. The Contract Price is Shown on **Page #**.

F.2. Included in Contract Price. The Contract Price includes all costs of the Work ("Costs of Construction").

G. Contract Time

G.1. Construction Schedule. Contractor may prepare and submit to the Customer Rep for approval a Construction Schedule, detailing how Substantial Completion will be achieved by the Substantial Completion Date. Contractor may periodically revise and resubmit the Construction Schedule to Customer Rep upon change orders, Excused Delays, or other events that cause the critical path the Substantial Completion Date to change.

H. Subcontracts

H.1. Subcontracting. Contractor may subcontract all or any part of the Work.

I. [Intentionally Omitted]

J. Payment

J.1. Down Payment, Progress Draws, and Final Payment. The Contract Price is payable through the Down Payment, Progress Draws, and Final Payment as described in this section. Customer will pay fifty percent (50%) of the Contract Price before commencement of the Work (the "Down Payment").

J.2. Progress Payments. On or before the seventh day after the commencement of Construction (the "Draw Date"), when Work is not completed, Contractor will assemble and present to Customer Rep a Draw Request for payment for conforming Work performed since the previous Draw Date.

J.3. Payment of Undisputed Items. Customer Rep will review the Draw Request and advise Customer whether to pay it in full or in part. Contractor will promptly provide any additional documentation reasonably requested and answer any questions on the Draw Request. Customer Rep will prompt notify Contractor of any disputed items in the Draw Request. Customer will have seven days after the later of (a) the Draw Date or (b) the date that Customer Rep received the Draw Request and required documentation, to pay undisputed items. Undisputed items not paid when due will bear interest until paid at the raid specified in the Mississippi Code 1972, Title 87 Chapter 7.

I acknowledge that I have read and understand this page. Initials: _____

J.4. Claims Payment Disputes. Either party may make a Claim in connection with a payment dispute.

J.5. Final Payment. Final payment will be made as follows

a. *Final Draw.* Upon notice from Contractor to Customer that the Work has been completed, Contractor will submit a Final Draw Request. The amount of the final draw ("Final Payment") will be the balance of the Contract Price and change orders after deducting previous payments to Contractor.

J.6. Date of Final Payment. The Final Payment, is due upon Contractor's notice to Customer of completion. A failure to make payment a period in excess of seven days from the due date shall be deemed a material breach of this contract. If payment is not made when due, Contractor may charge Customer interest on the remaining balance at a rate of 5% per month beginning the 7th date past due.

K. Change Orders and Required Changes

K.1. Contract Price and Contract Time. Customer, without invalidating the Contract, may order changes in the Work. All changes must be made by written Change Order, signed by Customer and Contractor, that states the adjustment in the Contract Price and the Contract Time.

L. Claims

L.1. Contractor's Claims. Contractor's Claims for extensions of time or changes to the Contract Price must be submitted to Customer Rep in writing within seven days after the date when the events giving rise to the Claim occurred. Within fourteen days after the submission of such Claim, Contractor will furnish Customer Rep with Contractor's calculations of additional time needed to complete the Work and, if applicable, the anticipated increase to the Costs of Construction and documentation supporting Contractor's Claim. Contractor will furnish additional information in support of such Claims as reasonably required by Customer or Customer Rep. Contractor will proceed with the Work during the pendency of any such Claims.

L.2. Customer Claims. Customer agrees to notify Contractor by email at office@gableroofing.net or by certified mail of any Claim, including Claims for Unexcused Delays and defects in the Work, within five Business Days after Customer becomes aware of the basis for the Claim.

L.3. Mediation. If the dispute is not resolved by the Parties on their own, either party may request mediation of the dispute using a neutral mediator to be agreed on by the parties.

L.4. Litigation. If a resolution is not reached through mediation, either party may pursue litigation.

M. Material Breach

M.1. Customer's Default. Each of the following constitutes a material breach of this Contract by Customer:

a. *Time Defaults.* Failure to timely render of otherwise furnish materials, responses, decisions, or selections according to the Construction Documents.

b. *Payment Defaults.* Failure to comply with Customer's payment obligations under this Contract Payment Schedule.

c. *Substantial Breach.* Substantial breach of any of Customer's obligations under this Contract.

d. *Non-Payment on Other Projects.* Failure to pay outstanding invoices on other projects with Contractor after written notice and a seven-day eure period shall constitute a material breach of this Contract. Contractor may suspend Work until such invoices are paid in full, and any delays resulting from this shall extend the Contract Time accordingly.

M.2. Contractor's Default. Each of the following constitutes a material breach of this Contract by Contractor:

a. *Work Commencement Default.* Failure by Contractor to commend the Work in accordance with the provisions of this Contract.

b. *Work Prosecution Default.* Failure by Contractor to prosecute the Work to completion in a diligent, efficient, timely, workmanlike, skillful, and careful manner and in strict accordance with the provisions of this Contract.

c. *Performance Defaults.* Contractor's persistent failure to perform any of its material obligations under the Contract.

I acknowledge that I have read and understand this page. Initials: _____

N. Remedies

N.1. Customer Remedies

a. *Customer Cure.* If Contractor is in default and does not within then Business Days after receipt of Customer's or Customer Rep's written notice to commence and continue diligent, continuous effort to correct the default, Customer may cure such default and withhold payment from Contractor for the reasonable cost and expenses incurred for Customer's cure.

N.2. Contractor Remedies. Contractor will give written notice to Customer or Customer Rep if Customer is in material breach of Customer obligations under the Construction Documents. The notice will state the specific items of Customer default and notify Customer that Customer must cure the items within ten Business Days of receipt of the notice or Contractor may suspend Work until Customer's material breach is cured or corrected. Contractor may terminate the Contract in accordance with N.3. if suspension of the Work by Contractor under this section continues without Customer cure for thirty or more days.

N.3. Termination. If one party defaults and the default is not cured by exercise of the remedies specified in paragraph N.1. or N.2., upon an additional ten Business Days' prior written notice specifically describing the default, and provided the defaulting party has not commenced diligent, good-faith, continuous, and effective action to cure the default within the ten-day period, this Contract may be terminated by an additional written notice from the non-defaulting party to the defaulting party.

a. *Damages to Contractor.* If termination resulted from an act of default of Customer, Customer will pay to Contractor, within thirty days after written notice from Contractor, an amount equal to all amounts due and owing for the Work performed in accordance with the Construction Documents at the time of the termination, plus 10 percent of the remaining Contract Price to compensate Contractor for the lost profit.

b. *Damages to Customer.* If termination is resulted from an act of default of Contractor, Customer may:

i. *Costs to Complete.* Finish the Work as expeditiously as reasonably possible provided the costs for completion and correction of the Work are reasonable and necessary. If requested, Customer will furnish Contractor a statement of costs in correcting and completing the Work, along with reasonable documentation of such costs. If Customer terminates according to this paragraph, no further payments will be due Contractor until final completion is reached. If, at that time, Customer's costs to complete and correct Work exceed the unpaid balance of the Contract Price, Contractor will pay the difference to Customer upon written demand.

N.4. Excused Delay. If it is determined that Contractor has been delayed by an Excused Delay, the time to complete the Work will be extended by one day for each day of an Excused Delay, unless the delay is due to acts of Customer constituting unreasonable interference with Contractor's ability to perform the Work that continues after notice of the interference is given by the Contractor.

O. Customer's Right to Terminate with Notice.

Customer has the right to terminate this Contract by giving Contractor thirty days' prior written notice of termination. Upon such termination, Contractor will be entitled to payment as described in subparagraph N.3.a.

P. Warranties

P.1. Express Warranty. Contractor warrants to Customer that labor, and equipment furnished under the Contract will be new and of high quality and will be free from defects and that all Work will be performed in a good and workmanlike manner and will conform to the Construction Documents. Work will be considered defective if it does not conform to the Construction Documents.

P.2. Guaranty. Contractor agrees, at is own expense, to replace or repair any faulty workmanship within 5 year(s) from the day of Final Completion. Customer must give notice of the defect at office@gableroofing.net within this 5-year period, and Contractor has up to six months to correct the defect.

Q. Safety

Q.1. Compliance with Applicable Laws. Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on safety of persons and property and their protection from damage, injury, or loss.

R. Limitation of Liability and Indemnity

I acknowledge that I have read and understand this page. Initials: _____

R.1. LIMITATION OF LIABILITY.

By signing this agreement, Customer acknowledges that the Contract Sum paid to Contractor is nominal given the risk of liability associated with performing the Work if liability could not be limited. Customer acknowledges that without the ability to limit liability, the Contractor would be forced to charge Customer much more than the Contract Sum for the Work. Customer acknowledges being given the opportunity to have this agreement reviewed by counsel of his or her own choosing and further acknowledges the opportunity of hiring a different contractor to perform the Work. By signing this agreement, Customer agrees to liability being limited to the amount of the Contract Sum paid by the Customer.

R.2. ***INDEMNITY.*** TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, CUSTOMER SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS CONTRACTOR AND ITS RESPECTIVE OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES, AND AGENTS (COLLECTIVELY, THE "INDEMNITIEES") FROM ALL CLAIMS, SUITS, ACTIONS, PROCEEDINGS, DAMAGES, LOSSES, AND EXPENSES WHATSOEVER, INCLUDING ATTORNEY'S FEES, CONNECTED WITH PERFORMANCE OF THIS CONTRACT OR THE CONSTRUCTION CONTEMPLATED BY OR RELATED TO THIS CONTRACT TO THE EXTENT CAUSED BY THE BREACH OF CONTRACT, NEGLIGENCE, OR OTHER ACT OF OMISSION OF CUSTOMER, ITS OTHER CONTRACTORS, SUBCONTRACTORS, SUB-SUBCONTRACTORS OF ANY TIER, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THEM OR ANYONE FOR WHOSE ACTS THEY MAY BE LIABLE, BUT NOT TO THE EXTENT CAUSED IN WHOLE OR IN PART BY THE ACT OR OMISSION, INCLUDING NEGLIGENCE, OF AN INDEMNITEE.

S. Mississippi law requires a person insured under a property insurance policy to pay any deductible applicable to a claim made under the policy. It is a violation of Mississippi law for a seller of goods or services who reasonably expects to be paid wholly or partly from the proceeds of a property insurance claim to knowingly allow the insured person to fail to pay, or assist the insured person's failure to pay, the applicable.

T. Miscellaneous

T.1. Effect of Invalid Provision. Should any clause in this Contract be found invalid by a court of law, the remainder of the Contract shall not be affected thereby, and all other provisions of this Contract shall remain valid and enforceable.

T.2. Entire Agreement; Modification. The Construction Documents contain the entire agreement between the parties for the construction of the Project and cannot be modified except by written Change Order or modification.

T.3. Nonassignment. This Contract shall not be assigned by Contractor without the written consent of Customer. This limitation shall not apply to Contractor's right to retain Subcontractors for the prosecution of portions of the Work in the normal course of its construction business.

T.4. Execution of Other Documents; Further Action. Each party shall, on demand, execute or obtain such other documents or instruments and corrective filings or instruments and use all commercially reasonable efforts to do or cause such other things as may be reasonably necessary or desirable to effect the provisions and purposes of this Contract.

T.5. Fees and Expenses of Actions. If any litigation (an "Action") is commenced, including an Action for declaratory relief, to enforce or interpret the terms of this Contract, or any document or instrument executed in connection with or pursuant to this Contract, or involving any controversy or Claim between or among the parties to this Contract, whether sounding in contract, tort, or statute, whether through arbitration, probate, bankruptcy, receivership, or other judicial or administrative proceeding, the prevailing party in such Action (the "Prevailing Party") shall be entitled to recover reasonable attorney's fees and costs, and other expenses, costs, and necessary disbursements incurred by the Prevailing Party in the investigation, preparation, pursuit, or defense of any claim asserted by any party in such Action in addition to any other relief to which the Prevailing Party may be otherwise entitled, at law or hereunder, in the amount determined by the fact finder(s) or the court.

T.6. Gender and Number. Unless otherwise required by context, the genders shall include each other and the singular shall include the plural and the plural the singular.

T.7. Headings. Headings, tables of contents, captions, titles, and marginal notations are for convenience only and shall not limit or restrict the

I acknowledge that I have read and understand this page. Initials: _____

interpretation or construction of the passage(s) to which such headings, tables of contents, captions, titles, and notations may relate.

T.8. Notices. Any notice to be given or to be served on any party hereto, in connection with this instrument, must be in writing and may be given in person or by courier, overnight delivery service, e-mail, or certified or registered mail. Such notice shall be deemed to have been given and received when actually received, in the case of hand delivery, overnight delivery service, or express mail; when a certified or registered letter containing such notice, properly address, with postage prepaid, is deposited in the United States mail and, if given by e-mail, when received by the party to whom it is addressed. Notice shall be given to Customer, Customer Rep, and Contractor at the addresses set forth at the beginning of this Contract. Any party hereto may at any time by giving five days' written notice to the other party hereto designate any other address, phone number, or e-mail address in substitution of the address, phone number, or e-mail address set forth at the beginning of this Contract to which such notice shall be given. Customer Rep must be copied on any notice given to Customer.

T.9. Schedules, Addenda, Exhibits, and Attachments. Any schedules, addenda, exhibits, and attachments and other documents or items identified as being attached hereto (the "Exhibits") shall be a part of this Contract for all purposes. Exhibits may be changed from time to time as the parties may agree. When Exhibits are changed, they shall be redrafted in accordance with agreed changes, dated as of the effective date of such changes, and signed by the parties. Copies of changed Exhibits shall become a part of this Contract for all purposes. An Exhibit that has been changed shall cease to be a part of this Contract, and the most recently dated Exhibit, signed by all parties, shall govern.

T.10. Third-Party Beneficiaries; None Created. Nothing expressed or implied in this Contract is intended to confer, nor shall anything herein confer, on any person other than the parties hereto and the respective successors or assigns of the parties hereto, any rights, remedies, obligations, or liabilities whatsoever.

T.11. Waiver. No waiver of any term of this Contract shall be valid unless it is in writing and signed by both parties. The failure of any party at any time or times require performance of any provision hereof shall in no manner affect the right to enforce the provision. No waiver by any party of any condition contained in this Contract, or of the breach of any term, provision, representation, warranty, or covenant contained in this Contract, in any one or more instances, shall be deemed to be or construed as a further or continuing waiver of any such condition or breach or as a waiver of any other condition or of the breach of any other term, provision, representation, warranty, or covenant.

T.12. Independent Contractor. Contractor occupies the status of an independent contractor, as that term is defined in the construction industry.

I acknowledge that I have read and understand this page. Initials: _____

GABLE ROOFING

5-YEAR LIMITED

WARRANTY

At Gable Roofing, LLC, we take pride in the quality of our work. Our workmanship warranty guarantees that any defects or issues arising from improper install will be promptly addressed at no additional cost to you. This warranty covers labor and materials associated with the installation of your roof, ensuring your roofing system is installed correctly and will perform as expected.

In the event of roof leakage caused by an installation issue, please notify Gable Roofing, LLC immediately and we will repair the affected area of the roof at no cost. Additionally, if interior damage occurs as a result of the leak, we will make the necessary repairs to the impacted areas within the property.

What's Covered:

- Defects or failures resulting from improper installation of roofing materials.
- Issues caused by errors in workmanship within five (5) years from the date of installation.

What's Not Covered:

- Damage caused by external factors like severe weather, accidents, or normal wear & tear.
- Material defects (covered instead by manufacturer warranty)
- Homeowner negligence--damage resulting from improper maintenance (it is advised to maintain a clean roof. Do not let pine straw and leaves build up in the valleys. This can cause damage to your roof over time).
- Issues caused by third party contractors or repairs attempted by anyone outside of Gable Roofing, LLC.

R&R ROOFING
AND SHEET METAL

PROPOSAL / CONTRACT

8-4-2026
R&R Roofing Inc.
25 Sunflower Road Foxworth, MS 39483
(601) 736-6886 OFFICE

Project: City of Hattiesburg Parks and Recreation
Employe Clinic
4th Street
Hattiesburg, MS

Dear Sir:
We have prepared the following proposal for your consideration; the scope of the work is as follows:

1) Remove the existing metal roof in its entirety
2) Mechanically attach (2) layers of 2.2" Poly Iso Insulation to the existing deck (R-25 insulation thickness to meet energy code requirements)
3) Furnish and install mew wood nailers to match the new insulation thickness
4) Over the newly installed insulation system install a fully adhered 60 mil TPO roof system
5) Flash all penetrations and perimeters according to the manufacture's specifications
6) Fabricate and install new gutters, down spouts, and eve metals using 24-gage Kynar finished metals
7) Remove all debris generated by our work upon completion
8) Furnish the owner with a (2) year workmanship warranty and a (20) year NDL warrant from the manufacture of the new roof system

We Hereby Propose to furnish labor and material complete in accordance with the above scope of work, for the sum of: **$54,750.00**

Notes: * General Liability and workman's compensation insurance **are included**

- Sales tax **is included**
- R&R Roofing Inc. reserves the right to withdraw this proposal if not accepted within thirty (30) days
- Dumpster and lift fees are included in this proposal
- • Material pricing is good for 60 days.
- • If material price increase between the date of this proposal and time the work is to be performed, the amount of this proposal/ contract may be corrected to reflect any additional cost to obtain the materials

Exclusions:

1) City/ county permits or fees.

2) Electrical. Mechanical, or structural work.
3) Painting
4) Deteriorated decking
5) Anything not listed in our scope of work

Acceptance of proposal By signing below, the above prices, specifications, and conditions are satisfactory and are herby accepted by me a true financial officer to make financial obligations on behalf of my employer. You are authorized to do the work as specified. Payments will be made within 30 days of invoice, if contract amount exceeds $99,000.00 50% of the contract amount will be expected upon delivery of materials.
Any alterations or deviation from above specifications involving extra cost will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements are contingent upon strike, accidents, or delays beyond our control. **Owner shall carry fire, tornado, and builders risk insurance.**

Date accepted: _____

R&R Sheet Metal, Inc. Authorized Signature: **Eli Rowell**

Customer's Signature: _____

CITY OF HATTIESBURG
INVITATION TO SUBMIT TWO-QUOTE BID
City of Hattiesburg Employee Clinic Roof Replacement Project
BID DEADLINE: Friday, July 17, 2026 at 5:00 p.m.

SUBMITTAL INFORMATION
PLEASE READ OUR QUOTE INSTRUCTIONS AND FOLLOW CAREFULLY. QUOTES MUST BE RETURNED ON OR BEFORE THE DATE AND TIME INDICATED.

Quotes may be submitted by one of the following methods:
Mail
City of Hattiesburg - Purchasing Division
P.O. Box 1898 Hattiesburg, MS 39403-1898
Email
twoquote@hattiesburgms.com
or
slondon@hattiesburgms.com
Fax
601-545-6661

NON-SUBMITTAL
If your company does not intend to submit a quotation, the City appreciates notification by mail, email, or fax.

PROJECT CONTACTS
Questions regarding this project or requests to schedule a site visit should be directed to:
Chris Crenshaw
769-299-6760
ccrenshaw@hattiesburgms.com
or
Betsy Mercier
601-325-0350
BMercier@hattiesburgms.com

PROJECT OVERVIEW
The City of Hattiesburg is requesting written quotations from qualified contractors to furnish all labor, equipment, materials, supervision, and incidentals necessary to install a new roof at the City Employee Clinic.

City of Hattiesburg Employee Clinic
2101 West 4th Street
Hattiesburg, MS

CONTRACTOR REQUIREMENTS
The successful contractor shall:

- Hold all licenses required by the State of Mississippi to perform the work described in this solicitation.
- Provide proof of General Liability Insurance and Workers' Compensation Insurance prior to beginning work.
- Verify all field measurements and existing site conditions prior to submitting a quote. Submission of a bid shall constitute acknowledgment that the contractor has reviewed the site and is satisfied with the existing conditions.
- Coordinate all work with the City's designated project representative.
- Protect adjacent buildings, utilities, sidewalks, landscaping, equipment, and other City property during construction.
- Restore any areas disturbed by construction activities to their original condition at no additional cost to the City.
- Maintain a clean worksite throughout the project and remove all debris, unused materials, and equipment upon completion.
- The City of Hattiesburg will obtain any permits required for this project.

SCOPE OF WORK

The contractor shall provide all labor, materials, equipment, and supervision necessary to complete the following work:

1. Remove the existing roofing system in its entirety down to the roof deck.
2. Mechanically attach two (2) layers of 2.2-inch Polyisocyanurate (Poly ISO) insulation to the existing deck to achieve approximately R-25 insulation value and meet applicable code requirements.
3. Install a fully adhered 60-mil TPO roofing system over the new insulation.
4. Flash all penetrations and perimeter conditions in accordance with manufacturer specifications and applicable building codes.
5. Fabricate and install new gutters, downspouts, and eave metals using 24-gauge Kynar-finished metal.
6. Provide a two (2) year workmanship warranty from the contractor.
7. Provide a twenty (20) year manufacturer warranty covering labor and materials for the roofing system.
8. Furnish all equipment necessary to complete the project, including dumpsters and lifts.
9. Remove all demolition materials and construction debris from the project site upon completion.
10. Maintain safe access around the work area and manage pedestrian or vehicle traffic as necessary during construction.

REQUIRED BID SUBMITTAL

Each bid shall include:

- Total lump sum bid price
- Price expiration date
- Estimated project start date
- Estimated project completion date
- Company name
- Authorized representative
- Authorized signature

- Date of submittal

PAYMENT TERMS
Contractor must be able to accept Purchase Order. Payment shall be made in accordance with the purchasing laws of the State of Mississippi. Payment will be issued within forty-five (45) days after receipt of a properly submitted invoice approved by the requesting department. Contractor may submit invoices for completed work in more than one draw.

We hereby propose to furnish all labor, materials, equipment, supervision, and services necessary to complete the project in accordance with these specifications.
Total Lump Sum Bid Price:
$ $ 54,750.00

Estimated Start Date: 9-14-2026

Estimated Completion Date: 9-21-2026

Company Name: R+R Sheet Metal INC.

Authorized Representative: Elijah Rowell President

Signature:

Date: 8-4-2026

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Ann Jones**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Approve two-quote bid to replace roof at 601 East Pine Street building and authorize award of bid to Eddie Pearson Roofing, LLC, in the amount of $22,734.10.**
File Number: 2026-725
Minute Book #

Summary
Approve two-quote bid to replace roof at 601 East Pine Street building and authorize award of bid to Eddie Pearson Roofing, LLC, in the amount of $22,734.10.

Recommendation Statement
I recommend that this bid be accepted and awarded.

Please place this on the August 18, 2026 City Council meeting for consideration.

Master Builders Solutions Ma-XX MasterSeal NP 1 is a one-component, gun-grade, non-priming, high-performance, elastomeric polyurethane sealant. It requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry.	3	$8.33	$24.99
dump fee dumpster and landfill fee	1	$400.00	$400.00
Delivery and Processing Delivery and Processing Expense Advanced and Beacon	1	$150.00	$150.00
Permits for City Cost for pulling permits from the local City Hall	1	$200.00	$200.00
labor for shingle roof install Labor to tear off the roof down to the plywood and install new underlayment and shingles.	58	$190.00	$11,020.00

Quote subtotal	$21,965.31
MPC (3.5%)	$768.79
Total	$22,734.10

City of Hattiesburg: _____ **Date:** _____

Eddie Pearson Roofing LLC

P.O. Box 1528
Hattiesburg, MS

Tristan Freeman
Tristan@epearsonroofing.com

Prepared for:
City of Hattiesburg
601 E pine st
Hattiesburg, MS 39401

Jul 31, 2026

Description	Qty	Unit price	Line total
GAF Timberline® HDZ™ Shingles The same shingle you know and love, now with LayerLock™ Technology, which powers the industry's widest nail zone and first wind warranty with no maximum wind speed limitation.	160	$42.22	$6,755.20
Timbertex® Premium Ridge Cap~XX Timbertex® Premium Ridge Cap Shingles comes with below features: Accentuate the natural beauty of your newly installed architectural shingle roof (or even add dimension and depth to a strip shingle roof) Offer multi-layer protection at the highest-stress areas of your roof (The hips and ridges) Match the performance of your new roof (unlike using typical 20- or 25-year cut-up strip shingles as your ridge cap) Provide a striking and higher-quality alternative to using cut-up strip shingles as your ridge cap Advantages: Stays In Place Dura Grip™ Self-seal Adhesive seals each piece tightly and helps reduce the risk of shingle blow-off Easier to Install: Improved pre-scored design makes hand-tearing pieces easier than ever-no cutting on the roof! StainGuard® Protection: Helps ensure the beauty of your ridge cap shingles against unsightly blue-green algae	10	$71.10	$711.00

Pro-Start® Eave/Rake Starter ~X Pro-Start® Eave/Rake Starter Strip Shingles comes with below features: Made with a high-quality, properly positioned adhesive that will tightly lock your shingles in place to help prevent shingle blow-off Easy to use and install, with no cutting on the roof A cost-effective alternative to using cut-up shingles as your starter course Advantages: Safer: Perforated design eliminates cutting Looks Better: Straighter roof edges and no messy black cement dripping onto your new white edge metal Best Performance: Factory-applied Dura Grip™ Adhesive helps to lock down the roof edges at the eaves and rakes Peace Of Mind: Using starter strips at the eaves and rakes helps to prevent shingle blow off Saves You time and Labor: No more wasted time (or material) cutting your own starter strips-allows you to offer greater homeowner value Easier For Installers: At least 50% more coverage per bundle (vs. typical 3-tab strip shingles) means less to carry and handle on the roof Environmentally Friendly: Reduces landfill waste by eliminating shingle scraps	4	$66.54	$266.16
GAF FeltBuster High-Traction ~X Traditional asphalt felt underlayments tear easily and absorb moisture, leading to wrinkling that telegraphs through the shingles. Competitively priced with typical #15 and #30 asphalt felts, GAF's FeltBuster High-Traction Synthetic Roofing Felt is virtually untearable and will not absorb moisture, helping to prevent wrinkling. Quality roofing underlayment is critical for helping to prevent wind-driven rain from infiltrating under the roof's shingles and potentially damaging the home's structure and interior. Its specially designed surface combines enhanced walkability with a cooler working surface.	6	$123.65	$741.90
StormGuard Film-Surfaced Leak~X StormGuard Leak Barrier will Protect your home by preventing costly repairs due to wall or ceiling staining. Help prevent leaks due to water damming in your gutters, wind-driven rain, and, in the North, damaging ice dams. Create a 100% watertight seal that keeps water out at the most vulnerable areas of your shingle or metal roof (at the eaves and rakes, in valleys, around chimneys, etc.).	2	$124.83	$249.66
1-1/4" Coil Roofing Nails - C~X TRI-BUILT® provides quality residential and commercial building materials that deliver professional results. By focusing on the professional contractor, TRI-BUILT® has become a recognized and trusted leader in the construction industry. From roofing and siding materials, windows, coatings, and more, TRI-BUILT® is a name you can trust at a competitive price.	4	$45.56	$182.24
TRI-BUILT Plastic Cap Nails TRI-BUILT® provides quality residential and commercial building materials that deliver professional results. By focusing on the professional contractor, TRI-BUILT® has become a recognized and trusted leader in the construction industry. From roofing and siding materials, windows, coatings, and more, TRI-BUILT® is a name you can trust at a competitive price.	2	$30.00	$60.00
Georgia Pacific 1/2" x 4' x 8' 4-Ply CDX Plywood Georgia Pacific 1/2" x 4' x 8' 4-Ply CDX Plywood	1	$50.00	$50.00
TRI-BUILT Internally Braced T~X TRI-BUILT® whirlybird for roof ventilation	4	$114.85	$459.40
TRI-BUILT 26 Guage x 5" Galva~X Drip edge for roof eaves	44	$15.79	$694.76

GABLE ROOFING

GAF ROOFING QUOTE

JUL 09, 2026

ANN JONES

601 East Pine Street
Hattiesburg, MS
39401

caleb@gableroofing.net

INTRODUCTION

Hi Ann,

We recognize that safeguarding the people and possessions that hold the most value to you is of utmost importance. Your roof serves as the primary shield against the forces of nature, shielding your home from the elements and ensuring that everything inside remains safe and dry.

Thank you for the opportunity to quote on the repairs and improvements to your home. Please find your estimate below along with upgrade options for potential improvements to your project, if applicable.

The following estimate is for:

1. Removal and disposal of old materials
2. Supply and installation of new materials
3. Clean up of entire work area (all nails and other materials)

We don't want you to be personally liable should a worker happen to get injured therefore, Gable Roofing, LLC is fully licensed and insured to work in your location.

Once the job is complete, we will perform a thorough inspection of your project to make sure we did everything correctly and up to our strict standards and the site is spotless.

If you have any questions, please give me a call. We always want to provide the best value to our clients. If we are outside your budget, please let me know and we will do our best to work within that.

Kind regards,
Caleb Haynes
caleb@gableroofing.net

GABLE ROOFING

CAPABILITY STATEMENT

COMPANY OVERVIEW

Gable Roofing LLC provides full roofing systems and repair services for the residential and commercial roofing sectors. Our quality shingle, metal, and membrane roofing systems are realized by utilizing the right people, skills, and technologies to design and install each roofing system to meet the needs of our clients. This protects not only the structure and occupants, but also increases property value.

Gable Roofing LLC
104 Titus Boulevard, Hattiesburg,
Mississippi, United States 39402
DUNS NO: 12-823-1307
Federal Tax ID: 92-0776613

CORE COMPETENCIES

- Residential & Commercial Roof Replacement
- Storm Damage Restoration & Insurance Claim Support
- Roof Repair & Maintenance Programs
- Installation of Asphalt Shingle, Metal, Tile and Specialty Systems
- Gutter Systems
- Soft-Wash

PAST PERFORMANCE

- **White Oak Grove Apartments - Baldwyn, MS**
  - Multi-family re-roofs, gutters
- **Midtown Apartments - Corinth, MS**
  - Multi-family re-roofs
- **The Pound Cakery - Hattiesburg, MS**
  - Commercial re-roof

DIFFERENTIATORS

- Haag Certified Inspector
- 20+ years combined roofing experience
- 24/7 emergency response team
- 5-Year Workmanship Warranty
- Net-30 In-House Credit Account
- Licensed, bonded, and insured

NAICS CODES

238160 - Roofing Contractors

CERTIFICATIONS

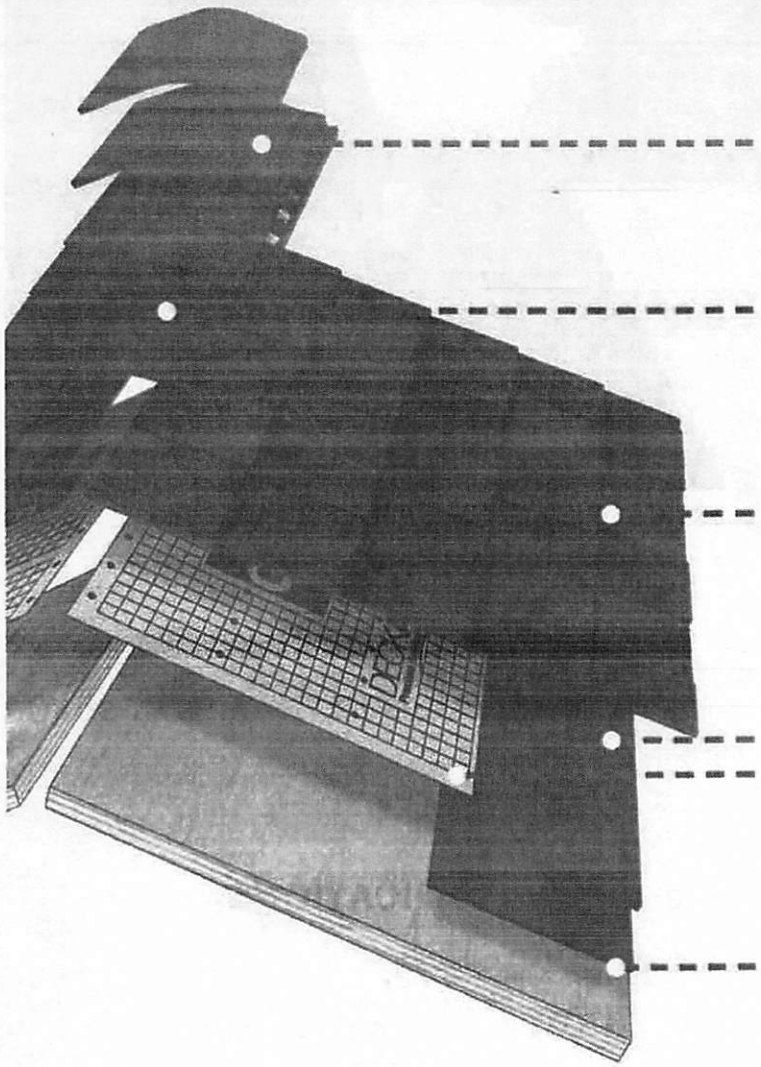
- License #21781 - Mississippi Board of Contractors
- SBA - Woman-Owned Small Business
- NRCA Member
- Hattiesburg Area Development Partnership Member
- Hattiesburg Association of Realtors Member

KEY CLIENTS

- London & Stetelman Commercial Realtors
- CMS Management LLC
- Hall Health and Wellness Solutions
- The Pound Cakery

601 909 4004
office@gableroofing.net
www.gableroofing.net
104 Titus Boulevard, Hattiesburg, MS 39402

The GAF Lifetime[1] Roofing System



6 Ridge Cap Shingles
Helps defend against leaks at the hips and ridges

5 Attic Ventilation
Helps reduce attic moisture and heat

4 Lifetime[1] Shingles
Helps beautify and protect for years to come

3 Starter Strip Shingles
Helps guard against shingle blow-offs

2 Roof Deck Protection
Helps shield the roof deck from moisture infiltration

1 Leak Barrier
Helps prevent leaks caused by wind-driven rain and ice dams

Install any GAF Lifetime[1] shingle and at least 3 qualifying GAF accessories and get a Lifetime[1] Limited Warranty on your qualifying GAF products plus non-prorated coverage for the first 10 years. For even stronger coverage, ask your GAF factory-certified contractor[2] about enhanced GAF warranties.

GAF LIFETIME LIMITED WARRANTY TERM

[1] Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence (or eligible second owner(s)) owns the property where the qualifying GAF products are installed. For other owners/structures, lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime shingles only. See the *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime shingle and at least 3 qualifying GAF accessories. See the *GAF Roofing System Limited Warranty* for complete coverage and restrictions. For installations not eligible for the *GAF Roofing System Limited Warranty*, see the *GAF Shingle & Accessory Limited Warranty*. Visit gaf.com/LRS for qualifying GAF products.

[2] Contractors enrolled in GAF certification programs are not employees or agents of GAF, and GAF does not control or otherwise supervise these independent businesses. Contractors may receive benefits, such as loyalty rewards points and discounts on marketing tools from GAF for participating in the program and offering GAF enhanced warranties, which require the use of a minimum amount of GAF products. Your dealings with a Contractor, and any services they provide to you, are subject to the *Contractor Terms of Use*. Visit gaf.com/gaf-contractor-terms-of-use for details.

GOOD - GAF TIMBERLINE NS

Description	Unit	Qty
SITE PREPARATION & PROTECTION - We take steps to protect your home and property before work begins.		
SHINGLE ROOF PREPARATION (REMOVAL/TEAR OFF) Removed the existing shingles along with current roof system down to the decking (includes one layer of shingles and one layer of felt)	SQ	46
ROOF DECK & FOUNDATION - Your roof is only as strong as what it's built on.		
ROOF DECKING Re-nail loose wood. Any bad/rotten wood discovered will be replaced at $75/sheet (up to 5 sheets are included in this estimate)	EA	5
WATER PROTECTION SYSTEM - This layer helps prevent leaks and moisture intrusion.		
SYNTHETIC UNDERLAYMENT Installed directly on the roof deck providing a secondary layer of protection from the elements, including rain, snow, and wind	RL	5
GAF STORMGUARD® ICE & WATER BARRIER StormGuard® Film-Surfaced Leak Barrier helps prevent leaks due to water backing up in your gutters, wind-driven rain, and in the North, damaging ice dams. It will also help protect your home from expensive wall and ceiling staining from leaks.	RL	1
EDGE & FLASHING PROTECTION - These components help direct water away from your home.		
DRIP EDGE Metal flashing installed at the edges of the roof to help control the flow of water away from the fascia preventing rotting	LF	427
COUNTER FLASHING Additional flashing installed over top of areas where the roof meets a masonry wall	LF	58
STEP FLASHING L-shaped metal flashing installed under shingles against walls ensuring that water flows away from the wall	LF	4
PIPE FLASHING A type of flashing boot installed around the base of plumbing pipe vents and other roof penetrations to waterproof them	EA	1
SHINGLE ROOFING SYSTEM - The visible layer that protects and defines your home's appearance.		
GAF PRO-START® STARTER SHINGLE Pro-Start® Starter Strips are made with a high-quality, properly positioned adhesive applied at the factory to help prevent shingle blow-off.	LF	427
GAF TIMBERLINE NS SHINGLES Install GAF Timberline® NS shingles according to manufacturer specifications	SQ	50.66

HIP & RIDGE FINISH - Designed to seal the highest points of the roof.

GAF SEAL-A-RIDGE® HIP AND RIDGE SHINGLES Seal-A-Ridge® Protective Ridge Cap Shingles offer protection at high stress areas of your roof (the hips and ridges)	LF	147

VENTILATION SYSTEM - Proper ventilation helps regulate attic temperature and moisture.

GAF COBRA® RIGID VENT 3™ Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge allows heat and moisture to escape at the ridge.	LF	133

FINAL CLEAN UP & DISPOSAL - We leave your property clean and safe when the job is complete.

CLEAN UP AND DISPOSAL Cleaned job site and removed all job-related debris. Used magnet broom to sweep site for nails and screws.	EA	

WARRANTY - GAF Silver Pledge Limited Warranty

50-Year, Limited Lifetime Warranty

10-Year Manufacturer-Backed Workmanship Warranty

10-Year StainGuard® Algae Protection against blue-green algae discoloration

Your roof is shielded from wind gusts up to 130 mph

Estimate subtotal	$22,839.30
NO TAX SALES (0%)	$0.00
Total	$22,839.30

BETTER - GAF TIMBERLINE HDZ

Description	Unit	Qty
Everything featured in Good - GAF Timberline NS, including the following upgrades:		
SHINGLE ROOFING SYSTEM - The visible layer that protects and defines your home's appearance.		
GAF TIMBERLINE® HDZ SHINGLES Remove and replace all shingles with GAF Timberline® HDZ shingles including StainGuard Plus™ algae protection.	SQ	50.66
WARRANTY - GAF Golden Pledge Limited Warranty		
50-Year, Limited-Lifetime Warranty		
Lifetime Manufacturer-Backed Workmanship Warranty		
25-Year StainGuard® Algae Protection against blue-green algae discoloration		
The WindProven™ Limited Wind Warranty, is the industry's first wind warranty for shingles with no wind speed limit		
Patented High Definition® shadow bands create exceptional depth and dimension.		

Estimate subtotal	$23,402.33
NO TAX SALES (0%)	$0.00
Total	$23,402.33

BEST - GAF TIMBERLINE UHDZ

Description	Unit	Qty
Everything featured in GAF Timberline NS, including the following upgrades:		
WATER PROTECTION SYSTEM - This layer helps prevent leaks and moisture intrusion.		
GAF FELTBUSTER® SYNTHETIC UNDERLAYMENT FeltBuster® Synthetic Roofing Felt is a value-priced upgrade for typical asphalt felts that helps provide long lasting protection against wind-driven rain from infiltrating under your shingles.	RL	5
SHINGLE ROOFING SYSTEM - The visible layer that protects and defines your home's appearance.		
GAF TIMBERLINE® UHDZ SHINGLES Remove and replace all shingles with GAF Timberline® UHDZ™ (Ultra High Definition) shingles offering a combination of beauty and benefits that go beyond any other GAF shingle.	SQ	50.66
GAF TIMBERTEX® HIP AND RIDGE SHINGLES TimberTex® Ridge Cap Shingles offer excellent protection at high-stress areas of your roof (the hips and ridges).	LF	147
WARRANTY - GAF Golden Pledge Limited Warranty		
50-Year, Limited-Lifetime Warranty		
Lifetime Manufacturer-Backed Workmanship Warranty		
30-Year StainGuard® Algae Protection against blue-green algae discoloration		
The WindProven™ Limited Wind Warranty, is the industry's first wind warranty for shingles with no wind speed limit		
UltraMat™ high-performance fiberglass mat technology enhances the shingle at its core and achieves UL2218 Class 4 impact-resistance rating		

Estimate subtotal	$26,871.78
NO TAX SALES (0%)	$0.00
Total	$26,871.78

AUTHORIZATION PAGE

☐ **Good - GAF Timberline NS**	$22,839.30*	**Name:** Ann Jones
☐ **Better - GAF Timberline HDZ**	$23,402.33*	**Address:** 601 East Pine Street, Hattiesburg, MS
☐ **Best - GAF Timberline UHDZ**	$26,871.78*	

*Includes taxes

Estimates valid for 30 days from date of estimate • You may cancel this transaction without any penalty within three (3) business days of the signed contract.

Customer Comments / Notes

My Product Selections

SHINGLE COLOR - What shingle color do you select for your roof?

MEDIA RELEASE - Do you give Gable Roofing, LLC permission to use photos of my property in advertising and/or social media?

Ann Jones:

Date:

TERMS AND CONDITIONS

[ ] I understand that this contract constitutes the entire understanding of the parties, and no other understanding, collateral or otherwise, shall be binding unless in writing and signed by both parties. The estimate price selected becomes the final contract price unless additional expenses are incurred and agreed upon by myself and Gable Roofing, LLC.

[ ] I understand that all excess materials are property of Gable Roofing, LLC.

[ ] I understand that this estimate is subject to change based on additional work/materials needed once project begins. Any replacement of unseen damage (roof rot, etc.) may be an additional charge, but will be discussed with me prior to replacement.

[ ] I understand that 5 sheets of decking is included in this estimate and that decking will need to be replaced if roof rot is discovered during tear-off. If more than 5 sheets needs to be replaced, a representative from Gable Roofing, LLC will contact me prior to changing the additional sheets out. Decking cost is $75/sheet.

[ ] I understand that Gable Roofing, LLC is not responsible for any damage to my yard, plants, etc. Gable Roofing, LLC takes all measures possible to prevent damage to plants, however accidental damage does occur at times and Gable Roofing, LLC will not be responsible for any damage to plants or outside accessories.

[ ] I understand that it is my responsibility to remove breakables from the walls or interior of the property that could be damaged by the installation process. Gable Roofing, LLC is not liable for such damages.

[ ] I understand that it is my responsibility to remove all valuable items away from the exterior of the property.

[ ] I understand that Gable Roofing, LLC is not responsible for any cracked or damaged driveways.

[ ] I acknowledge that roofing installation requires the use of standard roofing fasteners driven through the roof decking. Gable Roofing, LLC is not responsible for damage to concealed HVAC, mechanical, electrical, or plumbing lines located beneath or in contact with the roof decking that are not visible or reasonably discoverable during installation. I further acknowledge that the 2018 International Residential Code (IRC) requires mechanical and HVAC components to be installed with adequate clearance from the roof decking to prevent fastener damage. Any damage resulting from improperly placed or non-code-compliant concealed components shall be considered a pre-existing condition and is not the responsibility of Gable Roofing, LLC.

[ ] I understand that Gable Roofing, LLC uses heavy duty magnets to remove nails from the yard and does their best to remove all of them, but some nails may remain. Gable Roofing, LLC is not responsible for any damage to my property, person(s), cars, tires, animals (or anything else not listed) resulting from nails left at the job site.

[ ] I understand that by signing this contract, I agree to allow Gable Roofing, LLC to perform the work listed in this estimate.

I acknowledge that I have read and understand this page. Initials:

PAYMENT TERMS & SCHEDULE

To ensure timely scheduling and completion of your project, the following payment terms shall apply unless otherwise agreed to in writing.

Payment Schedule

- **25% Deposit**: Due upon expiration of the three (3) business day cancellation period required by Mississippi law.
- **25% Progress Payment**: Due no later than delivery of materials to the Property.
- **Final Payment**: The remaining balance, including any approved change orders or additional costs incurred during construction, is due upon substantial completion of the Work.

Change Orders & Unforeseen Conditions

Roofing projects may reveal concealed conditions that are not visible during the initial inspection. Any unforeseen repairs discovered after tear-off, including but not limited to damaged decking, framing, ventilation components, flashing, or other substrate-related deficiencies, will be documented and presented for approval through a change order prior to the completion of the additional work.

Cancellation Rights

Customer acknowledges and understands that they have the right to cancel this Agreement within three (3) business days of signing, as provided by applicable Mississippi law. If Customer timely exercises this right of cancellation, any payments made by Customer shall be refunded in accordance with applicable law.

If Customer cancels this Agreement after expiration of the applicable cancellation period, Customer shall be responsible for costs reasonably incurred by Gable Roofing prior to cancellation, including permit fees, material orders, labor, services performed, and other non-recoverable expenses, to the extent permitted by law.

Late Payments

A late fee of ten percent (10%) may be applied to any unpaid balance remaining more than thirty (30) days after the invoice due date.

Completion of Work

For purposes of these payment terms, "completion of the roofing installation" means that the contracted roofing system has been installed and is providing its intended weather protection, regardless of minor punch-list items, warranty registration, closeout documentation, or other administrative items that do not affect the functionality of the roof.

Acceptance

By accepting the estimate and authorizing Gable Roofing to proceed, Customer acknowledges and agrees to these payment terms and conditions.

I acknowledge that I have read and understand this page. Initials: _____

What to Expect on Your Roof Install Day

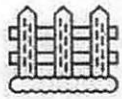
We're excited to take care of your new roof. Roof replacement is a major improvement to your home, and like any construction project, it comes with a few important things to be aware of ahead of time. This guide is designed to help you prepare and avoid surprises.

Roofing Is Construction

On install day, you can expect noise, vibration, crew members working around your home, and materials being moved on and off the roof. Vibration can sometimes reveal pre-existing drywall cracks, nail pops, or ceiling imperfections that were not visible before. These cosmetic issues are not structural damage.

Yard & Landscaping Awareness

Despite reasonable precautions, roofing work involves heavy materials and falling debris. Grass, landscaping, sprinkler heads, decorative rock, soil, or fencing may be affected. Landscaping and yard restoration are not included unless specifically written into your contract.



Inside Your Home

To help protect your belongings, please remove fragile items from walls and shelves, cover or move valuables stored in the attic, and expect some dust or debris in attic spaces.

Before Install Day – Please Help Us By:

- Moving vehicles out of the driveway
- Securing pets indoors or away from the work area
- Unlocking gates or providing access to fenced areas
- Clearing the yard of personal items near the home

What's Included – And What's Not

Your contract clearly outlines the work being performed. Unless specifically written into your agreement, we do not include interior repairs, painting, landscaping or sprinkler repair, or electrical or satellite work.

Scheduling & Weather

Roofing is weather-dependent. Occasionally, weather or unforeseen site conditions may require schedule adjustments. We'll communicate promptly if changes are needed.

THANK YOU FOR TRUSTING US WITH YOUR HOME. WE APPRECIATE THE OPPORTUNITY TO EARN YOUR BUSINESS AND DELIVER A QUALITY ROOF!

601-909-4004

104 Titus Blvd, Hattiesburg, MS www.gableroofing.net office@gableroofing.net

Hearth helps you find monthly payments for your project.

GABLE ROOFING

Rates in under 2 minutes

Review your rates from over a dozen lenders through Hearth's quick and secure application without affecting your credit score.

Easy monthly payments

No surprises. Personal loans through Hearth's lending partners have fixed rates and terms. You'll know your monthly payment upfront. ‡

Get your money fast

Loans typically fund in 1-5 business days. If approved, Hearth's lending partners can deposit cash into your account as soon as 24 hours.†

No prepayment penalties

There are no fees for paying off your loan sooner, saving you time and money.

POINT YOUR CAMERA HERE

See your personalized options:

https://app.gethearth.com/flyers/gable-roofing-llc/justin

HEARTH

Need help? Call Hearth at 512-686-4141

* All loans are subject to credit review and approval. For example, a $10,000 loan with an APR of 14.50% and a term of 36 months would have a monthly payment of $344.21.
† Funding can be as soon as 24 hours and takes 3-5 days on average.
† 0% Financing Option will include a 0% APR during a promotional period only; the promotional period will vary in length among different offers. After the conclusion of the promotional period, higher APRs will be charged. Please consult the disclosures related to any particular card offer.
‡ Our partners can offer lending options from $1,000-$250,000 for terms from 2-12 years.

Hearth is a technology company, which is licensed as a broker as may be required by state law. Hearth does not accept applications for credit, does not make loans, and does not make credit decisions. NMLS ID# 1628533.

TIMBERLINE NS

GABLE ROOFING

Charcoal

Pewter Gray

Weathered Wood

Barkwood

*Special order. Subject to availability. Additional costs apply.

TIMBERLINE HDZ

GABLE ROOFING

Charcoal

Pewter Gray

Weathered Wood

Barkwood

Slate

Hickory

Shakewood*

Oyster Gray*

Driftwood*

Hunter Green*

Mission Brown*

Birchwood*

*Special order. Subject to availability. Additional costs apply.

TIMBERLINE UHDZ

GABLE ROOFING

Charcoal*

Pewter Gray*

Weathered Wood*

Barkwood*

Slate*

Shakewood*

*Special order. Subject to availability. Additional costs apply.

Golden Pledge® Limited Warranty

The Legal Stuff

What is Covered/Excluded. This *Golden Pledge® Limited Warranty* covers certain GAF roofing products installed on your roof (the "GAF Products") including GAF Asphaltic Shingles, GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Leak Barrier Products, GAF Roof Deck Protection Products, GAF Cobra® Attic Ventilation Products, GAF Master Flow™ Attic Exhaust Ventilation Products, and GAF Master Flow™ Pivot™ Pipe Boot Flashing, in the unlikely event that they contain a manufacturing defect. Misapplication of your GAF Products and flashings at valleys, dormers, chimneys, sidewalls, and plumbing vents (the "Covered Flashings") is also covered. Note: This limited warranty does not cover low-slope membranes, other Master Flow™ Products, or GAF ThermaCal® Ventilated Nail Base Roof Insulation. Please go to gaf.com for a copy of the limited warranties covering these products.

How Long Your Warranty Lasts

GAF Shingles	Manufacturing Defect Coverage		Wind Warranty Coverage		Algae Warranty Coverage		Misapplication Coverage****	
	Limited Warranty Term	Smart Choice® Protection	Limited Warranty Term	Wind Speed Coverage (mph / km/h)	Limited Warranty Term	Smart Choice® Protection Period*	Limited Warranty Term	Smart Choice® Protection Period*
Designer Lifetime† Shingles	Lifetime†	50 Years	15 Years	With Special Installation**: 130 / 209 Without Special Installation**: 110 / 175	StainGuardPlus™: 25 Years	StainGuardPlus™: 15 Years	Lifetime†	30 Years
Timberline UHDZ® Timberline® ASII	Lifetime†	50 Years	15 Years	**WindProven™ Limited Wind Warranty***: No maximum wind speed limitation	StainGuard Plus PRO™: 30 years StainGuard Plus™: 25 Years	StainGuard Plus PRO™ & StainGuard Plus™: 15 Years	Lifetime†	30 Years
Timberline HDZ® Timberline HDZ® RS	Lifetime†	50 Years	15 Years	**WindProven™ Limited Wind Warranty***: No maximum wind speed	StainGuard Plus™: 25 Years	StainGuard Plus™: 15 Years	Lifetime†	25 Years

GAF Ridge Cap Shingles	Manufacturing Defect Coverage	Wind Warranty Coverage		Algae Warranty Coverage		Misapplication Coverage****	
		Limited Warranty Term	Wind Speed Coverage (mph / km/h)	Limited Warranty Term	Smart Choice® Protection Period*	Limited Warranty Term	Smart Choice® Protection Period*
TimberTex®, Ridglass®, and TimberCrest®	**Limited Warranty Term** and **Smart Choice® Protection Period*** lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.	15 Years	With Special Installation**: 130 / 209 Without Special Installation**: 110 / 175	StainGuard Plus™: 25 Years	StainGuard Plus™: 15 Years	Lifetime†	Smart Choice® Protection Period lasts as long as the Smart Choice® Protection Period for the type of shingle installed in the field of the roof.
Seal-A-Ridge®, Seal-A-Ridge® AS			90 / 144				
Z® Ridge			With Special Installation**: 90 / 144 Without Special Installation**: 70 / 112				

GAF Starter Strip Shingles	Manufacturing Defect Coverage	Wind Warranty Coverage	Algae Warranty Coverage		Misapplication Coverage****	
			Limited Warranty Term	Smart Choice® Protection Period*	Limited Warranty Term	Smart Choice® Protection Period*
StarterMatch®	**Limited Warranty Term** and **Smart Choice® Protection Period*** lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.	No coverage	StainGuard Plus™: 25 Years	StainGuard Plus™: 15 Years	Lifetime†	Smart Choice® Protection Period lasts as long as the Smart Choice® Protection Period for the type of shingle installed in the field of the roof.
All Other GAF Starter Strip Shingles			No coverage	No coverage		

Other GAF Accessories	Manufacturing Defect Coverage	Wind Warranty Coverage	Algae Warranty Coverage	Misapplication Coverage****	
GAF Leak Barrier Products Eligible FT Solutions™ Leak Barrier Products GAF Roof Deck Protection Products GAF Cobra® Attic Ventilation Products GAF Master Flow™ Non-Powered Attic Exhaust Ventilation Products	**Limited Warranty Term** and **Smart Choice® Protection Period*** lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof.	No coverage	No coverage	Lifetime†	Smart Choice® Protection Period lasts as long as the Smart Choice® Protection Period for the type of shingle installed in the field of the roof.

Other GAF Accessories	Manufacturing Defect Coverage	Wind Warranty Coverage	Algae Warranty Coverage	Misapplication Coverage****	
GAF Master Flow™ Powered Attic Exhaust Ventilation Products	**Limited Warranty Term** and **Smart Choice® Protection Period*** lasts as long as the warranty for manufacturing defects for the type of shingle installed in the field of the roof, **except** that Motorized, Solar, and Electronic Components and Wi-Fi Connectivity (if applicable) are covered for the warranty term stated in the GAF MasterFlow™ Powered Attic Exhaust Ventilation Products Limited Warranty	No coverage	No coverage	Lifetime†	Smart Choice® Protection Period lasts as long as the Smart Choice® Protection Period for the type of shingle installed in the field of the roof.

† **Definition of Lifetime:** The word "Lifetime" means as long as you, the original owner(s) (or the second owner(s) if coverage was properly transferred within the first 20 years), own the property where the shingles and/or accessories are installed. The Lifetime warranty term and Smart Choice® Protection Period noted above are applicable only to shingles and accessories installed on a single-family detached residence owned by individuals. For any other type of owner or building, such as a corporation, governmental entity, religious entity, condominium or homeowner association, school, apartment building, office building, or multi-use structure, See *Golden Pledge® Limited Warranty for Commercial and Multi-Family Properties* for complete coverage and restrictions.

* **Smart Choice Protection Period:** Refers to the crucial period of time following installation of the GAF Products during which the coverage provided for in this limited warranty is non-prorated. After the Smart Choice® Protection Period specified above, the remedy provided for in this warranty may be different than that provided for during the Smart Choice® Protection Period, and any remedy will be reduced to reflect the use you have received from your GAF Products. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the warranty term. For a Lifetime† warranty, GAF's contribution in years 51 and beyond is 20%. After the non-prorated period, GAF's maximum liability for any roof shall NOT exceed three times the reasonable cost of replacement GAF Products before any reduction for use.

** **Special Installation:** Your GAF LayerLock® labeled shingles will be covered up to the maximum wind speed above **ONLY** if installed using **4 nails** per shingle **and** you have GAF Starter Strip Products installed at the eaves **and** rakes. Special Installation for all other GAF Shingles requires use of **6 nails** per shingle **and** GAF Starter Strip Products installed at the eaves **and** rakes. Your GAF Ridge Cap Shingles will be covered up to the maximum wind speed above ONLY if your ridge cap shingles are installed in strict accordance with the "Maximum Wind Speed Coverage Under Limited Warranty" section of the applicable ridge cap shingle application instructions.

*** **WindProven™ Limited Wind Warranty** requires installation of LayerLock®-labeled shingles using 4 nails per shingle, and at least four (4) qualifying accessories.

**** **Misapplication Coverage:** Misapplication Coverage Terms listed above pertain to GAF Shingles and Accessories installed on single-family detached residences owned by individual(s). For other types of owners or buildings, see *Golden Pledge® Limited Warranty for Commercial and Multi-Family Properties* for complete coverage and restrictions.

Golden Pledge® Limited Warranty

Who Is Covered by This Limited Warranty; Transferability
You are covered by this limited warranty if you live in the United States or Canada and are the original property owner (i.e., not a builder or installer) or the first subsequent owner if this warranty was properly transferred.
This limited warranty may be transferred **only once**. The second owner must notify GAF in writing within **one year** after the property transfer for warranty coverage to be transferred. (Other than this one transfer, this warranty may **not** be transferred or assigned, directly or indirectly.) If the transfer takes place within the first 20 years after installation, the second owner is entitled to the same coverage as the original owner. If the transfer takes place afterwards, the length of this warranty shall be reduced to the two-year period after ownership changes. During this two-year period, GAF's reimbursement to the second owner will be based only on the reasonable cost of replacement GAF Products, reduced by the amount of use that has been received from the GAF Products from date of installation through the date of claim.

Manufacturing Defects: What Is Covered/Sole and Exclusive Remedy
GAF Warranty Company, LLC, a subsidiary of GAF, warrants that your GAF Products will remain free from manufacturing defects that adversely affect their performance during the applicable warranty term listed above. **Note:** Wind Warranty and Algae Warranty are covered separately below. For coverage related to Master Flow™ Powered Attic Exhaust Ventilation Products, refer to your *Master Flow™ Powered Attic Exhaust Ventilation Products Limited Warranty Addendum* (if applicable).
(1) During the Smart Choice® Protection Period: GAF will pay you the full reasonable cost of labor to repair or re-cover any defective GAF Product(s) (excluding non-GAF accessories, metal work, or flashings other than Covered Flashings), and will provide replacement GAF Products or the reasonable cost of obtaining replacement GAF Products, at GAF's option. The costs of labor to tear off some or all of your GAF Products and disposal are included if necessary to repair your roof.
(2) After the Smart Choice® Protection Period: The repair or re-cover cost, replacement GAF Products, or reimbursement provided to you will be reduced to reflect the use you have received from your GAF Products. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the warranty term. For a Lifetime† warranty, GAF's contribution in years 51 and beyond will be 20%. After the non-prorated period, GAF's maximum liability for any roof shall NOT exceed three times the reasonable cost of replacement GAF Products before any reduction for use.

WindProven™ Limited Wind Warranty: What Is Covered/Sole and Exclusive Remedy
This limited warranty is **specifically conditioned** on your meeting all eligibility requirements, including installation of **LayerLock®-labeled** shingles, GAF Ridge Cap Shingles, GAF Starter Strip Shingles, and a GAF Roof Deck Protection Product, plus your choice of either a GAF Leak Barrier Product or GAF Attic Ventilation Product, and your **LayerLock®-labeled** shingles being fastened and installed **strictly** in accordance with GAF's application instructions. For installations which do not meet these eligibility requirements, see **Wind Warranty** section below. The limited warranty applies only to your **LayerLock®-labeled** shingles and does not apply to any GAF Accessory Products. GAF warrants to you that your **LayerLock®-labeled** shingles will not fail to seal, blow off, or sustain damage from winds (including gusts) after they should have sealed but did not due to a manufacturing defect. If your **LayerLock®-labeled** shingles do fail to seal, blow off, or suffer wind damage, GAF will reimburse you for the reasonable costs of replacing the blown-off or damaged shingles and hand-sealing any unsealed shingles. Costs related to underlayment, metal work, and flashings are not included. GAF's **maximum** liability under this paragraph is to reimburse you for the cost of hand-sealing all of the **LayerLock®-labeled** shingles on your roof.

Wind Warranty: What Is Covered/Sole and Exclusive Remedy
GAF warrants to you that your GAF shingles and ridge cap shingles will not fail to seal, blow off, or sustain damage from winds (including gusts) up to the applicable wind speed listed above after they should have sealed but did not due to a manufacturing defect or their misapplication. If your shingles or ridge cap shingles do fail to seal, blow off, or suffer wind damage, GAF will reimburse you for the reasonable costs of replacing the blown-off shingles or damaged shingles or ridge cap shingles and hand-sealing any unsealed shingles or ridge cap shingles. Costs relating to metal work and flashings (other than Covered Flashings) are not included. GAF's **maximum** liability under this paragraph is to reimburse you for the cost of hand-sealing all of the shingles and ridge cap shingles on your roof.

Algae Warranty: What Is Covered/Sole and Exclusive Remedy
This limited warranty applies only to shingles, ridge cap shingles, and starter strip shingles sold in packages bearing the **StainGuard Plus PRO™**, **StainGuard Plus™**, or **StainGuard®** logos. GAF warrants to you that blue-green algae (also known as cyanobacteria) will not cause a pronounced discoloration of your **StainGuard Plus PRO™-**, **StainGuard Plus™-** or **StainGuard®-labeled** shingles, ridge cap shingles, or starter strip shingles for the warranty term listed above. If your **StainGuard Plus PRO™-**, **StainGuard Plus™-**, or **StainGuard®-labeled shingles**, ridge cap shingles, or starter strip shingles exhibit a pronounced discoloration caused by blue-green algae during the Smart Choice® Protection Period listed above, GAF's contribution will be either the reasonable cost of commercially cleaning your shingles, ridge cap shingles, or starter strip shingles or, at GAF's sole option, replacing discolored shingles, ridge cap shingles, or starter strip shingles. The **maximum** cost to GAF shall be lesser of the original cost of the affected shingles, ridge cap shingles, or starter strip shingles or the cost to clean the affected shingles, ridge cap shingles, or starter strip shingles. During the **remainder** of the limited warranty **period**, GAF's contribution to you will be reduced to reflect the amount of use you have **received** from your shingles, ridge cap shingles, or starter strip shingles since they were installed. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the Algae Warranty term.
Note: Preventing pronounced algae-related discoloration of your shingles, ridge cap shingles, and starter strip shingles is achieved through formulations or through unique blends of granules.

Misapplication: What Is Covered/Sole and Exclusive Remedy

(1) During the Smart Choice® Protection Period: If any of your GAF Products or Covered Flashings is found to have an application error that adversely affects performance, GAF will arrange to have your roof repaired or re-covered or, at its sole option, will provide you with replacement GAF product(s) and reimburse you for the full reasonable cost of labor and other materials to repair or re-cover your roof, including Covered Flashings. The costs of labor to tear off some or all of your GAF Products and Covered Flashings and disposal are included if necessary to repair your roof.
If your claim arises out of an application error in your GAF Products or Covered Flashings, which is discovered or discoverable within the first two years after installation, it is the obligation of your Master Elite® Roofing Contractor to make all necessary repairs. In the event that GAF determines your Master Elite® Roofing Contractor is unable or unwilling to perform these repairs, GAF will arrange to have your roof repaired if the issues were caused by application errors within the scope of GAF liability under this limited warranty.

(2) After the Smart Choice® Protection Period: The repair or re-cover cost, replacement GAF Products, or reimbursement provided to you will be reduced to reflect the use you have received from your GAF Products. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the warranty term. For a Lifetime† warranty, the number of months for purposes of proration calculation shall be 600 and GAF's contribution in years 51 and beyond will be 20%. After the non-prorated period, GAF's maximum liability for any roof shall NOT exceed three times the reasonable cost of replacement GAF Products before any reduction for use.
NOTE: Failure to install adequate ventilation is **NOT** an application error of your GAF Products and is not covered under this Limited Warranty. Due to the design of certain buildings, the replacement of existing flashings may be difficult, costly, or impractical. GAF is not liable under any circumstances for costs associated with the repair, replacement, or modification of siding or exterior walls, even if such work is necessary to properly flash in accordance with GAF's requirements. Please be sure to review these items with your roofing contractor.

What Is Not Covered
Even if your GAF roducts were not properly installed according to GAF's application instructions or to standard good roofing practices, this limited warranty remains in effect. However, GAF will **NOT** be liable for and this warranty does **NOT** apply to:
(1) Damage resulting from anything other than an inherent manufacturing defect in the GAF Products, their misapplication, or the misapplication of Covered Flashings, such as:
(a) settlement, movement, structural damage, or defects in the building, walls, foundation, or the roof base over which the shingles or accessories were applied.
(b) inadequate ventilation.
(2) Damage resulting from causes beyond normal wear and tear, such as:
(a) acts of nature, such as hail, fire, or winds (including gusts) over the applicable wind speed listed above except there is no maximum wind speed restriction for shingles covered by the *WindProven™ Limited Wind Warranty*.
(b) impact of traffic on the roof or foreign objects, including damage caused by objects blown onto the roof by wind.
(c) improper storage or handling of the GAF Products.
(3) Ice damming, except for leaks in the area of your roof covered by a GAF Leak Barrier which are caused by a manufacturing defect in your GAF Leak Barrier, its misapplication, or the misapplication of Covered Flashings.
(4) Shading or variations in the color of your GAF Products, chipping, fading, or peeling paint on your Master Flow™ Attic Exhaust Vent, or Master Flow™ Pivot™ Pipe Boot Flashing, or discoloration or contamination caused by fungus, mold, lichen, algae (except for blue-green algae if your shingles, ridge cap shingles, or starter strip shingles were labeled with the StainGuard Plus PRO™, StainGuard Plus™, or StainGuard® logos), or other contaminants, including that caued by organic materials on the roof.
(5) Damage caused by, or the cost to repair or replace, products not sold by GAF.
(6) Improperly designed or installed gutter or downspout systems.
(7) Damage to the interior or exterior of the building, including, but not limited to, mold growth.
(8) Damage to or caused by rooftop air-conditioning units (and their flashing), pipe works, brace works, skylights, rooftop satellite dishes or other radio/TV devices, or flashings other than those specifically included above.

Other Limitations Concerning Coverage
Decisions as to the extent of repair, re-cover, or cleaning required, and the reasonable cost of such work, will be made solely by GAF. GAF reserves the right to arrange directly for your GAF Products to be repaired, re-covered, or cleaned instead of reimbursing you for such

Golden Pledge® Limited Warranty

work. The remedy under this warranty is available only for that portion of your GAF Products actually exhibiting manufacturing defects, application errors (including misapplication of Covered Flashings), or algae discoloration at the time your claim is settled. Any replacement GAF Products will be warranted only for the remainder of the original warranty period.
GAF reserves the right to discontinue or modify its shingles or accessories, including the colors available, so any replacement GAF Products may not be an exact match for the GAF Products on your roof. Even if GAF does not modify a color, replacement GAF Products may not match your original GAF Products due to normal weathering, manufacturing variations, or other factors. In the event that GAF is unable to provide replacement products, GAF reserves the right to provide the cash value of those replacement products.

Claims: What You Must Do
You must notify GAF about any claim within **30 days** after you notice a problem. You may report a claim online at gaf.com/contact, by calling GAF at 1-800-458-1860, sending an email to warrantyclaims@gaf.com, or by sending a notice in writing to: GAF, Warranty Claims Department, 1 Campus Drive, Parsippany, NJ 07054, USA. You will then be provided with complete details about submitting your claim. You may be required to send to GAF, at your expense, photographs and sample products for testing. Within a reasonable time after proper notification, GAF will evaluate your claim and resolve it in accordance with the terms of this limited warranty. If you repair or replace your GAF Products before you notify GAF about your claim **or** before GAF has completed its evaluation of your claim, your claim may be denied. If you need to repair or replace your GAF Products before your claim is resolved, you **MUST** provide GAF with reasonable notice. **NOTE: Notice to your contractor, dealer, or homebuilder is NOT notice to GAF.** You should retain this document for your records in the unlikely event that you need to file a claim.

Sole and Exclusive Warranty
THIS LIMITED WARRANTY IS EXCLUSIVE AND REPLACES ALL OTHER WARRANTIES, CONDITIONS, REPRESENTATIONS, AND GUARANTEES, WHETHER EXPRESS OR IMPLIED, WHETHER BY STATUTE, AT LAW OR IN EQUITY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limited warranty is your exclusive warranty from GAF and represents the SOLE REMEDY available to any owner of GAF Products. GAF makes NO OTHER REPRESENTATIONS, CONDITIONS, GUARANTEES, OR WARRANTIES of any kind other than that stated herein. GAF WILL NOT BE LIABLE IN ANY EVENT FOR CONSEQUENTIAL, PUNITIVE, SPECIAL, INCIDENTAL, OR OTHER SIMILAR DAMAGES OF ANY KIND, including DAMAGE TO THE INTERIOR OR EXTERIOR OF ANY BUILDING, whether any claim against it is based upon breach of this warranty, negligence, strict liability in tort, or for any other cause. This limited warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow limitations on or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. New Jersey state residents are encouraged to review their rights under the agreement, as provided under the New Jersey Truth-In-Consumer Contract Warranty and Notice Act ("TCCWNA").

The United Nations Convention on Contracts for the International Sale of Goods shall **NOT** apply either to the sale of the GAF Products or to this limited warranty.

Modification of Warranty
This limited warranty may not be changed or modified except in writing, signed by an officer of GAF. No one (other than an officer of GAF) has the authority to assume any additional or other liability or responsibility for GAF in connection with your GAF Products and Covered Flashings except as described in this limited warranty.

Effectiveness
This limited warranty will not take effect unless all eligibility requirements have been satisfied, this warranty is registered to you, and your roofing contractor has been paid in full.

Important Notice:
THIS IS A SAMPLE GOLDEN PLEDGE® LIMITED WARRANTY. IT IS YOUR CONTRACTOR'S RESPONSIBILITY TO REGISTER YOUR WARRANTY WITHIN 45 DAYS OF INSTALLATION. IF YOU HAVE NOT RECEIVED YOUR WARRANTY FROM GAF WITHIN 60 DAYS, YOU SHOULD CALL GAF AT: 1-888-532-5767, OPTION 5.

GABLE ROOFING

10-YEAR LIMITED

WARRANTY

At Gable Roofing, LLC, we take pride in the quality of our work. Our workmanship warranty guarantees that any defects or issues arising from improper install will be promptly addressed at no additional cost to you. This warranty covers labor and materials associated with the installation of your roof, ensuring your roofing system is installed correctly and will perform as expected and is backed by GAF.

In the event of roof leakage caused by an installation issue, please notify Gable Roofing, LLC immediately and we will repair the affected area of the roof at no cost. Additionally, if interior damage occurs as a result of the leak, we will make the necessary repairs to the impacted areas within the property.

What's Covered:

- Defects or failures resulting from improper installation of roofing materials.
- Issues caused by errors in workmanship within ten (10) years from the date of installation.

What's Not Covered:

- Damage caused by external factors like severe weather, accidents, or normal wear & tear.
- Material defects (covered instead by manufacturer warranty)
- Homeowner negligence--damage resulting from improper maintenance (it is advised to maintain a clean roof. Do not let pine straw and leaves build up in the valleys. This can cause damage to your roof over time).
- Issues caused by third party contractors or repairs attempted by anyone outside of Gable Roofing, LLC.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Ann Jones**

cc: **Ann Jones**

Date: **Tuesday, August 18, 2026**

Re: **Designate the Feel the Beat of Midtown event, to be held Saturday, August 22, 2026, at Midtown Green Park, as a city-approved event for the purposes described in Ordinance No. 3402.**
File Number: 2026-657
Minute Book #

Summary
Designate the Feel the Beat of Midtown event, to be held Saturday, August 22, 2026, at Midtown Green Park, as a city-approved event for the purposes described in Ordinance No. 3402.

Recommendation Statement
I recommend this item approval.

Please place this on the August 18, 2026 City Council meeting for consideration.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/20/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Eventsured Customer Service	
Foresite Sports LLC DBA: Eventsured 3553 West Chester Pike #418 Newtown Square, PA 19073	PHONE (A/C, No, Ext): 888-882-5902	FAX (A/C, No):
	E-MAIL ADDRESS: info@eventsured.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Houston Casualty Company	42374
INSURED Midtown Merchants Association Joel Ingram P O BOX 15039 HATTIESBURG, MS 39404	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** TM511172 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Host Liquor Liability GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC	Y		H25SE00172/TM511172	08/22/2026 12:01AM	08/23/2026 2:01AM	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG DEDUCTIBLE	$ 1,000,000 $ 100,000 $ 1,000 $ 1,000,000 $ 2,000,000 $ 1,000,000 $ 0
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	UMBRELLA LIAB [ ] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] N / A **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below						[ ] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Additional Insureds must be venue managers or municipalities and are added with respect to our insured's operations only. Waiver of Subrogation (WOS) and Primary & Non-Contributory (PNC) wording applies only when coverage is purchased by the insured, required by written contract and as indicated below. This coverage is with respect to the Chamber of Commerce Event to be held on 08/22/2026 - 08/22/2026 with 300 attendees at Midtown Green 309 Crestmont HATTIESBURG, MS 39402. Additional Insureds include: Midtown Green 309 Crestmont HATTIESBURG, MS 39402; City of Hattiesburg.

CERTIFICATE HOLDER

Midtown Green
309 Crestmont
HATTIESBURG MS, 39402

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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MIDTOWN
SOUNDS
FEEL THE BEAT OF MIDTOWN: A LIVE MUSIC FESTIVAL
SATURDAY, AUGUST 22
MIDTOWN GREEN
HATTIESBURG, MISS.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kristen Wilson, Grants Coordinator**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Authorize the acceptance of the FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program Award from the US Department of Justice in the amount of $25,595.00.**
File Number: 2026-654
Minute Book #

Summary
Authorize the acceptance of the FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program Award from the US Department of Justice in the amount of $25,595.00.

Recommendation Statement
I recommend acceptance of the FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program Award from the US Department of Justice in the amount of $25,595.00.

No physical signatures are needed. Award acceptance is electronic.

Please place this on the August 18, 2026 City Council meeting for consideration.

Department of Justice (DOJ)

Office of Justice Programs

Bureau of Justice Assistance

Washington, D.C. 20531

Name and Address of Recipient:	HATTIESBURG CITY CLERK 200 FORREST ST
City, State and Zip:	HATTIESBURG, MS 39401
Recipient UEI:	N4XZJLJ9AVM1

Project Title: City of Hattiesburg & Forrest County Byrne JAG Program FY 2025	**Award Number:** 15PBJA-25-GG-03031-JAGX
Solicitation Title: BJA FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program – Local Formula	
Federal Award Amount: $25,595.00	**Federal Award Date:** 7/31/26
Awarding Agency:	Office of Justice Programs Bureau of Justice Assistance
Award Type:	Initial
Funding Instrument Type:	Grant
Opportunity Category: M **Assistance Listing:** 16.738 - Edward Byrne Memorial Justice Assistance Grant Program	
Project Period Start Date: 10/1/24	**Project Period End Date:** 9/30/28
Budget Period Start Date: 10/1/24	**Budget Period End Date**: 9/30/28

Project Description:

The City of Hattiesburg in coordination with Forrest County proposes to increase both entities capacity to carry out daily law enforcement operations in a more efficient and successful manner. The entities have entered into a MOU which is attached to this proposal.

The requests are as follows:

The City of Hattiesburg requests an Automatic License Plate Recognition (ALPR) System. This system will enhance the capabilities of our interdiction team and overall patrol operations. With this ALPR technology, the City will be able to automatically scan and capture vehicle license plates in real-time, checking them against law enforcement databases to identify stolen vehicles, wanted individuals, AMBER Alerts, expired tags, and other investigative leads. Through this investment, the Hattiesburg Police Department will significantly increase its capacity to decrease criminal activity through more successful and effective investigative work. The system's cost will be $23,723.80. The proportion of the request that is to be available to the City of Hattiesburg will be $15,718.00. The City of Hattiesburg, through the Hattiesburg Police Department budget, commits to the remainder of the cost for this important system.

The Forrest County Board of Supervisors requests additional inventory of seven portable radios and seven remote microphones. The County has chosen the Motorola R7 800 MHz Portable Radios and Microphones as its best option. This increase in inventory will help maintain facility security, coordinate inmate movement, and respond to emergencies in a more effective manner. With the current inventory the Forrest County Jail has, daily operations are no longer sufficient. This investment will increase the capabilities of the Forrest County Jail to

allow for one-to-one assignments of radios to correctional and transport staff, which in turn, ensure continuous and reliable communication throughout the facility. With the addition of this new technology, response times will be improved, coordination among staff will be enhanced, and jail operations will steadily increase safely and efficiently. The cost of new radios will be $9,877.00.

Award Letter

July 31, 2026

Dear Toby Barker,

On behalf of the Attorney General, it is my pleasure to inform you the Office of Justice Programs (OJP) has approved the application submitted by HATTIESBURG CITY CLERK for an award under the funding opportunity entitled 2025 BJA FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program – Local Formula. The approved award amount is $25,595.
Review the Award Instrument below carefully and familiarize yourself with all conditions and requirements before accepting your award. The Award Instrument includes the Award Offer (Award Information, Project Information, Financial Information, and Award Conditions) and Award Acceptance. For COPS Office and OVW funding the Award Offer also includes any Other Award Documents.

Please note that award requirements include not only the conditions and limitations set forth in the Award Offer, but also compliance with assurances and certifications that relate to conduct during the period of performance for the award. These requirements encompass financial, administrative, and programmatic matters, as well as other important matters (e.g., specific restrictions on use of funds). Therefore, all key staff should receive the award conditions, the assurances and certifications, and the application as approved by OJP, so that they understand the award requirements. Information on all pertinent award requirements also must be provided to any subrecipient of the award.

Should you accept the award and then fail to comply with an award requirement, DOJ will pursue appropriate remedies for non-compliance, which may include termination of the award and/or a requirement to repay award funds.

Prior to accepting the award, your Entity Administrator must assign a Financial Manager, Grant Award Administrator, and Authorized Representative(s) in the Justice Grants System (JustGrants). The Entity Administrator will need to ensure the assigned Authorized Representative(s) is current and has the legal authority to accept awards and bind the entity to the award terms and conditions. To accept the award, the Authorized Representative(s) must accept all parts of the Award Offer in the Justice Grants System (JustGrants), including by executing the required declaration and certification, within 45 days from the award date.

To access your funds, you will need to enroll in the Automated Standard Application for Payments (ASAP) system, if you haven’t already completed the enrollment process in ASAP. The Entity Administrator should have already received an email from ASAP to initiate this process.

Congratulations, and we look forward to working with you.

Maureen A. Henneberg
Deputy Assistant Attorney General

Office for Civil Rights Notice for All Recipients

The Office for Civil Rights (OCR), Office of Justice Programs (OJP), U.S. Department of Justice (DOJ) enforces federal civil rights laws and other provisions that prohibit discrimination by recipients of federal financial assistance from OJP, the Office of Community Oriented Policing Services (COPS), and the Office on Violence Against Women (OVW).

Several civil rights laws, including Title VI of the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973, require recipients of federal financial assistance (recipients) to give assurances that they will comply with those laws. Taken together, these and other civil rights laws prohibit recipients from discriminating in the provision of services and employment because of race, color, national origin, religion, disability, and sex or from discriminating in the provision of services on the bases of age.

Some recipients of DOJ financial assistance have additional obligations to comply with other applicable nondiscrimination provisions like the Omnibus Crime Control and Safe Streets Act of 1968, which prohibits discrimination on the basis of religion in addition to race, color, national origin, and sex. Recipients may also have related requirements regarding the development and implementation of equal employment opportunity programs.

OCR provides technical assistance, training, and other resources to help recipients comply with civil rights obligations. Further, OCR administratively enforces civil rights laws and nondiscrimination provisions by investigating DOJ recipients that are the subject of discrimination complaints. In addition, OCR conducts compliance reviews of DOJ recipients based on regulatory criteria. These investigations and compliance reviews permit OCR to evaluate whether DOJ recipients are providing services to the public and engaging in employment practices in a nondiscriminatory manner.

For more information about OCR, your civil rights and nondiscrimination responsibilities, how to notify your employees or beneficiaries of their civil rights protections and responsibilities and how to file a complaint, as well as technical assistance, training, and other resources, please visit www.ojp.gov/program/civil-rights-office/outreach. If you would like OCR to assist you in fulfilling your civil rights or nondiscrimination responsibilities, please contact us at askOCR@ojp.usdoj.gov or www.ojp.gov/program/civil-rights-office/about#ocr-contacts.

Memorandum Regarding NEPA

NEPA Letter Type

OJP - Ongoing NEPA Compliance Incorporated into Further Developmental Stages

NEPA Letter

All BJA awards are subject to the National Environmental Policy Act (NEPA, 42 U.S.C. 4321 et seq.) and other related federal laws (including the National Historic Preservation Act), if applicable. Award recipients (and subrecipients, as applicable) must support BJA's compliance with NEPA by providing details about their project, its location, and any resources that might be affected. BJA complies with NEPA (and other related federal laws) for an award-funded activity by evaluating the environmental impacts of the activity in one of three levels of analysis: a Categorical Exclusion (CATEX), an Environmental Assessment (EA), or an Environmental Impact Statement (EIS). See https://bja.ojp.gov/funding/nepa-guidance for additional information regarding NEPA implementation.

Carefully review the conditions on this award for information about any requirements specific to NEPA compliance for this award.

After completion of any required environmental analysis, throughout the term of this award the recipient must inform BJA of (1) any change(s) that it is considering making to the previously assessed activity that may be relevant to environmental impact; or (2) any proposed new activities or changed circumstances that may require assessment as to environmental impact, such as new activities that involve the use of chemicals or involve construction or major renovation. The recipient may not implement a proposed change or new activity until BJA, with the assistance of the recipient, has determined whether the proposed change or new activity (or changed circumstances) will require additional review under NEPA. Approval for implementation will not be unreasonably withheld as long as any requested modification(s) is consistent with eligible program purposes and found acceptable under an approved environmental impact review process.

Questions about NEPA compliance may be directed to your grant manager.

NEPA Coordinator

First Name	Middle Name	Last Name
Chris	no value	Casto

Award Information

This award is offered subject to the conditions or limitations set forth in the Award Information, Project Information, Financial Information, and Award Conditions.

Recipient Information

Recipient Name

UEI
N4XZJLJ9AVM1

Street 1
200 FORREST ST

Street 2

City
HATTIESBURG

State/U.S. Territory
Mississippi

Zip/Postal Code
39401

Country
United States

County/Parish

Province

Award Details

Federal Award Date
7/31/26

Award Type
Initial

Award Number
15PBJA-25-GG-03031-JAGX

Supplement Number
00

Federal Award Amount
$25,595.00

Funding Instrument Type
Grant

Assistance Listing Number	Assistance Listings Program Title
16.738	Edward Byrne Memorial Justice Assistance Grant Program

Statutory Authority

Pub. L. No. 90-351, Title I, Part E, subpart 1 (codified at 34 U.S.C. 10151-10158); see also 28 U.S.C. 530C(a)

[ ] *I have read and understand the information presented in this section of the Federal Award Instrument.*

Project Information

This award is offered subject to the conditions or limitations set forth in the Award Information, Project Information, Financial Information, and Award Conditions.

Solicitation Title
2025 BJA FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) Program – Local Formula

Awarding Agency
OJP

Program Office
BJA

Application Number

Grant Manager Name	Phone Number	E-mail Address
Hannah Aanenson	202-826-4046	Hannah.Aanenson@usdoj.gov

Project Title
City of Hattiesburg & Forrest County Byrne JAG Program FY 2025

Performance Period Start Date	Performance Period End Date
10/01/2024	09/30/2028

Budget Period Start Date	Budget Period End Date
10/01/2024	09/30/2028

Project Description

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The requests are as follows:

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[ ] *I have read and understand the information presented in this section of the Federal Award Instrument.*

Financial Information

This award is offered subject to the conditions or limitations set forth in the Award Information, Project Information, Financial Information, and Award Conditions.

[ ] *I have read and understand the information presented in this section of the Federal Award Instrument.*

Award Conditions

This award is offered subject to the conditions or limitations set forth in the Award Information, Project Information, Financial Information, and Award Conditions.

Condition 1
Compliance with general appropriations-law restrictions on the use of federal funds (FY 2025)
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 that may be set out in applicable appropriations acts are indicated at https://ojp.gov/funding/Explore/FY25AppropriationsRestrictions.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.

Condition 2
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.

Among other things, 28 C.F.R. Part 38 states that recipients may not use direct Federal financial assistance from the Department of Justice to support or engage in any explicitly religious activities except when consistent with the Establishment Clause of the First Amendment to the U.S. Constitution and any other applicable requirements. An organization receiving Federal financial assistance also may not, in providing services funded by the Department of Justice or in outreach activities related to such services, discriminate against a program beneficiary or prospective program beneficiary 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. In addition, Part 38 states that a faith-based organization that participates in a Department of Justice funded program retains its independence from the Government and may continue to carry out its mission consistent with religious freedom and conscience protections in Federal law.

Recipients and subrecipients that provide social services under this award must give written notice to beneficiaries and prospective beneficiaries prior to the provision of services (if practicable) which shall include language substantially similar to the language in 28 CFR Part 38, Appendix C, sections (1) through (4). A sample written notice may be found at https://www.ojp.gov/program/civil-rights-office/partnerships-faith-based-and-other-neighborhood-organizations.

In certain instances, a faith-based or religious organization may be able to take religion into account when making hiring decisions, provided it satisfies certain requirements. For more information, see “Nondiscrimination provisions and the Religious Freedom Restoration Act,” accessible at https://www.ojp.gov/funding/explore/legaloverview2025/civilrightsrequirements.

Condition 3
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 https://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.

Condition 4
All subawards ("subgrants") must have specific federal authorization

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements for authorization of any subaward. This condition applies to agreements that -- for purposes of federal grants administrative requirements -- OJP considers a "subaward" (and therefore does not consider a procurement "contract").

The details of the requirement for authorization of any subaward are posted on the OJP website at https://ojp.gov/funding/Explore/SubawardAuthorization.htm (Award condition: All subawards ("subgrants") must have specific federal authorization), and are incorporated by reference here.

Condition 5
Specific post-award approval required to use a noncompetitive approach in any procurement contract that would exceed the Simplified Acquisition Threshold

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, as set forth in the Federal Acquisition Regulations (FAR). See the definition of simplified acquisition threshold in the FAR at 48 CFR part 2, subpart 2.1. 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 website at https://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 Simplified Acquisition Threshold)), and are incorporated by reference here.

Condition 6
Federal Civil Rights and Nondiscrimination Laws (certification)

The recipient agrees that its compliance with all applicable Federal civil rights and nondiscrimination laws is material to the government's decision to make this award and any payment thereunder, including for purposes of the False Claims Act (31 U.S.C. 3729-3730 and 3801-3812), and, by accepting this award, certifies that it does not operate any programs (including any such programs having components relating to diversity, equity, and inclusion) that violate any applicable Federal civil rights or nondiscrimination laws.

Condition 7
Requirements of the award; remedies for non-compliance or for materially false statements

The conditions of this award are material requirements of the award. Compliance with any assurances or certifications submitted by or on behalf of the recipient that relate to conduct during the period of performance also is a material requirement of this award.

Limited Exceptions. In certain special circumstances, the U.S. Department of Justice ("DOJ") may determine that a legal notice regarding award requirements is necessary or that it will not enforce, or enforce only in part, one or more requirements otherwise applicable to the award. Any such notice or exception regarding enforcement, including any such notice or exception made during the period of performance, is (or will be during the period of performance) set out through the Office of Justice Programs ("OJP") webpage entitled "Legal Notices: Special circumstances as to particular award conditions" (ojp.gov/funding/Explore/LegalNotices-AwardReqts.htm), and incorporated by reference into the award.

By signing and accepting this award on behalf of the recipient, the authorized recipient official accepts all material requirements of the award, and specifically adopts, as if personally executed by the authorized recipient official, all assurances or certifications submitted by or on behalf of the recipient that relate to conduct during the period of performance.

Failure to comply with one or more award requirements -- whether a condition set out in full below, a condition incorporated by reference below, or an assurance or certification related to conduct during the award period -- may result in OJP taking appropriate action with respect to the recipient and the award. Among other things, the OJP may withhold award funds, disallow costs, or suspend or terminate the award. DOJ, including OJP, also may take other legal action as appropriate.

Any materially false, fictitious, or fraudulent statement to the federal government related to this award (or concealment or omission of a material fact) may be the subject of criminal prosecution (including under 18 U.S.C. 1001 and/or 1621, and/or 34 U.S.C. 10271-10273), and also may lead to imposition of civil penalties and administrative remedies for false claims or otherwise (including under 31 U.S.C. 3729-3730 and 3801-3812).

Should any provision of a requirement of this award be held to be invalid or unenforceable by its terms, that provision shall first be applied with a limited construction so as to give it the maximum effect permitted by law. Should it be held, instead, that the provision is utterly invalid or -unenforceable, such provision shall be deemed severable from this award.

Condition 8
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.

Condition 9
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 DOJ in 2 C.F.R. Part 2800 (together, the "Part 200 Uniform Requirements"), including, without limitation, the provisions regarding termination in 2 C.F.R. 200.340, apply to this award from OJP.

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

Record retention and access: Records pertinent to the award that the recipient (and any subrecipient ("subgrantee") at any tier) must retain -- typically for a period of 3 years from the date of submission of the final expenditure report (SF 425), unless a different retention period applies -- and to which the recipient (and any subrecipient ("subgrantee") at any tier) must provide access, include performance measurement information, in addition to the financial records, supporting documents, statistical records, and other pertinent records indicated at 2 C.F.R. 200.334.

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.

Condition 10
Reporting potential fraud, waste, and abuse, and similar misconduct

The recipient, and any subrecipients ("subgrantees") at any tier, 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) online submission accessible via the OIG webpage at https://oig.justice.gov/hotline/contact-grants.htm (select "Submit Report Online"); (2) mail directed to: U.S. Department of Justice, Office of the Inspector General, Investigations Division, ATTN: Fraud Detection Office, 950 Pennsylvania Ave., NW, Washington, DC 20530; and/or (3) by facsimile directed to the DOJ OIG Investigations Division (Attn: Grantee Reporting) at (202) 616-9881 (fax).

Additional information is available from the DOJ OIG website at https://oig.justice.gov/hotline.

Condition 11
Requirements related to "de minimis" indirect cost rate

A recipient that is eligible under the Part 200 Uniform Requirements and other applicable law to use the "de minimis" indirect cost rate described in 2 C.F.R. 200.414(f), and that elects to use the "de minimis" indirect cost rate, must advise OJP in writing of both its eligibility and its election, and must comply with all associated requirements in the Part 200 Uniform Requirements. The "de minimis" rate may be applied only to modified total direct costs (MTDC) as defined by the Part 200 Uniform Requirements.

Condition 12
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 "DOJ Grants Financial Guide").

Condition 13
Requirement for data on performance and effectiveness under the award

The recipient must collect and maintain data that measure the performance and effectiveness of work 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 of 2010, and other applicable laws.

Condition 14
Compliance with DOJ Grants Financial Guide

References to the DOJ Grants Financial Guide are to the DOJ Grants Financial Guide as posted on the OJP website (currently, the "DOJ Grants Financial Guide" available at https://ojp.gov/financialguide/DOJ/index.htm), including any updated version that may be posted during the period of performance. The recipient agrees to comply with the DOJ Grants Financial Guide.

Condition 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 28 C.F.R. § 42.106(d), 28 C.F.R. § 42.405(c), and 28 C.F.R. § 42.505(f), which contain notice requirements that covered recipients must follow regarding the dissemination of information regarding federal nondiscrimination requirements.

Condition 16

Determination of suitability to interact with participating minors

SCOPE. This condition applies to this award if it is indicated -- in the application for the award (as approved by DOJ)(or in the application for any subaward, at any tier), the DOJ funding announcement (solicitation), or an associated federal statute -- that a purpose of some or all of the activities to be carried out under the award (whether by the recipient, or a subrecipient at any tier) is to benefit a set of individuals under 18 years of age.

The recipient, and any subrecipient at any tier, must make determinations of suitability before certain individuals may interact with participating minors. This requirement applies regardless of an individual's employment status.

The details of this requirement are posted on the OJP web site at https://ojp.gov/funding/Explore/Interact-Minors.htm (Award condition: Determination of suitability required, in advance, for certain individuals who may interact with participating minors), and are incorporated by reference here.

Condition 17
Requirement to disclose whether recipient is designated "high risk" by a federal grant-making agency outside of DOJ

If the recipient is designated "high risk" by a federal grant-making agency outside of DOJ, currently or at any time during the course of the period of performance under this award, the recipient must disclose that fact and certain related information to OJP by email at OJP.ComplianceReporting@ojp.usdoj.gov. For purposes of this disclosure, high risk includes any status under which a federal awarding agency provides additional oversight due to the recipient's past performance, or other programmatic or financial concerns with the recipient. The recipient's disclosure must include the following: 1. The federal awarding agency that currently designates the recipient high risk, 2. The date the recipient was designated high risk, 3. The high-risk point of contact at that federal awarding agency (name, phone number, and email address), and 4. The reasons for the high-risk status, as set out by the federal awarding agency.

Condition 18
Employment eligibility verification for hiring under the award

1. The recipient (and any subrecipient at any tier) must--

A. Ensure that, as part of the hiring process for any position within the United States that is or will be funded (in whole or in part) with award funds, the recipient (or any subrecipient) properly verifies the employment eligibility of the individual who is being hired, consistent with the provisions of 8 U.S.C. 1324a(a)(1).

B. Notify all persons associated with the recipient (or any subrecipient) who are or will be involved in activities under this award of both--

(1) this award requirement for verification of employment eligibility, and

(2) the associated provisions in 8 U.S.C. 1324a(a)(1) that, generally speaking, make it unlawful, in the United States, to hire (or recruit for employment) certain aliens.

C. Provide training (to the extent necessary) to those persons required by this condition to be notified of the award requirement for employment eligibility verification and of the associated provisions of 8 U.S.C. 1324a(a)(1).

D. As part of the recordkeeping for the award (including pursuant to the Part 200 Uniform Requirements), maintain records of all employment eligibility verifications pertinent to compliance with this award condition in accordance with Form I-9 record retention requirements, as well as records of all pertinent notifications and trainings.

2. Monitoring

The recipient's monitoring responsibilities include monitoring of subrecipient compliance with this condition.

3. Allowable costs

To the extent that such costs are not reimbursed under any other federal program, award funds may be obligated for the reasonable, necessary, and allocable costs (if any) of actions designed to ensure compliance with this condition.

4. Rules of construction

A. Staff involved in the hiring process

For purposes of this condition, persons "who are or will be involved in activities under this award" specifically includes (without limitation) any and all recipient (or any subrecipient) officials or other staff who are or will be involved in the hiring process with respect to a position that is or will be funded (in whole or in part) with award funds.

B. Employment eligibility confirmation with E-Verify

For purposes of satisfying the requirement of this condition regarding verification of employment eligibility, the recipient (or any subrecipient) may choose to participate in, and use, E-Verify (www.e-verify.gov), provided an appropriate person authorized to act on behalf of the recipient (or subrecipient) uses E-Verify (and follows the proper E-Verify procedures, including in the event of a "Tentative Nonconfirmation" or a "Final Nonconfirmation") to confirm employment eligibility for each hiring for a position in the United States that is or will be funded (in whole or in part) with award funds.

C. "United States" specifically includes the District of Columbia, Puerto Rico, Guam, the Virgin Islands of the United States, and the Commonwealth of the Northern Mariana Islands.

D. Nothing in this condition shall be understood to authorize or require any recipient, any subrecipient at any tier, or any person or other entity, to violate any federal law, including any applicable civil rights or nondiscrimination law.

E. Nothing in this condition, including in paragraph 4.B., shall be understood to relieve any recipient, any subrecipient at any tier, or any person or other entity, of any obligation otherwise imposed by law, including 8 U.S.C. 1324a(a)(1).

Questions about E-Verify should be directed to DHS. For more information about E-Verify visit the E-Verify website (https://www.e-verify.gov/) or email E-Verify at E-Verify@dhs.gov. E-Verify employer agents can email E-Verify at E-VerifyEmployerAgent@dhs.gov.

Questions about the meaning or scope of this condition should be directed to OJP, before award acceptance.

Condition 19
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.

Condition 20
Reclassification of various statutory provisions to a new Title 34 of the United States Code

On September 1, 2017, various statutory provisions previously codified elsewhere in the U.S. Code were editorially reclassified (that is, moved and renumbered) to a new Title 34, entitled "Crime Control and Law Enforcement." The reclassification encompassed a number of statutory provisions pertinent to OJP awards (that is, OJP grants and cooperative agreements), including many provisions previously codified in Title 42 of the U.S. Code.

Effective as of September 1, 2017, any reference in this award document to a statutory provision that has been reclassified to the new Title 34 of the U.S. Code is to be read as a reference to that statutory provision as reclassified to Title 34. This rule of construction specifically includes references set out in award conditions, references set out in material incorporated by reference through award conditions, and references set out in other award requirements.

Condition 21
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.

Condition 22
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 https://www.ojp.gov/funding/implement/training-guiding-principles-grantees-and-subgrantees.

Condition 23
Requirement to report potentially duplicative funding

If the recipient currently has other active awards of federal funds, or if the recipient receives any other award of federal funds during the period of performance for this award, the recipient promptly must determine whether funds from any of those other federal awards have been, are being, or are to be used (in whole or in part) for one or more of the identical cost items for which funds are provided under this award. If so, the recipient must promptly notify the DOJ awarding agency (OJP or OVW, as appropriate) in writing of the potential duplication, and, if so requested by the DOJ awarding

agency, must seek a budget-modification or change-of-project-scope Grant Award Modification (GAM) to eliminate any inappropriate duplication of funding.

Condition 24
Required training for Grant Award Administrator and Financial Manager

The Grant Award Administrator and all Financial Managers 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, 2022, will satisfy this condition.

In the event that either the Grant Award Administrator or a Financial Manager for this award changes during the period of performance, the new Grant Award Administrator or Financial Manager must have successfully completed an "OJP financial management and grant administration training" by 120 calendar days after the date the Entity Administrator enters updated Grant Award Administrator or Financial Manager information in JustGrants. Successful completion of such a training on or after January 1, 2022, 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 https://onlinegfmt.training.ojp.gov/. 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.

Condition 25
Compliance with 41 U.S.C. 4712 (including prohibitions on reprisal; notice to employees)

The recipient (and any subrecipient at any tier) 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.

Condition 26
Potential imposition of additional requirements

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.

Condition 27
Requirement to report actual or imminent breach of personally identifiable information (PII)

The recipient (and any "subrecipient" at any tier) must have written procedures in place to respond in the event of an actual or imminent "breach" (OMB M-17-12) if it (or a subrecipient) -- (1) creates, collects, uses, processes, stores, maintains, disseminates, discloses, or disposes of "Personally Identifiable Information (PII)" (2 CFR 200.1) within the scope of an OJP grant-funded program or activity, or (2) uses or operates a "Federal information system" (OMB Circular A-130). The recipient's breach procedures must include a requirement to report actual or imminent breach of PII to an OJP Program Manager no later than 24 hours after an occurrence of an actual breach, or the detection of an imminent breach.

Condition 28
Requirements related to System for Award Management and Universal Identifier Requirements

The recipient must comply with applicable requirements regarding the System for Award Management (SAM), currently accessible at https://www.sam.gov/. This includes applicable requirements regarding registration with SAM, as well as maintaining the currency of information in SAM.

The recipient also must comply with applicable restrictions on subawards ("subgrants") to first-tier subrecipients (first-tier "subgrantees"), including restrictions on subawards to entities that do not acquire and provide (to the recipient) the unique entity identifier required for SAM registration.

The details of the recipient's obligations related to SAM and to unique entity identifiers are posted on the OJP web site at https://ojp.gov/funding/Explore/SAM.htm (Award condition: System for Award Management (SAM) and Universal Identifier Requirements), and are incorporated by reference here.

This condition does not apply to an award to an individual who received the award as a natural person (i.e., unrelated to any business or non-profit organization that he or she may own or operate in his or her name).

Condition 29
Restrictions on "lobbying"

In general, as a matter of federal law, federal funds awarded by OJP 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. See 18 U.S.C. 1913. (There may be exceptions if an applicable federal statute specifically authorizes certain activities that otherwise would be barred by law.)

Another federal law generally prohibits federal funds awarded by OJP from being used by the recipient, or any subrecipient at any tier, to pay any person to influence (or attempt to influence) a federal agency, a Member of Congress, or Congress (or an official or employee of any of them) with respect to the awarding of a federal grant or cooperative agreement, subgrant, contract, subcontract, or loan, or with respect to actions such as renewing, extending, or modifying any such award. See 31 U.S.C. 1352. Certain exceptions to this law apply, including an exception that applies to Indian tribes and tribal organizations.

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 these prohibitions, the recipient is to contact OJP for guidance, and may not proceed without the express prior written approval of OJP.

Condition 30
Compliance with DOJ regulations pertaining to civil rights and nondiscrimination - 28 C.F.R. Part 54

The recipient, and any subrecipient ("subgrantee") at any tier, must comply with all applicable requirements of 28 C.F.R. Part 54, which relates to nondiscrimination on the basis of sex in certain "education programs."

Among other items, 28 C.F.R. § 54.140 contains notice requirements that covered recipients must follow regarding the dissemination of information regarding federal nondiscrimination requirements.

Condition 31
The recipient understands that, in accepting this award, the Authorized Representative declares and certifies, among other things, that he or she possesses the requisite legal authority to accept the award on behalf of the recipient entity and, in so doing, accepts (or adopts) all material requirements that relate to conduct throughout the period of performance under this award. The recipient further understands, and agrees, that it will not assign anyone to the role of Authorized Representative during the period of performance under the award without first ensuring that the individual has the requisite legal authority.

Condition 32
Verification and updating of recipient contact information

The recipient must verify its Grant Award Administrator, Financial Manager, and Authorized Representative contact information in JustGrants, including telephone number and e-mail address. If any information is incorrect or has changed, the award recipient's Entity Administrator must make changes to contact information through DIAMD. Instructions on how to update contact information in JustGrants can be found at https://justicegrants.usdoj.gov/training/training-entity-management.

Condition 33

FFATA reporting: Subawards and executive compensation

The recipient must comply with applicable requirements to report first-tier subawards ("subgrants") of $30,000 or more and, in certain circumstances, to report the names and total compensation of the five most highly compensated executives of the recipient and first-tier subrecipients (first-tier "subgrantees") of award funds. The details of recipient obligations, which derive from the Federal Funding Accountability and Transparency Act of 2006 (FFATA), are set forth in 2 C.F.R. part 170, Appendix A ("Award Term") and are incorporated by reference here.

This condition, including its reporting requirement, does not apply to-- (1) an award of less than $30,000, or (2) an award made to an individual who received the award as a natural person (i.e., unrelated to any business or non-profit organization that he or she may own or operate in his or her name).

Note: In early March 2025, the reporting system that had been used for subaward reporting, the FFATA (Federal Funding Accountability and Transparency Act) Subaward Reporting System (FSRS) was retired and functionality moved to SAM.gov. For more information, including steps on how to connect your FSRS account to SAM.gov, visit https://sam.gov/fsrs.

Condition 34

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).

Condition 35

Any publication (e.g., curricula, training materials, publications, reports, videos, or any other written, web-based, or audio-visual, or other materials) funded in whole or in part under this award, (with the exception of press releases, websites, and mobile applications), shall contain the following statement: "This project was supported by Grant No. <Award_Number> awarded by the Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice. Points of view or opinions in this document are those of the author and do not necessarily represent the official position or policies of the U.S. Department of Justice."

Any website or mobile application that is funded in whole or in part under this award must include the following statement where most practicable: "This website [or application] was supported by Grant No. <Award_Number> awarded by the Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice. Neither the U.S. Department of Justice nor any of its components operate, control, are responsible for, or necessarily endorse, this website [or application] (including, without limitation, its content, technical infrastructure, and policies, and any services or tools provided)." The full text of the foregoing statement must be clearly visible. The statement may also be included through a link, entitled "Notice of Federal Funding and Federal Disclaimer," to the full text of the statement.

Upon specific request by BJA, the recipient must submit to BJA for review and approval (or, for recipients or subrecipients that are institutions of higher education, review and comment) any publication or product developed under this award at least 30 working days prior to the targeted dissemination date.

The current edition of the DOJ Grants Financial Guide provides additional guidance on allowable printing and publication activities.

Condition 36

Confidentiality of data

The recipient (and any subrecipient at any tier) must comply with all confidentiality requirements of 34 U.S.C. 10231 and 28 C.F.R. Part 22 that are applicable to collection, use, and revelation of data or information. The recipient further agrees, as a condition of award approval, to submit a Privacy Certificate that is in accord with requirements of 28 C.F.R. Part 22 and, in particular, 28 C.F.R. 22.23 for any applicable project.

Condition 37
The recipient agrees to cooperate with any assessments, national evaluation efforts, or information or data collection requests, including, but not limited to, the provision of any information required for the assessment or evaluation of any activities within this project.

Condition 38
Protection of human research subjects

The recipient (and any subrecipient at any tier) must comply with the requirements of 28 C.F.R. Part 46 and all OJP policies and procedures regarding the protection of human research subjects, including obtainment of Institutional Review Board approval, if appropriate, and subject informed consent.

Condition 39
Compliance with 28 C.F.R. Part 23

With respect to any information technology system funded or supported by funds under this award, the recipient (and any subrecipient at any tier) must 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 34 U.S.C. 10231(c)-(d). The recipient may not satisfy such a fine with federal funds.

Condition 40
Justice Information Sharing

Information sharing projects funded under this award must comply with DOJ's Global Justice Information Sharing Initiative (Global) guidelines. The recipient (and any subrecipient at any tier) must conform to the Global Standards Package (GSP) and all constituent elements, where applicable, as described at: https://bja.ojp.gov/program/it/gsp-grant-condition. The recipient (and any subrecipient at any tier) must document planned approaches to information sharing and describe compliance with the GSP and appropriate privacy policy that protects shared information, or provide detailed justification for why an alternative approach is recommended.

Condition 41
Avoidance of duplication of networks

To avoid duplicating existing networks or IT systems in any initiatives funded by BJA for law enforcement information sharing systems that 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 recipient 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.

Condition 42
Law enforcement task forces - required training

Within 120 days of award acceptance, each current member of a law enforcement task force funded with award funds who is a task force commander, agency executive, task force officer, or other task force member of equivalent rank, must complete required online task force training. Additionally, all future task force members must complete this training once during the period of performance for this award, or once every four years if multiple OJP awards include this requirement.

The required training is available free of charge online through the BJA-funded Center for Task Force Integrity and Leadership (www.ctfli.org). The 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. If award funds are used to support a task force, the recipient must compile and maintain a task force personnel roster, along with course completion certificates.

Additional information regarding the training is available through BJA's web site and the Center for Task Force Integrity and Leadership (www.ctfli.org).

Condition 43
Compliance with National Environmental Policy Act and related statutes

Upon request, the recipient (and any subrecipient at any tier) must assist BJA in complying with the National Environmental Policy Act (NEPA), the National Historic Preservation Act, and other related federal environmental requirements in the use of these award funds, either directly by the recipient or by a subrecipient. Accordingly, the recipient agrees to 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 award, the recipient agrees to contact BJA, and follow instructions regarding NEPA compliance.

The activities covered by this 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;
e. Implementation of a program relating to clandestine methamphetamine laboratory operations, including the identification, seizure, or closure of clandestine methamphetamine laboratories; and
f. Any extraordinary or unusual project with potential to have a significant environmental impact.

The recipient 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.

Condition 44
The recipient shall ensure that each DNA analysis conducted under this award will be performed either (1) by accredited government-owned laboratories, or (2) through an accredited fee-for-service vendor. The accreditation must be by an accrediting body that is a signatory to an internationally recognized arrangement and that offers accreditation to forensic science conformity assessment bodies using an accreditation standard that is recognized by that internationally recognized arrangement. Any laboratory conducting STR, Y-STR, or mitochondrial DNA testing undergo external audits not less than once every 2 years that demonstrate compliance with the DNA Quality Assurance Standards established by the Director of the Federal Bureau of Investigation.

If award funds are used for DNA testing of evidentiary materials, recipients shall ensure that any resulting eligible DNA profiles must be uploaded to the Combined DNA Index System ("CODIS," the DNA database operated by the FBI) by a government DNA laboratory with access to CODIS, and, where applicable, uploaded to the National DNA Index System (NDIS). Award funds may be used for forensic genetic genealogy in accordance with United States Department of Justice Interim Policy Forensic Genealogical DNA Analysis and Searching and program requirements. With the exception of Forensic Genetic Genealogy, no profiles generated under this award may be entered or uploaded into any non-governmental DNA database without prior express written approval from BJA. Award funds may not be used for the purchase of DNA equipment and supplies unless the resulting DNA profiles may be accepted for entry into CODIS. Booking agencies should work with their state CODIS agency to ensure all requirements are met for participation in Rapid DNA (see National Rapid DNA Booking Operational Procedures Manual).

The recipient shall ensure that each DNA analysis conducted and each DNA profile generated under this award, and

each stored DNA sample that results from this award, are maintained in accordance with any applicable federal privacy requirements and restrictions on disclosure.

Condition 45
Recipients utilizing award funds for forensic genealogy testing must adhere to the United States Department of Justice Interim Policy Forensic Genealogical DNA Analysis and Searching (https://www.justice.gov/olp/page/file/1204386/download), and must collect and report the metrics identified in Section IX of that document to BJA.

Condition 46
Establishment of trust fund

If award funds are being drawn down in advance, the recipient (or a subrecipient, with respect to a subaward) is required to establish a trust fund account. Recipients (and subrecipients) must maintain advance payments of federal awards in interest-bearing accounts, unless regulatory exclusions apply (2 C.F.R. 200.305(b)(11)). The trust 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 (JAG) Program. The recipient also agrees to obligate the award funds in the trust fund (including any interest earned) during the period of performance for the award and expend within 90 days thereafter. Any unobligated or unexpended funds, including interest earned, must be returned to OJP at the time of closeout.

Condition 47
As of the first day of the period of performance for the award, the recipient may choose to incur project costs using non-federal funds, but any such project costs are incurred at the recipient's risk until, at a minimum-- (1) the recipient makes a valid acceptance of the award, and (2) all applicable withholding conditions are removed by OJP (via an Award Condition Modification (ACM)). (A withholding condition is a condition in the award document that precludes the recipient from expending or drawing down all or a portion of the award funds until the condition is removed.)

Except to the extent (if any) that an award condition expressly precludes reimbursement of project costs incurred "at-risk," if and when the recipient makes a valid acceptance of this award and OJP removes each applicable withholding condition through an Award Condition Modification (ACM), the recipient is authorized to obligate (federal) award funds to reimburse itself for project costs incurred "at-risk" earlier during the period of performance (such as project costs incurred prior to award acceptance or prior to removal of an applicable withholding condition), provided that those project costs otherwise are allowable costs under the award.

Condition 48
Submission of eligible records relevant to the National Instant Background Check System

Consonant with federal statutes that pertain to firearms and background checks -- including 18 U.S.C. 922 and 34 U.S.C. ch. 409 -- if the recipient (or any subrecipient at any tier) uses this award to fund (in whole or in part) a specific project or program (such as a law enforcement, prosecution, or court program) that results in any court dispositions, information, or other records that are "eligible records" (under federal or State law) relevant to the National Instant Background Check System (NICS), or that has as one of its purposes the establishment or improvement of records systems that contain any court dispositions, information, or other records that are "eligible records" (under federal or State law) relevant to the NICS, the recipient (or subrecipient, if applicable) must ensure that all such court dispositions, information, or other records that are "eligible records" (under federal or State law) relevant to the NICS are promptly made available to the NICS or to the "State" repository/database that is electronically available to (and accessed by) the NICS, and -- when appropriate -- promptly must update, correct, modify, or remove such NICS-relevant "eligible records".

In the event of minor and transitory non-compliance, the recipient may submit evidence to demonstrate diligent monitoring of compliance with this condition (including subrecipient compliance). DOJ will give great weight to any such evidence in any express written determination regarding this condition.

Condition 49
Compliance with trauma kit standards
If the recipient uses funds under this award to purchase trauma kits or trauma kit components, the recipient must ensure that the trauma kits purchased meet the performance standards established consistent with 34 U.S.C. §

10202(d), as such standards are in effect at the time of purchase.

Condition 50
Initial period of performance; requests for extension.

The recipient understands that for award amounts of less than $25,000 under JAG, the initial period of performance of the award will be less than four years. The recipient further understands that any requests for an extension of the period of performance for an award of less than $25,000 will be approved automatically for up to a total period of performance of four years, pursuant to 34 U.S.C. 10152(f) and in accordance with the Notice of Funding Opportunity (NOFO) associated with this award.

Any request for an extension of the period of performance beyond a four-year award period will require approval, and the approval (if any) will be at the discretion of OJP.

Condition 51
Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: No public disclosure of certain law-enforcement-sensitive information
SCOPE. This condition applies throughout the entire award period of performance. Its provisions must be among those included in any subaward (at any tier).
1. No use of funds to interfere: No public disclosure of federal law-enforcement information in order to conceal, harbor, or shield.
Consistent with the purposes and objectives of federal law enforcement statutes and federal criminal law (including 8 U.S.C. 1324 and 18 U.S.C. chs. 1, 49, 227), no State or local government entity, agency, or official (including a government-contracted correctional facility) may use funds under this award to make any public disclosure of any federal law-enforcement information in a direct or indirect attempt to conceal, harbor, or shield from detection any fugitive from justice under 18 U.S.C. ch. 49, or any alien who has come to, entered, or remains in the United States in violation of 8 U.S.C. ch. 12—without regard to whether such disclosure would constitute (or could form a predicate for) a violation of 18 U.S.C. 1071 or 1072 or of 8 U.S.C. 1324(a).
2. Noninterference: No public disclosure of federal law-enforcement information in order to conceal, harbor, or shield within the funded “program or activity.”
With respect to the "program or activity" funded in whole or part under this award (including any such program or activity of any subrecipient at any tier), and consistent with federal law as cited in para. 1 of this condition, no State or local government entity, agency, or official (including a government-contracted correctional facility) within the funded program or activity may make any public disclosure of any federal law-enforcement information in a direct or indirect attempt to conceal, harbor, or shield from detection any fugitive from justice under 18 U.S.C. ch. 49, or any alien who has come to, entered, or remains in the United States in violation of 8 U.S.C. ch. 12—without regard to whether such disclosure would constitute (or could form a predicate for) a violation of 18 U.S.C. 1071 or 1072 or of 8 U.S.C. 1324(a).
3. Monitoring. The recipient's monitoring responsibilities include monitoring of subrecipient compliance with this condition.
4. Allowable costs. To the extent that such costs are not reimbursed under any other federal program, award funds may be obligated for the reasonable, necessary, and allocable costs (if any) of actions (e.g., training) designed to ensure compliance with this condition.
5. Rules of construction.
A. For purposes of this condition—
(1) the term "alien" means what it means under section 101 of the Immigration and Nationality Act (see 8 U.S.C. 1101(a)(3));
(2) the term "federal law-enforcement information" means law-enforcement-sensitive information communicated or made available, by the federal government, to a State or local government entity, agency, or official, through any means, including, without limitation—
(a) through any database,
(b) in connection with any law enforcement partnership or task-force,
(c) in connection with any request for law enforcement assistance or -cooperation, or
(d) through any deconfliction (or courtesy) notice of planned, imminent, commencing, continuing, or impending federal law enforcement activity;
(3) the term "law-enforcement-sensitive information" means records or information compiled for any law-enforcement purpose; and
(4) the term "public disclosure" means any communication or release other than one—
(a) within the recipient, or

(b) to any subrecipient (at any tier) that is a government entity.
B. This condition shall be enforceable to the extent that it does not otherwise contravene any express requirement of any federal law, or of any judicial ruling, governing or applicable to the award.
C. The "Rules of Construction" set out in the "Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: information-communication restrictions; ongoing compliance" award condition are incorporated by reference as though set forth here in full.

Condition 52
Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: information-communication restrictions
SCOPE. This condition applies throughout the entire award period of performance. Its provisions must be among those included in any subaward (at any tier).
1. Throughout the entire award period of performance, no State or local government entity, -agency, or -official may use funds under this award (including under any subaward, at any tier) to prohibit or in any way restrict—
(1) any government entity or -official from sending or receiving information regarding citizenship or immigration status to or from DHS; or
(2) a government entity or agency from sending, requesting or receiving, or exchanging information regarding immigration status to, from, or with DHS, or from maintaining such information.
Any prohibition (or restriction) that violates this condition is an "information-communication restriction" under this award.
2. With respect to the "program or activity" funded in whole or part under this award (including any such program or activity of any subrecipient at any tier), throughout the entire award period of performance, no State or local government entity, agency, or official may implement an “information-communication restriction.”
3. The recipient's monitoring responsibilities include monitoring of subrecipient compliance with the requirements of this condition.
4. Allowable costs. Compliance with these requirements is an authorized and priority purpose of this award. To the extent that such costs are not reimbursed under any other federal program, award funds may be obligated for the reasonable, necessary, and allocable costs (if any) that the recipient, or any subrecipient at any tier that is a State or local government incurs to implement this condition.
5. Rules of Construction.
A. For purposes of this condition:
(1) "State" and "local government" include any agency or other entity thereof, but not any public institution of higher education or Indian tribe.
(2) "Program or activity" means what it means under title VI of the Civil Rights Act of 1964 (see 42 U.S.C. 2000d-4a).
(3) "Immigration status" means what it means under 8 U.S.C. 1373 and 8 U.S.C. 1644; and terms that are defined in 8 U.S.C. 1101 mean what they mean under that section 1101, except that "State" also includes American Samoa.
(4) “DHS” means the U.S. Department of Homeland Security.
B. Nothing in this condition shall be understood to authorize or require any recipient, any subrecipient at any tier, any State or local government, or any other entity (or individual) to violate any federal law, including any applicable civil rights or nondiscrimination law.
C. This condition shall be enforceable to the extent that it does not otherwise contravene any express requirement of any federal law, or of any judicial ruling, governing or applicable to the award.

Condition 53
Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: Notice of scheduled release
SCOPE. This condition applies throughout the entire award period of performance. Its provisions must be among those included in any subaward at any tier.
1. No use of funds to interfere with "removal" process: Notice of scheduled release date and time.
Consonant with federal law enforcement statutes—including 8 U.S.C. 1231 (for an alien incarcerated by a State or local government, a 90-day "removal period" during which the federal government "shall" detain and then "shall" remove an alien from the U.S. "begins" no later than "the date the alien is released from ... confinement"; also, the federal government is expressly authorized to make payments to a "State or a political subdivision of the State ... with respect to the incarceration of [an] undocumented criminal alien"); 8 U.S.C. 1226 (the federal government "shall take into custody" certain criminal aliens "when the alien is released"); and 8 U.S.C. 1366 (requiring an annual report to Congress on "the number of illegal alien[felons] in Federal and State prisons" and programs underway "to ensure the prompt removal" from the U.S. of removable "criminal aliens")—no State or local government entity, agency, or official (including a government-contracted correctional facility) may use funds under this award to interfere with the "removal"

process by failing to provide (as early as practicable (see para. 5.B. below)) advance notice to DHS of the scheduled release date and time for a particular alien, if a State or local government (or government-contracted) correctional facility receives from DHS a formal written request pursuant to the INA that seeks such advance notice.
2. Noninterference with "removal" process: Notice of scheduled release date and time within the funded “program or activity.”
With respect to the "program or activity" funded in whole or part under this award (including any such program or activity of any subrecipient at any tier), and consonant with federal law enforcement statutes as cited in para. 1 of this condition, no State or local government entity, agency, or official (including a government-contracted correctional facility) within the funded program or activity may interfere with the "removal" process by failing to provide (as early as practicable (see para. 4.B. below)) advance notice to DHS of the scheduled release date and time for a particular alien, if a State or local government (or government-contracted) correctional facility receives from DHS a formal written request pursuant to the INA that seeks such advance notice.
3. Monitoring. The recipient's monitoring responsibilities include monitoring of subrecipient compliance with this condition.
4. Allowable costs. To the extent that such costs are not reimbursed under any other federal program, award funds may be obligated for the reasonable, necessary, and allocable costs (if any) of actions (e.g., training) designed to ensure compliance with this condition.
5. Rules of construction
A. Nothing in this condition shall be understood to authorize or require any recipient, any subrecipient at any tier, any State or local government, or any other entity or individual to maintain (or detain) any individual in custody beyond the date and time the individual otherwise would have been released.
B. Applicability.
(1) Current DHS practice is ordinarily to request advance notice of scheduled release "as early as practicable (at least 48 hours, if possible)." (See DHS Form I-247A (3/17)). If (e.g., in light of the date DHS made such request) the scheduled release date and time for an alien are such as not to allow for the advance notice that DHS has requested, it shall NOT be a violation of this condition to provide only as much advance notice as, in fact, practicable.
(2) Current DHS practice is to use the same form for a second, distinct purpose—to request that an individual be detained for up to 48 hours AFTER the scheduled release. This condition does NOT encompass such DHS requests for detention.
C. This condition shall be enforceable to the extent that it does not otherwise contravene any express requirement of any federal law, or of any judicial ruling, governing or applicable to the award.
D. The "Rules of Construction" set out in the "Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: Interrogation of certain aliens" award condition are incorporated by reference as though set forth here in full.

Condition 54
Noninterference (with award funds and within the funded "program or activity") with federal law enforcement: Interrogation of certain aliens
SCOPE. This condition applies throughout the entire award period of performance. Its provisions must be among those included in any subaward (at any tier).
1. No use of funds to interfere with statutory law enforcement access to correctional facilities.
Consonant with federal law enforcement statutes and regulations—including 8 U.S.C. 1357(a) (under which certain federal officers and employees "have power without warrant ... to interrogate any alien or person believed to be an alien as to his right to be or to remain” in the United States), and 8 C.F.R. 287.5(a) (under which that power may be exercised "anywhere in or outside” the United States)—no State or local government entity, agency, or official within the funded program or activity may use funds under this award to interfere with the exercise of that power to interrogate "without warrant" (by agents of the United States acting under color of federal law) by impeding access to any State or local government (or government-contracted) correctional facility by such agents for the purpose of "interrogat[ing] any alien or person believed to be an alien as to his [or her] right to be or to remain in the United States."
2. Noninterference with statutory law enforcement access to correctional facilities within the funded “program or activity.”
With respect to the "program or activity" funded in whole or part under this award (including any such program or activity of any subrecipient at any tier), and consonant with federal law enforcement statutes and regulations as cited in para. 1 of this condition, no State or local government entity, agency, or official within the funded program or activity may interfere with the exercise of that power to interrogate "without warrant" (by agents of the United States acting under color of federal law) by impeding access to any State or local government (or government-contracted) correctional facility by such agents for the purpose of "interrogat[ing] any alien or person believed to be an alien as to his [or her] right to be or to remain in the United States."

3. Monitoring. The recipient's monitoring responsibilities include monitoring of subrecipient compliance with this condition.
4. Allowable costs. To the extent that such costs are not reimbursed under any other federal program, award funds may be obligated for the reasonable, necessary, and allocable costs (if any) of actions (e.g., training) designed to ensure compliance with this condition.
5. Rules of construction
A. For purposes of this condition:
(1) The term "alien" means what it means under sec. 101 of the Immigration and Nationality Act (INA) (8 U.S.C. 1101(a)(3)), except that, with respect to a juvenile offender, it means “criminal alien.”
(2) The term “juvenile offender” means what it means under 28 C.F.R. 31.304(f) (as in effect on Jan. 1, 2026.)
(3) The term "criminal alien" means, with respect to a juvenile offender, an alien who is deportable on the basis of—
(a) conviction described in 8 U.S.C. 1227(a)(2), or
(b) conduct described in 8 U.S.C. 1227(a)(4).
(4) The term "conviction" means what it means under 8 U.S.C. 1101(a)(48). (Adjudication of a juvenile as having committed an offense does not constitute "conviction" for purposes of this condition.)
(5) The term "correctional facility" means what it means under 34 U.S.C. 10251(a)(7)) as of Jan. 1, 2026.
(6) The term "impede" includes taking or continuing any action, or implementing or maintaining any law, policy, rule, or practice, that—
(a) is designed to prevent or to significantly delay or complicate, or
(b) has the effect of preventing or of significantly delaying or complicating.
(7) "State" and "local government" include any agency or other entity thereof, but not any public institution of higher education or Indian tribe.
(8) "Program or activity" means what it means under title VI of the Civil Rights Act of 1964 (see 42 U.S.C. 2000d-4a).
B. Nothing in this condition shall be understood to authorize or require any recipient, any subrecipient at any tier, any State or local government, or any other entity (or individual) to violate any federal law, including any applicable civil rights or nondiscrimination law.
C. This condition shall be enforceable to the extent that it does not otherwise contravene any express requirement of any federal law, or of any judicial ruling, governing or applicable to the award.

Condition 55
The recipient understands and agrees that no award funds may be used for any expenses related to public awareness campaigns for an extreme risk protection program.

Condition 56
Extreme risk protection order (ERPO) programs funded under this award must include, at a minimum: pre-deprivation and post-deprivation due process rights that prevent any violation or infringement of the Constitution of the United States, including but not limited to the Bill of Rights, and the substantive or procedural due process rights guaranteed under the Fifth and Fourteenth Amendments to the Constitution of the United States, as applied to the States, and as interpreted by State courts and United States courts (including the Supreme Court of the United States). Such programs must include, at the appropriate phase to prevent any violation of constitutional rights, at minimum, notice, the right to an in-person hearing, an unbiased adjudicator, the right to know opposing evidence, the right to present evidence, and the right to confront adverse witnesses; the right to be represented by counsel at no expense to the government; pre-deprivation and post-deprivation heightened evidentiary standards and proof which mean not less than the protections afforded to a similarly situated litigant in Federal court or promulgated by the State's evidentiary body, and sufficient to ensure the full protections of the Constitution of the United States, including but not limited to the Bill of Rights, and the substantive and procedural due process rights guaranteed under the Fifth and Fourteenth Amendments to the Constitution of the United States, as applied to the States, and as interpreted by State courts and United States courts (including the Supreme Court of the United States). The heightened evidentiary standards and proof under such programs must, at all appropriate phases to prevent any violation of any constitutional right, at minimum, prevent reliance upon evidence that is unsworn or unaffirmed, irrelevant, based on inadmissible hearsay, unreliable, vague, speculative, and lacking a foundation; and penalties for abuse of the program.
Recipients who plan to use funding to support ERPO programs must submit a Certification Relating to Pub. L. No. 90-351, Title I, Sec. 501(a)(1)(I)(iv), signed by the principal legal officer, certifying that the ERPO program to be funded satisfies each of the listed requirements prior to the use of award funds for ERPO programs. Funds proposed for ERPO programs may be withheld, pending confirmation of compliance with the terms of this award.

Condition 57
No funds may be used for C-UAS except with express prior approval from BJA. To request such approval, the recipient

(or subrecipient, at any tier) must submit to BJA a written certification that, among other things, certifies that any C-UAS purchased with award funds will only be procured and used in compliance with all applicable federal, state, and local laws and regulations, including criminal, surveillance, aviation, and communications laws. Any C-UAS purchased with award funds will be included on the list of technologies established by subsection (d)(2)(A)(iii) section 210G of the Homeland Security Act of 2002 (6 U.S.C. 124n(d)(2)(A)(iii)) to exercise the authority granted under subsection (a)(2) of such section. The certification also requires that the award recipient consult qualified legal counsel to review the proposed purchase and operation of C-UAS, and that the recipient will complete required trainings and obtain all required approvals, certifications, licenses, and authorizations prior to deployment, and will coordinate with relevant authorities as required. The recipient (or subrecipient) also must assure BJA that it has sufficient policies and procedures regarding privacy, civil liberties, and information technology cybersecurity related to the operation of the C-UAS. Finally, the recipient (or subrecipient) may be required to provide additional documentation to verify purchase and the related policies for the C-UAS. Funds proposed for the purchase of C-UAS may be withheld, pending confirmation of compliance with the terms of this award. Additional information and the required certification form may be found here: https://bja.ojp.gov/funding/uas.

Condition 58
Expenditures prohibited without waiver

No funds under this award may be expended on the purchase of items prohibited by the JAG program statute, unless, as set forth at 34 U.S.C. 10152, the BJA Director certifies that extraordinary and exigent circumstances exist, making such expenditures essential to the maintenance of public safety and good order. Funds proposed for the purchase of prohibited items may be withheld, pending confirmation of compliance with the terms of this award.

Condition 59
No funds may be used for UAS except with express prior approval from BJA. To request such approval, the recipient (or subrecipient, at any tier) must submit to BJA a written certification that, among other things, certifies that only UAS verified by the Defense Contract Monitoring Agency's “Blue UAS Cleared List” or any successor list (available at https://bluelist.appsplatformportals.us/) as not manufactured by a “covered foreign entity” may be purchased or operated under the federal award and, further, that no modifications or additional accessories may be introduced to the UAS funded by the award. The purchased UAS may not be used to process, store, or transmit Federal information. The recipient (or subrecipient) also must assure BJA that it has sufficient policies and procedures regarding privacy, civil liberties, and information technology cybersecurity related to the operation of the UAS. Finally, the recipient (or subrecipient) may be required to provide additional documentation to verify purchase and the related policies for the UAS. Funds proposed for the purchase of UAS may be withheld, pending confirmation of compliance with the terms of this award. Additional information and the required certification form may be found here: https://bja.ojp.gov/funding/uas.

Condition 60
In accepting this award, the recipient agrees not to use award funds for purchases of body-worn cameras (BWCs) or related expenses for any agency unless that agency has submitted a certification to BJA that it has policies and procedures in place that reinforce appropriate agency Use of Force policies and training and address technology usage, evidence acquisition, data storage and retention, as well as privacy issues, accountability and discipline. The recipient must keep signed certifications on file for any subrecipients planning to utilize funds from this award for BWCs or related expenses. Funds proposed for the purchase of BWCs or related expenses may be withheld, pending confirmation of compliance with the terms of this award.

Condition 61
Certification of body armor "mandatory wear" policies, and compliance with NIJ standards

If the recipient uses funds under this award to purchase body armor, the recipient must submit a signed certification that each law enforcement agency receiving body armor purchased with funds from this award has a written "mandatory wear" policy in effect. The recipient must keep signed certifications on file for any subrecipients planning to utilize funds from this award for ballistic-resistant and stab-resistant body armor purchases. This policy must be in place for at least all uniformed officers before any funds from this award may be used by an 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. Funds proposed for the purchase of body armor may be withheld, pending confirmation of compliance with the terms of this award.

Ballistic-resistant and stab-resistant body armor purchased with award funds may be purchased at any threat level, make or model, from any distributor or manufacturer, as long as the body armor has been tested and found to comply with applicable National Institute of Justice (NIJ) ballistic or stab standards, and is listed on the NIJ Compliant Body Armor Model List. In addition, ballistic-resistant and stab-resistant body armor purchased must be uniquely fitted, as set forth in 34 U.S.C. 10202(c)(1)(A). The latest NIJ standard information and the NIJ Compliant Body Armor List may be found by following the links located on the NIJ Body Armor page: https://nij.ojp.gov/topics/equipment-and-technology/body-armor

Condition 62
Withholding of funds for Memorandum of Understanding

The recipient may not expend or draw down any award funds until BJA has reviewed and approved the required Memorandum of Understanding (MOU), and an Award Condition Modification (ACM) has been issued to remove this condition.

[ ] *I have read and understand the information presented in this section of the Federal Award Instrument.*

Award Acceptance

Declaration and Certification to the U.S. Department of Justice as to Acceptance

By checking the declaration and certification box below, I--

A. Declare to the U.S. Department of Justice (DOJ), under penalty of perjury, that I have authority to make this declaration and certification on behalf of the applicant.

B. Certify to DOJ, under penalty of perjury, on behalf of myself and the applicant, to the best of my knowledge and belief, that the following are true as of the date of this award acceptance: (1) I have conducted or there was conducted (including by applicant's legal counsel as appropriate and made available to me) a diligent review of all terms and conditions of, and all supporting materials submitted in connection with, this award, including any assurances and certifications (including anything submitted in connection therewith by a person on behalf of the applicant before, after, or at the time of the application submission and any materials that accompany this acceptance and certification); and (2) I have the legal authority to accept this award on behalf of the applicant.

C. Accept this award on behalf of the applicant.

D. Declare the following to DOJ, under penalty of perjury, on behalf of myself and the applicant: (1) I understand that, in taking (or not taking) any action pursuant to this declaration and certification, DOJ will rely upon this declaration and certification as a material representation; and (2) I understand that any materially false, fictitious, or fraudulent information or statement in this declaration and certification (or concealment or omission of a material fact as to either) may be the subject of criminal prosecution (including under 18 U.S.C. §§ 1001 and/or 1621, and/or 34 U.S.C. §§ 10271-10273), and also may subject me and the applicant to civil penalties and administrative remedies under the federal False Claims Act (including under 31 U.S.C. §§ 3729-3730 and/or §§ 3801-3812) or otherwise.

Agency Approval

Title of Approving Official	Name of Approving Official	Signed Date And Time
Deputy Assistant Attorney General	Maureen A. Henneberg	7/30/26 2:19 AM

Authorized Representative

☐ Declaration and Certification

Entity Acceptance

Title of Authorized Entity Official
no value

Signed Date And Time
no value

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kristen Wilson, Grants Coordinator**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Authorize the submission of a grant application to FY27 Visit Hattiesburg's Tourism Grant Program to support Midnight on Front Street.**
File Number: 2026-708
Minute Book #

Summary
FY27 Visit Hattiesburg Tourism Grant Program

Recommendation Statement
I recommend authorization of the submission of a grant application to FY27 Visit Hattiesburg's Tourism Grant Program to support Midnight on Front Street.

Please place this on the August 18, 2026 City Council meeting for consideration.

Tourism HBURG GRANT PROGRAM

FISCAL YEAR 2027

Introduction

VisitHATTIESBURG's Tourism Grant Program (TGP) is a competitive annual allocation designed to enhance visitor and tourism promotion efforts in Hattiesburg. TGP provides funds for marketing and other qualified expenses for projects / events that fulfill VisitHATTIESBURG'S mission and, ultimately, increase overnight travel to Hattiesburg.

VisitHATTIESBURG's mission is to actively position Hattiesburg as a year-round premier leisure and business destination in the Gulf South. Four focus areas have been identified to aid in this goal: grow tourism's economic impact; communicate and amplify Hattiesburg's story; strengthen its partner network and collaboration; and prioritize placemaking to enhance the HBURG experience.

Qualifying Programs and Events

Eligible applicants for funding include an organization/event/project whose objective is to promote Hattiesburg's tourism industry to out-of-town visitors by generating overnight travel and economic stimulus to the city. The target audience should be outside the immediate Hattiesburg area (over 50-mile radius or out-of-state).

Qualifying entities may be attractions, associations, organizations, or agencies which promote their event, products, and/or services to visitors from outside the area. Qualified grant projects must be held in Hattiesburg and should be classified in one of the following categories:

1. Festival / Event
2. Attraction / Public Use Facility:
    a. Museums, historical buildings, meeting space, sporting facilities, etc.
3. Other organizations / associations with a primary objective of promoting tourism in Hattiesburg.

TGP funds may be used for a variety of expenses, including traditional and digital advertising, brochures and signage, event or exhibit production costs, and marketing and promotional activities. Disallowable expenses include utilities, general operating expenses, administrative expenses (including salaries, travel, meal and lodging), loan payments, personal benefits, cash awards, expenses not directly related to the approved project, and any illegal activities.

Eligibility Requirements

Applicants should fulfill the following requirements:

- The project for which grant funds are requested must be primarily located within Hattiesburg (includes Forrest and Lamar Counties).
- **Proposed projects must occur between Oct. 1, 2026, and Sept. 30, 2027, and applications must be received at least 60 days prior to the project or event for which you are applying.**
- Projects should promote Hattiesburg as a destination by highlighting local lodging, dining, shopping, and attractions.
- The proposed project must comply with all applicable laws, permits, licenses and regulations.
- Each project must maintain financial records to document the use of TGP funds. These records should be filed and made available for inspection by VisitHATTIESBURG for a period of not less than three (3) years.
- **If funding is granted, the current VisitHATTIESBURG logo and/or TGP badge must be included on all collateral,advertisement, digital media, and signage in relation to the funded project. In addition, a hyperlinked VisitHATTIESBURG logo must be placed on the project website upon grant selection and remain for a period of no less than 12 consecutive months.**
- **In cases where sponsorship packages are available, a sponsorship equivalent to the dollar amount of TGP funds awarded must be provided to VisitHATTIESBURG. This information should be included in application submissions.**
- Grants for individual organizations cannot exceed $5,000 in a Fiscal Year (October 1 – September 30).
- An organization receiving TGP funding is responsible for paying all applicable taxes.
- Additional guidelines may be required on an individual project basis and will be outlined in the TGP award letter and agreement.

Grant Application & Timeline

The selection process for the Tourism Grant Program is overseen by the Marketing and Programs department of VisitHATTIESBURG. Applications will be evaluated based on the following:

- Potential for economic impact
- Increased hotel/short term rental occupancy
- Merit of the project's marketing and advertising plan
- Project's ability to attract visitors
- Fiscal stability of project / organization
- Ability to benefit Hattiesburg as a visitor destination
- Demonstrated need for funding
- Proven, historical success of the project or organization

The following steps are a requirement of TGP funding:

1. A completed application is submitted for the project by the stated deadline.
2. Grant decision is determined by VisitHATTIESBURG.
3. If selected for the TGP program, a signed contract will be entered between the applicant and VisitHATTIESBURG.
4. A final report and supporting documentation are due within 30 days of a project's completion and no later than September 30, 2027.

FY27 TGP Deadline Calendar

August 6, 2026	Application process begins for the FY 2027 TGP year
September 1, 2026	Application Priority Deadline*
September 15, 2026	Target date for notifying FY 2027 TGP applicants of status
October 1, 2026	VisitHATTIESBURG's FY2027 fiscal year begins.
September 30, 2027	Deadline for final reporting**

* If TGP funding has not been fully allocated by the priority deadline, additional applications will be accepted throughout the 2027 Fiscal Year or until all funds are depleted. Projects with applications submitted by the stated deadline will receive priority in funding decisions.

** A final report must be provided within 30 days of project completion or by September 30, 2027, whichever comes first or grant funds must be returned.

Stipulations

Limited funds are available each Fiscal Year and are awarded on a competitive basis. All decisions regarding grants are at the sole discretion of the Hattiesburg Tourism Commission, and the following stipulations are effective for any project receiving funding:

- Failure to use funds as specified in an application will result in a full refund of TGP funds distributed.
- Failure to submit a final report with receipts and other required documentation may result in penalties including but not limited to a full refund of TGP funds distributed.
- TGP funds cannot be transferred from one project to another or to another organization other than that listed on the application.
- Applicants not in compliance with reporting deadlines and procedures will be disqualified from receiving any future TGP funding.
- If a project changes during developmental stages, the applicant should submit a written request to VisitHATTIESBURG, which may choose to accept or decline the changes. If changes are declined, no further TGP funds will be awarded and any distributed funds must be refunded immediately by the recipient. If changes are approved, an addendum to the original agreement will be provided by VisitHATTIESBURG and the project may move forward with pledged funding.
- Selected projects must be completed within the Fiscal Year in which the grant is awarded. If a project is delayed, the grantee must inform VisitHATTIESBURG in writing, requesting an extension.

For questions related to VisitHATTIESBURG's Tourism Grant Program, please contact Lydia Pierce: lpierce@visithburg.org or 601-296-7475.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kristen Wilson, Grants Coordinator**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Ratify submission of a grant application to the Leary Firefighters Foundation in the amount of $25,000 to purchase new radios for the Hattiesburg Fire Department. No match is required.**
File Number: 2026-655
Minute Book #

Summary
Ratify submission of a grant application to the Leary Firefighters Foundation in the amount of $25,000 to purchase new radios for the Hattiesburg Fire Department. No match is required.

Recommendation Statement
I recommend ratification of an executed grant application submitted to the Leary Firefighters Foundation in the amount of $25,000 to purchase new radios for the Hattiesburg Fire Department.

Please place this on the August 18, 2026 City Council meeting for consideration.

Application: Hattiesburg Fire Department Application

City of Hattiesburg
Leary Firefighters Foundation 2026

Summary

ID: 0000000730
Status: Letter of Inquiry

Letter of Inquiry

Completed - Aug 3 2026

Letter of Inquiry Form

Department Information

Name of Department	City of Hattiesburg/Hattiesburg Fire Department
Address	211 Ronie Street
Town/City	Hattiesburg
COUNTY,NOT COUNTRY	Forrest
State	Mississippi
Zip Code	39401

Is the delivery address the same as above?

Yes

Department Type

Paid

Department Size:

133

Population of Area Served:

48802

Contact Information

Primary Contact Person

Name	Kristen Wilson
Rank	Grant Coordinator
Telephone Number	601-545-4544
Email	kwilson@hattiesburgms.com
Dept. Head Same as Primary Contact Person	✖

Department Head

Name	Chris Carr
Rank	Fire Chief
Telephone Number	601-582-3311
Email	ccarr@hattiesburgms.com

Tax Exempt Status

Are you a 501(c)(3) registered charity?

No

OR

Are you a tax exempt agency/organization?

Yes

Federal Tax ID Number (EIN)

646000432

Please upload your proof of tax exemption.

Tax Exempt Letter COH.pdf

Filename: Tax Exempt Letter COH.pdf.pdf **Size:** 109.2 kB

Grant Request Information

Type of Grant

Responses Selected:

Other: : Technology/Portable Radios

Estimated Value of Grant Requested

Cost of Equipment/Training Facility/Vehicle/Etc.	25000
Cost of Tax on Equipment/Training Facility/Vehicle/Etc.	
Cost of Shipping on Equipment/Training Facility/Vehicle/Etc.	
Additional Fees	
Total	25000.0

Describe how the grant will be utilized and the timeline for implementation.

A grant from the Leary Firefighters Foundation would benefit the Hattiesburg Fire Department in more ways than one. The requested grant funding of $25,000 would be used to purchase Motorola APX 6000XE Portable Radios. The new radios will allow the department to upgrade and replace equipment that is well past its useful life. Reliable communication is imperative during emergency incidents, and the HFD urgently needs funding to strengthen our lines of communication so firefighters can rely on dependable equipment when protecting the lives and property of those they serve.

Upon notification of the award, the Hattiesburg Fire Department will begin the procurement process in accordance with all necessary requirements. The equipment will be ordered as soon as possible to ensure a timely delivery and installation process. Once equipment is received, we would love to highlight the Leary Firefighters Foundation on our social media page as a way to say thank you and shed light on the good work this foundation does. We feel confident that this project will be fully implemented, and the benefits will be evident within six to eight months of receiving the grant funds.

Why is your department is requesting this grant? What challenges does your department face?

Two areas of support that the Leary Firefighters Foundation focuses on are providing the best of the best equipment to help keep firefighters and the communities they serve safe and ensuring that fire departments update along with technological advances. As Hattiesburg continues to grow through new residential and commercial developments, our department is responding to an increased number of incidents, and the financial season that the department is currently in makes it difficult to procure much needed equipment due to budget constraints. As a department, we believe that our mission deeply aligns with that of the Leary Firefighters Foundation, which is simply to serve others. While the Hattiesburg Fire Department might not have the funds to continually stay up to date with technological advances or purchase new equipment that is well past its useful life, that never stops our team from showing up to work every day ready to put others before themselves. Receiving this grant would allow the HFD to overcome communication challenges that have become a more recent issue as our current radios continue to age. By investing in this technology, the Leary Firefighters Foundation would help ensure that our firefighters are better equipped to protect our neighbors and our home of Hattiesburg, Mississippi.

What steps have been taken and/or commitments made by your department/jurisdiction to try to meet this need of the department?

The City is committed to investing in its Fire Department, but personnel costs and daily expenses of operating nine fire stations consume over 95% of available funding. This leaves very limited resources for equipment/technology upgrades. We pride ourselves in taking care of and maintaining our equipment; however, that does not make it operate efficiently forever. The department, in cooperation with the City, actively seeks out external grant opportunities to help address not only this need, but several others as well, and recognizes that every single dollar makes a difference.

Have reached out to your municipality for funding?

Yes

Have any other sources been approached for support of this project?

Yes

Please list any other sources approached for support of this project:

The City of Hattiesburg has carefully evaluated available funding options and continues to pursue grant opportunities whenever possible. However, limited local funding sources and competing priorities have prevented the City from securing funds for this need.

501(c)(3)

Incomplete
Company: None
Country: None
Ein: None
State: None

Supplemental Documentation

Completed - Aug 3 2026

Kindly upload a brief Letter of Inquiry. *Please note this request must be submitted by the Chief of the department or the Chief of Training.*

Signed Letter of Inquiry - HFD

Filename: Signed Letter of Inquiry - HFD.pdf **Size:** 319.8 kB

Hattiesburg Fire Department

Fire Chief Chris Carr

Assistant Chief Kerry Hardges
Deputy Chief Cody Keys

July 30, 2026

The Leary Firefighters Foundation
33 Park Place Box 243
New York, NY, 10007

Reference: Leary Firefighters Foundation, Hattiesburg Fire Department Grant Application

To Whom it May Concern,

I am writing on behalf of the Hattiesburg Fire Department, where a 133-person team operates 9 fire stations and serves a population of approximately 48,800. Our department has proudly served the City of Hattiesburg since 1904 through fire suppression, emergency medical services, hazardous materials response, technical rescue, and fire safety education. We are committed to continually strengthening our department so we can meet the evolving needs of our citizens.

Hattiesburg Fire Department is seeking funding support from The Leary Firefighters Foundation to advance our technological communication capabilities. Reliable communication is essential to firefighter safety and emergency operations. We are requesting $25,000 to purchase Motorola APX 6000XE Portable Radios with the goal of improving operational efficiency and ensuring that our staff have the tools needed to continue providing the highest level of service to the Hattiesburg community.

I hope you can give this application your full consideration. Please do not hesitate to contact me if I can provide additional information.

Sincerely,

Chris Carr
Fire Chief, Hattiesburg Fire Department

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DAWN BURNS
CITY OF HATTIESBURG
PO BOX 1898
HATTIESBURG MS 39403-1898

Date: March 03, 2017
Letter ID: L0072848256

Reference: Sales Tax Exemption
Letter Ruling Number: 17-0109

This is in response to your letter dated March 01, 2017, requesting that the Mississippi Department of Revenue provide a ruling regarding whether the City of Hattiesburg is exempt from sales and use tax. Your request has been assigned the letter ruling number listed above. Please use this number in any further correspondence with the DOR concerning this request.

After a search of the applicable statutes, this is to confirm that the City of Hattiesburg does qualify for sales tax exempt status pursuant to Miss. Code Ann. Section 27-65-105(a). This Section provides that sales of tangible personal property or services made to the United States Government, the State of Mississippi and its departments, institutions, counties and municipalities or departments or school districts of said counties and municipalities are exempt from sales tax. As a prerequisite to exemption, the sale of property or charge for services must be sold directly to, billed directly to, and paid for directly by the exempt entity.

This exemption does not apply to sales of tangible personal property or services to contractors purchased in the performance of contracts with the exempt entity, nor the employees of the exempt entity, although the contractor or employee may be reimbursed for the expense by the exempt entity. Furthermore, this exemption does not apply to Contractors Tax levied by Miss. Code Ann. Section 27-65-21.

You may use a copy of this letter in order to substantiate the City of Hattiesburg's exempt status. I trust that this is the information you were requesting. Should you have any additional questions, feel free to contact this office at (601) 923-7015.

Under Miss. Code Ann. Section 27-65-85(a), it shall be unlawful for any person to use an exemption authorized under the Sales Tax laws for the purpose of avoiding the payment of tax the person is required to pay by law. Any person violating this provision shall be guilty of a misdemeanor and, on conviction thereof, shall be fined not more than Five Hundred Dollars ($500.00), or imprisoned not exceeding six (6) months in the county jail, or punished by both such fine and imprisonment, at the discretion of the court.

This letter ruling is based on the specific facts and circumstances that you communicated to the DOR. This ruling is not binding on the DOR if these facts and circumstances are inaccurate, contain a material omission of a relevant fact or facts to the issue(s) presented or if such facts and circumstances change. This letter ruling is also only valid for seven (7) years from the date of this letter. At the end of this seven (7) year period, you are free to update your information and request another letter ruling if you wish. This ruling is only applicable to you or to your client if you are requesting this ruling on behalf of another and can only be relied upon by the person for whom the ruling was requested.

If the facts and circumstances presented in your request are accurate, complete and do not change for the seven (7) year

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period indicated above, the person for whom it was requested can rely upon this ruling unless and until there is a change in the law or regulation or the issuance of judicial decision that indicates the ruling is no longer correct or the DOR retracts the ruling. The DOR does reserve the right to retract this ruling if it later determines on its own review that the ruling is incorrect. Such retraction will be in writing and the effect of the retraction will be prospective from the date of the retraction letter.

Sincerely,

Diamonde Wilkerson
(601) 923-7037
Mississippi Department of Revenue

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Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Ratify and Confirm the Mayor's appointment of Samone Wilson to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2031.**
File Number: 2026-726
Minute Book #

Summary
Ratify and Confirm the Mayor's appointment of Samone Wilson to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2031.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Ratify and confirm the Mayor's appointment of Kent Oliver to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2031.**
File Number: 2026-727
Minute Book #

Summary
Ratify and confirm the Mayor's appointment of Kent Oliver to the Hattiesburg Convention Commission for a five (5) year term beginning September 1, 2026, and ending August 31, 2026.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Acknowledge receipt of Notice of Adoption of the Motor Vehicle Assessment Schedule received from the Mississippi Department of Revenue and adopt same for the City of Hattiesburg for the fiscal year beginning October 1, 2026, and ending September 30, 2027; authorize publication of public notice setting a hearing for September 21, 2026, before the City Council to hear complaints or objections to the adoption of the Motor Vehicle Assessment Schedule.**
File Number: 2026-664
Minute Book #

Summary

Approve publication of notice scheduling a Public Hearing to hear public comment on the Motor Vehicle Assessment Schedule for the City of Hattiesburg for the Fiscal Year beginning October 1,2026, and ending September 30, 2027.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

PUBLIC NOTICE AND ORDER OF MAYOR AND COUNCIL OF THE CITYOF HATTIESBURG, MISSISSIPPI, ADOPTING A MOTOR VEHICLE ASSESMENT SCHEDULE FOR THE CITY OF HATTIESBURG, MISSISSIPPI FOR THE FISICAL YEAR BEGINNING OCTOBER 1, 2026, AND ENDING SEPTEMBER 30, 2027.

WHEREAS, the Mayor and Council of the City of Hattiesburg, Mississippi, have received from the Mississippi Department of Revenue notice of the adoption of the Motor Vehicle Assessment Schedule by said department for the fiscal year 2026-27; and

WHEREAS the hard copy schedule of assessments by property code is no longer produced and the assessment schedule for passenger vehicles and lights trucks in produced only the computer system of the county tax collector, and is the schedule that is subject for adoption; and

WHEREAS the Mayor and Council of said City desire to adopt the same for the City of Hattiesburg in assessing and collecting ad valorem taxes on motor vehicles for the ensuing year.

IT IS THEREFORE, HEREBY ORDERED BY THE MAYOR AND COUNCIL OF THE CITY OF HATTIESBURG, MISSISSIPPI, TO-WIT:

The Motor Vehicle Assessment Schedule for the fiscal year 2026-27 adopted by the Mississippi Department of Revenue under the provisions of the Motor Vehicle Ad Valorem Tax Act of 1958, as amended by Laws of 1960, being Section 27-51-21, Mississippi Code of 1972, Annotated, is hereby adopted as the Motor Vehicle Assessment Schedule for the City of Hattiesburg, MS, for the fiscal year beginning October 1, 2026, and ending September 30, 2027.

A public hearing of the Mayor and Council of the City of Hattiesburg will be held in City Hall located 200 Forrest Street in said City at 4:00 September 21, 2026, for the purpose of hearing and taking action on any complaint or objection filed in writing objection to and petitioning for a special reduction of any portion of said motor vehicle assessment schedule affecting the complainant directly. Said motor vehicle assessment schedule is open for public inspection and examination in the Office of the Forrest and Lamar County Tax Collectors until the date and time of said hearing.

This order is entered, and the Clerk of the City of Hattiesburg, Mississippi, shall have published in a newspaper, published, and having a general circulation in the City of Hattiesburg, a certified copy hereof, pursuant to and as NOTICE under the provisions of the Motor Vehicle Ad Valorem Tax Act of 1958, and Chapter 273 of the Laws of 1960, otherwise designated as Section 27-51-21 of the Mississippi Code Of 1972, Annotated.

SO, ORDERED AND APPROVED on this 18th day of August 2026.

Kermas Eaton/s/_____
KERMAS EATON,
CITY CLERK

UNIFORM
ASSESSMENT SCHEDULE

For
SPECIAL EQUIPMENT,
SEMI-TRAILERS, CONCESSION TRAILERS,
UTILITY TRAILERS,
BOAT TRAILERS,
HORSE AND STOCK TRAILERS

FISCAL YEAR

2026-2027

AUGUST 1, 2026 THROUGH JULY 31, 2027

Adopted by
DEPARTMENT OF REVENUE
Jackson, Mississippi

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ORDER ADOPTING ASSESSMENT SCHEDULE FOR MOTOR VEHICLE AD VALOREM TAXES FOR THE FISCAL YEAR 2026-2027

WHEREAS, Section 27-51-15, Miss. Code Ann., provides that motor vehicles shall be assessed uniformly according to value and such assessed value shall be determined by an assessment schedule which shall be prepared and made of minute record by the Department of Revenue and shall be certified to the president of the board of supervisors of the various counties of the state, and to the mayor or the presiding officer of the municipal boards of the various municipalities, and municipal separate school districts of the state as the official motor vehicle assessment schedule which shall be used by the proper officials of both respective jurisdictions in assessing motor vehicle ad valorem taxes for the ensuing fiscal year; and,

WHEREAS, Section 27-51-19, Miss. Code Ann., provides that the Department of Revenue shall on or before the fifteenth day of June of each year, prepare and adopt an assessment schedule of motor vehicles, as defined in Section 27-51-5, Miss. Code Ann., which such assessment schedule, in its judgment, will tend to equalize the assessed value of property of this class with property of other classes in general, and which schedule, except as otherwise provided in Title 27, Chapter 51, Miss. Code Ann., as amended, shall be used by the tax collector of each county and each municipality and municipal separate school district, in assessing, calculating and collecting ad valorem taxes in each respective jurisdiction on all motor vehicles for such tax; and,

WHEREAS, said schedule, for the Fiscal Year 2026-2027 has been prepared in the manner and way required by law, and the assessment schedule for automobiles and most motorcycles is located in the computer network as part of the VIN/VIS System, with a copy of the schedule for special equipment, trailers, ambulances, and hearses (including motorcycles not included in the VIN/VIS system) attached hereto, and the Department of Revenue, being of the opinion that said schedule complies in all respects with the provisions of the aforesaid statute and amendments and should be adopted:

IT IS, THEREFORE, HEREBY ORDERED AND ADJUDGED that, the schedule for the Fiscal Year 2026-2027, for the assessment of ad valorem taxes for motor vehicles, as provided for by Title 27, Chapter 51, Miss. Code Ann., as amended, be and the same is hereby adopted for the purposes set forth in the aforesaid act and its amendments.

ORDERED AND ADJUDGED on this, the 8th day of June, 2026

DEPARTMENT OF REVENUE,
Chris Graham, Commissioner

By Lisa Chism
Director, Motor Vehicle & County Services

DEPARTMENT OF REVENUE
PROPERTY ASSESSMENT BUREAU

RULE 9. MOTOR VEHICLE ASSESSMENTS

Pursuant to Miss. Code Ann. Section 27-51-19, the Department of Revenue is required to annually prepare and adopt an assessment schedule for motor vehicles. In preparing this schedule, the Commission shall use a computer system package of assessments identified by the VIN ("vehicle identification number"). If the VIN does not produce an assessed value or if the computer system is not in operation, the local tax collector shall use the MSRP ("manufactured suggested retail price") with applicable depreciation percentage for the year in which the vehicle was manufactured.

The local tax collector shall be responsible for obtaining a source of MSRP(s) except for new vehicles. The taxpayer shall be responsible for supplying the MSRP for a new vehicle, by submitting a copy of the window sticker with the MSRP, to the tax collector at the time the tag is purchased.

The Department of Revenue will annually furnish to each tax collector an assessment schedule for trailers, motorcycles, special equipment, etc. to be used in the assessment of this type of property. This schedule will be furnished in hard copy or the Department of Revenue may use a computer system package of assessments identified by the VIN ("vehicle identification number"). If the VIN does not produce an assessed value or if the computer system is not in operation, the local tax collector shall use the MSRP ("manufactured suggested retail price") with applicable depreciation percentage for the year in which the vehicle was manufactured. For any model not listed, assess at 30% of current value if known, or use the “cost when new” multiplied by the percentages listed in the schedule for the years listed.

AUTOMOBILES & LIGHT TRUCKS

ASSESSMENT PERCENTAGES AND EXPLANATION

2027	2026	2025	2024	2023	2022	2021	2020	2019	2018	2017 & older
27%	23%	19%	15%	12%	9%	7%	5%	4%	3%	$100

The motor vehicle assessment adopted by the Department of Revenue, is the computer system package of assessments identified by the VIN (vehicle identification number). If the VIN does not produce an assessed value, the MSRP (manufacturer's suggested retail price) is entered in the system and is multiplied by the applicable percentage for the year in which the vehicle was manufactured.

The above percentages are used to calculate the assessed value for automobiles and light trucks. These percentages represent the assessment ratio of 30% less applicable depreciation. The appropriate percentage is multiplied by the MSRP of the vehicle being tagged to arrive at the assessed value. For 2017 and older models the assessed value is $100.

The Mississippi Constitution mandates that motor vehicles be assessed at 30% of true value. The Commission estimates that the true value of a new vehicle is approximately 90% of the MSRP. **The 30% assessment ratio multiplied by 90% produces an effective percentage of 27% that would be multiplied by the MSRP of new vehicles to arrive at assessed value.**

The Road and Privilege Tax on all passenger vehicles is $15.00. See Sections 27-19-5 and 27-19-9, Miss. Code Ann., for the privilege tax on motorcycles, ambulances, hearses, school and church buses, and taxicabs.

AMBULANCES & HEARSES

ASSESSMENT PERCENTAGES

2027	2026	2025	2024	2023	2022	2021	2020	2019	2018	2017 & older
27%	23%	19%	15%	12%	9%	7%	5%	4%	3%	$100

MOTORCYCLES

ASSESSMENT PERCENTAGES

2027	2026	2025	2024	2023	2022	2021	2020	2019	2018	2017 & older
27%	23%	17%	12%	9%	7%	6%	5%	4%	3%	2%

When assessing motorcycles enter the appropriate value and the assessment will be calculated by the percentage listed in the table. For any model not listed, use the "cost when new" multiplied by the percentages for the years listed.

SPECIAL EQUIPMENT & TRAILERS

ASSESSMENT PERCENTAGES

2027	2026	2025	2024	2023	2022	2021	2020	2019	2018	2017 & older
30%	23%	17%	12%	9%	7%	6%	5%	4%	3%	2%

When assessing special equipment or trailers enter the appropriate value and the assessment will be calculated by the percentage listed in the table. For any model not listed, assess at 30% of current value if known or use the "cost when new" multiplied by the percentages for the years listed.

SEMI-TRAILERS	**VAN TYPE**	**VALUES**
DRY FREIGHT	**Aluminum, Plywood Walls,**	
ALL PURPOSE	**Wood Floor**	
	40' - 43'----------	$ 35,700
	45'----------	$ 42,193
	48'----------	$ 44,404
	53'----------	$ 46,612

SEMI-TRAILERS	**SIDE CURTAIN**	**VALUES**
DRY FREIGHT	**Steel and Aluminum**	
	45'----------	$ 48,060
	48'----------	$ 51,448
	53'----------	$ 54,019

SEMI-TRAILERS	**REFRIGERATED**	**VALUES**
REFRIGERATED aka REEFER	**Aluminum, Insulated, Extruded Aluminum Floor**	
	40' - 43'----------	$ 77,561
	45'----------	$ 83,084
	48'----------	$ 87,869
	53'----------	$ 90,348

SEMI-TRAILERS	**DROP DECK VAN**	**VALUES**
	Aluminum, Plywood Walls, Hardwood Floor	
	40' - 45'----------	$ 53,966
	48'----------	$ 60,083
	53'----------	$ 63,084

SEMI-TRAILERS	**FLATBED TYPE**	**VALUES**
FLATBED	**Steel, Wood Floor**	
	40'----------	$ 40,750
	45'----------	$ 42,256
	48'----------	$ 43,574
	53'----------	$ 48,376

SEMI-TRAILERS	**FLATBED TYPE**	**VALUES**
FLATBED	**Aluminum**	
	40'----------	$ 47,222
	45'----------	$ 48,727
	48'----------	$ 50,045
	53'----------	$ 54,846

SEMI-TRAILERS	FLATBED TYPE	VALUES
	Steel, Wood Floor	
DROP DECK FLAT		
	40' - 43'----------	$ 51,578
	45'----------	$ 53,156
	48'----------	$ 54,732
	53'----------	$ 56,308

SEMI-TRAILERS	FLATBED TYPE	VALUES
DROP DECK FLAT	**Aluminum**	
	40' - 43'----------	$ 58,908
	45'----------	$ 60,487
	48'----------	$ 62,063
	53'----------	$ 63,639

SEMI-TRAILERS	**LOWBOY**	**VALUES**
LOWBOY	**Fixed Gooseneck**	
	25 Ton----------	$ 73,314
	35 Ton----------	$ 77,911
	50 Ton----------	$ 83,880
	60 Ton----------	$ 88,416

SEMI-TRAILERS	**LOWBOY**	**VALUES**
LOWBOY	**Detachable Gooseneck**	
	25 Ton----------	$ 82,416
	35 Ton----------	$ 87,013
	50 Ton----------	$ 92,982
	60 Ton----------	$ 97,519

SEMI-TRAILERS	LOG TRAILER	VALUES
LOG TRAILER	4 Bolster----------	$ 25,469
	Home Made----------	$ 12,485

SEMI-TRAILERS	FEED TRAILER	VALUES
FEED	Aluminum----------	$ 62,400

SEMI-TRAILERS	TANK TYPE	VALUES
PNEUMATIC DRY BULK aka POSSUM BELLY	**Aluminum**	
	40' or less----------	$ 101,245
	42' ----------	$ 103,712
Cement, Lime, Sand, Etc.	**Steel**	
	40' or less----------	$ 79,008
	42' ----------	$ 81,474

SEMI-TRAILERS	TANK TYPE	VALUES
ASPHALT	**Aluminum, Mild Steel**	
	Liquid Asphalt----------	$ 71,827

SEMI-TRAILERS	TANK TYPE	VALUES
	Stainless Steel	
Uncoded		
	Less than 7000 Gal----------	$ 81,183
	7000 Gal----------	$ 86,564
	More than 7000 Gal----------	$ 89,713

SEMI-TRAILERS	TANK TYPE	VALUES
	Stainless Steel	
MC 406, 407 &	**Multi-Purpose cargo**	
408	Less than 7000 Gal----------	$ 94,479
	7000 Gal----------	$ 99,861
	More than 7000 Gal----------	$ 103,009

SEMI-TRAILERS	TANK TYPE	VALUES
	Stainless Steel	
MC 200, 201 &	**Rubber Lined**	
312	Less than 7000 Gal----------	$ 106,127
	7000 Gal----------	$ 111,509
	More than 7000 Gal----------	$ 114,657

SEMI-TRAILERS	TANK TYPE	VALUES
	Stainless Steel	
MC 331	**Compressed gases**	
	Less than 7000 Gal----------	$ 119,599
	7000 Gal----------	$ 124,982
	More than 7000 Gal----------	$ 128,129

SEMI-TRAILERS	TANK TYPE	VALUES
	Aluminum	
Uncoded		
	Less Than 8,000 Gallons----------	$ 70,492
	8,000 – 9,000 Gallons----------	$ 70,852
	10,000 Gallons----------	$ 73,702

SEMI-TRAILERS	TANK TYPE	VALUES
	Aluminum	
MC 406,407 & 408	**Multi-Purpose cargo**	
	Less Than 8,000 Gallons----------	$ 94,318
	8,000 – 9,000 Gallons----------	$ 94,678
	10,000 Gallons----------	$ 97,528

SEMI-TRAILERS	TANK TYPE	VALUES
	Aluminum	
MC 200, 201 &312	**Rubber Lined**	
	Less Than 8,000 Gallons----------	$ 104,362
	8,000 – 9,000 Gallons----------	$ 104,722
	10,000 Gallons----------	$ 107,572

SEMI-TRAILERS	TANK TYPE	VALUES
	Aluminum	
MC 331	**Compressed gases**	
	Less Than 8,000 Gallons----------	$ 117,834
	8,000 – 9,000 Gallons----------	$ 118,195
	10,000 Gallons----------	$ 121,044

SEMI-TRAILERS	**TANK TYPE**	**VALUES**
LIQUIFIED GASES **MC 308**	**Aluminum, Carbon Steel**	
	Less Than 8,000 Gallons----------	$ 107,113
	8,000 – 9,000 Gallons----------	$ 107,470
	10,000 Gallons----------	$ 110,213

SEMI-TRAILERS	**TANK TYPE**	**VALUES**
SANITARY	Less Than 8,000 Gallons----------	$ 61,147
FOOD GRADE	8,000 – 9,000 Gallons----------	$ 66,676
Milk, Water,	10,000 Gallons----------	$ 69,762
Syrup, Etc.		

SEMI-TRAILERS	GRAIN	VALUES
	Hopper & Conveyor (Walking Floor)	
GRAIN	***Aluminum***	
	1 Hopper & Conveyor----------	$ 48,952
	2 Hoppers & Conveyor----------	$ 50,478
	3 or more Hoppers----------	$ 51,674
	Steel	
	1 Hopper & Conveyor----------	$ 39,016
	2 Hoppers & Conveyor----------	$ 40,542
	3 or more Hoppers----------	$ 41,738

SEMI-TRAILERS	LIVESTOCK	VALUES
	Aluminum	
LIVESTOCK	Less Than 42'----------	$ 70,300
	43'- 47'----------	$ 74,119
	48'----------	$ 78,983
	53'----------	$ 81,029
	Stainless Steel	
	Less Than 42'----------	$ 63,119
	43'- 47'----------	$ 67,094
	48'----------	$ 71,816
	53'----------	$ 74,119

SEMI-TRAILERS	DUMP TYPE	VALUES
	Aluminum	
	24'-33'----------	$ 63,392
	34'-35'----------	$ 70,278
	36'----------	$ 71,163
	Stainless Steel	
	24'-33'----------	$ 51,641
	34'-35'----------	$ 58,527
	36'----------	$ 59,411

SEMI-TRAILERS	AUTO TRANSPORT	VALUES
	Most----------	$ 81,963

SEMI-TRAILERS	CHIP	VALUES
CHIP	**Aluminum**	
	42'----------	$ 37,465
	45'----------	$ 38,354
	48'----------	$ 43,159
	53'----------	$ 44,049

CONCESSION TRAILERS

BUMPER PULL		VALUES
5X10----------	$	11,500
6X10----------	$	12,000
6X12----------	$	12,650
6X14----------	$	14,750
7X14----------	$	21,600
7X16----------	$	22,600
7X18----------	$	23,285
7X20----------	$	24,385
8X12----------	$	19,500
8X14----------	$	19,995
8X16----------	$	20,995
8X18----------	$	26,995
8X20----------	$	31,990
8X24----------	$	33,990
8X28----------	$	35,799
8X30----------	$	37,500

CONCESSION TRAILERS **BBQ TRAILER** **VALUES**

8X16----------	$	30,000
8X18----------	$	32,000
8X20----------	$	34,000
8X28----------	$	51,995
8X32----------	$	71,995

CONCESSION TRAILERS **GOOSENECK** **VALUES**

8X20----------	$	34,000
8X36----------	$	53,000

UTILITY TRAILER	**MOTORCYCLE**	**VALUES**	
PULL BEHIND	ALL----------	$	1,500

	MOTORCYCLE	**VALUES**	
PULL BEHIND CAMPER	ALL----------	$	2,500

UTILITY TRAILER	SINGLE OR DOUBLE AXLE	VALUES
FLAT BED, TILT OR DROP GATE	4X6----------	$ 548
	4X8----------	$ 700
	4X10----------	$ 850
	5X8----------	$ 1,000
	5X10----------	$ 1,345
	5X12----------	$ 1,570
	5X14----------	$ 1,595
	6X8----------	$ 1,625
	6X10----------	$ 1,670
	6X12----------	$ 1,750
	6X14----------	$ 1,765
	6X16----------	$ 1,775
	6X18----------	$ 2,265
	7X10----------	$ 2,225
	7X12----------	$ 2,335
	7X14----------	$ 2,725
	7X16----------	$ 2,775
	7X18----------	$ 3,105
	7X20----------	$ 3,650
	8X12----------	$ 3,770
	8X14----------	$ 4,022
	8X16----------	$ 4,144
	8X18----------	$ 4,327
	8X20----------	$ 4,509
	9X12----------	$ 4,884
	9X14----------	$ 5,259
	9X16----------	$ 5,634
	9X18----------	$ 6,009
	9X20----------	$ 6,384
	9X24----------	$ 6,759

UTILITY TRAILER **DUMP** **VALUES**

4X6----------	$	2,680
4X8----------	$	3,200
4X9----------	$	4,000
5X8----------	$	5,200
5X10----------	$	5,690
5X12----------	$	6,080
6X10----------	$	6,752
6X12----------	$	6,880
6X14----------	$	6,960
6X16----------	$	7,000
7X10----------	$	7,024
7X12----------	$	7,072
7X14----------	$	7,200
7X16----------	$	7,344
7X20----------	$	7,392
8X16----------	$	7,520
8X18----------	$	7,760
9X20----------	$	8,616

UTILITY TRAILER	EQUIPMENT	VALUES	
SOLID FLOOR WITH RAMPS OR DOVE TAIL	6X20----------	$	2,200
	6X24----------	$	3,190
	7X14----------	$	3,580
	7X16----------	$	3,690
	7X18----------	$	3,750
	7X20----------	$	3,945
	7X24----------	$	4,000
	8X20----------	$	4,350
	8X25----------	$	4,575
	9X18----------	$	4,590
	9X24----------	$	4,610
	9X26----------	$	4,690

UTILITY TRAILER	EQUIPMENT	VALUES
GOOSENECK AND GOOSENECK / PINTEL	6X16----------	$ 3,499
	6X18----------	$ 3,580
	6X20----------	$ 3,629
	6X24----------	$ 4,417
	7X18----------	$ 4,428
	7X20----------	$ 4,622
	7X22----------	$ 4,671
	7X24----------	$ 4,741
	7X26----------	$ 4,763
	8X20----------	$ 4,995
	8X24----------	$ 5,005
	8X26----------	$ 5,070
	9X20----------	$ 5,130
	9X24----------	$ 5,260
	9X26----------	$ 5,616

UTILITY TRAILER	CAR CARRIER	VALUES
OPEN / DRIVE ON	6X20----------	$ 2,479
	6X24----------	$ 2,647
	7X14----------	$ 2,680
	7X16----------	$ 2,774
	7X18----------	$ 2,900
	7X20----------	$ 3,173
	7X24----------	$ 3,216
	8X20----------	$ 3,337
	8X25----------	$ 3,404
	9X18----------	$ 3,524
	9X24----------	$ 3,678
	9X26----------	$ 3,712

UTILITY TRAILER	CAR CARRIER	VALUES
ENCLOSED	8X18----------	$ 10,200
	8X20----------	$ 11,700
	8X22----------	$ 12,360
	8X24----------	$ 12,990
	8X26----------	$ 13,680
	8X28----------	$ 13,800
	8X30----------	$ 14,450
	8X32----------	$ 15,000
	8X34----------	$ 15,380
	9X18----------	$ 15,720
	9X20----------	$ 16,290
	9X22----------	$ 16,400
	9X24----------	$ 16,860
	9X26----------	$ 16,990
	9X28----------	$ 17,100
	9X30----------	$ 17,280
	9X32----------	$ 17,310

UTILITY TRAILER	CAR CARRIER	VALUES
ENCLOSED V-NOSE	8X20----------	$ 11,900
	8X22----------	$ 12,100
	8X24----------	$ 13,225
	8X26----------	$ 13,790
	8X28----------	$ 14,355
	8X30----------	$ 14,820
	8X32----------	$ 15,320
	8X34----------	$ 16,395

UTILITY TRAILER	CAR CARRIER	VALUES
ENCLOSED	8X20----------	$ 12,970
	8X22----------	$ 13,125
	8X24----------	$ 13,200
GOOSENECK / PINTEL	8X26----------	$ 13,320
	8X28----------	$ 14,510
	8X30----------	$ 14,760
	8X32----------	$ 15,280
	8X34----------	$ 15,500
	8X36----------	$ 15,570
	8X38----------	$ 15,900
	8X40----------	$ 16,375
	8X42----------	$ 16,550
	8X44----------	$ 16,750
	8X46----------	$ 16,900
	8X48----------	$ 17,275
	8X50----------	$ 17,500
	8X53----------	$ 18,090
	9X28----------	$ 18,500
	9X32----------	$ 19,050
	9X44----------	$ 19,900
	9X48----------	$ 26,215
	9X50----------	$ 26,800

UTILITY TRAILER	CARGO	VALUES
PULL BEHIND	6X8----------	$ 2,578
TANDEM AXLE	6X10----------	$ 3,845
	6X12----------	$ 4,132
	6X14----------	$ 4,429
	6X16----------	$ 4,721
	7X12----------	$ 4,323
	7X14----------	$ 4,530
	7X16----------	$ 4,800
	7X18----------	$ 5,113
	7X20----------	$ 5,413
	7X22----------	$ 5,713
	7X24----------	$ 6,013
	8X12----------	$ 4,482
	8X14----------	$ 5,134
	8X16----------	$ 5,334
	8X18----------	$ 5,534
	8X20----------	$ 5,734
	8X22----------	$ 5,934
	8X24----------	$ 6,365
	8X26----------	$ 6,565
	8X28----------	$ 6,765
	8X32----------	$ 6,965

UTILITY TRAILER	CARGO	VALUES
PULL BEHIND	6X12----------	$ 4,658
TANDEM AXLE	6X14----------	$ 4,774
V-NOSE	6X16----------	$ 4,974
	6X18----------	$ 5,159
	6X20----------	$ 5,436
	7X12----------	$ 4,874
	7X14----------	$ 5,205
	7X16----------	$ 5,467
	7X18----------	$ 5,651
	7X20----------	$ 5,890
	7X22----------	$ 6,006
	7X24----------	$ 6,468
	8X14----------	$ 5,544
	8X16----------	$ 5,805
	8X18----------	$ 6,098
	8X20----------	$ 6,483

UTILITY TRAILER	CARGO	VALUES
PULL BEHIND	4X6----------	$ 1,534
SINGLE AXLE	5X6----------	$ 1,804
	5X8----------	$ 2,074
	5X10----------	$ 2,344
	5X12----------	$ 2,614
	6X10----------	$ 2,694
	6X12----------	$ 2,938
	6X14----------	$ 3,203
	7X12----------	$ 3,453
	7X14----------	$ 3,703
	7X16----------	$ 3,453
	8X12----------	$ 3,703
	8X14----------	$ 3,953

UTILITY TRAILER	CARGO	VALUES	
PULL BEHIND	5X8----------	$	2,592
SINGLE AXLE	5X10----------	$	2,805
V-NOSE	5X12----------	$	2,902
	6X10----------	$	3,018
	6X12----------	$	3,199
	6X14----------	$	3,315
	7X12----------	$	3,605

UTILITY TRAILER	CARGO	VALUES
GOOSENECK	7X14----------	$ 4,500
TANDEM AXLE	7X16----------	$ 4,650
	7X18----------	$ 4,770
	7X20----------	$ 4,920
	7X22----------	$ 4,990
	7X24----------	$ 5,180
	8X14----------	$ 4,870
	8X16----------	$ 5,050
	8X18----------	$ 5,190
	8X20----------	$ 5,290
	8X22----------	$ 5,505
	8X24----------	$ 5,880

UTILITY TRAILER	CARGO	VALUES
GOOSENECK	9X34----------	$ 8,990
TRI-AXLE	9X36----------	$ 9,625
	9X38----------	$ 10,225
	9X40----------	$ 10,800
	9X42----------	$ 11,300
	9X44----------	$ 11,775
	9X46----------	$ 12,400
	9X48----------	$ 15,000

BOAT TRAILER	**SINGLE AXLE**	**VALUES**
	15'----------	$ 820
	16'----------	$ 895
	17'----------	$ 1,300
	18'----------	$ 1,500
	19'----------	$ 1,610
	20'----------	$ 1,795
	21'----------	$ 2,050
	22'----------	$ 2,245

BOAT TRAILER	TANDEM AXLE	VALUES
	17'----------	$ 1,575
	18'----------	$ 1,855
	19'----------	$ 2,105
	20'----------	$ 2,195
	21'----------	$ 2,455
	22'----------	$ 2,720
	23'----------	$ 3,220
	24'----------	$ 3,695
	25'----------	$ 4,165
	26'----------	$ 4,640
	27'----------	$ 5,125
	28'----------	$ 5,385
	29----------	$ 5,670
	30'----------	$ 5,970
	31'----------	$ 6,220
	32'----------	$ 6,550
	33'----------	$ 6,900
	34'----------	$ 7,235
	35'----------	$ 7,635
	36'----------	$ 8,035

BOAT TRAILER	**TRI - AXLE**	**VALUES**
	26'----------	$ 5,245
	27'----------	$ 5,515
	28'----------	$ 5,815
	29'----------	$ 6,120
	30'----------	$ 6,440
	31'----------	$ 6,705
	32'----------	$ 7,075
	33'----------	$ 7,435
	34'----------	$ 7,835
	35'----------	$ 8,240
	36'----------	$ 8,635
	37'----------	$ 9,135
	38'----------	$ 9,325
	39'----------	$ 10,130
	40'----------	$ 10,655

HORSE AND STOCK TRAILERS

4-STAR **HORSE TRAILER TACK/DRESS ROOM**

BUMPER PULL

2 HORSE----------	$	15,254
3 HORSE----------	$	19,872
4 HORSE----------	$	24,132

GOOSENECK

2 HORSE----------	$	18,774
3 HORSE----------	$	22,900
4 HORSE----------	$	33,800
5 HORSE----------	$	42,800
6 HORSE----------	$	49,916

ALUM-LINE **STOCK TRAILER**

BUMPER PULL

14'----------	$	9,919
16'----------	$	10,715
18'----------	$	11,458

GOOSENECK

17'----------	$	14,640
19'----------	$	15,383
21'----------	$	16,019
23'----------	$	16,868
25'----------	$	17,504
27'----------	$	18,354
29'----------	$	19,043
31'----------	$	19,944

ALUM-LINE **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	12,624
3 HORSE----------	$	14,322

GOOSENECK

3 HORSE----------	$	17,823
4 HORSE----------	$	19,732
5 HORSE----------	$	21,324
6 HORSE----------	$	23,233

CHARMAC ALUMINUM **STOCK TRAILER**

BUMPER PULL

16'----------	$	9,942
18'----------	$	10,397

GOOSENECK

16'----------	$	11,447
18'----------	$	12,625
20'----------	$	12,837
22'----------	$	13,367
24'----------	$	14,004

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	13,528
3 HORSE----------	$	14,888
4 HORSE----------	$	16,663

GOOSENECK

2 HORSE----------	$	15,171
3 HORSE----------	$	16,727
4 HORSE----------	$	18,283
5 HORSE----------	$	20,378
6 HORSE----------	$	22,421

CHARMAC STEEL **STOCK TRAILER**

BUMPER PULL

12’----------	$	5,799
14’----------	$	6,223
26’----------	$	6,507
18’----------	$	6,789

GOOSENECK

14’----------	$	8,347
16’----------	$	8,630
18’----------	$	8,913
20’----------	$	9,196
22’----------	$	9,765
24’----------	$	10,330
26’----------	$	10,572
28’----------	$	11,387

CHARMAC STEEL **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	10,118
3 HORSE----------	$	11,349
4 HORSE----------	$	14,074

GOOSENECK

2 HORSE----------	$	13,403
3 HORSE----------	$	14,357
4 HORSE----------	$	15,737
5 HORSE----------	$	17,522
6 HORSE----------	$	18,407

HORSE TRAILER
WITH LIVING QUARTERS

GOOSENECK

3 HORSE----------	$	36,990
4 HORSE----------	$	39,130

CIRCLE D **STOCK TRAILER**

GOOSENECK

16'----------	$	7,532
18'----------	$	7,850
20'----------	$	8,275
24'----------	$	8,911

CM-ALUMINUM **STOCK TRAILER**

BUMPER PULL

16'----------	$	14,790

GOOSENECK

16'----------	$	17,994
20'----------	$	18,360
24'----------	$	20,220
28'----------	$	21,659

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	20,500
3 HORSE----------	$	23,800
4 HORSE----------	$	28,050

GOOSENECK

2 HORSE----------	$	22,525
3 HORSE----------	$	25,576
4 HORSE----------	$	29,395
5 HORSE----------	$	31,150
6 HORSE----------	$	34,800

CM-STEEL **STOCK TRAILER**

BUMPER PULL

10'----------	$	4,774
12'----------	$	5,092
14'----------	$	5,728
16'----------	$	5,994
17'----------	$	6,859

GOOSENECK

12'----------	$	8,142
14'----------	$	8,514
16'----------	$	8,699
20'----------	$	9,813
24'----------	$	11,458
28'----------	$	13,526
32'----------	$	15,012

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	6,604
3 HORSE----------	$	9,525

DIAMOND D **STOCK TRAILER**

BUMPER PULL

12'----------	$	4,698
16'----------	$	5,074

GOOSENECK

12'----------	$	6,058
14'----------	$	6,490
16'----------	$	7,759
18'----------	$	8,539
20'----------	$	8,757
24'----------	$	9,511
28'----------	$	10,150
32'----------	$	10,723

DIAMOND D **HORSE TRAILER**
WITH TACK ROOM

BUMPER PULL

2 HORSE----------	$	5,404
3 HORSE----------	$	6,818

GOOSENECK

2 HORSE----------	$	7,871
3 HORSE----------	$	7,954
4 HORSE----------	$	8,213
5 HORSE----------	$	10,371

DIAMOND D **HORSE TRAILER**
WITH DRESS ROOM

BUMPER PULL

2 HORSE----------	$	8,743
3 HORSE----------	$	9,948
4 HORSE----------	$	11,273

HORSE TRAILER
WITH TACK/DRESS ROOM

GOOSENECK

2 HORSE----------	$	11,473
3 HORSE----------	$	12,850
4 HORSE----------	$	14,504
5 HORSE----------	$	15,475
6 HORSE----------	$	17,770

HORSE TRAILER
WITH LIVING QUARTERS

GOOSENECK

3 HORSE----------	$	31,117
4 HORSE----------	$	32,392

DONAHUE	**STOCK TRAILER**		
	GOOSENECK		
	16'----------	$	6,895
	20'----------	$	7,903
	24'----------	$	8,699
	28'----------	$	10,609
	GOOSENECK w/HALF TOP		
	16'----------	$	7,426
	20'----------	$	8,434
	24'----------	$	8,911
	STOCK/COMBO TRAILER		
	GOOSENECK		
	16'----------	$	7,850
	20'----------	$	8,964
	24'----------	$	9,654
DREAM COACH EMERALD	**HORSE TRAILER**		
	BUMPER PULL		
	EMERALD 1----------	$	15,489
	EMERALD 2----------	$	15,798
	GOOSENECK		
EMERALD 1	2 HORSE----------	$	16,868
EMERALD 2	2 HORSE----------	$	17,133
EMERALD 1	3 HORSE----------	$	18,327
EMERALD 2	3 HORSE----------	$	18,804
	HORSE TRAILER W/LIVING QUARTERS		
EMERALD 1	2 HORSE----------	$	20,502
EMERALD 2	2 HORSE----------	$	22,787
EMERALD 1	3 HORSE----------	$	23,287
EMERALD 2	3 HORSE----------	$	23,764

DREAM COACH SILVER/PLATINUM **HORSE TRAILER**

BUMPER PULL

SILVER----------	$	17,597
PLATINUM----------	$	20,151

GOOSENECK

2 HORSE SILVER----------	$	19,096
2 HORSE PLATINUM----------	$	23,076
3 HORSE SILVER----------	$	24,128
3 HORSE PLATINUM----------	$	27,902

HORSE TRAILER w/LIVING QUARTERS

GOOSENECK

2 HORSE SILVER----------	$	24,400
2 HORSE PLATINUM----------	$	27,530
3 HORSE SILVER----------	$	27,742
3 HORSE PLATINUM----------	$	30,713

ELITE **STOCK TRAILER**

BUMPER PULL

16'----------	$	13,172
18'----------	$	14,800

GOOSENECK

16'----------	$	13,090
20'----------	$	14,259
24'----------	$	16,098
28'----------	$	16,985

ELITE **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	20,369
3 HORSE----------	$	24,400

GOOSENECK

2 HORSE----------	$	22,173
3 HORSE----------	$	26,231
4 HORSE----------	$	31,049
5 HORSE----------	$	35,487
6 HORSE----------	$	40,049

EXISS **STOCK TRAILER**

BUMPER PULL

13'----------	$	13,155
16'----------	$	14,693

STOCK/COMBO TRAILER

BUMPER PULL

13'----------	$	14,799
16'----------	$	16,762

GOOSENECK

16'----------	$	14,746
18'----------	$	15,652
20'----------	$	16,974
24'----------	$	19,096

EXISS **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	14,158
3 HORSE----------	$	16,195

GOOSENECK

2 HORSE----------	$	15,431
3 HORSE----------	$	16,598
4 HORSE----------	$	26,556
5 HORSE----------	$	31,789
6 HORSE----------	$	33,233

HORSE TRAILER
w/LIVING QUARTERS

GOOSENECK

3 HORSE----------	$	48,678
4 HORSE----------	$	61,524
7 HORSE----------	$	74,686

FEATHERLITE ALUMINUM **STOCK TRAILER**

BUMPER PULL

10'----------	$	11,850
12'----------	$	12,346
14'----------	$	13,290
16'----------	$	14,335
18'----------	$	14,708

GOOSENECK

16'----------	$	15,341
18'----------	$	15,750
20'----------	$	16,175
24'----------	$	17,706
30'----------	$	22,261

FEATHERLITE ALUMINUM **STOCK/COMBO TRAILER**

BUMPER PULL

12'----------	$	11,380
16'----------	$	12,423
18' 3 HORSE----------	$	18,170
20' 4 HORSE----------	$	19,716

GOOSENECK

16'----------	$	17,670
18'----------	$	17,689
20'----------	$	18,785
24'----------	$	20,379

FEATHERLITE ALUMINUM **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	21,620
3 HORSE----------	$	29,189
4 HORSE----------	$	33,206

GOOSENECK

2 HORSE----------	$	29,141
3 HORSE----------	$	30,144
4 HORSE----------	$	86,770
5 HORSE----------	$	100,100
6 HORSE----------	$	109,085
7 HORSE----------	$	115,047
8 HORSE----------	$	122,870

HORSE TRAILER w/LIVING QUARTERS

GOOSENECK

2 HORSE----------	$	55,408
3 HORSE----------	$	66,719
4 HORSE----------	$	66,975

FEATHERLITE STEEL **STOCK TRAILER**

BUMPER PULL

12'----------	$	4,925
16'----------	$	5,415

GOOSENECK

12'----------	$	5,994
14'----------	$	6,482
16'----------	$	7,620
18'----------	$	8,407
20'----------	$	8,537
24'----------	$	9,325

FEATHERLITE STEEL **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	9,628
3 HORSE----------	$	10,999
4 HORSE----------	$	12,290

GOOSENECK

2 HORSE----------	$	12,500
3 HORSE----------	$	13,957
4 HORSE----------	$	15,734
5 HORSE----------	$	16,739
6 HORSE----------	$	19,178

HORSE TRAILER w/LIVING QUARTERS

GOOSENECK

3 HORSE----------	$	36,824
4 HORSE----------	$	38,539

HART **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	17,717
3 HORSE----------	$	21,191

GOOSENECK

2 HORSE----------	$	21,562
3 HORSE----------	$	25,037
4 HORSE----------	$	28,026
5 HORSE----------	$	35,434

HORSE TRAILER
w/LIVING QUARTERS

GOOSENECK

2 HORSE----------	$	34,387
3 HORSE----------	$	39,240
4 HORSE----------	$	45,499

HILLSBORO ALUMINUM **STOCK TRAILER**

GOOSENECK

16'----------	$	18,241
18'----------	$	19,736
20'----------	$	20,772
22'----------	$	21,444
24'----------	$	21,900
26'----------	$	26,833
28'----------	$	27,538
30'----------	$	33,493
32'----------	$	34,303
34'----------	$	35,095

HILLSBORO STEEL	**STOCK TRAILER**		
	GOOSENECK		
	16'----------	$	8,221
	18'----------	$	8,672
	20'----------	$	8,999
	24'----------	$	10,294
	28'----------	$	12,318
HILLSBORO ALUMINUM	**STOCK/COMBO TRAILER**		
	GOOSENECK		
	3 HORSE----------	$	22,766
	4 HORSE----------	$	26,140
STEEL	3 HORSE----------	$	11,230
	4 HORSE----------	$	12,477
JACKSON	**HORSE TRAILER**		
	BUMPER PULL		
	2 HORSE----------	$	12,853
	3 HORSE----------	$	15,022
	4 HORSE----------	$	16,709
	GOOSENECK		
	2 HORSE----------	$	15,786
	3 HORSE----------	$	19,202
	4 HORSE----------	$	23,283
	6 HORSE----------	$	28,278

KIEFER BUILT ALUMINUM **STOCK TRAILER**

BUMPER PULL

16’----------	$	11,882
18’----------	$	13,632
20’----------	$	13,950

GOOSENECK

16’----------	$	17,239
18’----------	$	18,035
20’----------	$	18,141
22’----------	$	19,255
24’----------	$	20,157
26’----------	$	23,817
28’----------	$	23,870
30’----------	$	24,050
32’----------	$	24,165
34’----------	$	25,389
36’----------	$	27,279
38’----------	$	29,222
40’----------	$	31,290

KIEFER BUILT ALUMINUM **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	17,356
3 HORSE----------	$	18,756

GOOSENECK

2 HORSE----------	$	23,251
3 HORSE----------	$	25,835
4 HORSE----------	$	27,689
5 HORSE----------	$	31,814
6 HORSE----------	$	33,895

KIEFER BUILT ALUMINUM SKIN — **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	10,845
3 HORSE----------	$	11,300
4 HORSE----------	$	13,105

GOOSENECK

2 HORSE----------	$	14,600
3 HORSE----------	$	21,170
4 HORSE----------	$	23,345

LOGAN COACH — **STOCK TRAILER**

BUMPER PULL

13'----------	$	4,905
16'----------	$	5,730

GOOSENECK

16'----------	$	8,735
18'----------	$	9,224
20'----------	$	9,377
24'----------	$	10,502

LOGAN COACH — **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	11,675
3 HORSE----------	$	13,845
4 HORSE----------	$	15,450

GOOSENECK

2 HORSE----------	$	13,192
3 HORSE----------	$	18,261
4 HORSE----------	$	23,727

MERHOW ALUMINUM **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	15,745
3 HORSE----------	$	19,695
4 HORSE----------	$	22,670

GOOSENECK

2 HORSE----------	$	19,760
3 HORSE----------	$	23,660
4 HORSE----------	$	26,560

MERHOW STEEL **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	12,895
3 HORSE----------	$	16,073
4 HORSE----------	$	18,850

GOOSENECK

2 HORSE----------	$	16,690
3 HORSE----------	$	19,930
4 HORSE----------	$	22,448

PONDEROSA STEEL **STOCK TRAILER**

14'----------	$	3,554
16'----------	$	3,729
18'----------	$	3,914

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	4,495
3 HORSE----------	$	5,295

GOOSENECK

3 HORSE----------	$	6,995
4 HORSE----------	$	7,495

SOONER TRAILER **STOCK TRAILER**

GOOSENECK

16'----------	$	13,890
20'----------	$	14,170
24'----------	$	18,501
26'----------	$	22,840
28'----------	$	23,862

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	15,122
3 HORSE----------	$	17,600

GOOSENECK

2 HORSE----------	$	15,900
3 HORSE----------	$	21,715
4 HORSE----------	$	25,367
5 HORSE----------	$	25,759
6 HORSE----------	$	40,328

SUNDOWNER **STOCK TRAILER**

BUMPER PULL

12'----------	$	12,932
14'----------	$	13,743
16'----------	$	14,274
18'----------	$	14,762
20'----------	$	15,505
22'----------	$	16,003

GOOSENECK

16'----------	$	15,324
18'----------	$	15,770
20'----------	$	16,751
22'----------	$	17,526
24'----------	$	18,088
26'----------	$	18,788
28'----------	$	22,204
30'----------	$	23,228

SUNDOWNER **STOCK TRAILER**

GOOSENECK CONTINUED

32’----------	$	23,711
34’----------	$	24,416
36’----------	$	25,132
38’----------	$	25,864
40’----------	$	26,580

SUNDOWNER

HORSE TRAILER

BUMPER PULL

2 HORSE----------	$	15,442
3 HORSE----------	$	16,995
4 HORSE----------	$	20,847

GOOSENECK

2 HORSE----------	$	19,179
3 HORSE----------	$	24,795
4 HORSE----------	$	30,455
5 HORSE----------	$	35,174
6 HORSE----------	$	37,894
7 HORSE----------	$	43,466
8 HORSE----------	$	47,003
9 HORSE----------	$	49,250
10 HORSE----------	$	49,542

HORSE TRAILER w/LIVING QUARTERS

2 HORSE----------	$	62,969
3 HORSE----------	$	70,304
4 HORSE----------	$	76,340

THURO-BILT **STOCK TRAILER**

BUMPER PULL

SPIRIT----------	$	4,710
13’----------	$	5,341
17’----------	$	6,328
19’----------	$	6,826

HORSE TRAILER

2 HORSE----------	$	9,426
3 HORSE----------	$	11,256
4 HORSE----------	$	12,348

TITAN **STOCK TRAILER**

BUMPER PULL

10'----------	$	5,810
12'----------	$	5,953
14'----------	$	6,159
16'----------	$	6,318
18'----------	$	7,278
20'----------	$	7,518

GOOSENECK

10'----------	$	8,362
12'----------	$	8,521
14'----------	$	8,965
16'----------	$	9,248
18'----------	$	9,445
20'----------	$	9,723
22'----------	$	10,502
24'----------	$	11,277
26'----------	$	11,760
28'----------	$	12,237
30'----------	$	12,704
32'----------	$	13,174

TITAN **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	7,690
3 HORSE----------	$	9,824
4 HORSE----------	$	10,997

GOOSENECK

2 HORSE----------	$	13,709
3 HORSE----------	$	14,769
4 HORSE----------	$	18,980
5 HORSE----------	$	20,555

TRAILS WEST **STOCK TRAILER**

BUMPER PULL

12'----------	$	6,317
14'----------	$	6,445
16'----------	$	7,522
18'----------	$	7,670

GOOSENECK

12'----------	$	8,428
14'----------	$	8,450
16'----------	$	8,599
18'----------	$	9,341
20'----------	$	9,526
22'----------	$	10,296
24'----------	$	10,396

TRAILS WEST **HORSE TRAILER**

BUMPER PULL

2 HORSE----------	$	9,425
3 HORSE----------	$	13,147
4 HORSE----------	$	13,956

GOOSENECK

2 HORSE----------	$	12,504
3 HORSE----------	$	15,992
4 HORSE----------	$	17,095
5 HORSE----------	$	18,297
6 HORSE----------	$	21,195

W-W TRAILERS **STOCK TRAILER**

STEEL BUMPER PULL

10’----------	$	3,883
12’----------	$	3,904
14’----------	$	4,040
16’----------	$	4,291
17’----------	$	5,578

GOOSENECK

16’----------	$	5,260
18’----------	$	5,633
20’----------	$	6,250
24’----------	$	7,117
28’----------	$	8,312

HORSE TRAILER

BUMPER PULL

1 HORSE----------	$	3,363
2 HORSE----------	$	6,418
3 HORSE----------	$	6,680

GOOSENECK

3 HORSE----------	$	9,293
4 HORSE----------	$	10,476
6 HORSE----------	$	10,714

GENERIC STEEL **STOCK TRAILER**

BUMPER PULL	STEEL	ALUMINUM
6X14----------	$ 4,386	$ 10,971
6X16----------	$ 4,663	$ 11,661
6X18----------	$ 4,880	$ 12,205
6X20----------	$ 5,521	$ 13,134
GOOSENECK		
6X14----------	$ 5,214	$ 13,041
6X16----------	$ 5,485	$ 13,717
6X18----------	$ 6,036	$ 15,097
6X20----------	$ 6,136	$ 15,197
6X24----------	$ 6,323	$ 15,813

HORSE TRAILER

BUMPER PULL		
TWO HORSE STRAIGHT LOAD----------	$ 4,323	$ 10,812
TWO HORSE STRAIGHT LOAD w/TACK COMPARTMENT----------	$ 4,599	$ 11,502
TWO HORSE STOCK w/TACK/DRESSING ROOM----------	$ 5,002	$ 12,510
TWO HORSE SLANT w/TACK/DRESSING ROOM----------	$ 5,427	$ 13,571
THREE HORSE SLANT w/TACK/DRESSING ROOM----------	$ 5,819	$ 14,553
GOOSENECK		
THREE HORSE SLANT w/TACK/DRESSING ROOM----------	$ 6,281	$ 15,707
FOUR HORSE SLANT w/TACK/DRESSING ROOM----------	$ 6,726	$ 16,822

BUMPER PULL STOCK TRAILER

GOOSENECK STOCK TRAILER

BUMPER PULL COMBO TRAILER

GOOSENECK COMBO TRAILER

BUMPER PULL TRAILER w/TACK

GOOSENECK w/TACK/DRESSING ROOM

GOOSENECK w/LIVING QUARTERS

GENERIC **MOPED'S & SCOOTERS**

GAS & ELECTRIC POWERED

UP TO 50cc----------	$	1,000
150cc----------	$	1,500
200cc----------	$	2,000
250cc----------	$	2,500

GENERIC **MINI TRUCKS AND CARS**

ALL----------	$	5,500

GENERIC **STREET LEGAL GOLF CARTS**

AKA (LSV) Low Speed Vehicles

2 PERSON----------	$	8,500
4 PERSON----------	$	9,200

GENERIC **SMART CARS**

HATCHBACK----------	$	16,007
CONVERTABLES----------	$	19,930

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director, Dequandra Johnson**

cc: **Kermas Eaton, City Clerk**

Date: **Tuesday, August 18, 2026**

Re: **Approve the Revised Minor Housing Repair Program Guidelines Manual {CDBG Entitlement}.**
File Number: 2026-706
Minute Book #

Summary
Approve the Revised Minor Housing Repair Program Guidelines Manual {CDBG Entitlement}.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

MINOR HOUSING REPAIR PROGRAM GUIDELINES

Department of Urban Development

Community Development Division
601.554.1006
cdbg@hattiesburgms.com

Funding by HUD

Effective April 19, 2022

EQUAL HOUSING OPPORTUNITY

City of Hattiesburg Minor Housing Repair Program

Objective: The Minor Housing Repair Program is to aid low and moderate-income homeowners to make repairs when the qualified homeowner lacks sufficient resources of their own. The program exists to:

- Address serious disrepair conditions(s) that pose(s) an immediate threat to the health, safety, and welfare of the homeowner and occupants city-wide;
- Address *life-threatening* issues and safety code violations that exist in an eligible home.

It is not the intent of the Program or the City to bring a home into complete code compliance but to eliminate immediate hazardous conditions(s). Only the repair work performed is subject to code compliance and review.

Program Resources: Funding for the program comes from a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG). Assistance is in the form of a grant and is subject to the availability of CDBG funding budgeted for the Minor Housing Program.

Applicable Laws:
The City of Hattiesburg, contractors, subcontractors, subrecipients, and applicants are required to abide by a number of State and Federal laws, and will be required to sign documents certifying their compliance.

ELIGIBILITY REQUIREMENTS - APPLICANT

- Low to moderate-income homeowners in need of repairs essential to correct situations that pose an immediate threat to the health and safety of the residents;

Eligibility Criteria: The applicant must satisfy the following criteria to be eligible for program assistance:

A. Applicants must complete an application and provide all requested information. Unless the Community Development Division (CDD) employs other methods of targeting or prioritizing applications, applications will be accepted on a *first-come*, *first-served* basis as long as CDBG funds budgeted for minor housing repairs are available. Should other methods be used, metrics will be outlined in the materials advertising/marketing during the application period.
B. The applicant must be the owner of the property to be repaired, be able to provide proof of home ownership, and have resided in the dwelling for not less than one (1) year.
C. The household income must be classified as low to moderate income as defined by HUD Income Limits, at or below 80% of the area median income;

Number of Persons in Household	Maximum Income*
1	$44,700
2	$51,100
3	$57,500
4	$63,850
5	$69,000
6	$74,100
7	$79,200
8	$84,300

FY2026 HUD Income Limits (subject to change)

D. The applicant must be a U. S. citizen or a legal resident alien.
E. The applicant must have flood insurance, where applicable.
F. All applicants must be up to date with all property tax payments in order to be considered for the program.
G. Applicant must affirm that they intend to continue living in the home as their primary residence, following completion of the assisted repairs.

ELIGIBILITY REQUIREMENTS – PROPERTY

Eligibility Criteria: The dwelling must satisfy the following criteria to be eligible for program assistance:

A. The dwelling must be an owner-occupied, single-family residence, located within the corporate limits of Hattiesburg.
B. Where applicable, proof of flood insurance is required.
C. The dwelling must need immediate and necessary repairs to correct situations that pose a threat to the health and safety of those who reside in the home. Eligible minor repairs include, but are not limited to, electrical, roofing, plumbing, and HVAC repairs. Foundation repair or replacement is typically not eligible unless it contributes to an emerging condition and can all be addressed within the program budget.
D. The dwelling must not have previously received funds from the Community Development Division for housing rehabilitation or minor repairs.
E. The dwelling unit must not be recognized or classified as a manufactured or mobile home.

To ensure fair and equitable distribution of limited program resources, properties that have previously received housing rehabilitation or minor housing repair assistance through the Community Development Division are not eligible for additional funding under this program.

Funding will not be provided for partial correction, for non-eligible improvements, or to the owner in cash as reimbursement for the repair work completed (or to the owner directly for labor or materials purchased by the homeowner). If the bid for the approved minor housing repair is more than the funds provided by the grant, the project may be deemed ineligible for the program.

What Types of Repairs are Eligible?

Generally, repairs or modifications to achieve accessibility that are urgently needed to make the housing safe, sanitary, or habitable that can be completed for $20,000 or less are eligible for assistance.

Examples of Eligible Repairs:

Repairs necessary to protect the health and safety of the household or achieve accessibility to accommodate a disability include repair and/or replacement of:

- Failed plumbing fixtures;
- Clogged/broken sewer lines
- Damaged or exposed electrical wiring, switches, and/or outlets
- Deteriorated, dilapidated, and/or leaking roofs
- Window Replacement and Repair
- Moisture and Mold Mitigation
- Ventilation Improvements
- Installation of Exhaust Fans and Ventilation Systems
- HVAC System Repair or Replacement
- Failing flooring/decking
- Building a wheelchair ramp
- Widening doorways to rooms that must be accessible for living, etc.

Examples of Ineligible Repairs:

- Repairs that are only cosmetic in nature are not eligible.
- Perils covered by insurance claims are not eligible for funding.
- Repairs to a duplicate item when one is working may not be eligible except to prevent additional deterioration.

Example: In a house with two bathrooms where one has a working toilet and the other has a leaking toilet, if turning off the water supply to the toilet can stop the leak, no repair is allowed since a working toilet is available. However, if the leak is at or before the cutoff, a repair may be made to fix the leak or replace the cutoff to prevent further structural damage, and repairs may be made to any structural damage already covered.

Ineligible activities consist of any unnecessary physical improvements, any repairs solely of a cosmetic nature, repairs to sheds, and repairs to garages or any structure not attached to the living unit.

Unsafe and substandard structures that cannot be made safe for habitation for $20,000 or less will not be eligible for assistance under this program. If the repairs cannot be made for $20,000 or less, the house will be deemed infeasible and ineligible for assistance for the Minor Housing Repair Program.

If infeasible, the owner will receive a letter notifying them of the hazards and why assistance is being denied. Under circumstances where homes are located in a designated flood zone, repairs will be limited by the flood ordinance to 50% of the value of the home unless the project can include elevating the structure.

What is the maximum for the Program?

Maximum funding per application for owner-occupied single-family structures: Up to $20,000 per application may be available for approved, eligible repairs. Repair(s) estimated to cost over $20,000 are not eligible.

A Lifetime Maximum: This is a one-time assistance program. Each eligible property and household may receive funding through the Minor Housing Repair Program only once. Subsequent applications for the same household or property will not be considered, regardless of future need or program changes.

Limited Funds: Staff responds to requests for minor housing repair on a first-come, first-served basis (except as otherwise allowed herein), from the date the completed application is received. A specific amount of funding has been set up for each program year beginning January 1. No additional funds can be spent until the next program year begins.

Does the Repair Cost Need to Be Paid Back?

No. Assistance provided through the Minor Housing Repair Program is in the form of a grant and does not require repayment. No lien or deed restriction will be placed on the property as a condition of receiving assistance.

Preliminary Steps

How do I Apply?

1. Contact our office for a pre-screening application and initial assessment at 601.554.1006.
2. The CDD housing inspector will complete an inspection of the property to determine whether the work and/or property appear to be feasible.
3. Submit required documentation.

What Happens After I Apply?

CDD staff will complete a feasibility inspection to determine the probability that the project is feasible. If it is determined that the project is likely feasible, you will receive information and forms for a full application. CDD staff will verify all application information and conduct an environmental review.

Environmental Testing Requirements

As a HUD-funded program, all minor housing repairs must comply with the environmental review outlined in 24 CFR Part 58. To obtain environmental clearance, the City is required to conduct specific testing on all eligible properties prior to approval of any repair work.
Required testing may include, but is not limited to:

- Radon testing
- Asbestos inspection and sampling
- Lead-based paint evaluation
- Mold/moisture assessments
- Other testing as determined necessary under program guidelines and as part of environmental review compliance.

Once the project has cleared environmental requirements and verified homeowner eligibility, CDD staff will contact the homeowner to execute an agreement and review next steps for repair assistance.

If any information is found to be intentionally falsified, the application will be rejected, and the applicant will not be allowed to reapply for any program.
You will receive written notice of the date the application is accepted or rejected, with details of the decision if the application is rejected.

Temporary Relocation Requirements

In certain circumstances, environmental hazards or required repairs may temporarily displace a household. When applicable, temporary relocation will be handled in accordance with:

- **24 CFR 570.606(d)** — Uniform Relocation Assistance (URA) and temporary relocation requirements under CDBG
- **24 CFR 570.201(i)** — Public Services and related support activities

If temporary relocation is necessary:

- The City will provide guidance to the homeowner on their rights and responsibilities.
- Assistance may be provided only as required by HUD and only for the eligible period of displacement.
- The homeowner must return once the unit is determined safe.

Relocation is not required for every project; the need for temporary relocation will be evaluated on a case-by-case basis depending on the specific environmental conditions and scope of work.

Relocation is only used when staying in the home would pose an immediate health or safety risk due to mitigation, abatement, or repair activities.

Sequence of Events

The following outlines the normal sequence of events for a minor housing repair application. All application files will be maintained according to HUD requirements.

Step 1 – Application Process. All individuals will apply through the Community Development Division.

The applicant is required to furnish the following documentation to verify eligibility:

Income Verification:

- Three (3) months of recent pay stubs for all household members, 18 and over, who are not full-time students;
- If self-employed, provide a monthly profit and loss statement for the last three (3) months;
- Proof of alimony or child support;
- Proof of other income in the form of retirement pension, unemployment, foster care, and/or disability benefits;
- Three (3) months of bank statements and/or pension funds from all members of the household who are not full-time students.

CDD staff will verify income and use HUD's Income Limit Documentation System, which has developed income limits based on the median family income (MFI) for metropolitan areas. Income Limit guidelines for the current year, using the income calculator, are available on the HUD website. Only households that have income at or below the 80% AMI will qualify. If an applicant does not meet the income or program eligibility requirements, the applicant will be notified before the project evaluation.

Proof of Residency: Copy of a valid driver's license, Social Security card, or resident identity card, and a recent utility bill with the name supporting that the applicant lives in the house. Additionally, applicants will be required to affirm that they intend to continue living in the home following repairs.

Property taxes: CDD staff will review applicable city, county, and school district property tax information to verify that the applicant's payments are current.

Step 2 – Determination of Scope of Work. After reviewing the application and verifying all documentation, CDD staff will contact the applicant for an on-site project evaluation appointment. CDD staff will write up a short description of the project, including work needed, and photograph the areas in question. Basic measurements will be taken, and CDD staff will determine the scope of work, resources required for the project, and a feasibility review to ensure the project scope does not exceed the limits of the program.

CDD staff will also perform an environmental review. Projects that may affect painted surfaces may require lead testing for all homes built before 1978 to determine if the property will need to meet additional compliance specifications set forth by HUD.

Radon Testing Requirements

HUD environmental standards require radon testing in compliance with 24 CFR 58.5. The City conducts certified radon testing as part of its due diligence for all program applicants.

- If radon levels are below 4.0 pCi/L, the project may proceed.
- If radon levels are at or above 4.0pCi/L, radon mitigation is required before any work can be undertaken.

Because HUD does not permit rehabilitation in environments that pose a known environmental health hazard, the City cannot move forward with repairs until mitigation is completed.

*If mitigation costs exceed the program's established maximum assistance cap, or would make the project infeasible, the City may waive the costs due to extenuating circumstances due as the requirement of Radon Testing.

Extenuating Environmental Conditions & Circumstances

If any environmental testing identifies conditions requiring mitigation or abatement, such as:

- Elevated radon levels
- Asbestos-containing materials
- Mold requiring remediation
- Lead-based paint hazards

The applicant must understand:

1. The City may pause, defer, or terminate the project if remediation costs exceed program caps or render the project infeasible.
2. Environmental hazards requiring licensed abatement or specialized mitigation fall outside the scope of the Minor Housing Repair Program unless specifically eligible, fundable, and within program limits.

The Program's goal is to provide safe, cost-effective minor repairs; however, work cannot begin or continue where environmental hazards create a health and safety risk.

Step 3 – Homeowner Verification and Approval. CDD staff will meet with the applicant to discuss the proposed project and what may or may not be eligible for the program. CDD staff will discuss the parameters of the grant. If the homeowner agrees to the terms of the program, the agreement will be prepared and presented to the City Council for approval.

Step 4 – Contractor Information and Contracts. CDD staff will contact the CoH-approved list of Qualified Eligible Contractors (QEC list). This list is maintained by CDD and is updated at least annually. Homeowner(s) may elect to exclude one contractor before bid submission. Quotes will be requested from all eligible contractors. No contractor shall be allowed to submit a proposal or cost quotation

unless the contractor is a Qualified Eligible Contractor and maintains all required federal registrations, including an active registration in the System for Award Management (SAM.gov), as applicable.
The CDD will determine the lowest/best bid, present it to the homeowner along with a Contractor Homeowner agreement for execution, and coordinate with the contractor to undertake the project. The contractor is responsible for securing any required permits.

Step 5 – Timeframe. All work shall be completed according to the work write-up/bid solicitation within 30 working days after issuance of a notice to proceed. The nature of some repairs may warrant additional days, which must be stated in the agreement or by change order.

Step 6 – Final Inspection. Once the project is completed, CDD staff will contact the client to discuss the project. CDD staff will inspect the site to ensure work was completed according to the contract specifications. The contractor is responsible for passing all required building/system inspections. CDD staff will document work through before and after pictures and take pictures.

Once it has been determined that the work meets contract specifications, the contractor will be required to turn in a final invoice for work completed at the property and will be required to sign, certifying that the project was completed.

Step 7 – Customer Satisfaction Survey – For follow-up, the applicant will be mailed a Customer Satisfaction Survey. The CDD staff values citizen input; therefore, feedback is greatly appreciated as the City strives to improve future services.

Note: *It is the responsibility of the applicant to notify CDD staff of any problems that occur after project completion and are covered under the provided warranty.*

For Contractors
CDD staff will select contractors in accordance with applicable City procurement requirements and federal procurement standards under 2 CFR Part 200, including verification that contractors are not suspended, debarred, or otherwise excluded from participation in federal programs through the System for Award Management (SAM.gov).

Quotes shall be firm for a period of 30 calendar days from the date of bid closing.
**If the lowest responsible quote is above the City's maximum limit of $20,000 allowed for Minor Housing Repair projects, the application will be denied and the applicant notified.*

Staff will prepare appropriate contract documents and agreements for execution by the homeowner, contractor, and the City. If a contract is not executed, nor a Notice to Proceed issued within thirty (30) calendar days from bid opening, the contractor may withdraw his/her quote, thereby terminating and releasing both parties from any further obligation and liabilities.

CDD staff can execute change orders if issues are encountered on the project after the scope of work begins. Any contract modifications encountered during the project's execution will be subject to a cost-price analysis.

All work shall be completed according to the work write-up/bid solicitation within 30 working days after issuance of the Notice to Proceed, unless otherwise stated by contract or change order(s).

Warranty Requirements

The contractor shall provide a minimum one (1) year warranty on labor and workmanship for repairs completed under the Minor Housing Repair Program. Where installed equipment, materials, systems, or components are covered by a manufacturer warranty, the homeowner shall also receive the applicable manufacturer warranty. Specific warranty requirements may vary based on the type of repair or equipment installed and shall be identified in the applicable Contractor/Homeowner Agreement and/or project specifications.

At a minimum, warranty requirements shall include:

• **Roofing and General Repairs:** Minimum one (1) year contractor warranty on labor and workmanship. Any applicable manufacturer warranties on materials or installed components shall be provided to the homeowner.

• **HVAC:** Minimum one (1) year contractor warranty on labor and workmanship. HVAC equipment, parts, and components shall carry the applicable manufacturer warranty. The contractor shall provide all warranty documentation, model and serial numbers, and ensure that any required manufacturer warranty registration is completed, when applicable.

• **Plumbing and Electrical:** Minimum one (1) year contractor warranty on labor and workmanship. Manufacturer warranties applicable to installed fixtures, equipment, or components shall be provided to the homeowner.

• **Other Eligible Repairs:** Minimum one (1) year contractor warranty on labor and workmanship, together with any applicable manufacturer warranties for installed materials, equipment, or components.

Responsibilities

A. Responsibilities of the Applicant

- Submitting all required documents to determine eligibility for the program.
- Making reasonable accommodations to the schedules of the contractor and CDD staff for the purpose of inspections, completion of work, photographs, etc.
- Reviewing, executing, and understanding the program guidelines, work description, and all contract documents.
- Meeting all terms and conditions of the contracts.

B. Responsibilities of the Contractor

- All work shall be completed in accordance with the 2018 International Residential Codes (IRC) and City of Hattiesburg Performance Standards and Specifications.
- Submitting quotes complying with the City's standards on specified projects.
- Making reasonable accommodations to the schedules of the applicant and staff.
- Prompt communication with CDD Staff on unforeseen issues on the project as they arise.
- Completing the work as identified in the contract within the agreed-upon time frame.
- Communicating with City staff regarding the status of the work during and following project completion.
- Understanding the City's payment process.
- Any work outside the scope of the write-up is prohibited.

What The Program Is Not

Although the Minor Housing Repair Program is designed to respond to a wide variety of problems, it has limits and should not be confused with other programs offered by the City of Hattiesburg, Community Development Division.

- **It is not a rehabilitation program.** Many times, the most recent item, system, or structure to fail in a home may prompt the homeowner to seek assistance from the Minor Housing Repair Program, while many other items are also in need of repair. The Minor Housing Repair Program is designed to respond to the most urgent need, which, if left unrepaired, would lead to further deterioration or to the house becoming unlivable. The City of Hattiesburg, Community Development Division, also offers a Housing Rehabilitation Program that can address many more issues than Minor Repair.
- **It is not assistance for home sellers.** The homeowner must affirm that they intend to live in the home, as far as foreseeable. The funds are intended to keep a homeowner living in their home, not to assist them in selling it.
- **It is not a remodeling service.** To extend assistance to as many households as possible, systems and items must be repaired rather than replaced, if possible.
- **It is not a homebuyer program.** Applicants must have lived in the home for at least one year at the time of application.

Contact Information

City of Hattiesburg
Community Development Division
P.O. Box 1898
200 Forrest Street
Hattiesburg, MS 39403 – 1898
601.554.1006
cdbg@hattiesburgms.com

CHANGE HISTORY LOG	
April 5, 2022	Update manual format; add change history log; increase maximum budget from $10,000 to $15,000; remove homeowner's insurance requirements; add change history.
June 3, 2025	Increase maximum budget from $15,000 to $20,000; Update the manual to clarify and expand examples of eligible emergency repairs for improved guidance and consistency.
December 12, 2025	• Updated program name from Emergency Repair Program to Minor Home Repair Program. • Added environmental testing requirements for suspected lead, mold, asbestos, and/or radon, including triggers and basic procedures • Added extenuating conditions requiring radon testing and mitigation.
August 18, 2026	• Removed deed restriction/lien requirement and clarified owner-occupancy requirements. • Updated and clarified contractor labor/workmanship and manufacturer warranty requirements by repair type.

Memorandum

To: Mayor Toby Barker and Members of City Council

From: Wiley Quinn, Urban Development Director, Dequandra Johnson

cc: Kermas Eaton, City Clerk

Date: Tuesday, August 18, 2026

Re: Approve an amendment to the City of Hattiesburg's Community Development Residential Anti-Displacement and Relocation Assistance Plan (RARAP) for the CDBG and HOME Programs.
File Number: 2026-707
Minute Book #

Summary
Approve an amendment to the City of Hattiesburg's Community Development Residential Anti-Displacement and Relocation Assistance Plan (RARAP) for the CDBG and HOME Programs.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

City of Hattiesburg
Department of Urban Development
Community Development Division

Residential Anti-Displacement
and
Relocation Assistance Plan (RARAP)

EQUAL HOUSING OPPORTUNITY

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Purpose

This Residential Anti-Displacement and Relocation Assistance Plan is adopted pursuant to Section 104(d) of the Housing and Community Development Act of 1974, as amended; the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (URA), as amended; 49 CFR Part 24; applicable provisions of 24 CFR Part 42; and applicable HUD regulations governing the Community Development Block Grant (CDBG) and HOME Investment Partnerships Program.

The purpose of this Plan is to inform the public of steps which the City's Community Development Division (CDD) will take to minimize displacement as a result of CDBG and HOME funded project(s) and comply with relocation assistance and one-for-one replacement as required by federal law and cited herein.

Minimizing Displacement

Consistent with the goals and objectives of activities assisted under the Act, the City of Hattiesburg will avoid displacement of people from their homes when implementing CDBG or HOME-funded projects.

The City's CDD will evaluate each proposed project before funding is committed to determine whether displacement can reasonably be avoided.

Should displacement and relocation be unavoidable, the City of Hattiesburg will take the following steps to minimize the direct and indirect impacts on people affected by the City's actions:

- Evaluate housing codes and rehabilitation standards and coordinate code enforcement with rehabilitation standards in reinvestment areas to prevent undue financial burden on established owners and tenants.
- Coordinate code enforcement with housing maintenance and rehabilitation programs to maintain the quality of the housing stock and to avoid deterioration and private sector disinvestment in residential neighborhoods.
- Prior to committing HOME or CDBG funding to a project, the City will collect information on existing structures and occupants to assess the potential impact of the proposed project.
- The City will target only those properties deemed essential to the need or success of the project.
- Where feasible, give priority to rehabilitation of housing, as opposed to demolition, to avoid displacement.
- The City will provide required notices and relocation assistance, when applicable, in

accordance with the URA, Section 104(d), and the City's CDD Temporary Relocation Policy.

- The City will communicate to potential developers that projects requiring displacement of residents will not be considered competitive for funding.
- If temporary or permanent relocation is contemplated by a project, the City will require the project developer, sponsor, owner or CHDO to submit a detailed relocation plan that describes the entire relocation process and its impact on all current occupants. The City will actively consult with the developer in an effort to minimize displacement. If current tenants must move as part of the rehabilitation process, the City will encourage sponsors/developers to provide those who are eligible an opportunity to rent a unit in the new project upon its completion.
- For rehabilitation of projects that require temporary relocation of residential tenants or homeowners, the City will encourage project developers/sponsors to minimize the amount of time that tenants are required to relocate from their unit. To the extent feasible, construction should be phased to allow tenants to remain in their units as long as possible.

Relocation Assistance

The City's CDD will provide relocation assistance in accordance with applicable federal laws and regulations when an individual or household is determined to be a displaced person under the Uniform Relocation Assistance and Real Property Acquisition Policies Act (URA), Section 104(d) of the Housing and Community Development Act, or other applicable HUD requirements.

Relocation assistance may be required when an individual or household is displaced as a direct result of a federally assisted activity, including demolition, conversion, acquisition, rehabilitation, or other activities subject to the URA or Section 104(d).

Temporary Relocation

- When rehabilitation activities require an occupant to temporarily vacate a dwelling, the City will make every reasonable effort to minimize the length of the relocation and allow the occupant to return to the rehabilitated home upon completion of the work. Temporary relocation does not constitute permanent displacement when the occupant returns to the same dwelling and all applicable HUD and URA requirements are satisfied.

  Temporary relocation assistance provided under the City's rehabilitation programs is intended to facilitate the occupant's return to the rehabilitated dwelling and is not intended to constitute permanent relocation benefits under the URA.

Eligible occupants shall receive temporary relocation assistance in accordance with the City's adopted Temporary Relocation Policy. The Policy establishes eligibility requirements, the City's temporary housing assistance, required notices, execution of a Temporary Relocation Agreement, and procedures governing the occupant's return to the rehabilitated dwelling.

A. Permanent Relocation: Persons displaced may be eligible for:

- If a City-assisted project results in the permanent displacement of an occupant, as defined under the Uniform Relocation Assistance and Real Property Acquisition Policies Act (URA) or Section 104(d) of the Housing and Community Development Act, the City shall administer relocation assistance and benefits in accordance with applicable federal laws and regulations.

B. Section 104(d)

- When applicable, the City shall comply with Section 104(d) of the Housing and Community Development Act of 1974, as amended, including one-for-one replacement requirements and any relocation assistance requirements applicable to lower-income households.

One-for-One Replacement

The City of Hattiesburg will act in accordance with Section 104(d), as implemented in 24 CFR Section 42.375, which requires one-for-one replacement of all occupied or vacant and occupiable lower-income dwelling units demolished or converted to use other than lower-income housing in connection with a project assisted with funds provided under the CDBG or HOME Program.

Prior to entering into a written agreement committing CDBG or HOME funds for any activity that will directly result in the demolition of lower-income dwelling units or the conversion of lower-income dwelling units to another use, the City will make the required project information available to the public. Consistent with the City’s Citizen Participation Plan, the City will provide a minimum fifteen (15) day public-comment period. The City will also submit the required information to HUD in accordance with 24 CFR 42.375, including:

1. A description of the proposed assisted project;
2. The location on a map and number of units by size (number of bedrooms) that will be demolished or converted;
3. A schedule for the commencement and completion of the demolition or conversion;
4. To the extent known, the address, location on a map, and number of lower-income dwelling units by size (number of bedrooms) and location on a map of the replacement units. If not yet known, the submission shall identify the general location and approximate number of units by size, and more specific information shall be submitted and disclosed

to the public as soon as it is available;

5. The source of funding and a timeline for the provision of replacement dwelling units;
6. The basis for concluding that each replacement dwelling unit will remain a lower-income unit for at least 10 years from the date of initial occupancy; and
7. Information demonstrating that any proposed replacement of lower-income dwelling units with smaller dwelling units is consistent with the housing needs and priorities identified in the current HUD-approved Consolidated Plan.

Replacement Housing Requirements

In accordance with 24 CFR 42.375(b), replacement lower-income dwelling units shall:

- Be located within the City's jurisdiction and, to the extent feasible and consistent with applicable statutory priorities, within the same neighborhood as the units being replaced;
- Be sufficient in number and size to house at least the number of occupants who could have been housed in the units demolished or converted, based on applicable local housing occupancy standards;
- Be provided in standard condition;
- Be initially made available for occupancy during the period beginning one (1) year before the City makes the required replacement information public and ending three (3) years after commencement of the demolition or rehabilitation related to the conversion; and
- Be designed to remain lower-income dwelling units for at least ten (10) years from the date of initial occupancy.

Replacement of units with smaller units shall only be permitted when the applicable requirements of 24 CFR 42.375 have been satisfied.

Replacement Not Required, Based on Unit Availability

Under 24 CFR 42.375(d), the City of Hattiesburg may submit a request to HUD for a determination that the one-for-one replacement requirement does not apply if objective data demonstrate an adequate supply of vacant lower-income dwelling units in standard condition available on a nondiscriminatory basis within the area. The City shall submit the request directly to the HUD Field Office and, simultaneously with the submission, make the request public and inform interested persons that they have thirty (30) days from the date of submission to provide HUD with additional information supporting or opposing the request.

Contact

The CDD is responsible for administering temporary relocation assistance and, when applicable, permanent relocation assistance in accordance with this Plan and applicable federal regulations. Any questions, concerns, or requests for additional information should be directed to the City of

Hattiesburg, Community Development Division at (601) 554-1006 or via fax at (601) 545-4592.

Appeals

Assistance, or lack thereof, that can be appealed may include the person's eligibility for, or the amount of, payments required for moving or replacement housing. Any person who believes he/she has been displaced for a federally assisted project may file a written appeal with the City.

Step 1

- The appellant shall submit a written appeal to the CDD within sixty (60) calendar days after receiving written notification of the determination being appealed.

Step 2

- The CDD shall review the appeal and provide a written determination within thirty (30) calendar days of receiving the appeal. If additional time is needed due to the complexity of the appeal, the appellant will be notified in writing of the reason for the delay and the anticipated response date. The appeal shall be reviewed by the head of the agency or an authorized designee who was not directly involved in the determination being appealed.

Step 3

- If the appellant is dissatisfied with the City's CDD determination, the appeal may be submitted to the appropriate HUD office in accordance with applicable federal regulations.

If a person believes that the City has failed to properly consider the person's application for assistance under the Uniform Act or Section 104(d) of the Housing and Community Development Act, by denying benefits, an appeal should be sent to, and will be reviewed by, the HUD Regional Office of Community & Planning Development listed here:

U.S. Department of Housing & Urban Development
Office of Community & Planning Development
100 West Capital Street, Suite 910
Jackson, MS 39269-1096

CHANGE HISTORY LOG	
August 18, 2026	Comprehensive update to align with current HUD guidance; clarified temporary versus permanent relocation, updated URA and Section 104(d) references and one-for-one replacement procedures; revised appeals process and timelines, and streamlined policy language.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Wiley Quinn, Urban Development Director, Dequandra Johnson**

cc: **Kermas Eaton, City Clerk**

Date: **Tuesday, August 18, 2026**

Re: **Approve and authorize issuance of manual checks for CDBG/HOME Claims per attached.**
File Number: 2026-656
Minute Book #

Summary
Approve and authorize issuance of manual checks for CDBG/HOME Claims per attached.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

STARTER HOMES OF MISSISSIPPI
57 CARTER DRIVE
SEMINARY, MS. 39479
PHONE: (601) 408-7120

Date: 8/3/26

BILL TO:

MR. WILEY QUINN
COMMUNITY DEVELOPMENT
P.O. BOX 1898
HATTIESBURG, MS. 39401

Re: Roof Replacement Reimbursement
Labor & materials to complete repair

Project Site: *725 Grace Avenue*

Invoice # 725-2026

Description	*QUANTITY*	*Price*	*Total*
Bundles of shingles	99	50	4950
Boxes of nail-over ridge	3	175	525
Boxes of drip edge	1	255	255
Synthetic Felt	4	90	360
½" OSB	100	25	2500
Nails for Felt & shingles	4	85	340
Rubber/ Metal? Zipper Boots	3	50	150
1x6 0r 1x8 Fascia	2	50	100
1x2	2	40	80
3/8" A.C.	2	50	100
#8 Decking/ #8 Finish/ #8 Metabo Nails	2	85	170
Paint	1	100	100
Insurance			350
Roof Labor			6455
Project Manager			1000
Clean-Up & Haul Away Debris			1000

TOTAL AMOUNT DUE: ***$18,435.00***

RECEIVED 8/3/26

Invoice

Remit To:
Terracon Consultants, Inc.
PO Box 959673
St. Louis, MO 63195
P (800) 593-7777
Terracon.com

To: **City of Hattiesburg MS**
C/O: Community Development Division
Kendrick Laster
PO Box 1898
Hattiesburg MS
39403

Invoice No.:	21476
Invoice Date:	07/30/2026
Terms:	NET 30
Due Date:	08/29/2026
For the Period:	07/25/2026 - 07/25/2026

Contract Name: EB247261-City of Hattiesburg Radon Testing Services

Description of Services

Other

Event Description	Amount
1210 Estelle Avenue	$3,255.00
1812 Pearl Street	$3,075.00
530 Dawson Street	$3,195.00
537 N 19th Avenue	$3,255.00
606 MLK Avenue	$3,255.00
617 Duke Avenue	$3,255.00
Subtotal Events:	**$19,290.00**
Invoice Subtotal:	**$19,290.00**
Sales Tax:	**$0.00**
Invoice Total:	**$19,290.00**

Statement of Account:

Contract Amount:	$150,000.00
Amount Previously Billed:	$133,575.00
Total Due this Invoice Date:	$19,290.00
Total Billed:	$152,865.00
Payments to Date:	$132,675.00
Total Due:	$20,190.00

RECEIVED 7/31/26

EB247261 City of Hattiesburg LeadSafe Program and Radon Sampling

1812 Pearl Street			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 5 samples	$300
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,075
537 N 19th Avenue			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 8 samples	$480
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,255
617 Duke Avenue			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 8 samples	$480
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,255
1210 Estelle Avenue			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 8 samples	$480
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,255
530 Dawson Street			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 7 samples	$420
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,195
606 MLK Avenue			
Mobilization/Demobilization	$350	x 2 Each	$700
Radon Samples	$60.00 per sample	X 8 samples	$480
Radon Sampling Services	$500 per house	X 1 Each	$500
Per Diem	$100 per diem	X 1 Day(s)	$100
Reporting Services	$900 per house	X1 Each	$900
Program Coordination and Project Management			
Administrative	$90	x1 Hours	$90
Program Manager	$175	x1 Hours	$175
Project Industrial Hygienist	$155	x2 Hours	$310
			$3,255

INVOICE

Frye Environmental
126 Stamp Mill Lane
Dahlonega, GA 30533
404-313-7139
Sandra@frye-environmental.com

Purchase Order Number NA
Date : 8/5/2026
Invoice Number: 0008

City of Hattiesburg, Community Development Division
Dequandra Johnson
P.O. Box 1898
Hattiesburg, MS 39403-1898

Type of Work	Project Description	Total Hours worked	Line Total
Environmental Reviews	Tier 2 Checklist - 530 Dawson Street	3.00	$ 600.00
	Tier 2 Checklist - 606 MLK Avenue	3.00	$ 600.00
	Tier 2 Checklist - 617 Duke Avenue	3.00	$ 600.00
	Tier 2 Checklist - 537 N. 19th Avenue	3.00	$ 600.00
	Tier 2 Checklist - 1812 Pearl Street	3.00	$ 600.00
	Credit - 802 Northhill Drive (Invoice 2, 11/7/25)		$ (525.00)

Subtotal	$ 2,475.00
Sales Tax @	$ -
TOTAL	$ 2,475.00

Make all checks payable to Frye Environmental.

THANK YOU FOR YOUR BUSINESS!

DEC 8/5/26

Service provided	Federal Program	Project Address	Status	Project Description	Start Date	End Date	Total hours worked	Hourly rate	Total Cost
Part 58 Tier 2	CDBG- Emergency Repair	606 MLK Avenue	Complete	Single-family roof repair	7/27/2026	8/3/2026	3	$ 200.00	$600.00
Part 58 Tier 2	CDBG- Emergency Repair	617 Duke Avenue	Complete	Single-family roof repair	7/27/2026	8/3/2026	3	$ 200.00	$ 600.00
Part 58 Tier 2	CDBG- Emergency Repair	530 Dawson Street	Complete	Single-family roof repair	7/27/2026	8/3/2026	3	$ 200.00	$600.00
Part 58 Tier 2	CDBG- Emergency Repair	1812 Pearl Street	Complete	Single-family roof repair	7/27/2026	8/4/2026	3	$ 200.00	$600.00
Part 58 Tier 2	CDBG- Emergency Repair	537 N. 19th Avenue	Complete	Plumbing repairs	7/27/2026	8/4/2026	3	$ 200.00	$600.00
Total							15	0	$3,000.00

RECEIVED
8/5/26

STARTER HOMES OF MISSISSIPPI

57 CARTER DRIVE

SEMINARY, MS. 39479

PHONE: (601) 408-7120

Date: 8/10/26

BILL TO:

MR. WILEY QUINN

COMMUNITY DEVELOPMENT

P.O. BOX 1898

HATTIESBURG, MS. 39401

Re: Roof Replacement Reimbursement

Labor/ Materials to Complete Repair

PROJECT ADDRESS: 400 S.22nd Avenue

INVOICE # 400-2026

DESCRIPTION	QUANTITY	PRICE	TOTAL
Bundles of Shingles	114	48	5472
Synthetic Felt	4	90	360
Nails for Felt & Shingles	3	85	255
Boxes of Drip Edge	1	150	150
Boxes of Nail-Over Ridge/ Turbines	2	175	350
¾" CDX for Overhangs	-	-	-
1/2" OSB	100	35	3500
1x10x12' Decking	-	-	
1x6 or 1x8 Fascia	2	50	100
1x2	-	-	-
3/8" A.C.	1	50	50
1x6 or 1x8 C-Pine	-	-	-
#8 Decking/ #8 Finish/ #8 Metabo Nails	3	80	240
Metal Flashing	2	25	50
Rubber/Metal/Zipper Boots	4	87.50	350
Roof Labor	-	-	5948
Insurance	-	-	350
Project Manager	-	-	500
Paint	1	75	75
Clean-Up & Haul Away Debris	-	-	750
TOTAL AMOUNT DUE:			$18,500.00

RECEIVED 8/10/26

"Breaking the Shackles of Poverty through Services"

INVOICE
REIMBURSEMENT

Breakthrough Community Services, Inc.
1313 Country Club Road
Hattiesburg, MS 39401
P 601-582-3475
F 601-582-0149

BILL TO:
Community Development Division
P. O. Box 1898
Hattiesburg, MS 39403-1898

Project	Agency Project	Invoice	Date
Public Service Grant	Utility Assistance Program	11	08/10/2026

Quantity	Description	Unit Price	Total
1	Utility Assistance Program Admin Expenses	1	$4,042.50
			$4,042.50

Make all checks payable to **Breakthrough Community Services, Inc.**

THANK YOU FOR YOUR BUSINESS!

8/10/26

Breakthrough Community Services

Utility Assistance Program

Administrative and Program Cost Summary

May 2026-August 2026

Expense Category	Description	Amount
Wages	Admin Staff	$4,042.50
Office Supplies	Folders and files	$234.80
Printing	Copies, paper	$250.00
Program Expenses	Utilities	$19,948.69
Total Program Expenses		$24,475.99
Administrative Cost %		18.50%

Date Wednesday, August 5, 2026

Administra Description	Amount
Salaries & Wages	$4,042.50
Office Supplies	$234.80
Postage & Printing	$250.00
Office Rent/Facility Costs	$0.00
Utilities	$0.00
Insurance	$0.00
Accounting/Bookkeeping	$0.00
Audit/Legal Fees	$0.00
Computer & Software	$0.00
Travel (Administrative)	$0.00
Equipment & Maintenance	$0.00
Other Administrative Costs	$0.00
Total Administrative Expenses	$4,527.30
Total Program Expenses	$24,475.99
Administrative Cost Percentage	18.50%

"Breaking the Shackles of Poverty through Services"

INVOICE
REIMBURSEMENT

Breakthrough Community Services, Inc.
1313 Country Club Road
Hattiesburg, MS 39401
P 601-582-3475
F 601-582-0149

BILL TO:
Community Development Division
P. O. Box 1898
Hattiesburg, MS 39403-1898

Project	Agency Project	Invoice	Date
Public Service Grant	Utility Assistance Program	10	08/10/2026

Quantity	Description	Unit Price	Total
1	Utility Assistance Program	1	$692.32
			$692.32

Make all checks payable to **Breakthrough Community Services, Inc.**

THANK YOU FOR YOUR BUSINESS!

RECEIVED 8/10/26

COMMUNITY SERVICES

BREAKTHROUGH

"Breaking the Shackles of Poverty through Service"

Utility Assistance Program

The following applicants listed below are eligible for the Utility Assistance Program. The five (5) individuals meet income & criteria eligibility (limited clientele) for the UAP Program.

Applicant	Servicer	Amount
[redacted] Grayson	Spire/00006223-002	$200.00
[redacted] Carter	Mississippi Power/06661-83080	$55.00
[redacted] Jemison	Mississippi Power/69231-83015	$148.00
[redacted] Holmes	Spire/ 000079456-001	$107.49
[redacted] Blakney	Spire/000053796-001	$181.83
		$692.32

1313 Country Club Road, Hattiesburg, MS 39401 (601) 582-3475 (601) 582-0149 fax www.themtolivechurch.org

"Breaking the Shackles of Poverty through Services"

INVOICE

REIMBURSEMENT

Breakthrough Community Services, Inc.
1313 Country Club Road
Hattiesburg, MS 39401
P 601-582-3475
F 601-582-0149

BILL TO:
Community Development Division
P. O. Box 1898
Hattiesburg, MS 39403-1898

Project	Agency Project	Invoice	Date
Public Service Grant	**Utility Assistance Program**	**9**	**August 4, 2026**

Quantity	Description	Unit Price	Total
1	**Utility Assistance Program Supplies**		**$484.80**
			$484.80

Make all checks payable to **Breakthrough Community Services, Inc.**

THANK YOU FOR YOUR BUSINESS!

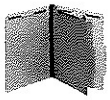
Shipment 2 of 2

ORDER NUMBER	ORDER STATUS	TOTAL
473462593-001	Delivered	$179.71

Delivered on July 17, 2026

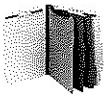
Office Depot® Brand Pressboard Classification Folders With Fasteners, 1 Divider, Letter Size (8-1/2" x 11"), 2" Expansion, Red, Box Of 10
Item #543865

Qty: 1 @ $30.99 / box
$30.99
Eco Conscious Recycled Content



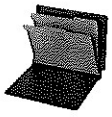
Office Depot® Brand Pressboard Classification Folders With Fasteners, Legal Size, 100% Recycled, Light Blue, Pack Of 10 Folders
Item #544261

Qty: 1 @ $26.79 / box
$26.79
Eco Conscious Recycled Content



Office Depot® Brand Pressboard Classification Folders With Fasteners, Letter Size, 100% Recycled, Light Green, Box Of 10
Item #544576

Qty: 1 @ $34.99 / box
$34.99
Eco Conscious Recycled Content



Pendaflex® End-Tab Classification Folders, Letter Size, Dark Blue, Box Of 10
Item #6535387

Qty: 1 @ $52.49 / box
$52.49
Eco Conscious Recycled Content

Office Depot® Brand Economy File Folders, 1/3 Cut, Letter Size, Manila, Pack Of 150

Item #172816

Qty: 1 @ $22.69 / box

$22.69

Eco Conscious Recycled Content

Shipment 2

473462593 001

Item Subtotal:	$167.95
Taxes:	$11.76
Order Total	**$179.71**

Office DEPOT OfficeMax

Order Date 07/20/2026 6:36pm

Order Details

Delivery

Attention:
Hattiesburg, MS 39401-7680 USA

Payment

Amount: $55.09

***9535

Additional Info

Shipment 1 of 2

ORDER NUMBER	ORDER STATUS	TOTAL
471081221-001	Delivered	$55.09

Delivered on July 23, 2026

Office Depot® Brand File Folders, 1/3 Cut, Letter Size, Manila, Pack Of 250
Item #645927

Qty: 1 @ $51.49 / box

$51.49

Eco Conscious Recycled Content

Shipment 1

471081221 001

Item Subtotal:	$51.49
Taxes:	$3.60
Order Total	**$55.09**

MOUNT OLIVE BAPTIST CHURCH
1313 Country Club Road
Hattiesburg, MS 39401

Date: 07/23/2026
Page: 1

Customer Invoice

Federal Tax ID: 64-0812429

2
Breakthrough Community Services, INC
1313 Country Club Road
Hattiesburg, MS 39401

Invoice Number	Type	Invoice Date	Due Date	Description	Charges	Credits	Invoice Amount
29	Invoice	06/18/2026	06/18/2026				$250.00
				Printing and Office Su	$250.00		
					Total Amount:		$250.00

STARTER HOMES OF MISSISSIPPI
57 CARTER DRIVE
SEMINARY, MS. 39479
PHONE: (601) 408-7120

Date: 8/10/26

BILL TO:
MR. WILEY QUINN
COMMUNITY DEVELOPMENT
P.O. BOX 1898
HATTIESBURG, MS. 39401

Re: Roof Replacement Reimbursement
Labor & Materials to Complete Repair

PROJECT DESCRIPTION: 144 W. 5th Street

INVOICE # 144-2026

DESCRIPTION	QUANTITY	PRICE	TOTAL
Bundles of Shingles	135	48	6480
Synthetic Felt	4	95	380
Nails for Felt & Shingles	4	85	340
Boxes of Drip Edge	1	150	150
Boxes of Nail-Over Ridge/ Turbines	2	175	350
¾" CDX for Overhangs	-	-	-
1/2" OSB	22	35	770
2x6x20'	10	20	200
2x8x12'	4	20	80
2x4x12'	6	12	72
3/8" A.C.	2	40	80
1x6 or 1x8 C-Pine	2	10	20
#8 Decking/ #8 Finish/ #8 Metabo Nails	1	75	75
Metal Flashing	10	15	150
Rubber/Metal/Zipper Boots	5	25	125
Roof Labor	-	-	8413
Insurance	-	-	350
Project Manager	-	-	1000
Paint	-	-	-
Clean-Up & Haul Away Debris	-	-	750
TOTAL AMOUNT DUE:			**$19,785.00**

Rec'd 8/10/26

STARTER HOMES OF MISSISSIPPI
57 CARTER DRIVE
SEMINARY, MS. 39479
PHONE: (601) 408-7120

Date: 8/10/26

BILL TO:
MR. WILEY QUINN
COMMUNITY DEVELOPMENT
P.O. BOX 1898
HATTIESBURG, MS. 39401

Re: Roof Replacement Reimbursement
Labor & Materials to Complete Repair

PROJECT DESCRIPTION: 704 Walnut Street

INVOICE # 704-2026

DESCRIPTION	QUANTITY	PRICE	TOTAL
Bundles of Shingles	114	48	5472
Synthetic Felt	4	95	380
Nails for Felt & Shingles	4	85	340
Boxes of Drip Edge	1	150	150
Boxes of Nail-Over Ridge/ Turbines	2	175	350
¾" CDX for Overhangs	25	40	1000
1/2" OSB	10	35	350
1x8x12' Decking	4	25	100
1x2	15	30	450
1x6 or 1x8 Fascia	15	45	675
3 5/8' Crown Mold	1	25	25
1x6 or 1x8 C-Pine	-	-	-
#8 Decking/ #8 Finish/ #8 Metabo Nails	2	75	150
Metal Flashing	6	15	90
Rubber/Metal/Zipper Boots	4	25	100
Roof Labor	-	-	7248
Insurance	-	-	350
Project Manager	-	-	1000
Paint	1	100	100
Clean-Up & Haul Away Debris	-	-	1200
TOTAL AMOUNT DUE:			$19,530.00

RECEIVED 8/10/26

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Sylvester London, Division Manager**

cc: **Kermas Eaton, City Clerk**

Date: **Tuesday, August 18, 2026**

Re: **Approve Specifications and Authorize publication of an advertisement for term bids for items #11, 20 & 26 for the City of Hattiesburg Water Department.**
File Number: 2026-709
Minute Book #

Summary
Approve Specifications and Authorize publication of an advertisement for various term bid items for the City of Hattiesburg Water Department.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

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, September 17, 2026**, in the City Clerk's Office in the City Hall of said City for furnishing the City's requirements of the following supplies for the **Water Department** beginning on **October 1, 2026 and ending September 30, 2028**, to-wit:

ITEM #11	**CHLORINE GAS AND SULFUR DIOXIDE FOR THE CITY OF HATTIESBURG**
ITEM #20	**FURNISH LABOR, EQUIPMENT AND MATERIAL FOR REPAIR, REPLACEMENT OR INSTALLATION OF DUCTILE IRON OR PVC WATER LINES AND FIEEINGS FOR THE CITY OF HATTIESBURG**
ITEM #26	**SANITARY SEWER LINE AND STORM SEWER REPAIR OR REPLACEMENT AND NEW INSTALLATION AS PROVIDED FROT THE PUBLIC SERVICES 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 comer with the word ABID@ 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 31-713 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 18th day of August, 2026.

CITY OF HATTIESBURG, MISSISSIPPI

_____

CITY CLERK

(S E A L)

SPECIFICATIONS FOR ITEM # 11: CHLORINE GAS AND SULFUR DIOXIDE FOR THE CITY OF HATTIESBURG WATER DEPARTMENT

Bidder shall bid on furnishing Chlorine Gas, which meets or exceeds the following specifications, to-wit:

100% active Chlorine Gas suitable for water purification, in 150-pound and one (1) ton containers.

Sulfur Dioxide suitable for water dichlorination in one (1) ton containers.

Price shall include delivery by truck equipped with loading and unloading mechanism to handle containers at point of delivery. No overhead lifting facilities available at point of delivery.

Must meet all requirements of AWWA Standard #B301-81.

The City of Hattiesburg will only accept bids for products manufactured and assembled/packaged in plants located in the United States. Written Certification shall be provided upon request of Hattiesburg Water Department Officials.

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 October 1, 2026, and ending September 30, 2028, 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 twenty-four (24) hours after issuance of purchase order, F.O.B. Hattiesburg, Mississippi, as indicated on Purchase Order, freight prepaid to all the following locations located within the city limits of Hattiesburg, Mississippi:

Methodist Tank	450 Weathersby Road
4th Street Well	3320 W 4th Street
USM Tank and Well	2811 W 4th Street
North Lagoon	3401 Lakeview Road
South Lagoon	1903 E Hardy Street
FGH Tank and Well	6051 US Hwy 49 South
Water Plant 1	5010 Old Hwy 42
Water Plant 2	900 James Street

NOTE: DELIVERY OF CHLORINE GAS CYLINDERS BY REAR TANDEM AXLE VEHICLE IS NOT POSSIBLE DUE TO RESTRICTED ACCESS. DELIVERY SHALL BE ACOMPLISHED BY SINGLE AXLE VEHICLE TO THE ABOVE LOCATIONS.

SEALED bids will be received until **10:00 A.M., Thursday, September 17, 2026** 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.

SEALED BIDS must be received in a sealed envelope which is clearly marked in the lower left-hand corner EXACTLY as follows:

BID

ITEM #11 CHLORINE GAS AND SULFUR DIOXIDE FOR THE CITY OF HATTIESBURG WATER DEPARTMENT SUBMITTED BY 10:00 A.M. THURSDAY, SEPTEMBER 17, 2026

The lowest and best bid received will be accepted, subject to the provisions of Section 21-7-13 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 18th day of August, 2026.

City of Hattiesburg, Mississippi

By:_____

CITY CLERK

SPECIFICATIONS APPROVED BY:

_____

WATER DEPARTMENT

ITEM #11

CHLORINE GAS AND SULFUR DIOXIDE FOR
THE CITY OF HATTIESBURG WATER DEPARTMENT

ITEM	UNIT	PRICE
CHLORINE-150 LB. CONTAINERS		
CHLORINE-I TON CONTAINERS		
SULFUR DIOXIDE- 1 TON CONTAINERS		
TOTAL BID PRICE		

Name of Company

Street I P.O. Address

City / State / Zip Code

Phone / Fax Numbers

Date of Bid

Official's Name and Title

Official's Signature

SPECIFICATIONS FOR ITEM #20: **FURNISH LABOR, EQUIPMENT AND MATERIAL FOR REPAIR, REPLACEMENT OR INSTALLATION OF DUCTILE IRON OR PVC WATER LINES AND FITTINGS FOR THE HATTIESBURG WATER DEPARTMENT**

Bidder shall bid on furnishing all labor, equipment, materials, insurance performance and payment bond where requested, and other necessary appurtenances and other conditions as shown in specifications on file in the City of Hattiesburg Engineering Department and shall be familiar with the subsurface condition within the City of Hattiesburg surrounding the work area.

Bidder shall have available or in his possession equipment of sufficient size and quantity to properly perform said project. Bidder will prepare a list of all equipment he has available to perform the work as shown in specifications on file in the City of Hattiesburg Engineering Department. Equipment list will not include leased or rented equipment.

Bidder will be allowed an allowance of one-and-one half percent of the total cost of a project if a performance and payment is requested by the City Engineer or his representative on a particular project. Bidder will carry sufficient insurance as outlined in specifications on file and will attach a certificate of insurance to his bid proposal.

Much of the work involved under this proposal could be of an emergency nature and it will be necessary that the successful bidder be able to respond and commence work within a two (2) hour time frame after work order has been issued.

Bidder will be properly licensed within the State of Mississippi for water construction work and will place license number and certificate of responsibility number on bid and in the lower left-hand corner of the envelope as required by 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.

The City reserves the right to award multiple categories or line items to the lowest and best bidder. All bidders must list the manufacturer and model or part number for each product offered.

PAYMENT TERMS: Remittance within thirty (30) days from satisfactory delivery of goods and/or receipt of invoice(s).

PRICES shall be FIRM for a period beginning on October 1, 2026 and ending September 30, 2028 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.

SEALED bids will be received until 10:00 A.M., Thursday, September 17, 2026 2024 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.

SEALED BIDS must be received in a sealed envelope which is clearly marked in the lower left-hand corner **EXACTLY** as follows:

BID

ITEM #20 FURNISH LABOR, EQUIPMENT AND MATERIAL FOR REPAIR, REPLACEMENT OR INSTALLATION OF DUCTILE IRON OR PVC WATER LINES AND FITTINGS FOR THE HATTIESBURG WATER DEPARTMENT SUBMITTED BY 10:00 A.M. THURSDAY, September 17, 2026

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 18th day of August, 2026.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____

CITY CLERK

SPECIFICATIONS APPROVED BY:

_____

WATER DEPARTMENT

ITEM #20 - FURNISH LABOR, EQUIPMENT AND MATERIAL FOR REPAIR, REPLACEMENT OR INSTALLATION OF DUCTILE IRON OR PVC WATER LINES AND FITTINGS FOR THE HATTIESBURG WATER DEPARTMENT

ITEMS	UNIT BID PRICE
4" BENDS, INCLUDING BLOCKING, PER EACH	
6" BENDS, INCLUDING BLOCKING, PER EACH	
8" BENDS, INCLUDING BLOCKING, PER EACH	
10" BENDS, INCLUDING BLOCKING, PER EACH	
12" BENDS, INCLUDING BLOCKING, PER EACH	
14" BENDS, INCLUDING BLOCKING, PER EACH	
16" BENDS, INCLUDING BLOCKING, PER EACH	
18" BENDS, INCLUDING BLOCKING, PER EACH	
20" BENDS, INCLUDING BLOCKING, PER EACH	
TOTAL	

4" TEES, INCLUDING BLOCKING, PER EACH	
6" TEES, INCLUDING BLOCKING, PER EACH	
8" TEES, INCLUDING BLOCKING, PER EACH	
10" TEES, INCLUDING BLOCKING, PER EACH	
12" TEES, INCLUDING BLOCKING, PER EACH	
14" TEES, INCLUDING BLOCKING, PER EACH	
16" TEES, INCLUDING BLOCKING, PER EACH	
18" TEES, INCLUDING BLOCKING, PER EACH	
20" TEES, INCLUDING BLOCKING, PER EACH	
TOTAL	

4" VALVES, PER EACH	
6" VALVES, PER EACH	
8" VALVES, PER EACH	
10" VALVES, PER EACH	
12" VALVES, PER EACH	
14" VALVES, PER EACH	
16" VALVES, PER EACH	

18" VALVES, PER EACH	
20" VALVES, PER EACH	
TOTAL	

6" SOLID SLEEVES, PER EACH	
8" SOLID SLEEVES, PER EACH	
10" SOLID SLEEVES, PER EACH	
12" SOLID SLEEVES, PER EACH	
16" SOLID SLEEVES, PER EACH	
TOTAL	

FIRE HYDRANTS, INCLUDING BLOCKING PER EACH	

VALVE BOXES, PER EACH	

ITEMS	UNIT BID PRICE
4" DUCTILE IRON P.C. 350, PER LF	
6" DUCTILE IRON P.C. 350, PER LF	
8" DUCTILE IRON P.C. 350, PER LF	
10" DUCTILE IRON P.C. 350, PER LF	
12" DUCTILE IRON P.C. 350, PER LF	
TOTAL	

14" DUCTILE IRON P.C. 250, PER LF	
16" DUCTILE IRON P.C. 250, PER LF	
18" DUCTILE IRON P.C. 250, PER LF	
20" DUCTILE IRON P.C. 250, PER LF	
TOTAL	

4" PVC C900 P.C. 200, PER LF	
6" PVC C900 P.C. 200, PER LF	
8" PVC C900 P.C. 200, PER LF	
10" PVC C900 P.C. 200, PER LF	
12" PVC C900 P.C. 200, PER LF	

14" PVC C900 P.C. 150. PER LF	
16" PVC C900 P.C. 150. PER LF	
18" PVC C900 P.C. 150. PER LF	
20" PVC C900 P.C. 150. PER LF	
TOTAL	

FURNISH LABOR, EQUIPMENT AND MATERIAL FOR DIRECTIONAL BORING OF WATER MAIN USING HDPE PIPE, SDR11, PRESSURE CLASS 260 WITH FUSION JOINTS

ITEMS	UNIT BID PRICE
2" HDPE PER LF	
4" HDPE PER LF	
6" HDPE PER LF	
8" HDPE PER LF	
10" HDPE PER LF	
12" HDPE PER LF	
14" HDPE PER LF	
16" HDPE PER LF	
1" SERVICE LINES	
TOTAL	

FURNISH LABOR, EQUIPMENT AND MATERIAL FOR REPAIR, REPLACEMENT OR INSTALLATIONS OF SERVICE LINE FOR THE HATTIESBURG WATER DEPARTMENT

ITEMS	UNIT BID PRICE
1" TUBING P.C. 200. PER LF	
1" CURB STOP. PER EACH	
1" CORP COCK. PER EACH	
DOUBLE STRAP SERVICE SADDLES - 4". PER EACH	
DOUBLE STRAP SERVICE SADDLES - 6". PER EACH	
DOUBLE STRAP SERVICE SADDLES - 8". PER EACH	
DOUBLE STRAP SERVICE SADDLES - 10". PER EACH	
DOUBLE STRAP SERVICE SADDLES - 12". PER EACH	
TOTAL	

FURNISH EQUIPMENT INCLUDING MAINTENANCE, FUEL AND OPERATOR

ITEMS	UNIT BID PRICE
BACKHOE. 555 OR EQUAL. PER HOUR	

DUMP TRUCK, 12-14 C.Y., TANDEM, PER HOUR	
VACUUM TRUCK, PER HOUR	
WATER PUMP, 3" OR 4", PER HOUR	
SERVICE TRUCK WITH TWO CREW WORKERS, PER HOUR	
CRAWLER TRACK HOE, PER HOUR	
SKID STEER WITH HYDRAULIC BREAKER, PER HOUR	
MINI EXCAVATOR, PER HOUR	
TOTAL	

REPAIR OF ROADWAY, DRIVES AND PARKING AREAS

ITEMS	UNIT BID
SELECT GRANULAR FILL, PER C.Y.	
ASPHALT FOR PAVING REPAIR, PER TON	
CONCRETE REPAIR, 6" THICK, PER S. Y.	
CLAY GRAVEL, PER C. Y.	
WASHED GRAVEL, PER C. Y.	
CRUSHED CONCRETE PER TON	
REMOVE AND REPLACE CURB AND GUTTER LINEAR FOOT	
REMOVE OR REPLACE 4" THINK CONCRETE DRIVES OR WALKS SQUARE YARD	
TOPSOIL FOR YARD REPAIR CUBIC YARD	
DOZER RENTAL INCLUDING OPERATOR, FUEL, AND MAINTENANCE, JOHN DEERE 450C OR EQUAL PER HOUR	
SMALL VIBRATING SHEEP FOOT ROLLER PER HOUR	
REMOVE ASPHALT AND CONCRETE PER SQUARE YARD	
SAW CUT CONCRETE PER LINEAR FOOT	
4 INCH WATER PUMP PER DAY	
6 INCH WATER PUMP PER DAY	
SKID STEER WITH HYDRAULIC BREAKER PER HOUR	
SPECIAL FITTINGS AND SUBMERSIBLE OR TURBINE PUMPS INVOICE COST PLUS PERCENT FOR HANDLING	
8 INCH WATER PUMP PER DAY	
10 INCH WATER PUMP PER DAY	
12 INCH WATER PUMP PER DAY	
MISCELLANEOUS CONCRETE PER C.Y.	
SAW CUT ASPHALT ALL DEPTHS PER LINEAR FOOT	
TOTAL	

FURNISH LABOR, EQUIPMENT, AND MATERIAL FOR INSTALLING INSERT A VALVES

ITEMS	UNIT BID PRICE
4" VALVES, PER EACH	
6" VALVES, PER EACH	
8" VALVES, PER EACH	
10" VALVES, PER EACH	
12" VALVES, PER EACH	
TOTAL	

FURNISH SPECIAL FITTING, INVOICE COST PLUS PERCENT FOR HANDLING

ITEMS	UNIT BID PRICE
SPECIAL FITTING, INVOICE COST PLUS PERCENT FOR HANDLING, PER CENT	
TURBINE OR CENTRIFUGAL PUMP, INVOICE COST PLUS PERCENT FOR HANDLING	

FURNISH LABOR, EQUIPMENT, AND MATERIAL FOR INSTALLING TAPPING SLEEVES AND VALVES AND CUTTING HOLE

ITEMS	UNIT BID PRICE
4" X 2" SLEEVE AND VALVE, PER EACH	
4" X 4" SLEEVE AND VALVE, PER EACH	
6" X 2" SLEEVE AND VALVE, PER EACH	
6" X 4" SLEEVE AND VALVE, PER EACH	
6" X 6" SLEEVE AND VALVE, PER EACH	
8" X 2" SLEEVE AND VALVE, PER EACH	
8" X 4" SLEEVE AND VALVE, PER EACH	
8" X 6" SLEEVE AND VALVE, PER EACH	
8" X 8" SLEEVE AND VALVE, PER EACH	
10" X 2" SLEEVE AND VALVE, PER EACH	
10" X 4" SLEEVE AND VALVE, PER EACH	
10" X 6" SLEEVE AND VALVE, PER EACH	
10" X 8" SLEEVE AND VALVE, PER EACH	
10" X 10" SLEEVE AND VALVE, PER EACH	
12" X 2" SLEEVE AND VALVE, PER EACH	

12" X 4" SLEEVE AND VALVE, PER EACH	
12" X 6" SLEEVE AND VALVE, PER EACH	
12" X 8" SLEEVE AND VALVE, PER EACH	
12" x 10" SLEEVE AND VALVE, PER EACH	
12" X 12" SLEEVE AND VALVE, PER EACH	
16" X 2" SLEEVE AND VALVE, PER EACH	
16" X 4" SLEEVE AND VALVE, PER EACH	
16" X 6" SLEEVE AND VALVE, PER EACH	
16" X 8" SLEEVE AND VALVE, PER EACH	
16" X 10" SLEEVE AND VALVE, PER EACH	
16" X 12" SLEEVE AND VALVE, PER EACH	
16" X 16" SLEEVE AND VALVE, PER EACH	
20" X 4" SLEEVE AND VALVE, PER EACH	
20" X 6" SLEEVE AND VALVE, PER EACH	
20" X 8" SLEEVE AND VALVE, PER EACH	
20" X 10" SLEEVE AND VALVE, PER EACH	
20" X 12" SLEEVE AND VALVE, PER EACH	
20" X 16" SLEEVE AND VALVE, PER EACH	
TOTAL	

GRAND TOTAL BID PRICE	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

CERTIFICATE OF RESPONSIBILITY NO.

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

SPECIFICATIONS FOR ITEM #26: SANITARY SEWER LINE AND STORM SEWER REPAIR OR REPLACEMENT AND NEW INSTALLATION AS PROVIDED HEREIN FOR THE PUBLIC SERVICES DEPARTMENT

Bidder shall bid on furnishing all labor, equipment, materials, insurance performance and payment bond where requested, and other necessary appurtenances and other conditions as shown in specifications on file in the City of Hattiesburg Engineering Department and shall be familiar with the subsurface condition within the City of Hattiesburg surrounding the construction of any proposed project.

Bidder shall have available or in his possession equipment of sufficient size and quantity to properly perform said project. Bidder will prepare a list of all equipment he owns available to perform the work as shown in specifications on file in the City of Hattiesburg Engineering Department and submit with bid.

Bidder will be allowed an allowance of one and one-half percent of the total cost of a project if a performance and payment is requested by the City Engineer or his representative on a particular project. Bidder will carry sufficient insurance as outlined in specifications on file and will attach a certificate of insurance to his bid proposal.

Much of the work involved under this proposal could be of an emergency nature and it will be necessary that the successful bidder be able to respond and commence work within a 24 or 72 hour time frame after work order has been issued.

Bidder will be properly licensed within the State of Mississippi for sewer construction work and will place license number and certificate of responsibility number on bid and in the lower left hand corner of the envelope as required by 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.

PAYMENT TERMS: Remittance within thirty (30) days from satisfactory delivery of goods and/or receipt of invoice(s).

PRICES shall be FIRM for a period beginning on October 1, 2026, and ending September 30, 2028, 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.

SEALED bids will be received until 10:00 A.M., Thursday, September 17, 2026, 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 above described service. 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
SANITARY SEWER LINE AND STORM SEWER REPAIR OR
REPLACEMENT AND NEW INSTALLATION AS PROVIDED
HEREIN FOR THE PUBLIC SERVICES DEPARTMENT, ITEM #26
SUBMITTED BY 10:00 A.M. September 17, 2026
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 18th day of August, 2026.

CITY OF HATTIESBURG, MISSISSIPPI

BY:_____

CITY CLERK

SPECIFICATIONS APPROVED BY:

_____

WATER DEPARTMENT

ITEM #26 - SANITARY SEWER LINE AND STORM SEWER REPAIR OR REPLACEMENT AND NEW INSTALLATION AS PROVIDE HEREIN FOR THE PUBLIC SERVICES DEPARTMENT

SECTION I

PVC SOLID WALL PIPE SDR 26, RUBBER GASKET JOINTS, ASTM D 3034

PRICE PER LINEAR FEET										
ITEM NO	DESCRIPTION	DEPTH IN FEET								
		0/6	6/8	8/10	10/12	12/14	14/16	16/18	18/20	20/22
1	8" SEWER PIPE									
2	10" SEWER PIPE									
3	12" SEWER PIPE									
4	15" SEWER PIPE									
5	18" SEWER PIPE									
	TOTAL									

SECTION II

CONCRETE PIPE FOR SANITARY SEWER, CLASS III, "0" RING TYPE JOINT, "0" RING TO MEET ASTM DESIGNATION C 443. SEWER PIPE TO BE COATED INSIDE WITH TWO COMPONENT COAL TAR EPOXY APPROVED BY CITY ENGINEER.

PRICE PER LINEAR FEET										
ITEM NO	DESCRIPTION	DEPTH IN FEET								
		0/6	6/8	8/10	10/12	12/14	14/16	16/18	18/20	20/22
6	18" SEWER PIPE									
7	21" SEWER PIPE									
8	24" SEWER PIPE									
9	30" SEWER PIPE									
10	36" SEWER PIPE									
	TOTAL									

SECTION III

DUCTILE IRON SEWER PIPE WITH PUSH-ON JOINT IN ACCORDANCE WITH ANSI 21.11 (AWWA C 111). PIPE TO BE BITUMINOUS COATED ON OUTSIDE AND PROPERLY LINE ON INSIDE WITH CONCRETE, BITUMINOUS OF POLYETHYLENE AS ACCEPTABLE BY CITY ENGINEER. PIPE TO BE CLASS 50.

PRICE PER LINEAR FEET										
ITEM NO	DESCRIPTION	DEPTH IN FEET								
		0/6	6/8	8/10	10/12	12/14	14/16	16/18	18/20	20/22
11	18" SEWER PIPE									
12	21" (20) SEWER									
13	24" SEWER PIPE									
14	27" SEWER PIPE									
15	30" SEWER PIPE									
16	36" SEWER PIPE									
	TOTAL									

SECTION IV

DUCTILE IRON SEWER PIPE WITH PUSH-ON JOINT IN ACCORDANCE WITH ANSI 21.11 (AWWA C 111). PIPE TO BE BITUMINOUS COATED ON OUTSIDE AND PROPERLY LINE ON INSIDE WITH CONCRETE, BITUMINOUS OF POLYETHYLENE AS ACCEPTABLE BY CITY ENGINEER. PIPE TO BE CLASS 51.

PRICE PER LINEAR FEET										
ITEM NO	DESCRIPTION	DEPTH IN FEET								
		0/6	6/8	8/10	10/12	12/14	14/16	16/18	18/20	20/22
17	18" SEWER PIPE									
18	21" (20) SEWER									
19	24" SEWER PIPE									
20	27" SEWER PIPE									
21	30" SEWER PIPE									
22	36" SEWER PIPE									
	TOTAL									

SECTION V

PRECAST REINFORCED CONCRETE MANHOLES, INCLUDING CONE SECTIONS, RISER, PRECAST BOTTOM, COATED CORROSION RESISTANT STEPS, MANHOLE FRAME & COVER AS MANUFACTURED BY DEWS FOUNDRY, MODEL DF-25 J.S. 400 POUNDS, MARKED "SEWER", OR EQUAL. MANHOLES TO BE COATED INSIDE WITH TWO COMPONENT COAL TAX EPOXY. PRICE TO INCLUDE COMPLETE MANHOLE FOR DEPTH SHOWN.

PRICE PER LINEAR FEET										
ITEM NO	DESCRIPTION	DEPTH IN FEET								
		0/6	6/8	8/10	10/12	12/14	14/16	16/18	18/20	20/22
23	48" DIAMETER									
24	60" DIAMETER									
25	72" DIAMETER									
	TOTAL									

SECTION VI

WYES OR TEES

WYES SHALL BE OF STANDARD MANUFACTURED AND SHALL BE THE SAME TYPE AND STRENGTH CLASSIFICATION OF PIPE WITH WHICH THEY ARE TO BE USED. SHALL INCLUDE 1/8 BEND.

PRICE QUOTED EACH					
ITEM NO	SIZE	MATERIAL			
		PVC	CONCRETE	DUCTILE CL50	DUCTILE CL51
26	8 X 6		N/A	N/A	N/.A
27	10 X 6		N/A	N/A	N/A
28	12 X 6		N/A	N/A	N/A
29	15 X 6		N/A	N/A	N/A
30	18 X 6				
31	21 X 6	N/A			
32	24 X 6	N/A			
33	27 X 6	N/A			
34	30 X 6	N/A			
35	36 X 6	N/A			
	TOTAL				

SECTION VII

FLEXIBLE MANHOLE CONNECTION

FLEXIBLE MANHOLE CONNECTION SHALL BE KOR-N-SEAL AS MANUFACTURED BY NPC SYSTEMS, INC., PRESS-SEAL PSX AS MANUFACTURED BY PROFESSIONAL GASKET CORPORATION, OR APPROVED EQUAL AND SHALL MEET ASTM DESIGNATION C-923.

PRICE QUOTED EACH		
ITEM NO	DESCRIPTION	UNIT PRICE
36	8" FLEXIBLE CONNECTION	
37	10" FLEXIBLE CONNECTION	
38	12" FLEXIBLE CONNECTION	
39	15" FLEXIBLE CONNECTION	
40	18" FLEXIBLE CONNECTION	
41	21" FLEXIBLE CONNECTION	
42	24" FLEXIBLE CONNECTION	
43	27" FLEXIBLE CONNECTION	
44	30" FLEXIBLE CONNECTION	
45	36" FLEXIBLE CONNECTION	
	TOTAL	

SECTION VIII

COMMON ITEMS

ITEM NO	DESCRIPTION	UNIT	PRICE
46	6" SEWER SERVICE INCLUDING BENDS	LF	
47	INSTALL CLEAN-OUT, COMPLETE AND CONNECT EXISTING CUSTOMER SERVICE	EACH	
48	CONNECT NEW LINE INTO EXISTING MANHOLE	EACH	
49	RECONSTRUCT INVERT IN EXISTING MANHOLE	EACH	
50	DROP CONNECTION TO MANHOLE	PER FT OF DEPTH	
51	WELL POINTING IF NEEDED AND DIRECTED BY CITY ENGINEER	LF	
52	WASH GRAVEL FOR PIPE BEDDING	CUBIC YARD	
53	SELECT BACKFILL, NON-PLASTIC MATERIAL	CUBIC YARD	
54	SELECT BACKFILL FURNISHED BY CITY AT JAMES ST. AND HAULED BY CONTRACTOR TO JOB SITE	CUBIC YARD	
55	CLAY GRAVEL FOR ROAD REPAIR	CUBIC YARD	
56	CLAY GRAVEL FURNISHED BY CITY AT JAMES ST. AND HAULED BY CONTRACTOR TO JOB SITE	CUBIC YARD	
57	REMOVE AND REPLACE CURB AND GUTTER	LF	
58	REMOVE AND REPLACE 4" THICK CONCRETE DRIVES OR WALKS	SY	
59	REMOVE AND REPLACE 6" THICK CONCRETE DRIVES OR WALKS	SY	
60	HOT MIX ASPHALT FOR ROAD REPAIRS	TON	
61	MILLED ASPHALT FOR TEMPORARY ROAD REPAIRS	TON	
62	TOPSOIL FOR YARD REPAIR	CUBIC YARD	
63	BY PASS PUMPING	LF	
64	CLEARING & GRUBBING	PER ACRE	
65	DOZER RENTAL INCLUDING OPERATOR, FUEL, AND	PER HOUR	

	MAINTENANCE, CAT D-5 OR EQUAL		
66	DOZER RENTAL INCLUDING OPERATOR, FUEL, AND MAINTENANCE, JOHN DEERE 450C OR EQUAL	PER HOUR	
67	VACUUM TRUCK RENTAL WITH OPERATOR PER 8 HOUR DAY	PER HOUR	
68	ASPHALT OVERLAY OF STREET WHERE SEWER LINE REPLACED	PRICE PER TON	
69	CRAWLER TRACK HOE RENTAL INCLUDING OPERATOR, FUEL AND MAINTENANCE	PER HOUR	
70	VIBRATING SHEEP FOOT ROLLER	PER HOUR	
70A	SMALL VIBRATING SHEEP FOOT ROLLER	PER HOUR	
71	12-14 C.Y. TANDEM DUMP TRUCK	PER HOUR	
72	RUBBER TIRED BACKHOE 555E OR EQUAL	PER HOUR	
73	TRUCK WITH DUMP TRAILER 22 TO 24 C.Y.	PER HOUR	
74	REMOVE ASPHALT & CONCRETE	PER SQUARE YD	
75	SAW CUT CONCRETE	PER LF	
76	CRUSHED CONCRETE	PER TON	
76A	3 INCH WATER PUMP	PER DAY	
76B	4 INCH WATER PUMP	PER DAY	
76C	6 INCH WATER PUMP	PER DAY	
76D	SERVICE TRUCK WITH TWO MEN	PER HOUR	
76E	MINI TRACK EXCAVATOR	PER HOUR	
76F	RIP RAP 100# PLUS	PER TON	
76G	STEEL BENTS WITH 2 8" X 8" BEAMS, 20' LONG	EACH	
76H	ADDITIONAL COST FOR STEEL BENT OVER 20'	LF	
76I	SKID STEER WITH HYDRAULIC BREAKER	PER HOUR	
76J	JET TRUCK FOR LINE CLEANING	PER HOUR	
76K	RUBBER TRACK OFF RAD DUMP, MINIMUM 5 CYLINDER	PER HOUR	
76L	GRINDER STATION WITH DUAL PUMPS, 60" WET WELL, MAXIMUM 12 FEET DEPTH, MAXIMUM 3 HP PUMPS	EACH	
76M	SPECIAL FITTINGS AND SUBMERSIBLE PUMPS, INVOICE COST PLUS PERCENT FOR HANDLING	PERCENT	
76N	8 INCH WATER PUMP	PER DAY	
76O	10 INCH WATER PUMP	PER DAY	
76P	12 INCH WATER PUMP	PER DAY	
76Q	MISCELLANEOUS CONCRETE	PER CUBIC YARD	
76R	DRY PIT AND WET PIT SUBMERSIBLE OR CENTRIFUGAL PUMPS, INVOICE COST PLUS PERCENT FOR HANDLING	PER CENT	
76S	SAW CUT ASPHALT ALL DEPTHS	PER LF	
		TOTAL	

SECTION IX

INSTALLATION OF STORM DRAIN OF VARIOUS SIZES AND NECESSARY APPURTENANCES. CONTRACTOR TO FURNISH ALL LABOR AND EQUIPMENT AND CITY OF HATTIESBURG TO PROVIDE ALL MATERIAL INCLUDING PIPE JOINT MATERIALS, INLETS, GRATES, BRICK, BLOCK, CEMENT, SAND AND OTHER ITEMS OF MATERIAL AS NEEDED.

ITEM NO	DESCRIPTION	DEPTH IN FEET				
		0/4	4/6	6/8	8/10	10/12
77	12" OR ARCH EQUIVALENT					
78	15" OR ARCH EQUIVALENT					
79	18" OR ARCH EQUIVALENT					
80	21" OR ARCH EQUIVALENT					
81	24" OR ARCH EQUIVALENT					
82	27" OR ARCH EQUIVALENT					
83	30" OR ARCH EQUIVALENT					
84	36" OR ARCH EQUIVALENT					
85	42" OR ARCH EQUIVALENT					
86	48" OR ARCH EQUIVALENT					
87	54" OR ARCH EQUIVALENT					
88	60" OR ARCH EQUIVALENT					
89	72" OR ARCH EQUIVALENT					
	TOTAL					

90	INLET OR JUNCTION BOX PER FOOT OF DEPTH FOR THE	UNIT	PRICE
a	12", 15" & 18" PIPE SIZES	PER FOOT OF DEPTH	
b	21", 24" & 27" PIPE SIZES	PER FOOT OF DEPTH	
c	30" & 36" PIPE SIZES	PER FOOT OF DEPTH	
d	42" & 48" PIPE SIZES	PER FOOT OF DEPTH	
e	54" & 60" PIPE SIZES	PER FOOT OF DEPTH	
f	72" PIPE SIZE	PER FOOT OF DEPTH	
		TOTAL	

91	LABOR ONLY FOR POURING CONCRETE BOTTOM FOR	UNIT	PRICE
a	12" THRU 24" PIPE	LUMP SUM	
b	27" THRU 42" PIPE	LUMP SUM	
c	48" THRU 72" PIPE	LUMP SUM	
		TOTAL	

92	FURNISHING LABOR, EQUIPMENT AND MATERIAL FOR	UNIT	PRICE
a	2" STEEL CASING	PER LINEAR FOOT	
b	4" STEEL CASING	PER LINEAR FOOT	
c	6" STEEL CASING	PER LINEAR FOOT	
d	8" STEEL CASING	PER LINEAR FOOT	
e	10" STEEL CASING	PER LINEAR FOOT	
f	12" STEEL CASING	PER LINEAR FOOT	
g	14" STEEL CASING	PER LINEAR FOOT	
h	16" STEEL CASING	PER LINEAR FOOT	
i	18" STEEL CASING	PER LINEAR FOOT	
j	20" STEEL CASING	PER LINEAR FOOT	
k	24" STEEL CASING	PER LINEAR FOOT	
l	30" STEEL CASING	PER LINEAR FOOT	
m	36" STEEL CASING	PER LINEAR FOOT	
		TOTAL	

SECTION X

MOBILIZATION CHARGE

ITEM NO	PROJECT SIZE	UNIT	PRICE
93	LESS THAN $10,000	LUMP SUM	
94	$10,001 TO $20,000	LUMP SUM	
95	$20,001 TO $30,000	LUMP SUM	
96	$30,001 AND ABOVE	LUMP SUM	
		TOTAL	
THE CITY MAY ADD ADDITIONAL WORK IF THE CONTRACTOR HAS NOT COMPLETED AN EXISTING WORK ORDER BY ISSUING ADDITIONAL PURCHASE ORDERS.			

SECTION XI

INSTALLATION ON PRECAST BOX CULVERTS FURNISHED BY THE CITY

ITEM NO	DESCRIPTION	PRICE PER FOOT
97	4 X 2	
98	4 X 4	
99	6 X 4	
100	8 X 4	
101	10 X 4	
102	6 X 5	
103	8 X 5	
104	10 X 5	
105	6 X 6	
106	8 X 6	
107	10 X 6	
108	8 X 8	
109	10 X 8	
	TOTAL	

SECTION XII

INSTALLING SEWER LINE BY DIRECTIONAL BORING

ITEM NO	DESCRIPTION	PRICE PER FOOT
110	6" HPDE PIPE SDR 11	
111	8" HPDE PIPE SDR 11	
112	10" HPDE PIPE SDR 11	
113	12" HPDE PIPE SDR 11	
114	15" HPDE PIPE SDR 11	
	TOTAL	

NAME OF COMPANY

STREET/P.O. ADDRESS

CITY/STATE & ZIP CODE

PHONE NUMBER & FAX NUMBER

DATE OF BID

CERTIFICATE OF RESPONSIBILITY NO.

OFFICIAL'S NAME & TITLE

OFFICIAL'S SIGNATURE

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Set a public hearing on the proposed budget and proposed tax levies for fiscal year 2027 for 5:00 p.m. Tuesday, September 8, 2026, in Council Chambers at City Hall; Authorize publication of Notice of Public Hearing.**
File Number: 2026-731
Minute Book #

Summary

Set a public hearing on the proposed budget and proposed tax levies for fiscal year 2027 for 5:00p.m. Tuesday, September 8, 2026, in Council Chambers at City Hall; Authorize publication of Notice of Public Hearing.

Recommendation Statement

I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Approve the sale of grave spaces per attached receipts.**
File Number: 2026-730
Minute Book #

Summary
Approve the sale of grave spaces per attached receipts.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Linda Virgil subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S1/2) of the Southeast Quarter (SE 1/4)

Lot Number: 17 Section Number: 39

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

_____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Angel Hill subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S1/2) of the Northwest Quarter (NW 1/4)

Lot Number: 51 Section Number: 39

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton , Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Teresa Thornton, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southwest Quarter (SW1/4)

Lot Number 15 Section Number 36

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of THREE HUNDRED AND NO/100 Dollars ($300.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Gwenevere Pugh subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Southeast Quarter (SE1/4)

Lot Number : 88 Section Number:1

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing Two (2) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

_____
My Commission Expires:

_____
NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of ONE HUNDRED FIFTY AND NO/100 Dollars ($150.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Stanley W. Bridges, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

West Half (W1/2)
of the
Southwest Quarter (SW¼)

Lot Number: 88 Section Number: 1

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton Mayor and Deputy City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

_____
NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Emma Sims, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

Northwest Quarter (NW1/4)

Lot Number 81 Section Number 26

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Kevin Herron subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S1/2) of the Northeast Quarter (NE 1/4)

Lot Number: 8 Section Number: 35

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining
thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

_____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Michael C Johnson subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S1/2) of the Southeast Quarter (SE 1/4)

Lot Number:47 Section Number: 39

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining
thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

_____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Barbara Hilton subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2) of the Southwest Quarter (SW 1/4)

Lot Number:40 Section Number: 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining
thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____
CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

_____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of FIVE HUNDRED TWENTY FIVE AND NO/100 Dollars ($525.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Christopher Johnson, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half N½) of the Southwest Quarter (SW¼)
Lot 23 Section 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing three (3) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST:
MISSISSIPPI

CITY OF HATTIESBURG,

_____
CITY CLERK

_____
MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Carol Gros subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

South Half (S1/2) of the Southwest Quarter (SW 1/4)

Lot Number:56 Section Number: 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining
thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

_____

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of ONE HUNDRED SEVENTY-FIVE AND NO/100 Dollars ($175.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Teresa A. Smith subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2) of the Northwest Quarter (NW 1/4)

Lot Number:62 Section Number: 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing
One (1) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used, they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires: _____

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NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
SOUTH HILL CEMETERY

For and in consideration of the sum of THREE HUNDRED AND NO/100 Dollars ($300.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto Misty G. Perryman subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2 Southwest Quarter (SW1/4)
South Half (S1/2) Northwest Quarter (NW ¼)

Lot Number : 56 Section Number:2

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as South Hill Cemetery, and containing Two (2) Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August, 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

NOTARY PUBLIC

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Diana A. Myers or William T. Myers, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2) Northwest Quarter (NW1/4)

Lot Number 162 Section Number 22

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, Michael Bogle, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2) of the Southwest Quarter (SW1/4)

South Half (S1/2) of the Northwest Quarter (NW ¼)

Lot Number 75 Section Number 38

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR
CITY OF HATTIESBURG
HATTIESBURG, MS

DEED TO CEMETERY LOT
HIGHLAND CEMETERY

For and in consideration of the sum of THREE HUNDRED FIFTY AND NO/100 Dollars ($350.00), cash in hand paid to the City of Hattiesburg, Mississippi, the City of Hattiesburg, Mississippi acting by and through its duly authorized Mayor and City Clerk does hereby bargain, sell and convey unto, David Richards, subject to the reservations and restrictions hereinafter set out and subject to rules and regulations now or hereafter adopted, the following described grave spaces:

North Half (N1/2) of the Southeast Quarter (SE1/4)

South Half (S ½) of the Northeast Quarter (NE ¼)

Lot Number 67 Section Number 23

according to the Cemetery Survey of the City of Hattiesburg, Mississippi known as Highland Cemetery, and containing Two Grave space (s).

SAID Lot shall be used for burial purposes only and all graves therein must be checked and laid out by the Cemetery sexton before the same is dug and must be at least 4 feet deep and shall be, when completed, level with the ground. No shrubbery, vines or trees shall be planted in the Cemetery Lot and there shall be nothing left above the ground except markers which may be erected to meet all City regulations and requirements. All burials in the grave space(s) herein conveyed shall comply with applicable State and Federal laws governing human burial and with City rules and regulations pertaining thereto. If boxes or vaults are used they shall be at least 10 inches below the ground level.

GRANTEE herein shall not sell or convey this lot without a written permit from the Mayor and Council of the City of Hattiesburg, Mississippi.

WITNESS the signature and seal of the City of Hattiesburg, Mississippi, a Municipal Corporation, acting, by and through its duly authorized Mayor and City Clerk, on this, the 18th day of August 2026.

ATTEST: CITY OF HATTIESBURG, MISSISSIPPI

_____ _____

CITY CLERK MAYOR

(S E A L)

STATE OF MISSISSIPPI
COUNTY OF FORREST/LAMAR

Personally appeared before me, the undersigned authority in and for said County and State, Toby Barker and Kermas Eaton, Mayor and City Clerk, respectively, of the City of Hattiesburg, Mississippi, a municipal corporation, each of whom acknowledged before me that they signed, executed and delivered the above and foregoing Cemetery Deed on the day and year therein mentioned as the act and deed of the City of Hattiesburg after having first been authorized so to do.

Given under my hand and official seal of office on this, the 18th day of August 2026.

My Commission Expires:

_____

NOTARY PUBLIC

_____

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 13 20 26

SOLD TO:

Mr.. Mrs. Miss [illegible]

ADDRESS [illegible] Hwy, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S ½ SE ¼ Lot No. 11 Section No. 39 in [illegible] Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By [illegible]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 7 20 26

SOLD TO:

Mr.. Mrs. Miss [illegible]

ADDRESS 212 N 30th Ave - H'burg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S ½ NW ¼ Lot No. 51 Section No. 39 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By [illegible]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 30 20 26

SOLD TO:

Mr.. Mrs. Miss Keith Curtis

ADDRESS 221 Rudy Ave. H'burg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ SW ¼ Lot No. 15 Section No. 36 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CITY OF HATTIESBURG, MISSISSIPPI

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/1 20 26

SOLD TO:

Mr.. Mrs. Miss Gwenevere Pugh

ADDRESS 209 Sheeplo Loop Petal, MS 39465

desires to purchase the grave space described below, subject to Cemetery regulations.

____ ½ SE ¼ Lot No. 88 Section No. 1 in South Hill Cemetery

Number of grave spaces 2 Price per grave space $ 150.00

Price Received $ 300.00

Space # 7, 8

CITY OF HATTIESBURG, MISSISSIPPI

By Joana Monroe

Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/1 20 26

SOLD TO:

Mr.. Mrs. Miss Gwenevere + Natalie Pugh

ADDRESS 213 Sheeplo Loop Petal MS 39465

desires to purchase the grave space described below, subject to Cemetery regulations.

W ½ SW ¼ Lot No. 88 Section No. 1 in South Hill Cemetery

Number of grave spaces 1 Price per grave space $ 150.00

Price Received $ 150.00

Space #5

CITY OF HATTIESBURG, MISSISSIPPI

By Joana Monroe

Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/1 20 26

SOLD TO:

Mr.. Mrs. Miss Emma Sims

ADDRESS 105 McGilvary Rd Petal MS 39465

desires to purchase the grave space described below, subject to Cemetery regulations.

____ ½ NW ¼ Lot No. 21 Section No. 53 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 150

Price Received $ 300.00

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 6/23/ 20 26

SOLD TO:

Mr.. Mrs. Miss Kevin Herron

ADDRESS 805 Whitney St Hattiesburg MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S ½ NE ¼ Lot No. 8 Section No. 35 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

Space #7

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 6 29 20 26

SOLD TO:

Mr.. Mrs. Miss Michael E Johnson

ADDRESS 536 N 19 Ave Hattiesburg MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

S ½ SE ¼ Lot No. 47 Section No. 39 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175

Price Received $ 175

CITY OF HATTIESBURG, MISSISSIPPI

By _____
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/10/ 20 26

SOLD TO:

Mr.. Mrs. Miss Barbara Hilton

ADDRESS 7 Pickens Cove Hattiesburg MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ SW ¼ Lot No. 40 Section No. 38 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 23 20 26

SOLD TO:

Mr.. Mrs. Miss [illegible]

ADDRESS [illegible] Hbg, MS 39404

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ SW ¼ Lot No. [illegible] Section No. [illegible] in [illegible] Cemetery

Number of grave spaces 2 Price per grave space $ 150

Price Received $ 300

CITY OF HATTIESBURG, MISSISSIPPI

By [illegible]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 27 20 26

SOLD TO:

Mr.. Mrs. Miss [illegible] William T. Myers

ADDRESS 103 [illegible] Pkwy [illegible] MS 37232-[illegible]

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ NW ¼ Lot No. 162 Section No. 83 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175

Price Received $ 350

CITY OF HATTIESBURG, MISSISSIPPI

By [illegible]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 13 20 26

SOLD TO:

Mr.. Mrs. Miss [illegible]

ADDRESS [illegible] Hbg, MS [illegible]

desires to purchase the grave space described below, subject to Cemetery regulations.

N ½ NE ¼ Lot No. [illegible] Section No. [illegible] in [illegible] Cemetery

Number of grave spaces 1 Price per grave space $ 175

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/6/ 20 26

SOLD TO:

Mr.. Mrs. Miss Michael Bogle

ADDRESS 1413 Concart St. Hattiesburg MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N/S 1/2 SW/NW 1/4 Lot No. 75 Section No. 38 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 6/25/ 20 26

SOLD TO:

Mr.. Mrs. Miss David Richards

ADDRESS 693 Richburg Rd Hattiesburg, MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

N/S 1/2 SE/NE 1/4 Lot No. 67/67 Section No. 23/23 in Highland Cemetery

Number of grave spaces 2 Price per grave space $ 175.00

Price Received $ 350.00

Chg Rate Space #6 & 7

CITY OF HATTIESBURG, MISSISSIPPI

By [signature] 70.00
Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 30 20 26

SOLD TO:

Mr.. Mrs. Miss Christopher Johnson

ADDRESS 34 Wyatt Ellis Rd, H'Burg, MS 39401

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 SW 1/4 Lot No. 23 Section No. 38 in Highland Cemetery

Space #2 (1,3)

Number of grave spaces 3 Price per grave space $ ~~525.00~~ 175.00

Price Received $ 525.00

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]

Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., 7/1 20 26

SOLD TO:

Mr.. Mrs. Miss Carol Gros

ADDRESS 13 Crescent Ridge Dr Hattiesburg MS 39402

desires to purchase the grave space described below, subject to Cemetery regulations.

S 1/2 SW 1/4 Lot No. 5[illegible] Section No. 38 in Highland Cemetery

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

CITY OF HATTIESBURG, MISSISSIPPI

By [signature]

Supt. of City Cemeteries

CITY OF HATTIESBURG
PURCHASE OF CEMETERY GRAVE SPACES

Hattiesburg, Miss., July 30 20 26

SOLD TO:

Mr.. Mrs. Miss Teresa A Smith

ADDRESS 15 Ivey Ln. H'Burg, MS 39402-7034

desires to purchase the grave space described below, subject to Cemetery regulations.

N 1/2 NW 1/4 Lot No. 66-62 Section No. 38 in Highland Cemetery

Space #4

Number of grave spaces 1 Price per grave space $ 175.00

Price Received $ 175.00

Memorandum

To: **Mayor Toby Barker and Members of City Council**

From: **Kermas Eaton, City Clerk**

cc:

Date: **Tuesday, August 18, 2026**

Re: **Approve claims docket for the period ending August 14, 2026.**
File Number: 2026-724
Minute Book #

Summary
Approve claims docket for the period ending August 14, 2026.

Recommendation Statement
I recommend approval of this item.

Please place this on the August 18, 2026 City Council meeting for consideration.

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
001	General Fund		878,912.65
002	PARKS & RECREATION FUND		66,338.77
005	HATT.MUNICIPAL FIRE PROTECTION		7,956.99
009	WATER & SEWER OPERATION/MAINT.		100,101.08
011	WATER & SEWER FUND		337.50
019	POLICE FORFEITURES FUND		4,329.13
039	AIRPORT IMPROVEMENT FUND		19,978.31
072	MUNICIPAL ROAD & BRIDGE		34,008.69
073	MASS TRANSIT FUND		136,273.19
075	WATER&SEWER CONSTRUCTION FUND		198,440.24
077	COMMUNITY CENTERS' FUND		8,185.35
082	COMMUNITY DEVELOP. BLOCK GRANT		268.69
086	SPEC SALES TAX-P&R/UNIV IMPROV		8,600.00
088	PUBLIC SAFETY/REC CONSTRUCTION		2,836.02
095	2019 FIRE STATION CONSTRUCTION		249,566.90
097	INFRA IMPROVE-INTRNT SALES TAX		30,206.00
801	CLAIMS FUND	1,746,339.51	
	TOTAL	1,746,339.51	1,746,339.51

** END OF REPORT - Generated by Sherry Jackson **

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001000			BALANCE SHEET							
001000	060100			GAS/LUBRICANT-CITY BARN						
003497	MAPLES GAS COMPANY	336850	2604211	2026 11	INV	P	27,552.31	081426	316463	GAS & DIESEL/FUEL S
049752	PIGOTT OIL COMPANY	SI-24423	2604108	2026 11	INV	P	33,343.32	081426	316506	GAS & DIESEL/FUEL S
				ACCOUNT TOTAL			60,895.63			
001000	105205			RESTITUTION HOLDING ACCOUNT						
052493	GEORGE ADDISON SMITH	AF0045841-01	0	2026 11	INV	P	1,300.00	081426	316423	RESTITUTIONS - GEOR
052494	PARIS HILL	25110778-01	0	2026 11	INV	P	403.00	081426	316499	RESTITUTION - PARIS
				ACCOUNT TOTAL			1,703.00			
				ORG 001000 TOTAL			62,598.63			
001001			REVENUES							
001001	287000			POLICE/FIRE-SPECIAL DUTY						
050100	P.A.S.S. SECURITY LL	002701	0	2026 10	INV	P	450.00	081426	316497	SECURITY FOR HOPE W
				ACCOUNT TOTAL			450.00			
				ORG 001001 TOTAL			450.00			
001003			CITY COUNCIL							
001003	501000			OTHER EXPENDABLE OFF.SPL						
050056	AMAZON CAPITAL	174N-4HWV-WPRV	2603824	2026 11	INV	P	24.63	081426	316348	OFFICE SUPPLIES - A
050056	AMAZON CAPITAL	1JCK-1N9Q-QPHV	2603824	2026 11	INV	P	333.40	081426	316348	OFFICE SUPPLIES - A
							358.03			
				ACCOUNT TOTAL			358.03			
001003	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	81.46	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	68.96	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			150.42			
				ORG 001003 TOTAL			508.45			
001015			CITY COURT							
001015	500500			PRINTED FORMS						
003810	OFFICE PRODUCTS PLUS	1126846	2603514	2026 11	INV	P	975.00	081426	316495	COURT WINDOW ENVELO
				ACCOUNT TOTAL			975.00			
001015	501000			OTHER EXPENDABLE OFF.SPL						
003810	OFFICE PRODUCTS PLUS	1129057	2603942	2026 11	INV	P	160.97	081426	316495	COURT OFFICE SUPPLI
003810	OFFICE PRODUCTS PLUS	1129410	2604021	2026 11	INV	P	98.10	081426	316495	COURT SEAT STAMP

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
						259.07			
			ACCOUNT TOTAL			259.07			
001015 508000			COMPUTER SUPPLIES						
004017 REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	59.89	081426	316522	5548-07/31/26 REGIO
			ACCOUNT TOTAL			59.89			
001015 510000			CLEANING/JANITORIAL SPLY						
003810 OFFICE PRODUCTS PLUS	1127401	2603329	2026 11	INV	P	10.68	081426	316495	COURT CLEANING SUPP
003810 OFFICE PRODUCTS PLUS	1129316	2604001	2026 11	INV	P	293.75	081426	316495	COURT CLEANING SUPP
						304.43			
			ACCOUNT TOTAL			304.43			
001015 604900			OTHER PROFESSIONAL SERV.						
047011 JANI-KING OF SOUTH E	SEM8260062	2603307	2026 11	INV	P	1,090.00	081426	316448	COURT TWO QUOTE CLE
052227 MARY MOORE CONVILLE	2026-008	0	2026 11	INV	P	3,780.00	081426	316465	JUDGE PROTEM HOURS
052232 KRISTEN WARD RAY	103	0	2026 11	INV	P	2,990.00	081426	316453	KW PTM HRS 6/3,4,8,
			ACCOUNT TOTAL			7,860.00			
001015 604901			OTHER PROF-TECHNOLOGY						
004017 REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	4,284.00	081426	316522	5548-07/31/26 REGIO
			ACCOUNT TOTAL			4,284.00			
001015 606000			TELEPHONE AND TELEGRAPH						
051742 C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	261.13	081426	316370	SC# 382C SPIRE BILL
			ACCOUNT TOTAL			261.13			
001015 630000			GAS						
004321 SPIRE	G2026-04 AUG	0	2026 11	INV	P	54.57	081426	316546	SPIRE-VARIOUS DEPAR
			ACCOUNT TOTAL			54.57			
			ORG 001015 TOTAL			14,058.09			
001020		MAYOR/ADMIN.							
001020 505000			SUBSCRIPTIONS,MAGS,MAPS						
004017 REGIONS CARDHOLDER S	4524-07/31/26	0	2026 11	INV	P	365.94	081426	316522	4524-07/31/26 REGIO
			ACCOUNT TOTAL			365.94			
001020 511500			FOOD						
002500 COCA COLA BOTTLING C	53587677012	0	2026 10	INV	P	146.25	081426	316387	ADMIN- WATER

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	223.61	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			369.86			
001020	525000			GAS AND OIL						
049764	GPM INVESTMENTS-MINI	12041650	0	2026 11	INV	P	94.53	081426	316432	MINIT MART CHARGES
				ACCOUNT TOTAL			94.53			
001020	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	103.52	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	234.67	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			338.19			
001020	611000			TRAVEL EXPENSE						
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	174.35	081426	316522	3414-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	4524-07/31/26	0	2026 11	INV	P	4,305.87	081426	316522	4524-07/31/26 REGIO
							4,480.22			
				ACCOUNT TOTAL			4,480.22			
001020	641000			OFFICE EQUIPMENT RENT						
003825	OWENS BUSINESS MACHI	542924	0	2026 10	INV	P	118.91	081426	316496	ADMIN COPIER/MONTHL
				ACCOUNT TOTAL			118.91			
				ORG 001020 TOTAL			5,767.65			
001040			MUNICIPAL CLERK							
001040	602000			CONSULTANT SERV/SURVEYS						
004482	TYLER TECHNOLGIES IN	025-557659	0	2026 11	INV	P	1,418.00	081426	316560	TYLER PAYMENTS HARD
				ACCOUNT TOTAL			1,418.00			
001040	684500			REGISTRATION FEE/TUITION						
049462	EXTENSION CENTER FOR OT	11430 L REYNOLDS	0	2026 11	INV	P	325.00	081426	316410	FALL CERT MUNI CLK
				ACCOUNT TOTAL			325.00			
				ORG 001040 TOTAL			1,743.00			
001042			ACCOUNTING DIV.							
001042	501000			OTHER EXPENDABLE OFF.SPL						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	87.71	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			87.71			
				ORG 001042 TOTAL			87.71			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001045			PURCHASING DIV.							
001045	500300			PAPER						
004327	STANDARD OFFICE SUPP	H57334-00	2604085	2026 10	INV	P	275.00	081426	316547	OFFICE SUPPLIES/PUR
				ACCOUNT TOTAL			275.00			
001045	501000			OTHER EXPENDABLE OFF.SPL						
004017	REGIONS CARDHOLDER S	7383-07/21/26	0	2026 11	INV	P	219.99	081426	316522	7382-07/31/26 REGIO
				ACCOUNT TOTAL			219.99			
				ORG 001045 TOTAL			494.99			
001080			HUMAN RESOURCES							
001080	502000			MINOR OFFICE EQUIP/FURN.						
003587	MID SOUTH GLASS INC	0053791	2604204	2026 11	INV	P	190.00	081426	316473	1 - 35 1/2 X 71 1/2
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	232.06	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			422.06			
001080	636500			OFFICE EQUIPMENT R&M						
004050	RICOH CORP	5073609637	0	2026 11	INV	P	133.83	081426	316524	MB# 2021-250 HR COP
				ACCOUNT TOTAL			133.83			
				ORG 001080 TOTAL			555.89			
001081			LOSS CONTROL							
001081	502000			MINOR OFFICE EQUIP/FURN.						
048766	OFFICE DEPOT	475251206001	2603779	2026 10	INV	P	74.60	081426	316494	OFFICE SUPPLIES RIS
048766	OFFICE DEPOT	475251698001	2603779	2026 10	INV	P	32.95	081426	316494	OFFICE SUPPLIES RIS
							107.55			
				ACCOUNT TOTAL			107.55			
				ORG 001081 TOTAL			107.55			
001090			URBAN DEVELOPMT							
001090	502000			MINOR OFFICE EQUIP/FURN.						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	33.90	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			33.90			
001090	508000			COMPUTER SUPPLIES						
050056	AMAZON CAPITAL	1F1D-R7NR-W6NH	2603597	2026 11	INV	P	949.98	081426	316348	OFFICE SUPPLIES - A
				ACCOUNT TOTAL			949.98			
001090	525000			GAS AND OIL						

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	140.97	081426	316522	3414-07/31/26 REGIO
				ACCOUNT TOTAL			140.97			
001090	602000			CONSULTANT SERV/SURVEYS						
051712	PLAN HOUSE ENTERPRIS	138811	0	2026 11	INV	P	248.00	081426	316511	COH FOAMBOARD PRINT
				ACCOUNT TOTAL			248.00			
001090	604900			OTHER PROFESSIONAL SERV.						
004482	TYLER TECHNOLGIES IN	025-557659	0	2026 11	INV	P	709.00	081426	316560	TYLER PAYMENTS HARD
				ACCOUNT TOTAL			709.00			
001090	606000			TELEPHONE AND TELEGRAPH						
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	79.81	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			79.81			
001090	607000			POSTAGE						
051013	FORERUNNER INDUSTRIE	1678	2604154	2026 11	INV	P	241.00	081426	316417	PLANNING_FORERUNNER
				ACCOUNT TOTAL			241.00			
001090	684000			DUES AND MEMBERSHIPS						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	30.00	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			30.00			
001090	684500			REGISTRATION FEE/TUITION						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	185.00	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			185.00			
				ORG 001090 TOTAL			2,617.66			
001091			INFO TECHNOLOGY							
001091	501000			OTHER EXPENDABLE OFF.SPL						
050056	AMAZON CAPITAL	1F1D-R7NR-W6NH	2603597	2026 11	INV	P	29.38	081426	316348	OFFICE SUPPLIES - A
050056	AMAZON CAPITAL	1JCK-1N9Q-QPHV	2603824	2026 11	INV	P	33.74	081426	316348	OFFICE SUPPLIES - A
							63.12			
				ACCOUNT TOTAL			63.12			
001091	508000			COMPUTER SUPPLIES						
004050	RICOH CORP	1107337988	0	2026 11	INV	P	1,288.05	081426	316524	INK CARTRIDGES - IT
050056	AMAZON CAPITAL	17CL-K7Y7-VD4D	2604079	2026 11	INV	P	927.78	081426	316348	OFFICE SUPPLIES - A
050056	AMAZON CAPITAL	1F1D-R7NR-W6NH	2603597	2026 11	INV	P	238.53	081426	316348	OFFICE SUPPLIES - A
050056	AMAZON CAPITAL	1JCK-1N9Q-QPHV	2603824	2026 11	INV	P	2,160.10	081426	316348	OFFICE SUPPLIES - A

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							3,326.41			
				ACCOUNT TOTAL			4,614.46			
001091	604900			OTHER PROFESSIONAL SERV.						
002384	C SPIRE	(MEGAGATE) 205876-117	0	2026 11	INV	P	1,269.00	081426	316368	NETWORK/INTERET - M
002384	C SPIRE	(MEGAGATE) 3000667134-60	0	2026 11	INV	P	775.00	081426	316368	NETWORK/INTERET - M
							2,044.00			
004482	TYLER TECHNOLGIES IN	CI100-00306880	0	2026 11	INV	P	58,018.92	081426	316560	TYLER PACE PROGRAM
				ACCOUNT TOTAL			60,062.92			
001091	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287289913717X080526	0	2026 11	INV	P	40.73	081426	316353	MB2016-287/WIRELES
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	90.66	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			131.39			
001091	606800			NETWORK						
002384	C SPIRE	(MEGAGATE) 683013-106	0	2026 11	INV	P	13,749.00	081426	316368	NETWORK/INTERET - M
				ACCOUNT TOTAL			13,749.00			
001091	636500			OFFICE EQUIPMENT R&M						
003583	METRIX SOLUTIONS	M145445	2604027	2026 11	INV	P	3,499.32	081426	316471	VEEAM RENEWAL - IT
004050	RICOH CORP	5073594798	0	2026 11	INV	P	371.49	081426	316524	CHARGES FOR PRODUCT
				ACCOUNT TOTAL			3,870.81			
				ORG 001091 TOTAL			82,491.70			
001092			GEN.GOVT.BLDG							
001092	546000			MINOR EQUIPMENT						
002714	ECONOMY SUPPLY CO	168886	2604300	2026 11	INV	P	39.83	081426	316404	MATERIAL TO CHCK TH
004256	SOLAR SUPPLY INC	3404668	2604138	2026 11	INV	P	59.28	081426	316537	AIR FILTERS CITY HA
				ACCOUNT TOTAL			99.11			
001092	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	40.00	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			40.00			
001092	635000			BUILDING R&M						
004234	SMITH, JIM SERVICES	11530	0	2026 11	INV	P	367.70	081426	316536	AC REPAIR- 1SY FLOO

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			367.70			
001092	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697940	0	2026 10	INV	P	65.00	081426	316437	HAVARD PEST CONTROL
				ACCOUNT TOTAL			65.00			
001092	644900			OTHER RENT						
002720	EDWARDS PROPERTY MGM	FILE 2024 9/26	0	2026 11	INV	P	1,419.00	081426	316406	DRIVER LICENSE RENE
				ACCOUNT TOTAL			1,419.00			
				ORG 001092 TOTAL			1,990.81			
001095			G/G INS.OTH SER							
001095	602500			LEGAL						
002377	BUTLER,SNOW,O'MARA,S	10538441	0	2026 11	INV	P	297.00	081426	316366	ARPA ADMINISTRATION
003090	HICKS LAW FIRM, LLC	12553	0	2026 11	INV	P	750.00	081426	316438	CITY OF HATTIESBURG
003090	HICKS LAW FIRM, LLC	12554	0	2026 11	INV	P	952.00	081426	316438	MYLA J BIVINS V CIT
							1,702.00			
003944	POPE & POPE, PA	26053	0	2026 11	INV	P	650.00	081426	316513	BIVINS
003944	POPE & POPE, PA	26054	0	2026 11	INV	P	450.00	081426	316513	COOK OUT RESTAURANT
003944	POPE & POPE, PA	26055	0	2026 11	INV	P	3,550.00	081426	316513	DOWNTOWN DEVELOPMEN
003944	POPE & POPE, PA	26056	0	2026 11	INV	P	2,700.00	081426	316513	EEOC - CHAPMAN
003944	POPE & POPE, PA	26057	0	2026 11	INV	P	3,200.00	081426	316513	GAGNET
003944	POPE & POPE, PA	26058	0	2026 11	INV	P	300.00	081426	316513	GENERAL OUT OF POCK
003944	POPE & POPE, PA	26059	0	2026 11	INV	P	400.00	081426	316513	INTELLISAFE
003944	POPE & POPE, PA	26060	0	2026 11	INV	P	450.00	081426	316513	WILSON/SOCIAL MEDIA
							11,700.00			
004694	ZAC FAIRLEY APPRAISA	1288	0	2026 11	INV	P	1,000.00	081426	316579	ADMIN APPRAISAL REP
047351	LOWREY & FORTNER PA	01317	0	2026 11	INV	P	1,000.00	081426	316461	PROFESSIONAL SERVIC
050662	CAREY R VARNADO	2064	0	2026 11	INV	P	500.00	081426	316371	MONTHLY ATTORNEY FE
051430	CARROLL WARREN &	25695	0	2026 10	INV	P	15,573.00	081426	316373	GENERAL REPRESENTAT
				ACCOUNT TOTAL			31,772.00			
001095	602701			MEDICAL ANALYSIS-EMP CLINIC						
002523	COMCAST CABLEVISION	JUL 30-AUG 26	0	2026 11	INV	P	205.63	081426	316389	COMCAST BUSINESS-EM
003576	MEDICAL ANALYSIS-GHV	11618	0	2026 11	INV	P	31,102.40	081426	316470	07/26 EMPLOYEE CLIN
051984	THE CLEANING LADY	481160	2600507	2026 11	INV	P	407.50	081426	316554	TWO-QUOTE JANITORIA
				ACCOUNT TOTAL			31,715.53			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001095	604900				OTHER PROFESSIONAL SERV.					
003433	LOCAL IMPACT ANALYTI	06262026-1	0	2026 10	INV	P	4,500.00	081426	316460	DOWNTOWN SAFETY PRO
003433	LOCAL IMPACT ANALYTI	06262026-2	0	2026 10	INV	P	4,500.00	081426	316460	FY26 DICP GRANT PRO
							9,000.00			
047034	BUGZ LAWN CARE	43	0	2026 11	INV	P	1,200.00	081426	316362	WEEKLY MAINTENANCE-
047930	CHRISTIAN SERVICES I	072026	0	2026 11	INV	P	11,500.00	081426	316375	AGREEMENT COH AND C
048836	PAYTON, RAY A.	1398	0	2026 11	INV	P	2,300.00	081426	316502	WEEKLY MAINTENANCE-
052199	SECOND MOMENT LLC	02601959	2601959	2026 11	INV	P	2,400.00	081426	316529	STRUCTUAL REVIEW- 4
				ACCOUNT TOTAL			26,400.00			
001095	606000				TELEPHONE AND TELEGRAPH					
002158	AT&T	L2026-07.28.26	0	2026 11	INV	P	260.30	081426	316351	AT&T LIGHTS "LONG D
002158	AT&T	L2026-08.04.26	0	2026 11	INV	P	152.97	081426	316351	AT&T BLUE LIGHTS ON
							413.27			
002159	AT&T LONG DISTANCE S	0283795127	0	2026 11	INV	P	32.22	081426	316352	ONE NET SERVICE
047050	C SPIRE (IP)	L2026-08.01	0	2026 11	INV	P	5,859.81	081426	316369	CSPIRE-GEN GOVT INS
				ACCOUNT TOTAL			6,305.30			
001095	636500				OFFICE EQUIPMENT R&M					
002471	CINTAS CORPORATION #	5329862602	0	2026 10	INV	P	470.80	081426	316376	CINTAS CABINET INV
002471	CINTAS CORPORATION #	5350105808	0	2026 10	INV	P	8.03	081426	316378	CINTAS MAINTENANCE
							478.83			
				ACCOUNT TOTAL			478.83			
				ORG 001095 TOTAL			96,671.66			
001100			POLICE/PUB.SFTY							
001100	508000				COMPUTER SUPPLIES					
004482	TYLER TECHNOLGIES IN	025-557659	0	2026 11	INV	P	1,418.00	081426	316560	TYLER PAYMENTS HARD
				ACCOUNT TOTAL			1,418.00			
001100	510000				CLEANING/JANITORIAL SPLY					
002471	CINTAS CORPORATION #	4277597861	0	2026 11	INV	P	60.68	081426	316377	MAT RENTALS FOR PUB
				ACCOUNT TOTAL			60.68			
001100	511100				SUPPLIES - COVID 19					
003810	OFFICE PRODUCTS PLUS	1129730-0	2604095	2026 10	INV	P	1,219.66	081426	316495	LYSOL, WIPES, CLORO

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			1,219.66			
001100	525000			GAS AND OIL						
002869	FUELMAN OF MS	NP70919527	0	2026 11	INV	P	80.49	081426	316420	FUELMAN OFF-SITE FU
049764	GPM INVESTMENTS-MINI	12041649	0	2026 11	INV	P	2,467.50	081426	316430	MINIT MART CHARGES
				ACCOUNT TOTAL			2,547.99			
001100	525700			DIESEL FUEL						
049764	GPM INVESTMENTS-MINI	12041649	0	2026 11	INV	P	349.96	081426	316430	MINIT MART CHARGES
				ACCOUNT TOTAL			349.96			
001100	535000			UNIFORMS, BADGES, ETC.						
002879	GALL'S LLC	035892299	2604172	2026 11	INV	P	23.99	081426	316421	HOBBLE RE/RAIN GEAR
002879	GALL'S LLC	035901949	2604172	2026 11	INV	P	496.07	081426	316421	HOBBLE RE/RAIN GEAR
							520.06			
				ACCOUNT TOTAL			520.06			
001100	535500			WEARING APPAREL						
002879	GALL'S LLC	035901949	2604172	2026 11	INV	P	787.83	081426	316421	HOBBLE RE/RAIN GEAR
003588	MID SOUTH UNIFORM &	668606	2603929	2026 11	INV	P	3,071.46	081426	316474	PATROL SHIRTS AND
003698	MS POLICE SUPPLY CO	I-7967	2602603	2026 10	INV	P	4,516.75	081426	316477	SUPPLIES FOR STOCK
004017	REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	993.19	081426	316522	1212-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	402.14	081426	316522	5548-07/31/26 REGIO
							1,395.33			
				ACCOUNT TOTAL			9,771.37			
001100	546000			MINOR EQUIPMENT						
002526	COMLINK WIRELESS TEC	IN-8150	2603623	2026 11	INV	P	1,012.80	081426	316390	KNOBS AND HOLSTERS
003588	MID SOUTH UNIFORM &	668813	2602733	2026 11	INV	P	840.00	081426	316474	VEST STRAP KITS
003742	N & H ELECTRONIC DIS	38768	2604076	2026 10	INV	P	142.20	081426	316491	ZIE TIPS FOR EVIDEN
				ACCOUNT TOTAL			1,995.00			
001100	559000			OTHER OPERATING MATL/SPLY						
002527	COMMERCIAL STATIONER	499368-0	2603971	2026 11	INV	P	510.00	081426	316391	LETTERHEAD FOR STOC
003810	OFFICE PRODUCTS PLUS	1129730-1	2604095	2026 11	INV	P	33.10	081426	316495	LYSOL, WIPES, CLORO
				ACCOUNT TOTAL			543.10			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001100	570000			MTR VEHICLE REP. PTS/SPL						
002060	ADVANCE AUTO PARTS	5604618174357	2603694	2026 11	INV	P	614.98	081426	316344	PARTS FOR UNITS# 20
002060	ADVANCE AUTO PARTS	5604621274945	2604152	2026 11	INV	P	135.43	081426	316344	SUPPLIES FOR SHOP Q
							750.41			
002342	BRUCE AUTO RECYCLING	599063	2604022	2026 11	INV	P	125.00	081426	316360	MIRROR FOR UNIT#217
002357	BUMPER TO BUMPER #23	230-202003	2603870	2026 11	INV	P	661.12	081426	316363	BRAKES AND ROTORS F
002357	BUMPER TO BUMPER #23	230-202176	2603921	2026 11	INV	P	243.92	081426	316363	PARTS FOR STOCK HPD
							905.04			
002471	CINTAS CORPORATION #	4265693198	0	2026 11	INV	P	95.73	081426	316376	SUPPLIES FOR HPD SE
002471	CINTAS CORPORATION #	4270219990	0	2026 11	INV	P	68.73	081426	316377	SUPPLIES FOR HPD SE
002471	CINTAS CORPORATION #	4270952284	0	2026 11	INV	P	41.98	081426	316377	SUPPLIES FOR HPD SE
002471	CINTAS CORPORATION #	4277019294	0	2026 11	INV	P	44.92	081426	316377	SUPPLIES FOR SER. C
002471	CINTAS CORPORATION #	4277698680	0	2026 11	INV	P	98.63	081426	316376	SUPPLIES FOR HPD SE
							349.99			
003915	PINE BELT CDJR, INC	109254	2603900	2026 11	INV	P	63.36	081426	316507	PARTS FOR UNIT#1934
003915	PINE BELT CDJR, INC	109376	2603943	2026 11	INV	P	214.72	081426	316507	PARTS FOR STOCK
							278.08			
004514	UNIVERSITY TIRE & SE	INV274392	2604232	2026 11	INV	P	2,394.00	081426	316565	TIRES FOR STOCK
047220	WURTH USA INC	98936817	2501428	2026 11	INV	P	142.49	081426	316578	PARTS FOR SHOP-HPD
047474	1800 RADIATOR & AC	41678404	2604115	2026 10	INV	P	37.16	081426	316341	PARTS FOR STOCK SER
051432	MIDWEST MOTOR SUPPLY	104534976	2603364	2026 11	INV	P	553.47	081426	316475	SUPPLIES FOR STOCK
051432	MIDWEST MOTOR SUPPLY	104598524	2603656	2026 11	INV	P	160.68	081426	316475	SUPPLIES FOR SHOP Q
							714.15			
				ACCOUNT TOTAL			5,696.32			
001100	599000			OTHER REPAIR/MAINT. SPL.						
003905	PIERCE PLUMBING INC	49302895	0	2026 11	INV	P	717.03	081426	316505	REPAIRS TO HOSE BIB
				ACCOUNT TOTAL			717.03			
001100	604900			OTHER PROFESSIONAL SERV.						
002610	D P S CRIME LAB	90177519	0	2026 11	INV	P	1,020.00	081426	316399	ANALYTICAL FEES AUG
004453	TRANSUNION RISK AND	362606-202607-1	0	2026 11	INV	P	755.70	081426	316558	ONLINE INVESTIGATIO
				ACCOUNT TOTAL			1,775.70			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001100	604921			NOLA EXPENSE						
003135	HOWARD COMPUTERS INC	5702902026	2603642	2026 10	INV	P	3,180.00	081426	316441	NOLA CAMERA ROUTERS
003135	HOWARD COMPUTERS INC	5712522026	2603638	2026 11	INV	P	336.00	081426	316441	PEPLINK RENEWALS FO
							3,516.00			
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	72.88	081426	316522	1892-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	1,055.63	081426	316522	3414-07/31/26 REGIO
							1,128.51			
				ACCOUNT TOTAL			4,644.51			
001100	606000			TELEPHONE AND TELEGRAPH						
002158	AT&T	L2026-07.28.2026	0	2026 11	INV	P	202.00	081426	316351	AT&T LIGHTS "LONG D
002160	AT&T MOBILITY	287289913717X080526	0	2026 11	INV	P	8,949.85	081426	316353	MB2016-287/WIRELES
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	31.48	081426	316353	MB2016-287/WIRELESS
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	4,109.60	081426	316353	MB2016-287/WIRELESS
							13,090.93			
				ACCOUNT TOTAL			13,292.93			
001100	611000			TRAVEL EXPENSE						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	226.75	081426	316522	1892-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	233.73	081426	316522	5548-07/31/26 REGIO
							460.48			
048947	SHELBOURN TAMMY	11445OT	0	2026 11	INV	P	569.00	081426	316531	TRAVEL ADAVANCE FOR
				ACCOUNT TOTAL			1,029.48			
001100	612000			FREIGHT						
002798	FEDERAL EXPRESS	9-227-70841-A	0	2026 10	INV	P	41.93	081426	316413	SHIPPING FEES ARNOL
002879	GALL'S LLC	035892299	2604172	2026 11	INV	P	2.05	081426	316421	HOBBLE RE/RAIN GEAR
002879	GALL'S LLC	035901949	2604172	2026 11	INV	P	94.56	081426	316421	HOBBLE RE/RAIN GEAR
							96.61			
004505	UNITED PARCEL SERVIC	00008E1Y15316	0	2026 11	INV	P	7.97	081426	316563	SHIPPING FEES
				ACCOUNT TOTAL			146.51			
001100	635000			BUILDING R&M						
002672	DOLEAC ELECTRIC CO I	H31305	0	2026 11	INV	P	413.52	081426	316403	REPLACE FIXTURES DA
004234	SMITH, JIM SERVICES	11465	0	2026 10	INV	P	639.21	081426	316536	REPLACE THE CONDENS
004234	SMITH, JIM SERVICES	11536	0	2026 11	INV	P	214.00	081426	316536	DIAGNOSTICS AND REP

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							853.21			
				ACCOUNT TOTAL			1,266.73			
001100	638400			MOTOR VEHICLE EQ. R&M						
002109	AMERICAN PRINTING &	1902-26	2604109	2026 11	INV	P	225.00	081426	316349	REPLACE DECALS ON D
002109	AMERICAN PRINTING &	1907-26	2604151	2026 11	INV	P	200.00	081426	316349	FENDER DECALS FOR U
							425.00			
002169	AUTOMOTIVE GLASS SPE	I271944	2603884	2026 11	INV	P	395.00	081426	316354	REPLACE WINDSHIELD
003421	LIL TIRE SHOPPE (BR	1135799	2600711	2026 11	INV	P	262.37	081426	316459	REPAIRS FOR HPD UNI
003476	MAACO COLLISION REPA	42025	2603772	2026 10	INV	P	3,709.60	081426	316462	TEAR DOWN AND REPAI
003915	PINE BELT CDJR, INC	109790	2603522	2026 11	INV	P	432.00	081426	316507	REPAIRS TO UNIT#193
				ACCOUNT TOTAL			5,223.97			
001100	641700			MOTORCYCLE RENT						
048971	ENTERPRISE FM TRUST	557302A-080526	0	2026 11	INV	P	10,649.60	081426	316409	MB # 2022-221 LEASE
				ACCOUNT TOTAL			10,649.60			
001100	684500			REGISTRATION FEE/TUITION						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	495.00	081426	316522	1892-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	1,025.00	081426	316522	5548-07/31/26 REGIO
							1,520.00			
				ACCOUNT TOTAL			1,520.00			
				ORG 001100 TOTAL			64,388.60			
001131			JOINT P&F TRNG.							
001131	501000			OTHER EXPENDABLE OFF.SPL						
003810	OFFICE PRODUCTS PLUS	1121055-1	2602472	2026 10	INV	P	28.00	081426	316495	OFFICE SUPPLIES
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	353.36	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			381.36			
001131	507100			BOOKS-FIRE						
003270	JONES & BARTLETT PUB	1347093	2604148	2026 11	INV	P	1,888.91	081426	316450	BOOKS FOR FIRE ACAD
				ACCOUNT TOTAL			1,888.91			
001131	559000			OTHER OPERATING MATL/SPLY						
003963	PRECISION DELTA CORP	34902	2601375	2026 11	INV	P	422.24	081426	316518	AMMUNITION

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
					ACCOUNT TOTAL		422.24			
001131	6110FR			TRAVEL - FIRE						
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	953.46	081426	316522	3414-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	-533.86	081426	316522	5548-07/31/26 REGIO
							419.60			
					ACCOUNT TOTAL		419.60			
001131	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	199.03	081426	316546	SPIRE-VARIOUS DEPAR
					ACCOUNT TOTAL		199.03			
001131	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697939	0	2026 11	INV	P	50.00	081426	316437	HAVARD PEST CONTROL
					ACCOUNT TOTAL		50.00			
001131	644900			OTHER RENT						
004682	WOOLWINE LLC DBA DEA	31569	0	2026 11	INV	P	209.33	081426	316577	VAN RENTAL-FIRE APP
004682	WOOLWINE LLC DBA DEA	31570	0	2026 11	INV	P	209.33	081426	316577	VAN RENTAL-FIRE APP
							418.66			
					ACCOUNT TOTAL		418.66			
001131	6845FR			REGISTRATION-FIRE						
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	600.00	081426	316522	3414-07/31/26 REGIO
					ACCOUNT TOTAL		600.00			
001131	6845PO			REGISTRATION-POLICE						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	4,300.00	081426	316522	1892-07/31/26 REGIO
					ACCOUNT TOTAL		4,300.00			
					ORG 001131 TOTAL		8,679.80			
001160			FIRE DIVISION							
001160	501000			OTHER EXPENDABLE OFF.SPL						
050056	AMAZON CAPITAL	1N7L-GLPJ-PVL3	2603955	2026 11	INV	P	101.49	081426	316348	HFD STATION SUPPLIE
					ACCOUNT TOTAL		101.49			
001160	502000			MINOR OFFICE EQUIP/FURN.						
004017	REGIONS CARDHOLDER S	7383-07/21/26	0	2026 11	INV	P	600.00	081426	316522	7382-07/31/26 REGIO
					ACCOUNT TOTAL		600.00			
001160	508000			COMPUTER SUPPLIES						

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
050056	AMAZON CAPITAL	1FTK-HVN3-CXQP	2603981	2026 11	INV	P	66.03	081426	316348	HFD ADMIN OFFICE SU
				ACCOUNT TOTAL			66.03			
001160	510000			CLEANING/JANITORIAL SPLY						
002471	CINTAS CORPORATION #	4277293047	0	2026 11	INV	P	280.70	081426	316376	HFD STATION 9 CLEAN
002471	CINTAS CORPORATION #	4277698547	0	2026 11	INV	P	6.80	081426	316378	HFD MECHANIC SHOP C
							287.50			
048909	BRADY COMPANIES, LLC	12032200	2604062	2026 11	INV	P	775.47	081426	316359	HFD CLEANING & JANI
048909	BRADY COMPANIES, LLC	12032204	2604062	2026 11	INV	P	75.12	081426	316359	HFD CLEANING & JANI
048909	BRADY COMPANIES, LLC	12059807	2603827	2026 11	INV	P	5.45	081426	316359	HFD CLEANING SUPPLI
048909	BRADY COMPANIES, LLC	12059808	2604062	2026 11	INV	P	21.20	081426	316359	HFD CLEANING & JANI
							877.24			
				ACCOUNT TOTAL			1,164.74			
001160	511000			HOUSEHOLD SUPPLIES						
050056	AMAZON CAPITAL	1N7L-GLPJ-PVL3	2603955	2026 11	INV	P	55.00	081426	316348	HFD STATION SUPPLIE
050056	AMAZON CAPITAL	1XX3-3CTR-PPCX	2604059	2026 11	INV	P	442.74	081426	316348	HFD SUPPLIES FOR ST
							497.74			
				ACCOUNT TOTAL			497.74			
001160	535000			UNIFORMS, BADGES, ETC.						
050056	AMAZON CAPITAL	1N7L-GLPJ-PVL3	2603955	2026 11	INV	P	649.91	081426	316348	HFD STATION SUPPLIE
052127	GLITZ N GLAM 601	000691	0	2026 11	INV	P	365.00	081426	316427	HFD UNIFORM EMBROID
				ACCOUNT TOTAL			1,014.91			
001160	546000			MINOR EQUIPMENT						
002567	COURTNEY'S RESTAURAN	17396	2602792	2026 11	INV	P	975.00	081426	316396	HFD STATION 5 ICE M
				ACCOUNT TOTAL			975.00			
001160	560000			BUILDING MATERIALS & SPLY						
002716	EDDIE PEARSON ROOFIN	3305	2603932	2026 11	INV	P	1,102.50	081426	316405	HFD STATION 6 ROOF
				ACCOUNT TOTAL			1,102.50			
001160	560500			ELECTRICAL SUPPLIES						
002883	GARNER LUMLEY ELECTR	629697	2603853	2026 11	INV	P	198.90	081426	316422	HFD STATION 4 REPAI
002901	GILKEY ELECTRIC SUPP	428702	2603624	2026 11	INV	P	110.56	081426	316425	HFD STATION 9 LIGHT
				ACCOUNT TOTAL			309.46			
001160	570000			MTR VEHICLE REP. PTS/SPL						

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
002733	EMERGENCY EQUIPMENT	531778	2603912	2026 11	INV	P	295.61	081426	316407	HFD ENGINE 7 UNIT #
004368	SUNBELT FIRE INC	0004061	2604061	2026 11	INV	P	151.96	081426	316549	HFD LADDER 6 UNIT #
004368	SUNBELT FIRE INC	00042487	2604072	2026 11	INV	P	96.99	081426	316549	HFD ENGINE 4 UNIT #
004368	SUNBELT FIRE INC	00042585	2604087	2026 11	INV	P	210.50	081426	316549	HFD RESERVE LADDER
							459.45			
				ACCOUNT TOTAL			755.06			
001160	599000			OTHER REPAIR/MAINT. SPL.						
002304	BRACKMAN MOWER WAREH	84494	2603439	2026 11	INV	P	1,457.24	081426	316358	HFD STATION 1 LAWNM
				ACCOUNT TOTAL			1,457.24			
001160	604900			OTHER PROFESSIONAL SERV.						
002109	AMERICAN PRINTING &	1879-26	0	2026 11	INV	P	45.00	081426	316349	HFD PARKING SIGN FO
003166	HYDRACLEAN, LLC	35231	2603833	2026 11	INV	P	116.12	081426	316444	HFD STATION 6 WATER
				ACCOUNT TOTAL			161.12			
001160	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290217384X080526	0	2026 11	INV	P	936.79	081426	316353	MB2016-287/WIRELESS
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	414.08	081426	316353	MB2016-287/WIRELESS
							1,350.87			
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	2,777.03	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			4,127.90			
001160	612000			FREIGHT						
002567	COURTNEY'S RESTAURAN	17396	2602792	2026 11	INV	P	150.00	081426	316396	HFD STATION 5 ICE M
002733	EMERGENCY EQUIPMENT	531778	2603912	2026 11	INV	P	42.49	081426	316407	HFD ENGINE 7 UNIT #
003744	NAFECO-NORTH AMERICA	1435800	2604039	2026 11	INV	P	22.92	081426	316492	HFD FIREFIGHTING GE
003744	NAFECO-NORTH AMERICA	1436059	2604039	2026 11	INV	P	21.66	081426	316492	HFD FIREFIGHTING GE
							44.58			
004368	SUNBELT FIRE INC	0004061	2604061	2026 11	INV	P	18.62	081426	316549	HFD LADDER 6 UNIT #
004368	SUNBELT FIRE INC	00042487	2604072	2026 11	INV	P	29.88	081426	316549	HFD ENGINE 4 UNIT #
004368	SUNBELT FIRE INC	00042585	2604087	2026 11	INV	P	21.00	081426	316549	HFD RESERVE LADDER
							69.50			
048909	BRADY COMPANIES, LLC	12059807	2603827	2026 11	INV	P	5.15	081426	316359	HFD CLEANING SUPPLI
				ACCOUNT TOTAL			311.72			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001160	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	198.38	081426	316546	SPIRE-VARIOUS DEPAR
004321	SPIRE	G2026-27 JUL	0	2026 11	INV	P	135.17	081426	316546	SPIRE(WILMUT GAS) V
							333.55			
				ACCOUNT TOTAL			333.55			
001160	630500			ELECTRICITY						
004282	SOUTHERN PINE ELECTR	E2026-08.04	0	2026 11	INV	P	1,145.36	081426	316540	SOUTHERN PINE ELECT
				ACCOUNT TOTAL			1,145.36			
001160	631500			WATER						
002146	ARNOLD LINE WATER AS	T2026-07.17	0	2026 11	INV	P	38.00	081426	316350	ARNOLD LINE WATER-H
				ACCOUNT TOTAL			38.00			
001160	635700			PLUMBING EQUIPMENT R&M						
003166	HYDRACLEAN, LLC	35231	2603833	2026 11	INV	P	.44	081426	316444	HFD STATION 6 WATER
				ACCOUNT TOTAL			.44			
001160	638200			MINOR EQUIPMENT R&M						
002083	ALLBRITTON CHAIN SAW	22379	2603458	2026 11	INV	P	256.49	081426	316346	HFD ENGINE 4 UNIT #
				ACCOUNT TOTAL			256.49			
001160	638400			MOTOR VEHICLE EQ. R&M						
003915	PINE BELT CDJR, INC	555737	2601340	2026 11	INV	P	183.64	081426	316507	HFD I1 UNIT #18557
				ACCOUNT TOTAL			183.64			
001160	638900			SCBA EQUIP. R&M						
002733	EMERGENCY EQUIPMENT	531772	2603906	2026 11	INV	P	7,378.16	081426	316407	HFD SCBA EQUIPMENT
				ACCOUNT TOTAL			7,378.16			
001160	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697933	0	2026 11	INV	P	48.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2697934	0	2026 11	INV	P	48.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2700092	0	2026 10	INV	P	48.00	081426	316437	HAVARD PEST CONTROL
							144.00			
				ACCOUNT TOTAL			144.00			
001160	639900			OTHER REPAIRS AND MAINT.						
003166	HYDRACLEAN, LLC	35231	2603833	2026 11	INV	P	278.44	081426	316444	HFD STATION 6 WATER
050056	AMAZON CAPITAL	1N7L-GLPJ-PVL3	2603955	2026 11	INV	P	10.49	081426	316348	HFD STATION SUPPLIE

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			288.93			
001160	641000			OFFICE EQUIPMENT RENT						
004050	RICOH CORP	5073609780	0	2026 11	INV	P	50.90	081426	316524	HFD ADMIN COPIER RE
				ACCOUNT TOTAL			50.90			
001160	643500			MOP-MAT-RAG RENT						
002471	CINTAS CORPORATION #	4277019687	0	2026 11	INV	P	97.58	081426	316376	HFD ADMIN OFFICE MA
				ACCOUNT TOTAL			97.58			
				ORG 001160 TOTAL			22,561.96			
001180			LAND DEVEL.ADM.							
001180	501000			OTHER EXPENDABLE OFF.SPL						
004328	STAPLES	6070170384	2604134	2026 10	INV	P	35.97	081426	316548	OFFICE SUPPLIES - L
004328	STAPLES	6070170385	2604134	2026 10	INV	P	192.14	081426	316548	OFFICE SUPPLIES - L
							228.11			
				ACCOUNT TOTAL			228.11			
001180	502000			MINOR OFFICE EQUIP/FURN.						
004017	REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	219.99	081426	316522	1212-07/31/26 REGIO
				ACCOUNT TOTAL			219.99			
001180	505000			SUBSCRIPTIONS,MAGS,MAPS						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	150.50	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			150.50			
001180	508000			COMPUTER SUPPLIES						
050056	AMAZON CAPITAL	1JCK-1N9Q-QPHV	2603824	2026 11	INV	P	780.40	081426	316348	OFFICE SUPPLIES - A
				ACCOUNT TOTAL			780.40			
001180	525000			GAS AND OIL						
049764	GPM INVESTMENTS-MINI	12041652	0	2026 11	INV	P	42.04	081426	316429	MINIT MART CHARGES
				ACCOUNT TOTAL			42.04			
001180	535500			WEARING APPAREL						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	118.76	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			118.76			
001180	570000			MTR VEHICLE REP. PTS/SPL						
002815	FIRESTONE COMPLETE A	292071	2604199	2026 10	INV	P	264.80	081426	316415	TIRE REPLACEMENT &
004316	SPEEDY PRINTING & SI	35298	2604288	2026 11	INV	P	100.00	081426	316544	VEHICLE DECALS - UN

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							364.80			
				ACCOUNT TOTAL						
001180	601600			TITLE OPINIONS						
004076	ROGERS, KEVIN	08-07-2026	0	2026 10	INV	P	750.00	081426	316527	TITLE OPINION - 08
				ACCOUNT TOTAL			750.00			
001180	601800			LOT CLEARING						
004417	TERRY'S BACKHOE AND	1251	0	2026 10	INV	P	1,405.78	081426	316553	COURT LOT CLEARING
047238	COHENS, ARTHUR	SUNSHINE-0CARPENTER	0	2026 10	INV	P	65.00	081426	316388	LOT CLEARING - 0 CA
047238	COHENS, ARTHUR	SUNSHINE-0FAIRLEYST	0	2026 10	INV	P	160.00	081426	316388	LOT CLEARING - 0 FA
047238	COHENS, ARTHUR	SUNSHINE-1002FAIRLEY	0	2026 10	INV	P	65.00	081426	316388	LOT CLEARING - 1002
047238	COHENS, ARTHUR	SUNSHINE-112KENSINGT	0	2026 10	INV	P	250.00	081426	316388	LOT CLEARING - 112
047238	COHENS, ARTHUR	SUNSHINE-1301REBECCA	0	2026 10	INV	P	249.00	081426	316388	LOT CLEARING - 1301
047238	COHENS, ARTHUR	SUNSHINE-1305REBECCA	0	2026 10	INV	P	250.00	081426	316388	LOT CLEARING - 1305
047238	COHENS, ARTHUR	SUNSHINE-1310REBECCA	0	2026 10	INV	P	250.00	081426	316388	LOT CLEARING - 1310
047238	COHENS, ARTHUR	SUNSHINE-408DIXIE	0	2026 10	INV	P	250.00	081426	316388	LOT CLEARING - 408
047238	COHENS, ARTHUR	SUNSHINE-411MOBILEST	0	2026 10	INV	P	240.00	081426	316388	LOT CLEARING - 411
047238	COHENS, ARTHUR	SUNSHINE-705ATLANTA	0	2026 10	INV	P	250.00	081426	316388	LOT CLEARING - 705
047238	COHENS, ARTHUR	SUNSHINE-712E2NDST	0	2026 11	INV	P	6,188.50	081426	316388	LOT CLEAR/SECURE -
							8,217.50			
				ACCOUNT TOTAL			9,623.28			
001180	604900			OTHER PROFESSIONAL SERV.						
004482	TYLER TECHNOLGIES IN	025-557659	0	2026 11	INV	P	1,418.00	081426	316560	TYLER PAYMENTS HARD
004482	TYLER TECHNOLGIES IN	025-562298	2602027	2026 10	INV	P	1,250.00	081426	316560	CODE ENFORCEMENT RE
							2,668.00			
050928	MCCARTY KAREN	2026-02-1	0	2026 10	INV	P	9,750.00	081426	316467	2026 ANNUAL ACTION
				ACCOUNT TOTAL			12,418.00			
001180	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	570.22	081426	316353	MB2016-287/WIRELESS
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	414.08	081426	316353	MB2016-287/WIRELESS
							984.30			
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	1,163.15	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			2,147.45			
001180	620000			PRINTING						
004057	RJ YOUNG COMPANY	INV8183032	0	2026 11	INV	P	331.84	081426	316525	AAA145348 - BUILDIN
				ACCOUNT TOTAL			331.84			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001180	638400			MOTOR VEHICLE EQ. R&M						
002815	FIRESTONE COMPLETE A	292071	2604199	2026 10	INV	P	258.06	081426	316415	TIRE REPLACEMENT &
003712	MS STATE/TAX COMM/TA	NEW TAG UNIT # 22992	0	2026 11	INV	P	12.00	081426	316489	NEW TAG UNIT #22992
004319	SPF WINDOW TINTING	080225	2604150	2026 10	INV	P	250.00	081426	316545	WINDOW TINTING - UN
004576	WALT MASSEY CHEVROLE	457663	2604286	2026 11	INV	P	69.95	081426	316567	OIL CHANGE - UNIT 2
				ACCOUNT TOTAL			590.01			
001180	684500			REGISTRATION FEE/TUITION						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	138.00	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			138.00			
001180	740000			AUTOMOBILES						
002565	COURTESY MOTORS INC	DEAL#81297	2602365	2026 10	INV	P	36,313.00	081426	316395	ONE 2026 FORD F150
				ACCOUNT TOTAL			36,313.00			
				ORG 001180 TOTAL			64,216.18			
001190			P/S CONTRAC.SER							
001190	681500			JAIL EXPENSE						
002851	FORREST CTY SUPERVIS	03.2026FCJ	0	2026 10	INV	P	46,991.90	081426	316418	INMATE HOUSING MARC
				ACCOUNT TOTAL			46,991.90			
				ORG 001190 TOTAL			46,991.90			
001191			TRAFFIC MAINT.							
001191	554000			TRAFFIC CONTROL EQ. SPLY.						
002608	CUSTOM PRODUCTS CORP	INV45319	0	2026 11	INV	P	1,770.60	081426	316398	PO# 02601609
002883	GARNER LUMLEY ELECTR	629437	2603898	2026 11	INV	P	216.44	081426	316422	BREAKER FOR SIGNLS
				ACCOUNT TOTAL			1,987.04			
001191	554500			TRAFFIC SIGNS						
004205	SIGNS FIRST	INV-96109	2601631	2026 11	INV	P	76.46	081426	316534	PARKING SIGN
				ACCOUNT TOTAL			76.46			
001191	559000			OTHER OPERATING MATL/SPLY						
002714	ECONOMY SUPPLY CO	167570	2603896	2026 11	INV	P	3.50	081426	316404	CABNET SUPPLIES
				ACCOUNT TOTAL			3.50			
001191	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	310.56	081426	316353	MB2016-287/WIRELESS

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
051742	C SPIRE - CELL PHONE 3001031910 JULY 2026		0	2026 11	INV	P	90.66	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			401.22			
001191	637500			TRAFFIC CONTROL EQ. R&M						
003953	POWELL CONSTRUCTION	4557	2603711	2026 11	INV	P	5,625.00	081426	316514	FLASHER REPAIR NR B
				ACCOUNT TOTAL			5,625.00			
001191	643000			UNIFORM RENT						
002471	CINTAS CORPORATION # 4277016877		0	2026 10	INV	P	40.89	081426	316377	TRAFFIC UNIFORM SC/
002471	CINTAS CORPORATION # 4277696327		0	2026 11	INV	P	40.89	081426	316377	TRAFIC UNIFORM SC/8
002471	CINTAS CORPORATION # 4278470536		0	2026 11	INV	P	92.37	081426	316377	TRAFFIC UNIFORM SC/
							174.15			
				ACCOUNT TOTAL			174.15			
001191	643500			MOP-MAT-RAG RENT						
002471	CINTAS CORPORATION # 4277016532		0	2026 10	INV	P	9.02	081426	316378	TRAFFIC MATS S/C 82
002471	CINTAS CORPORATION # 4277695781		0	2026 11	INV	P	9.02	081426	316378	TRAFFIC MATS S/8200
002471	CINTAS CORPORATION # 4278470015		0	2026 11	INV	P	9.02	081426	316378	TRAFFIC MATS S/8200
							27.06			
				ACCOUNT TOTAL			27.06			
001191	687000			CUSTODIAL SERVICE						
050404	PRECIOUS TATE JASPER 1J		2600808	2026 11	INV	P	311.87	081426	316516	TWO-QUOTE JANITORIA
				ACCOUNT TOTAL			311.87			
				ORG 001191 TOTAL			8,606.30			
001201	STREET DIV.									
001201	501000			OTHER EXPENDABLE OFF.SPL						
004634	WHEELER'S JANITORIAL 3392		2603648	2026 11	INV	P	496.00	081426	316574	TRASH BAGS/LITTER P
				ACCOUNT TOTAL			496.00			
001201	540000			ASPHALT & ASPHALT PROD.						
004586	WARREN PAVING INC	129787	0	2026 11	INV	P	388.95	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	129872	0	2026 11	INV	P	470.55	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	129958	0	2026 11	INV	P	571.23	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	130038	0	2026 11	INV	P	450.41	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	130202	2603919	2026 11	INV	P	144.13	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	130280	0	2026 11	INV	P	451.48	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	130499	0	2026 11	INV	P	316.88	081426	316568	ASPHALT/VARIOUS LOC
004586	WARREN PAVING INC	130511	0	2026 11	INV	P	268.13	081426	316568	ASPHALT/VARIOUS LOC
							3,061.76			

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YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			3,061.76			
001201	542000			DRAINAGE PIPE & CULVERTS						
002657	DEWS, C L & SONS FOU	212980	2603843	2026 11	INV	P	500.00	081426	316401	3 PC CURB INLET W/L
				ACCOUNT TOTAL			500.00			
001201	559000			OTHER OPERATING MATL/SPLY						
002471	CINTAS CORPORATION #	4277696417	0	2026 11	INV	P	84.26	081426	316377	AIR & SOAP SVC, HAN
002471	CINTAS CORPORATION #	4278470419	0	2026 11	INV	P	88.63	081426	316377	MOP, AIR & SOAP SVC
							172.89			
002472	CINTAS FIRST AID J71	5350984704	0	2026 11	INV	P	8.03	081426	316379	CABINET ORGANIZED/
002714	ECONOMY SUPPLY CO	168950	2604259	2026 11	INV	P	78.00	081426	316404	WASP SPRAY
004634	WHEELER'S JANITORIAL	3392	2603648	2026 11	INV	P	440.00	081426	316574	TRASH BAGS/LITTER P
				ACCOUNT TOTAL			698.92			
001201	570000			MTR VEHICLE REP. PTS/SPL						
048827	CARQUEST	017491	0	2026 11	INV	P	169.99	081426	316372	BATTERY/UNIT PO 260
				ACCOUNT TOTAL			169.99			
001201	604900			OTHER PROFESSIONAL SERV.						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	776.40	081426	316353	MB2016-287/WIRELESS
002460	CHEMPRO SERVICES	24327	2600647	2026 11	INV	P	21,150.00	081426	316374	2 QUOTE/HERICIDE AP
048966	MARTINEZ DAVID J	287	0	2026 11	INV	P	5,600.00	081426	316464	WEEKLY MAINTENANCE-
048966	MARTINEZ DAVID J	288	0	2026 11	INV	P	1,000.00	081426	316464	WEEKLY MAINTENANCE-
048966	MARTINEZ DAVID J	289	0	2026 11	INV	P	1,400.00	081426	316464	WEEKLY MAINTENANCE-
							8,000.00			
				ACCOUNT TOTAL			29,926.40			
001201	638400			MOTOR VEHICLE EQ. R&M						
003861	PATTERSON AUTO ELECT	83355	2604050	2026 11	INV	P	300.00	081426	316501	REPAIRS ON UNIT 200
				ACCOUNT TOTAL			300.00			
001201	638700			AGRICULTURAL EQ. R&M						
004297	SOUTHERN TIRE MART (	2520217718	2603954	2026 11	INV	P	230.00	081426	316543	SERVICE CALL UNIT 2
				ACCOUNT TOTAL			230.00			
001201	639900			OTHER REPAIRS AND MAINT.						
051590	UNITED FENCE	892	0	2026 11	INV	P	578.64	081426	316562	REPAIRS ON IRON GAT

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							ACCOUNT TOTAL	578.64		
001201	643000			UNIFORM RENT						
002471	CINTAS CORPORATION #	4277695963	0	2026 11	INV	P	29.30	081426	316378	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4277696047	0	2026 11	INV	P	23.41	081426	316378	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4277696258	0	2026 11	INV	P	121.04	081426	316376	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4277696331	0	2026 11	INV	P	59.25	081426	316377	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4277696394	0	2026 11	INV	P	37.25	081426	316377	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470076	0	2026 11	INV	P	29.30	081426	316378	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470178	0	2026 11	INV	P	23.41	081426	316378	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470259	0	2026 11	INV	P	121.04	081426	316376	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470356	0	2026 11	INV	P	59.25	081426	316377	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470454	0	2026 11	INV	P	37.25	081426	316378	MAT RENTALS SC 8200
							540.50			
							ACCOUNT TOTAL	540.50		
							ORG 001201 TOTAL	36,502.21		
001202				STREET LIGHTS						
001202	630500			ELECTRICITY						
003700	MS POWER COMPANY	E2026-07.27.26	0	2026 11	INV	P	115.29	081426	316482	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-07.28.26A	0	2026 11	INV	P	60.83	081426	316481	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-07.29.26	0	2026 11	INV	P	115.88	081426	316480	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-07.30.2026	0	2026 11	INV	P	267.55	081426	316478	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-07.30.26	0	2026 11	INV	P	114.66	081426	316483	MISSISSIPPI POWER -
003700	MS POWER COMPANY	E2026-08.03.2026	0	2026 11	INV	P	183.54	081426	316484	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-08.04.26B	0	2026 11	INV	P	55.58	081426	316486	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-08.06	0	2026 11	INV	P	112.21	081426	316488	MISSISSIPPI POWER-9
003700	MS POWER COMPANY	E2026-08.06.26	0	2026 11	INV	P	55.58	081426	316485	MISSISSIPPI POWER E
							1,081.12			
003873	PEARL RIVER VALLEY E	2026-07.24.26A	0	2026 11	INV	P	1,883.08	081426	316503	PEARL RIVER VALLEY
003873	PEARL RIVER VALLEY E	2026-07.27.26	0	2026 11	INV	P	686.05	081426	316503	PEARL RIVER VALLEY
003873	PEARL RIVER VALLEY E	2026-07.31	0	2026 11	INV	P	413.70	081426	316503	PEARL RIVER VALLE E
003873	PEARL RIVER VALLEY E	2026.07.24.26	0	2026 10	INV	P	2,272.55	081426	316503	PEARL RIVER VALLEY-
							5,255.38			
004282	SOUTHERN PINE ELECTR	E2026-08.04	0	2026 11	INV	P	2,417.86	081426	316540	SOUTHERN PINE ELECT
							ACCOUNT TOTAL	8,754.36		
							ORG 001202 TOTAL	8,754.36		
001203				ENGR/PUBLIC SER						
001203	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	310.56	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	215.80	081426	316370	SC# 382C SPIRE BILL

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			526.36			
001203	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	28.30	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			28.30			
001203	641000			OFFICE EQUIPMENT RENT						
004057	RJ YOUNG COMPANY	INV8168821	0	2026 11	INV	P	132.63	081426	316525	MB 2022-377 PLOTTER
				ACCOUNT TOTAL			132.63			
001203	687000			CUSTODIAL SERVICE						
050404	PRECIOUS TATE JASPER 1J		2600808	2026 11	INV	P	311.87	081426	316516	TWO-QUOTE JANITORIA
				ACCOUNT TOTAL			311.87			
				ORG 001203 TOTAL			999.16			
001204			SHOP DIVISION							
001204	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	20.00	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			20.00			
001204	643000			UNIFORM RENT						
002471	CINTAS CORPORATION #	4277696186	0	2026 11	INV	P	123.65	081426	316376	UNIFORM RENTALS SC
002471	CINTAS CORPORATION #	4278470348	0	2026 11	INV	P	133.53	081426	316376	UNIFORM RENTALS SC
							257.18			
				ACCOUNT TOTAL			257.18			
				ORG 001204 TOTAL			277.18			
001205			G O & F S DIV.							
001205	604900			OTHER PROFESSIONAL SERV.						
051159	INTEVACON FLEET CARD	12043203	0	2026 11	INV	P	250.00	081426	316445	FLEET CARD MONTHLY
				ACCOUNT TOTAL			250.00			
				ORG 001205 TOTAL			250.00			
001206			DRAINAGE DIV.							
001206	525000			GAS AND OIL						
049748	MCCAY JOHN REID	12172	0	2026 11	INV	P	2,000.00	081426	316468	TOP SOIL 14 YARDS -
				ACCOUNT TOTAL			2,000.00			
001206	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	125.92	081426	316353	MB2016-287/WIRELESS

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	386.27	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			512.19			
001206	636000			STREETS & STRUCTURES R&M						
050520	PINEBELT STORM DRAIN	2026	2604100	2026 11	INV	P	1,650.00	081426	316509	70 LFT DITCH CLEANI
				ACCOUNT TOTAL			1,650.00			
001206	721503			INNSWOOD DRAINAGE						
050520	PINEBELT STORM DRAIN	2027	2604101	2026 11	INV	P	4,750.00	081426	316509	INLET REPAIR/ PIPE
				ACCOUNT TOTAL			4,750.00			
001206	729500			OTHER IMPROVEMENTS						
003718	MSP ENTERPRISES, LLC	072826-0	2603828	2026 10	INV	P	6,000.00	081426	316490	DEMOLIT RELATED TO
				ACCOUNT TOTAL			6,000.00			
				ORG 001206 TOTAL			14,912.19			
001207		CONSTRUCTION								
001207	559000			OTHER OPERATING MATL/SPLY						
003587	MID SOUTH GLASS INC	0053782	2604080	2026 11	INV	P	225.00	081426	316473	WINDOWS REPAIRS/CON
004176	SHERWIN-WILLIAMS COM	87709115460726	2604012	2026 10	INV	P	87.10	081426	316532	WINDOW PAINT/CONST
				ACCOUNT TOTAL			312.10			
001207	560000			BUILDING MATERIALS & SPLY						
002802	FERGUSON ENTERPRISES	9320764	2504734	2026 11	INV	P	1,866.00	081426	316414	WATER FOUNTAIN FOR
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	33.66	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			1,899.66			
001207	560500			ELECTRICAL SUPPLIES						
002883	GARNER LUMLEY ELECTR	630051	2604282	2026 11	INV	P	54.06	081426	316422	EMERGENCY EXIT/EMPL
004256	SOLAR SUPPLY INC	3404909	2604188	2026 11	INV	P	394.78	081426	316537	COIL CLEANER FOR CO
				ACCOUNT TOTAL			448.84			
001207	561000			PLUMBING SUPPLIES						
003543	MCELHANEY PLUMBING I	322725	2604314	2026 11	INV	P	16.90	081426	316469	TOILET FLAPPER/HIGH
				ACCOUNT TOTAL			16.90			
001207	565000			PAINT AND PAINTING SPLY.						
004176	SHERWIN-WILLIAMS COM	87709115460726	2604012	2026 10	INV	P	66.76	081426	316532	WINDOW PAINT/CONST

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
					ACCOUNT TOTAL		66.76			
001207	599000			OTHER REPAIR/MAINT. SPL.						
004176	SHERWIN-WILLIAMS COM	84936110190726	2604011	2026 10	INV	P	57.42	081426	316532	CALK /CONST DEPT
					ACCOUNT TOTAL		57.42			
001207	606000			TELEPHONE AND TELEGRAPH						
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	45.33	081426	316370	SC# 382C SPIRE BILL
					ACCOUNT TOTAL		45.33			
001207	639100			DOWNTOWN LIGHTS R&M						
047490	PRECISION COMMUNICAT	22023	0	2026 11	INV	P	11,810.00	081426	316517	SERVICE CONTRCT BI-
					ACCOUNT TOTAL		11,810.00			
001207	643000			UNIFORM RENT						
002471	CINTAS CORPORATION #	4276217872	0	2026 11	INV	P	39.54	081426	316377	UNIFORM RENTAL/SC#8
002471	CINTAS CORPORATION #	4277696062	0	2026 11	INV	P	39.54	081426	316377	UNIFORM RENTAL/CONT
002471	CINTAS CORPORATION #	4278470154	0	2026 11	INV	P	39.54	081426	316377	UNIFORM RENTAL/SC#8
							118.62			
					ACCOUNT TOTAL		118.62			
					ORG 001207 TOTAL		14,775.63			
001220				SANITATION DIV.						
001220	559000			OTHER OPERATING MATL/SPLY						
002471	CINTAS CORPORATION #	4277016508	0	2026 11	INV	P	34.20	081426	316378	SC 8200086058-MAT R
002471	CINTAS CORPORATION #	4277016516	0	2026 11	INV	P	72.36	081426	316377	SC 8200086058-MOP R
002471	CINTAS CORPORATION #	4277695878	0	2026 11	INV	P	72.36	081426	316377	SC 8200086058-MOP R
002471	CINTAS CORPORATION #	4277695905	0	2026 11	INV	P	34.20	081426	316378	SC 8200086058-MAT R
002471	CINTAS CORPORATION #	4278470056	0	2026 11	INV	P	34.20	081426	316378	SC 8200083585-MAT R
002471	CINTAS CORPORATION #	4278470072	0	2026 11	INV	P	131.00	081426	316376	SC 8200086058-MOP R
							378.32			
004017	REGIONS CARDHOLDER S	7383-07/21/26	0	2026 11	INV	P	359.50	081426	316522	7382-07/31/26 REGIO
					ACCOUNT TOTAL		737.82			
001220	570000			MTR VEHICLE REP. PTS/SPL						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	1,112.84	081426	316353	MB2016-287/WIRELESS
003114	HOL-MAC CORPORATION	409695	2604190	2026 11	INV	P	4,185.57	081426	316439	PARTS-PTO-UNIT 2172
003114	HOL-MAC CORPORATION	409704	2604205	2026 11	INV	P	1,403.98	081426	316439	PARTS-GEAR PUMP-UNI
							5,589.55			
003388	LARD OIL COMPANY	2101237	2604177	2026 11	INV	P	3,629.97	081426	316457	MOBIL HYDDRAULIC OI

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
004297	SOUTHERN TIRE MART (	2520219734	2604254	2026 11	INV	P	4,848.12	081426	316543	SANITATION-TIRES-QU
				ACCOUNT TOTAL			15,180.48			
001220	604900			OTHER PROFESSIONAL SERV.						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	81.46	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	435.46	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			516.92			
001220	638400			MOTOR VEHICLE EQ. R&M						
003380	LANCASTER'S MACHINE	26156	2604046	2026 11	INV	P	1,200.00	081426	316455	REPAIRS-UNIT 19887
004120	SANSOM EQUIPMENT CO	W04944	2604239	2026 11	INV	P	425.00	081426	316528	REPAIRS-UNIT 22000-
004120	SANSOM EQUIPMENT CO	W04947	2604235	2026 11	INV	P	450.00	081426	316528	REPAIRS-UNIT 21944-
004120	SANSOM EQUIPMENT CO	W04948	2604233	2026 11	INV	P	912.50	081426	316528	REPAIRS-UNIT 21983-
004120	SANSOM EQUIPMENT CO	W04958	2604234	2026 11	INV	P	687.50	081426	316528	REPAIRS-UNIT 22661-
004120	SANSOM EQUIPMENT CO	W04960	2604238	2026 11	INV	P	425.00	081426	316528	REPAIRS-UNIT 22072-
							2,900.00			
				ACCOUNT TOTAL			4,100.00			
001220	643000			UNIFORM RENT						
002471	CINTAS CORPORATION #	4277017003	0	2026 11	INV	P	221.83	081426	316376	SC 8200086058-UNIFO
002471	CINTAS CORPORATION #	4277696582	0	2026 11	INV	P	221.83	081426	316376	SC 8200086058-UNIFO
002471	CINTAS CORPORATION #	4278471170	0	2026 11	INV	P	530.46	081426	316376	SC 8200086058-UNIFO
							974.12			
				ACCOUNT TOTAL			974.12			
001220	688000			TIPPING FEES						
003920	PINE BELT REGIONAL S	9131	0	2026 11	INV	P	40,638.26	081426	316508	MB# 2023-181 RUBBIS
004591	WASTE MANAGEMENT OF	0014887-2526-6	0	2026 11	INV	P	3,978.16	081426	316569	MB# 2023-181RUBBISH
051374	WASTE PRO OF MS, INC	360925	0	2026 11	INV	P	24,560.00	081426	316570	DISPOSAL OF WASTE T
051374	WASTE PRO OF MS, INC	360926	0	2026 11	INV	P	18,295.00	081426	316570	CE DISPOSAL OF WAST
051374	WASTE PRO OF MS, INC	360927	0	2026 11	INV	P	320.00	081426	316570	DISPOSAL OF WASTE T
							43,175.00			
				ACCOUNT TOTAL			87,791.42			
001220	688600			HAZARDOUS WASTE GRANT EXPENSES						
002531	COMPLETE ENVIRONMENT	11607	0	2026 10	INV	P	135,524.62	081426	316392	MB# 2024-113-114 DI
004281	SOUTHERN ON SITE STO	144555	2602889	2026 10	INV	P	565.00	081426	316539	SANITATION-PORTABLE

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			136,089.62			
001220	689000			RECYCLING FEES						
004030	REPUBLIC SERVICES IN	0991-000387134	2603757	2026 11	INV	P	24,509.53	081426	316523	OPEN P.O.-RECYCLING
				ACCOUNT TOTAL			24,509.53			
				ORG 001220 TOTAL			269,899.91			
001250			HEALTH DIVISION							
001250	513000			CHEMICALS						
002483	CLARKE	005117431	2603909	2026 11	INV	P	2,179.00	081426	316386	MOSQUITO CHEMICALS/
002483	CLARKE	005117603	2604184	2026 11	INV	P	1,634.25	081426	316386	MOSQUITO CHEMICALS
							3,813.25			
002836	FLUIDS INC.	62	2604185	2026 11	INV	P	2,975.00	081426	316416	MOSQUITO CHEMICALS
				ACCOUNT TOTAL			6,788.25			
001250	570000			MTR VEHICLE REP. PTS/SPL						
004297	SOUTHERN TIRE MART (	2520219618	2604221	2026 11	INV	P	600.00	081426	316543	TRAILER TIRES
048827	CARQUEST	017552	2604159	2026 11	INV	P	26.03	081426	316372	THERMOSTAT/UNIT 147
				ACCOUNT TOTAL			626.03			
001250	575500			AGRICLTRL REPAIR PTS/SPL						
048827	CARQUEST	017148	2604117	2026 11	INV	P	161.19	081426	316372	BATTERY/UNIT 22041
				ACCOUNT TOTAL			161.19			
				ORG 001250 TOTAL			7,575.47			
001260			ANIMAL CONTROL							
001260	699900			SERVICES NOT SPECIFIED						
003106	HOLLAND VETERINARY H	84903	0	2026 11	INV	P	576.20	081426	316440	VET VISIT FOR IVY A
003106	HOLLAND VETERINARY H	85837	0	2026 11	INV	P	1,259.48	081426	316440	VET VISIT FOR NARCO
							1,835.68			
004283	SOUTHERN PINES ANIMA	09.2026	0	2026 11	INV	P	20,833.33	081426	316541	HOUSING OF ANIMALS
				ACCOUNT TOTAL			22,669.01			
				ORG 001260 TOTAL			22,669.01			
001280			HUMAN/SOC.ASST							
001280	682099			UNALLOCATED CONTRIBUTIONS						
047930	CHRISTIAN SERVICES I	072026	0	2026 11	INV	P	5,750.00	081426	316375	AGREEMENT COH AND C
				ACCOUNT TOTAL			5,750.00			

INVOICE LIST BY GL ACCOUNT

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ORG 001280 TOTAL			5,750.00			
001402		ECONOMIC DEV.								
001402	604900			OTHER PROFESSIONAL SERV.						
051391	CLARION ASSOCIATES	10564	0	2026 10	INV	P	1,501.49	081426	316385	PROJECT/HBURG MS CO
				ACCOUNT TOTAL			1,501.49			
001402	740000			AUTOMOBILES						
003135	HOWARD COMPUTERS INC	5722752026	2603877	2026 10	INV	P	5,642.00	081426	316441	PANASONIC COMPUTERS
003135	HOWARD COMPUTERS INC	5723432026	2603877	2026 10	INV	P	328.00	081426	316441	PANASONIC COMPUTERS
							5,970.00			
				ACCOUNT TOTAL			5,970.00			
				ORG 001402 TOTAL			7,471.49			
001551		AIRPORT DIV.								
001551	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	32.41	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			32.41			
				ORG 001551 TOTAL			32.41			
001553		CEMETERY DIV								
001553	525000			GAS AND OIL						
049764	GPM INVESTMENTS-MINI	12041652	0	2026 11	INV	P	210.04	081426	316429	MINIT MART CHARGES
				ACCOUNT TOTAL			210.04			
001553	546000			MINOR EQUIPMENT						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	1,245.76	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			1,245.76			
001553	575500			AGRICLTRL REPAIR PTS/SPL						
002083	ALLBRITTON CHAIN SAW	117588	2604263	2026 11	INV	P	64.71	081426	316346	MOWER BELT UNIT # 2
002083	ALLBRITTON CHAIN SAW	22590	2604203	2026 11	INV	P	175.98	081426	316346	CHAINSAW REPAIR (UR
002083	ALLBRITTON CHAIN SAW	22670	2604262	2026 11	INV	P	218.26	081426	316346	MOWER REPAIR UNIT #
							458.95			
				ACCOUNT TOTAL			458.95			
001553	604900			OTHER PROFESSIONAL SERV.						
002083	ALLBRITTON CHAIN SAW	22670	2604262	2026 11	INV	P	71.25	081426	316346	MOWER REPAIR UNIT #
				ACCOUNT TOTAL			71.25			

INVOICE LIST BY GL ACCOUNT

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
001553	606000				TELEPHONE AND TELEGRAPH					
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	336.44	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	135.99	081426	316370	SC# 382C SPIRE BILL
					ACCOUNT TOTAL		472.43			
001553	630000				GAS					
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	20.00	081426	316546	SPIRE-VARIOUS DEPAR
					ACCOUNT TOTAL		20.00			
001553	630500				ELECTRICITY					
003873	PEARL RIVER VALLEY E	2026-07.24.26A	0	2026 11	INV	P	67.51	081426	316503	PEARL RIVER VALLEY
					ACCOUNT TOTAL		67.51			
001553	638700				AGRICULTURAL EQ. R&M					
002083	ALLBRITTON CHAIN SAW	117433	2604025	2026 11	INV	P	308.16	081426	316346	MOWER BLADES SUPPLI
002083	ALLBRITTON CHAIN SAW	22663	2604276	2026 11	INV	P	187.12	081426	316346	CHAINSAW REPAIR (UR
							495.28			
004297	SOUTHERN TIRE MART (	2520214713	2603428	2026 11	INV	P	81.00	081426	316543	TRAILER TIRE REPLAC
					ACCOUNT TOTAL		576.28			
001553	643000				UNIFORM RENT					
002471	CINTAS CORPORATION #	4277700301	0	2026 11	INV	P	119.86	081426	316376	ST. CONTRACT#820008
002471	CINTAS CORPORATION #	4278474395	0	2026 11	INV	P	144.06	081426	316376	ST. CONTRACT#820008
							263.92			
					ACCOUNT TOTAL		263.92			
001553	643500				MOP-MAT-RAG RENT					
002471	CINTAS CORPORATION #	4277700192	0	2026 11	INV	P	34.48	081426	316378	ST. CONTRACT#820008
002471	CINTAS CORPORATION #	4278474281	0	2026 11	INV	P	34.48	081426	316378	ST. CONTRACT#820008
							68.96			
					ACCOUNT TOTAL		68.96			
					ORG 001553 TOTAL		3,455.10			
FUND 001 General Fund					TOTAL:		878,912.65			

INVOICE LIST BY GL ACCOUNT

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
002300			PKS/REC-RECREATION MAINT. DIV.							
002300	501000			OTHER EXPENDABLE OFF.SPL						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	95.98	081426	316522	5548-07/31/26 REGIO
				ACCOUNT TOTAL			95.98			
002300	510000			CLEANING/JANITORIAL SPLY						
003810	OFFICE PRODUCTS PLUS	1129812-0	2604116	2026 11	INV	P	289.31	081426	316495	JANITORAL SUPPLIES
051982	HUB CITY INDUSTRIES	004874	2604065	2026 10	INV	P	708.96	081426	316443	JANITORAL SUPPLIES
				ACCOUNT TOTAL			998.27			
002300	513000			CHEMICALS						
004273	SOUTHERN GAS & SUPPL	0040324734	0	2026 10	INV	P	21.27	081426	316538	OXYGEN COMPRESSED G
047024	GREENPOINT AG HOLDIN	2564481	2604049	2026 11	INV	P	250.00	081426	316434	CHEMICALS FOR BALLF
047024	GREENPOINT AG HOLDIN	2576455	2604266	2026 11	INV	P	4,107.92	081426	316434	CHEMICALS FOR BALLF
							4,357.92			
049595	SITEONE LANDSCAPE	169671103-001	2604237	2026 11	INV	P	2,170.65	081426	316535	CHEMICALS FOR BALLF
				ACCOUNT TOTAL			6,549.84			
002300	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND2	0	2026 11	INV	P	11,414.50	081426	316380	TRF FUEL USE 7/1-7/
049764	GPM INVESTMENTS-MINI	12041651	0	2026 11	INV	P	949.59	081426	316431	MINIT MART CHARGES
				ACCOUNT TOTAL			12,364.09			
002300	525700			DIESEL FUEL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND2	0	2026 11	INV	P	734.79	081426	316380	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			734.79			
002300	535500			WEARING APPAREL						
003216	J M H GRAPHICS	50928	2604104	2026 11	INV	P	354.75	081426	316447	TSHIRTS FOR STAFF
				ACCOUNT TOTAL			354.75			
002300	541500			SAND,CLAY,GRVL,FILL DIRT						
002359	BURGE EXCAVATING & G	2413	2604070	2026 10	INV	P	3,000.00	081426	316364	MASONRY SAND
002359	BURGE EXCAVATING & G	2414	2604128	2026 10	INV	P	1,500.00	081426	316364	MASONRY SAND
							4,500.00			
002714	ECONOMY SUPPLY CO	168637	2604186	2026 11	INV	P	26.35	081426	316404	BALLFIELD SUPPLIES
049595	SITEONE LANDSCAPE	169056955-001	2603963	2026 11	INV	P	1,437.62	081426	316535	LANDSCAPING SUPPLIE

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
				ACCOUNT TOTAL			5,963.97			
002300	544000			HORT./LANDSCAPING SPLY.						
052137	PIERCE LAND SERVICES	0007	2604298	2026 11	INV	P	1,150.00	081426	316504	PINE STRAW
				ACCOUNT TOTAL			1,150.00			
002300	546000			MINOR EQUIPMENT						
004017	REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	42.79	081426	316522	1212-07/31/26 REGIO
				ACCOUNT TOTAL			42.79			
002300	560000			BUILDING MATERIALS & SPLY						
002714	ECONOMY SUPPLY CO	162185	0	2026 11	INV	P	41.35	081426	316404	REPAIR DAMAGES/DAHM
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	297.93	081426	316522	3414-07/31/26 REGIO
004256	SOLAR SUPPLY INC	3404670	2604130	2026 11	INV	P	49.92	081426	316537	AIR FILTERS
050840	PACWEST TOOL	9294	2604241	2026 11	INV	P	2,365.20	081426	316498	SHOP SUPPLIES
051432	MIDWEST MOTOR SUPPLY	104729752	2604287	2026 11	INV	P	83.41	081426	316475	SHOP SUPPLIES
				ACCOUNT TOTAL			2,837.81			
002300	560500			ELECTRICAL SUPPLIES						
002304	BRACKMAN MOWER WAREH	87583	2604246	2026 11	INV	P	367.80	081426	316358	SHOP SUPPLIES
002304	BRACKMAN MOWER WAREH	87762	2604279	2026 11	INV	P	665.34	081426	316358	ELECTRICAL PARTS FO
002304	BRACKMAN MOWER WAREH	87780	2604296	2026 11	INV	P	478.00	081426	316358	MOWER PARTS
							1,511.14			
002883	GARNER LUMLEY ELECTR	629696	2603885	2026 10	INV	P	36.12	081426	316422	ELECTRIC SUPPLIES F
050295	CONSOLIDATED ELECTRI	2899-1048194	2604206	2026 11	INV	P	1,995.00	081426	316394	TATUM PARK SPORTS F
				ACCOUNT TOTAL			3,542.26			
002300	561000			PLUMBING SUPPLIES						
003302	KEELING COMPANY (HAT	S4904798.001	2604208	2026 11	INV	P	1,988.25	081426	316451	PLUMBING SUPPLIES F
003543	MCELHANEY PLUMBING I	322500	2604178	2026 11	INV	P	25.90	081426	316469	SHOP SUPPLIES
				ACCOUNT TOTAL			2,014.15			
002300	565000			PAINT AND PAINTING SPLY.						
003926	PIONEER MANUFACTURIN	308131	2604236	2026 11	INV	P	3,078.00	081426	316510	PAINT FOR FIELDS
				ACCOUNT TOTAL			3,078.00			
002300	570000			MTR VEHICLE REP. PTS/SPL						

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
004017	REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	106.99	081426	316522	1212-07/31/26 REGIO
004297	SOUTHERN TIRE MART (	2520218447	2604147	2026 10	INV	P	786.66	081426	316543	TRUCK MAINT UNIT #2
004297	SOUTHERN TIRE MART (	2520219790	2604273	2026 11	INV	P	521.46	081426	316543	TRUCK MAINT UNIT #1
							1,308.12			
048827	CARQUEST	010522	2601046	2026 11	INV	P	30.10	081426	316372	SHOP SUPPLIES
048827	CARQUEST	014057	2602688	2026 10	INV	P	59.91	081426	316372	TRUCK MAINT UNIT #2
048827	CARQUEST	014312	2602807	2026 10	INV	P	80.69	081426	316372	TRUCK MAINT UNIT #1
048827	CARQUEST	014339	2602826	2026 10	INV	P	21.38	081426	316372	SHOP SUPPLIES
048827	CARQUEST	014646	2602991	2026 11	INV	P	15.98	081426	316372	TRUCK SUPPLIES
048827	CARQUEST	015577	2603381	2026 11	INV	P	8.60	081426	316372	SHOP SUPPLIES
048827	CARQUEST	015790	2603487	2026 11	INV	P	57.74	081426	316372	TRUCK MAINT UNIT #2
048827	CARQUEST	016130	2603661	2026 11	INV	P	32.28	081426	316372	TRUCK MAINT UNIT #1
048827	CARQUEST	016131	2603671	2026 11	INV	P	105.12	081426	316372	SHOP SUPPLIES
048827	CARQUEST	016151	2603679	2026 11	INV	P	21.80	081426	316372	TRUCK PARTS
048827	CARQUEST	016330	2603728	2026 11	INV	P	14.96	081426	316372	TRUCK MAINT UNIT #2
048827	CARQUEST	017118	2604107	2026 11	INV	P	44.92	081426	316372	TRUCK MAINT UNIT #2
048827	CARQUEST	017123	2604106	2026 10	INV	P	34.16	081426	316372	TRUCK MAINT UNIT #2
048827	CARQUEST	017207	2604146	2026 11	INV	P	94.17	081426	316372	SHOP SUPPLIES
048827	CARQUEST	017318	2604175	2026 11	INV	P	94.17	081426	316372	TRUCK PARTS
							715.98			
				ACCOUNT TOTAL			2,131.09			
002300	575500			AGRICLTRL REPAIR PTS/SPL						
002083	ALLBRITTON CHAIN SAW	117498	2604168	2026 11	INV	P	123.98	081426	316346	SHOP SUPPLIES
002083	ALLBRITTON CHAIN SAW	22380	2603486	2026 11	INV	P	56.97	081426	316346	EDGER REPAIR FC96
002083	ALLBRITTON CHAIN SAW	22781	2604160	2026 11	INV	P	38.00	081426	316346	TRIMMER REPAIR SRM2
							218.95			
002304	BRACKMAN MOWER WAREH	85658	2603758	2026 11	INV	P	1,158.26	081426	316358	SHOP SUPPLIES
002304	BRACKMAN MOWER WAREH	87179	2604127	2026 10	INV	P	108.99	081426	316358	TRUCK MAINT UNIT #2
002304	BRACKMAN MOWER WAREH	87194	2604053	2026 10	INV	P	12.71	081426	316358	MOWER PARTS
002304	BRACKMAN MOWER WAREH	87347	2604161	2026 11	INV	P	243.48	081426	316358	SHOP SUPPLIES
002304	BRACKMAN MOWER WAREH	87408	2604166	2026 11	INV	P	94.93	081426	316358	SHOP SUPPLIES
002304	BRACKMAN MOWER WAREH	87410	2604176	2026 11	INV	P	478.00	081426	316358	SHOP SUPPLIES
002304	BRACKMAN MOWER WAREH	87411	2604162	2026 11	INV	P	105.64	081426	316358	SHOP SUPPLIES
							2,202.01			
004528	UWOOD CO INC	27486	2604281	2026 11	INV	P	74.72	081426	316566	TRAILER PARTS
				ACCOUNT TOTAL			2,495.68			
002300	604900			OTHER PROFESSIONAL SERV.						
047187	FOUR SEASONS LAWN	24767	0	2026 11	INV	P	530.00	081426	316419	LAWN MAINTENANCE 38
				ACCOUNT TOTAL			530.00			

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
002300	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	595.24	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	45.33	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			640.57			
002300	612000			FREIGHT						
003926	PIONEER MANUFACTURIN	308131	2604236	2026 11	INV	P	224.95	081426	316510	PAINT FOR FIELDS
049595	SITEONE LANDSCAPE	169056955-001	2603963	2026 11	INV	P	1,075.33	081426	316535	LANDSCAPING SUPPLIE
049999	LADD'S GOLF & TURF	01-110902	2604243	2026 11	INV	P	26.37	081426	316454	SPRAYER REPAIR
				ACCOUNT TOTAL			1,326.65			
002300	635000			BUILDING R&M						
004234	SMITH, JIM SERVICES	11516	0	2026 11	INV	P	569.72	081426	316536	TIMBERTON PARK AC R
052044	WILLIAMS KELVIN	115	0	2026 11	INV	P	3,500.00	081426	316575	PRESSURE WASH CHAIN
				ACCOUNT TOTAL			4,069.72			
002300	635700			PLUMBING EQUIPMENT R&M						
002777	FAGAN TREE AND SPRAY	4881	0	2026 11	INV	P	600.00	081426	316411	LABOR/REPAIR IRR SY
003302	KEELING COMPANY (HAT	S4901491.001	2604014	2026 11	INV	P	931.74	081426	316451	JAYCEE PARK PROJECT
				ACCOUNT TOTAL			1,531.74			
002300	638400			MOTOR VEHICLE EQ. R&M						
049999	LADD'S GOLF & TURF	05-89982	2604242	2026 11	INV	P	792.00	081426	316454	REPAIR FOR CARRYALL
				ACCOUNT TOTAL			792.00			
002300	638700			AGRICULTURAL EQ. R&M						
003843	PARISH TRACTOR (HATT	P35652	2604214	2026 11	INV	P	88.21	081426	316500	BUSH HOG PART
				ACCOUNT TOTAL			88.21			
002300	644900			OTHER RENT						
002071	AIRGAS USA LLC (NORD	5526300446	0	2026 11	INV	P	171.68	081426	316345	AIRGAS RENTAL
002471	CINTAS CORPORATION #	4277421659	0	2026 11	INV	P	67.02	081426	316377	PR GROUNDS MAT RENT
002471	CINTAS CORPORATION #	4277421953	0	2026 11	INV	P	250.87	081426	316376	PR GROUNDS UNIFORM
002471	CINTAS CORPORATION #	4278181466	0	2026 11	INV	P	67.02	081426	316377	PR GROUNDS MAT RENT
002471	CINTAS CORPORATION #	5350984702	0	2026 10	INV	P	373.20	081426	316376	PR GROUNDS MEDICAL
002471	CINTAS CORPORATION #	9383754520	0	2026 11	INV	P	104.40	081426	316376	PR GROUNDS WATER CO
							862.51			

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YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							ACCOUNT TOTAL 1,034.19			
002300	687000			CUSTODIAL SERVICE						
051984	THE CLEANING LADY	481160	2600507	2026 11	INV	P	407.50	081426	316554	TWO-QUOTE JANITORIA
							ACCOUNT TOTAL 407.50			
002300	699900			SERVICES NOT SPECIFIED						
002471	CINTAS CORPORATION #	4278182353	0	2026 11	INV	P	341.91	081426	316376	PR GROUNDS UNIFORM
047187	FOUR SEASONS LAWN	24982	0	2026 11	INV	P	325.00	081426	316419	LAWN MAINTENANCE HA
047187	FOUR SEASONS LAWN	25038	0	2026 11	INV	P	530.00	081426	316419	LAWN MAINTENANCE 38
047187	FOUR SEASONS LAWN	25241	0	2026 11	INV	P	325.00	081426	316419	LAWN MAINTENANCE HA
							1,180.00			
							ACCOUNT TOTAL 1,521.91			
002300	739900			OTHER EQUIPMENT						
051492	WATER PRO, INC	9365	2603038	2026 11	INV	P	2,417.00	081426	316571	REPAIRS FOR VERNON
							ACCOUNT TOTAL 2,417.00			
							ORG 002300 TOTAL 58,712.96			
002315				PKS/REC-REC.ADMIN/COM.REL.						
002315	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND2	0	2026 11	INV	P	57.96	081426	316380	TRF FUEL USE 7/1-7/
							ACCOUNT TOTAL 57.96			
002315	551000			RECREATIONAL SUPPLIES						
003937	PLAY IT AGAIN SPORTS	002967	2604037	2026 11	INV	P	344.97	081426	316512	GIRLS FALL SOFTBALL
003937	PLAY IT AGAIN SPORTS	002975	2604035	2026 11	INV	P	840.00	081426	316512	ADULT SUMMER SOFTBA
							1,184.97			
004017	REGIONS CARDHOLDER S	3414-07/31/26	0	2026 11	INV	P	401.48	081426	316522	3414-07/31/26 REGIO
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	743.86	081426	316522	5548-07/31/26 REGIO
							1,145.34			
048941	SWANK MOTION PICTURE	DB 4403430	2603141	2026 10	INV	P	315.00	081426	316551	LICENSING FOR PARKS
							ACCOUNT TOTAL 2,645.31			
002315	551001			RECREATIONAL SUPP-ARTS CENTER						
004017	REGIONS CARDHOLDER S	5548-07/31/26	0	2026 11	INV	P	804.32	081426	316522	5548-07/31/26 REGIO
							ACCOUNT TOTAL 804.32			
002315	570000			MTR VEHICLE REP. PTS/SPL						

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YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
048827	CARQUEST	017383	2604249	2026 11	INV	P	51.02	081426	316372	TRUCK REPAIR UNIT #
				ACCOUNT TOTAL			51.02			
002315	603400			OFFICIALS						
002540	CONNER, TOBARRA	TCONNER727	0	2026 11	INV	P	70.00	081426	316393	ADULT SOFTBALL 7/27
003313	KETTLEY, ANNETTE	AKETTLEY727	0	2026 11	INV	P	100.00	081426	316452	ADULT SOFTBALL 7/27
003958	POWELL, RANDY	RPOWELL727	0	2026 11	INV	P	225.00	081426	316515	ADULT SOFTBALL 7/27
004416	TERRELL, WINSTON	WTERRELL727	0	2026 11	INV	P	280.00	081426	316552	ADULT SOFTBALL 7/27
004432	THOMPSON, JESSE	JTHOMPSON727	0	2026 11	INV	P	250.00	081426	316556	ADULT SOFTBALL 7/27
004460	TROTTER, COREY	CTROTTER727	0	2026 11	INV	P	280.00	081426	316559	ADULT SOFTBALL 7/27
048584	SUTTON DIONTA T	DSUTTON727	0	2026 11	INV	P	165.00	081426	316550	ADULT SOFTBALL 7/27
048772	LEE ANTHONY	ALEE727	0	2026 11	INV	P	305.00	081426	316458	ADULT SOFTBALL 7/27
049349	JESSICA R POWELL	JPOWELL727	0	2026 11	INV	P	50.00	081426	316449	ADULT SOFTBALL 8/3,
050091	RODGERS EDWARD	EROGERS727	0	2026 11	INV	P	150.00	081426	316526	ADULT SOFTBALL 8/3,
051135	BURNS, LOGAN	LBURNS725	0	2026 11	INV	P	40.00	081426	316365	BOOK STAFF SUPPORT
051376	GIBBS VICTOR L JR.	VGIBBS727	0	2026 11	INV	P	190.00	081426	316424	ADULT SOFTBALL 7/27
052310	MAURICE MOLETTE	MMOLETTE726	0	2026 10	INV	P	200.00	081426	316466	HYBL ALLSTAR E 9TH
052316	MICHAEL HOLMES	MHOLMES726	0	2026 10	INV	P	200.00	081426	316472	HYBL ALLSTAR E 9TH
052317	ISAIAH SPEIGHTS	ISPEIGHTS726	0	2026 10	INV	P	200.00	081426	316446	HYBL ALLSTAR E 9TH
052339	WILLIE WILEY	WWILEY726	0	2026 10	INV	P	200.00	081426	316576	HYBL ALLSTAR E 9TH
				ACCOUNT TOTAL			2,905.00			
002315	604900			OTHER PROFESSIONAL SERV.						
047581	PROTECTION AGENCY &	002836	0	2026 11	INV	P	400.00	081426	316519	HPR SOFTBALL 8/3/26
047581	PROTECTION AGENCY &	002837	0	2026 11	INV	P	400.00	081426	316519	HPR SOFTBALL 8/10,
							800.00			
				ACCOUNT TOTAL			800.00			
002315	606000			TELEPHONE AND TELEGRAPH						
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	181.32	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			181.32			

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YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
002315 630000				GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	20.00	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			20.00			
002315 630500				ELECTRICITY						
003700	MS POWER COMPANY	E2026-08.03.2026	0	2026 11	INV	P	86.88	081426	316484	MISSISSIPPI POWER E
				ACCOUNT TOTAL			86.88			
002315 639400				DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2715004	0	2026 11	INV	P	74.00	081426	316437	HAVARD PEST CONTROL
				ACCOUNT TOTAL			74.00			
				ORG 002315 TOTAL			7,625.81			
FUND 002 PARKS & RECREATION FUND				TOTAL:			66,338.77			

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ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
005160			H.M.F.P.FUND-FIRE DIVISION							
005160	570000		MTR VEHICLE REP. PTS/SPL							
048827	CARQUEST	016786	2603931	2026 11	INV	P	432.16	081426	316372	HFD MECHANIC TRUCK
			ACCOUNT TOTAL				432.16			
005160	638400		MOTOR VEHICLE EQ. R&M							
002194	BARDING GENERATOR &	188666	2604183	2026 11	INV	P	495.95	081426	316355	HFD ENGINE 1 UNIT #
051395	GREY COASTAL	5402	0	2026 11	INV	P	760.00	081426	316435	HFD ENGINE 1 UNIT #
			ACCOUNT TOTAL				1,255.95			
005160	710020		FIRE STATIONS							
002716	EDDIE PEARSON ROOFIN	3306	2604048	2026 11	INV	P	4,263.00	081426	316405	HFD STATION 6 ROOF
			ACCOUNT TOTAL				4,263.00			
005160	731500		FIRE FIGHTING							
003744	NAFECO-NORTH AMERICA	1435800	2604039	2026 11	INV	P	1,615.88	081426	316492	HFD FIREFIGHTING GE
003744	NAFECO-NORTH AMERICA	1436059	2604039	2026 11	INV	P	390.00	081426	316492	HFD FIREFIGHTING GE
							2,005.88			
			ACCOUNT TOTAL				2,005.88			
			ORG 005160 TOTAL				7,956.99			
			FUND 005 HATT.MUNICIPAL FIRE PROTECTION			TOTAL:	7,956.99			

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ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
009660		W&S O&M-CUSTOMER ACCT. DIV.							
009660 502000			MINOR OFFICE EQUIP/FURN.						
004482 TYLER TECHNOLGIES IN	045-569391	0	2026 11	INV	P	7,799.00	081426	316560	MB 2023 PG 530 CRED
			ACCOUNT TOTAL			7,799.00			
009660 525000			GAS AND OIL						
001002 CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	1,387.15	081426	316382	TRF FUEL USE 7/1-7/
			ACCOUNT TOTAL			1,387.15			
009660 604900			OTHER PROFESSIONAL SERV.						
002146 ARNOLD LINE WATER AS	896666	0	2026 11	INV	P	3,060.00	081426	316350	MB 2021-161 PAYMENT
002665 DIXIE COMMUNITY UTIL	DX 07 01 26	0	2026 11	INV	P	423.00	081426	316402	SEWER READS FOR WAT
002665 DIXIE COMMUNITY UTIL	DX 07 14 26	0	2026 11	INV	P	375.00	081426	316402	PAYMENT FOR SEWER
002665 DIXIE COMMUNITY UTIL	DX 07 24 26	0	2026 11	INV	P	423.00	081426	316402	SEWER READS FOR WAT
						1,221.00			
003796 NORTH LAMAR WATER AS	NL 06 08 26	0	2026 11	INV	P	155.00	081426	316493	SEWER READS WATER B
			ACCOUNT TOTAL			4,436.00			
009660 606000			TELEPHONE AND TELEGRAPH						
051742 C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	808.95	081426	316370	SC# 382C SPIRE BILL
			ACCOUNT TOTAL			808.95			
009660 607000			POSTAGE						
047562 ENCO UTILITY	135-1504	0	2026 11	INV	P	2,735.88	081426	316408	MB 2020-835 RT 3 BI
			ACCOUNT TOTAL			2,735.88			
009660 620000			PRINTING						
047562 ENCO UTILITY	135-1504	0	2026 11	INV	P	794.33	081426	316408	MB 2020-835 RT 3 BI
			ACCOUNT TOTAL			794.33			
009660 643000			UNIFORM RENT						
002471 CINTAS CORPORATION #	4277698227	0	2026 11	INV	P	46.50	081426	316377	STATE CONTRACT 8200
			ACCOUNT TOTAL			46.50			
009660 687000			CUSTODIAL SERVICE						
050404 PRECIOUS TATE JASPER 1J		2600808	2026 11	INV	P	311.87	081426	316516	TWO-QUOTE JANITORIA
			ACCOUNT TOTAL			311.87			
			ORG 009660 TOTAL			18,319.68			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
009672				W&S O&M-WATER TRANSMISSION DIV						
009672	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	7,676.58	081426	316382	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			7,676.58			
009672	525700			DIESEL FUEL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	359.15	081426	316382	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			359.15			
009672	570000			MTR VEHICLE REP. PTS/SPL						
002646	DELK'S TIRE SALES AN	51295	2604093	2026 11	INV	P	858.00	081426	316400	TIRES FOR UNIT # 21
002646	DELK'S TIRE SALES AN	57263	2603978	2026 10	INV	P	168.70	081426	316400	TIRE FOR UNIT # 213
							1,026.70			
003861	PATTERSON AUTO ELECT	18332	2604269	2026 11	INV	P	1,166.17	081426	316501	REPAIRS TO UNIT # 1
				ACCOUNT TOTAL			2,192.87			
				ORG 009672 TOTAL			10,228.60			
009673				W&S O&M-WATER PLANT DIVISION						
009673	513000			CHEMICALS						
002057	ADCOCK POOLS AND SPA	313259	2604141	2026 11	INV	P	51.97	081426	316342	TREATMENT CHEMICALS
002094	ALLIED UNIVERSAL COR	I3110801	2604091	2026 11	INV	P	18,088.11	081426	316347	MB2024-551: CHLORIN
002094	ALLIED UNIVERSAL COR	I3110806	2604140	2026 11	INV	P	1,715.00	081426	316347	MB2024-551: 150LB C
002094	ALLIED UNIVERSAL COR	I3110807	2604140	2026 11	INV	P	1,715.00	081426	316347	MB2024-551: 150LB C
002094	ALLIED UNIVERSAL COR	I3110808	2604140	2026 11	INV	P	1,715.00	081426	316347	MB2024-551: 150LB C
002094	ALLIED UNIVERSAL COR	I3111120	2604091	2026 11	INV	P	1,631.55	081426	316347	MB2024-551: CHLORIN
							24,864.66			
				ACCOUNT TOTAL			24,916.63			
009673	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	1,200.28	081426	316382	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			1,200.28			
009673	546000			MINOR EQUIPMENT						
002215	BATTERIES PLUS BULBS	P93703421	2604143	2026 11	INV	P	64.95	081426	316356	AA BATTERIES FOR WA
				ACCOUNT TOTAL			64.95			
009673	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	633.37	081426	316353	MB2016-287/WIRELESS
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	1,061.08	081426	316353	MB2016-287/WIRELESS

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							1,694.45			
				ACCOUNT TOTAL			1,694.45			
009673	630000			GAS						
004321	SPIRE	G2026-27 JUL	0	2026 11	INV	P	20.00	081426	316546	SPIRE(WILMUT GAS) V
				ACCOUNT TOTAL			20.00			
009673	630500			ELECTRICITY						
003700	MS POWER COMPANY	E2026-08.04	0	2026 11	INV	P	116.91	081426	316487	MISSISSIPPI POWER E
003873	PEARL RIVER VALLEY E	2026-07.24.26A	0	2026 11	INV	P	39.00	081426	316503	PEARL RIVER VALLEY
003873	PEARL RIVER VALLEY E	2026-07.31	0	2026 11	INV	P	9,077.16	081426	316503	PEARL RIVER VALLE E
003873	PEARL RIVER VALLEY E	2026.07.24.26	0	2026 10	INV	P	39.22	081426	316503	PEARL RIVER VALLEY-
							9,155.38			
				ACCOUNT TOTAL			9,272.29			
009673	638300			GENERATOR R&M						
002672	DOLEAC ELECTRIC CO I	RICHX127	2604139	2026 11	INV	P	1,455.00	081426	316403	MB2023-140: GENERAT
002672	DOLEAC ELECTRIC CO I	USMHIX127	2604139	2026 11	INV	P	7,875.00	081426	316403	MB2023-140: GENERAT
							9,330.00			
				ACCOUNT TOTAL			9,330.00			
009673	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697956	0	2026 11	INV	P	48.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2697957	0	2026 11	INV	P	50.00	081426	316437	HAVARD PEST CONTROL
							98.00			
				ACCOUNT TOTAL			98.00			
009673	687000			CUSTODIAL SERVICE						
051984	THE CLEANING LADY	481160	2600507	2026 11	INV	P	433.33	081426	316554	TWO-QUOTE JANITORIA
				ACCOUNT TOTAL			433.33			
				ORG 009673 TOTAL			47,029.93			
009676				W&S O&M-SEWER DIVISION						
009676	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	665.33	081426	316382	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			665.33			
009676	525700			DIESEL FUEL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND9	0	2026 11	INV	P	426.12	081426	316382	TRF FUEL USE 7/1-7/

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
					ACCOUNT TOTAL		426.12			
009676	535500			WEARING APPAREL						
002795	FASTENAL COMPANY	MSHAT248492	2604244	2026 11	INV	P	430.00	081426	316412	XL 8 MIL BLK NITRIL
					ACCOUNT TOTAL		430.00			
009676	561000			PLUMBING SUPPLIES						
004284	SOUTHERN PIPE & SUPP	11437590-00	0	2026 10	INV	P	132.78	081426	316542	PLUMBING SUPPLIES F
					ACCOUNT TOTAL		132.78			
009676	570000			MTR VEHICLE REP. PTS/SPL						
003861	PATTERSON AUTO ELECT	83317	2604270	2026 11	INV	P	605.92	081426	316501	REPAIRS TO UNIT # 2
					ACCOUNT TOTAL		605.92			
009676	604900			OTHER PROFESSIONAL SERV.						
002083	ALLBRITTON CHAIN SAW	22646	2603865	2026 10	INV	P	1,683.93	081426	316346	MOWER REPAIRS FOR S
002083	ALLBRITTON CHAIN SAW	22695	2604092	2026 11	INV	P	99.80	081426	316346	MOWER REPAIRS FOR S
002083	ALLBRITTON CHAIN SAW	22701	2604092	2026 10	INV	P	102.26	081426	316346	MOWER REPAIRS FOR S
							1,885.99			
002288	BONNER ANALYTICAL TE	2607125	0	2026 11	INV	P	2,289.01	081426	316357	NPDES SAMPLES, JULY
002288	BONNER ANALYTICAL TE	2607538	0	2026 11	INV	P	270.00	081426	316357	BOILWATER, N. 25TH
002288	BONNER ANALYTICAL TE	2608075	0	2026 11	INV	P	300.00	081426	316357	ROUTINE COLIFORM, A
002288	BONNER ANALYTICAL TE	2608087	0	2026 11	INV	P	300.00	081426	316357	ROUTINE COLIFORM, A
							3,159.01			
002471	CINTAS CORPORATION #	4277699068	0	2026 11	INV	P	308.96	081426	316376	SC#8200083585: UNIF
003861	PATTERSON AUTO ELECT	18332	2604269	2026 11	INV	P	2,025.00	081426	316501	REPAIRS TO UNIT # 1
003861	PATTERSON AUTO ELECT	83317	2604270	2026 11	INV	P	1,000.00	081426	316501	REPAIRS TO UNIT # 2
							3,025.00			
004423	THE SPECTRUM GROUP I	13505	0	2026 10	INV	P	500.00	081426	316555	ANNUAL CALIBRATION,
					ACCOUNT TOTAL		8,878.96			
009676	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	285.11	081426	316353	MB2016-287/WIRELESS
					ACCOUNT TOTAL		285.11			
009676	630500			ELECTRICITY						
003700	MS POWER COMPANY	E2026-07.28.26C	0	2026 11	INV	P	80.05	081426	316479	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-07.29.26	0	2026 11	INV	P	818.32	081426	316480	MISSISSIPPI POWER E
003700	MS POWER COMPANY	E2026-08.04	0	2026 11	INV	P	160.00	081426	316487	MISSISSIPPI POWER E

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
							1,058.37			
004282	SOUTHERN PINE ELECTR	E2026-08.04	0	2026 11	INV	P	599.64	081426	316540	SOUTHERN PINE ELECT
				ACCOUNT TOTAL			1,658.01			
009676	638600			CONSTRUCTION EQUIP R&M						
002083	ALLBRITTON CHAIN SAW	22658	2604092	2026 10	INV	P	75.75	081426	316346	MOWER REPAIRS FOR S
				ACCOUNT TOTAL			75.75			
				ORG 009676 TOTAL			13,157.98			
009677			W&S O&M-SEWER LAGOON DIV.							
009677	602500			LEGAL						
002346	BRUNINI GRANTHAM GRO	287240	0	2026 11	INV	P	1,156.25	081426	316361	GENERAL - SSO
004599	WATKINS & EAGER	448977	0	2026 11	INV	P	3,721.87	081426	316572	RE:ENVIRONMENTAL MA
				ACCOUNT TOTAL			4,878.12			
009677	604900			OTHER PROFESSIONAL SERV.						
002380	BYRD, WADE J.	BYRD082026	0	2026 11	INV	P	3,000.00	081426	316367	OPERATOR OF RECORD,
				ACCOUNT TOTAL			3,000.00			
009677	630500			ELECTRICITY						
003873	PEARL RIVER VALLEY E	2026-07.24.26A	0	2026 11	INV	P	566.49	081426	316503	PEARL RIVER VALLEY
003873	PEARL RIVER VALLEY E	2026-07.27.26	0	2026 11	INV	P	61.40	081426	316503	PEARL RIVER VALLEY
003873	PEARL RIVER VALLEY E	2026-07.31	0	2026 11	INV	P	2,690.88	081426	316503	PEARL RIVER VALLE E
							3,318.77			
				ACCOUNT TOTAL			3,318.77			
009677	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697948	0	2026 10	INV	P	48.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2697959	0	2026 10	INV	P	40.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2697960	0	2026 10	INV	P	40.00	081426	316437	HAVARD PEST CONTROL
003040	HAVARD PEST CONTROL	2697961	0	2026 11	INV	P	40.00	081426	316437	HAVARD PEST CONTROL
							168.00			
				ACCOUNT TOTAL			168.00			
				ORG 009677 TOTAL			11,364.89			
	FUND 009 WATER & SEWER OPERATION/MAINT.			TOTAL:			100,101.08			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
011000				WATER & SEWER BALANCE SHEET						
011000	115000			COLLECTION FEES						
002058	ADELA INC	040201490000 6/26	0	2026 11	INV	P	337.50	081426	316343	WATER COLLECTION FE
				ACCOUNT TOTAL			337.50			
				ORG 011000 TOTAL			337.50			
		FUND 011 WATER & SEWER FUND			TOTAL:		337.50			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
019100			POL.FORFEITURES-POLICE DIV.						
019100 559000			OTHER OPERATING MATL/SPLY						
004017 REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	527.55	081426	316522	1212-07/31/26 REGIO
			ACCOUNT TOTAL			527.55			
019100 604900			OTHER PROFESSIONAL SERV.						
050095 TOSHIBA FINANCIAL SE	49539089	0	2026 11	INV	P	167.58	081426	316557	FILE# 2022-514 COPI
052489 UNITED STATES MARSHA	12940	0	2026 11	INV	P	3,634.00	081426	316564	TRANSPORT OF PRISON
			ACCOUNT TOTAL			3,801.58			
			ORG 019100 TOTAL			4,329.13			
FUND 019 POLICE FORFEITURES FUND				TOTAL:		4,329.13			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
039551			AIRPORT IMPR.-AIRPORT DIV						
039551 729502			AIRPORT IMP-FAA						
050300 R & W ELECTRIC CO	PAY APP #3-FINAL	0	2026 10	INV	P	19,978.31	081426	316521	FILE 2025-363 2025
			ACCOUNT TOTAL			19,978.31			
			ORG 039551 TOTAL			19,978.31			
FUND 039 AIRPORT IMPROVEMENT FUND			TOTAL:			19,978.31			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
072201				MUN.ROAD&BRIDGE-STREET DIV						
072201	602500			LEGAL						
047720	HOWDESHELL, PITTMAN	2073	0	2026 11	INV	P	88.28	081426	316442	MB 2023-332 4TH ST
				ACCOUNT TOTAL			88.28			
072201	725100			AVENUES PROJECT MDFA						
052413	WEAVER ELECTRIC, INC	CAMP ST LIGHTS #2	0	2026 11	INV	P	33,920.41	081426	316573	MB 2024-13 CAMP STR
				ACCOUNT TOTAL			33,920.41			
				ORG 072201 TOTAL			34,008.69			
		FUND 072 MUNICIPAL ROAD & BRIDGE			TOTAL:		34,008.69			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
073570				MASS TRANSIT-TRANSPORTATION						
073570	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND73	0	2026 11	INV	P	11,353.26	081426	316381	TRF FUEL USE 7/1-7/
049764	GPM INVESTMENTS-MINI	12041652	0	2026 11	INV	P	475.88	081426	316429	MINIT MART CHARGES
				ACCOUNT TOTAL			11,829.14			
073570	525700			DIESEL FUEL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND73	0	2026 11	INV	P	9,359.14	081426	316381	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			9,359.14			
073570	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287290252011X080526	0	2026 11	INV	P	162.92	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	810.88	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			973.80			
073570	687000			CUSTODIAL SERVICE						
050404	PRECIOUS TATE JASPER 1J		2600808	2026 11	INV	P	311.87	081426	316516	TWO-QUOTE JANITORIA
				ACCOUNT TOTAL			311.87			
073570	729553			BUS SHELTER INFRAS-533						
048667	R & J CONSTRUCTION	FTA GRACE AVE #1	0	2026 11	INV	P	113,799.24	081426	316520	MB 2024-12 FTA SIDE
				ACCOUNT TOTAL			113,799.24			
				ORG 073570 TOTAL			136,273.19			
	FUND 073 MASS TRANSIT FUND				TOTAL:		136,273.19			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
075695		W&S CONSTR.-CAPITAL PROJECTS							
075695 601500			ENGINEERING						
004197 SHOWS DEARMAN & WAIT	28030	0	2026 10	INV	P	8,200.00	081426	316533	MB 2018-288-289 INF
004197 SHOWS DEARMAN & WAIT	28031	0	2026 10	INV	P	30,167.50	081426	316533	MB 2022-286 UNIFIED
004197 SHOWS DEARMAN & WAIT	28032	0	2026 10	INV	P	3,470.00	081426	316533	MB 2021-338 HATTIES
004197 SHOWS DEARMAN & WAIT	28033	0	2026 10	INV	P	11,472.26	081426	316533	MB 2022-44 LINCOLN
004197 SHOWS DEARMAN & WAIT	28034	0	2026 10	INV	P	4,745.00	081426	316533	MB 2022-44 INNSWOOD
004197 SHOWS DEARMAN & WAIT	28035	0	2026 10	INV	P	19,877.50	081426	316533	MB 2022-45 W 7TH N
004197 SHOWS DEARMAN & WAIT	28036	0	2026 10	INV	P	1,360.00	081426	316533	MB 2022-44 MS HALL
004197 SHOWS DEARMAN & WAIT	28047	0	2026 10	INV	P	103,795.52	081426	316533	MB 2024 p84-85 SRLF
						183,087.78			
			ACCOUNT TOTAL			183,087.78			
075695 604900			OTHER PROFESSIONAL SERV.						
047720 HOWDESHELL, PITTMAN	2072	0	2026 11	INV	P	88.53	081426	316442	MB 2023-332 7TH & 2
			ACCOUNT TOTAL			88.53			
075695 722099			PROGRAMMED SEWER PROJ.						
051318 GLYNN W LEONARD, INC	PAY EST NO 11	0	2026 10	INV	P	15,263.93	081426	316428	MB 2023-181 INNSWOO
			ACCOUNT TOTAL			15,263.93			
			ORG 075695 TOTAL			198,440.24			
FUND 075 WATER&SEWER CONSTRUCTION FUND				TOTAL:		198,440.24			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
077001				COMMUNITY CTR REVENUES						
077001	314300			JDS C.C. USE FEE						
052488	CROWELL, RADONNA	REFUND 90778	0	2026 10	INV	P	275.00	081426	316397	REFUND RENTAL FEE &
				ACCOUNT TOTAL			275.00			
				ORG 077001 TOTAL			275.00			
077650				COMMUNITY CTR-ADMIN/GENERAL						
077650	525000			GAS AND OIL						
001002	CITY OF HATTIESBURG	7/26 FUEL USE FUND77	0	2026 11	INV	P	229.39	081426	316383	TRF FUEL USE 7/1-7/
				ACCOUNT TOTAL			229.39			
077650	544000			HORT./LANDSCAPING SPLY.						
004017	REGIONS CARDHOLDER S	1892-07/31/26	0	2026 11	INV	P	461.85	081426	316522	1892-07/31/26 REGIO
				ACCOUNT TOTAL			461.85			
077650	559000			OTHER OPERATING MATL/SPLY						
002957	GROVER BROS RESTAURA	2502294	2604131	2026 11	INV	P	590.00	081426	316436	WATER PUMP FOR ICE
				ACCOUNT TOTAL			590.00			
077650	561000			PLUMBING SUPPLIES						
003543	MCELHANEY PLUMBING I	322186	2604113	2026 11	INV	P	19.95	081426	316469	ART CENTER BATHROOM
				ACCOUNT TOTAL			19.95			
077650	606000			TELEPHONE AND TELEGRAPH						
002160	AT&T MOBILITY	287308925627X080526	0	2026 11	INV	P	129.40	081426	316353	MB2016-287/WIRELESS
051742	C SPIRE - CELL PHONE	3001031910 JULY 2026	0	2026 11	INV	P	90.66	081426	316370	SC# 382C SPIRE BILL
				ACCOUNT TOTAL			220.06			
077650	630000			GAS						
004321	SPIRE	G2026-04 AUG	0	2026 11	INV	P	586.84	081426	316546	SPIRE-VARIOUS DEPAR
				ACCOUNT TOTAL			586.84			
077650	638000			FIXED EQUIPMENT R&M						
002905	GILLILANDS ELECTRONI	21323	0	2026 11	INV	P	364.95	081426	316426	FIRE ALARM SERVICE
002905	GILLILANDS ELECTRONI	21695	0	2026 11	INV	P	125.00	081426	316426	FIRE ALARM SERVICE
							489.95			
				ACCOUNT TOTAL			489.95			
077650	639400			DISINFECT./EXTERMINATION						
003040	HAVARD PEST CONTROL	2697943	0	2026 11	INV	P	145.00	081426	316437	HAVARD PEST CONTROL

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR		INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
003040	HAVARD PEST CONTROL	2697949	0	2026 11	INV	P	115.00	081426	316437	HAVARD PEST CONTROL
							260.00			
				ACCOUNT TOTAL			260.00			
077650	715010			REC CENTER OLD YMCA						
003543	MCELHANEY PLUMBING I	322532	2604210	2026 11	INV	P	120.79	081426	316469	WATER FOUNTAIN SUPP
				ACCOUNT TOTAL			120.79			
077650	715019			JDS COM CTR(CEILING/FLOOR						
002883	GARNER LUMLEY ELECTR	629944	2604212	2026 11	INV	P	90.37	081426	316422	JACKIE DOLE WATER H
				ACCOUNT TOTAL			90.37			
077650	732000			HOUSEHOLD FURN/EQUIP.						
004495	ULINE	210993323	2604026	2026 11	INV	P	4,841.15	081426	316561	FURNITURE FOR DABBS
				ACCOUNT TOTAL			4,841.15			
				ORG 077650 TOTAL			7,910.35			
		FUND 077 COMMUNITY CENTERS' FUND			TOTAL:		8,185.35			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
082285			CDBG-ENTITLEMENTS						
082285 502000			MINOR OFFICE EQUIP/FURN.						
004017 REGIONS CARDHOLDER S	1212-07/31/26	0	2026 11	INV	P	158.45	081426	316522	1212-07/31/26 REGIO
			ACCOUNT TOTAL			158.45			
082285 525000			GAS AND OIL						
001002 CITY OF HATTIESBURG	7/26 FUEL USE FUND82	0	2026 11	INV	P	110.24	081426	316384	TRF FUEL USE 7/1-7/
			ACCOUNT TOTAL			110.24			
			ORG 082285 TOTAL			268.69			
FUND 082 COMMUNITY DEVELOP. BLOCK GRANT				TOTAL:		268.69			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
086300			SPEC SALES TAX/RECREATION MAIN						
086300 729507			TATUM TENNIS RENOVATION						
003385 LANDRY KITCHENS GERM CN	4220-002	0	2026 10	INV	P	8,600.00	081426	316456	MB 2024-60 TATUM TE
			ACCOUNT TOTAL			8,600.00			
			ORG 086300 TOTAL			8,600.00			
FUND 086 SPEC SALES TAX-P&R/UNIV IMPROV				TOTAL:		8,600.00			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
088603		PUBLIC SAFETY/REC CONSTRUCTION							
088603	729599		MISC.OTHER IMPROVEMENTS						
052478	SERVICE LIGHTING AND INV1083264	2604008	2026 11	INV	P	2,836.02	081426	316530	STRING LIGHTS FOR W
			ACCOUNT TOTAL			2,836.02			
			ORG 088603 TOTAL			2,836.02			
	FUND 088 PUBLIC SAFETY/REC CONSTRUCTION		TOTAL:			2,836.02			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
095635			2019 FIRE STATION CONSTRUCTION						
095635	715002		FIRE STATION #2						
051669 MITCHCO CONSTRUCTION FIRE STATION 2 - #14	0		2026 11	INV	P	249,566.90	081426	316476	MB 2023-248 FIRE ST
				ACCOUNT TOTAL		249,566.90			
				ORG 095635 TOTAL		249,566.90			
FUND 095 2019 FIRE STATION CONSTRUCTION				TOTAL:		249,566.90			

INVOICE LIST BY GL ACCOUNT

YEAR/PERIOD: 2026/10 TO 2026/11

ACCOUNT/VENDOR	INVOICE	PO	YEAR/PR	TYP	S		WARRANT	CHECK	DESCRIPTION
097201			INFRA IMPROVE-INTRNT SALES TAX						
097201	723099		OTHER STREET IMPR.						
002915 GRADY CRAWFORD CONST	25035-12185	2601206	2026 10	INV	P	30,206.00	081426	316433	SERVICE LINE ADDRES
			ACCOUNT TOTAL			30,206.00			
			ORG 097201 TOTAL			30,206.00			
FUND 097 INFRA IMPROVE-INTRNT SALES TAX TOTAL:						30,206.00			

** END OF REPORT - Generated by Sherry Jackson **