September 30, 2022

Mississippi Department of Marine Resources
1141 Bayview Avenue
Biloxi, Mississippi 39530

REFERENCE: DENNIS LEE
PROPOSED CAMPGROUND
APPROXIMATE 4.2-ACRE PROPERTY
GULFPORT, HARRISON COUNTY, MISSISSIPPI

To Whom It May Concern:

Mr. Dennis Lee is proposing to construct a 38-slot RV Campground within Gulfport City Limits. The proposed activity would include the following:

1. An approximate 1,850-foot paved access/egress road.
2. 38 RV parking spaces constructed with permeable pavement.
3. An approximate 1,160-foot gravel walking path.
4. An approximate 750-square foot office space.
5. Dumpster.

A site visit was conducted on December 11, 2020 to determine the extent of wetlands and other waters of the United States. The property lies in Section 32, Township 6S, Range 11W in Gulfport, Harrison County, Mississippi. The project site can be described as one approximate 4.2-acre parcel. A site location map and aerial photograph of the property are included as Figures 1 and 2. The property elevation slopes southeast from at 88 feet above mean sea level (msl), on the western portion of the property, to 64 feet msl near Highway 49 to the east of the property. Surficial water flow is generally southeast towards Flat Branch (see Figure 3). The entire 4.2-acre property is undeveloped and classified as a mix between upland forest, wet pine savannah, and bottomland hardwoods.

Based on the site investigation, approximately 2.95 acres (70%) of the 4.2-acre property were identified as jurisdictional freshwater shrub/scrub wetlands. The proposed project would fill approximately 1.50 acres of wetlands. The applicant wishes to mitigate unavoidable impacts to jurisdictional wetlands through compensatory mitigation purchased from an approved wetland mitigation bank.

CLC Environmental, LLC. has been retained to secure a Section 404 permit for fill of potentially jurisdictional wetlands and waters. Attached you will please find the completed Preliminary Jurisdictional Determination (PJD) and Joint Application (JA) and Notification for the U.S. Army Corps of Engineers, the Mississippi Department of Marine Resources (MDMR), and the Mississippi Department of Environmental Quality (MDEQ). The water Quality Certificate request from MDEQ is also included. Site maps, plan and profile sheets, and the December 2020 wetlands assessment report are included with the attached package.

Please do not hesitate to contact me at 228-265-0134 or email me at clcenvllc@gmail.com should you need any additional information or have any questions. I appreciate your assistance with this matter.

Sincerely,

CLC Environmental, LLC

Cori L. Gavin

Cori Gavin, Principal

Enclosures

CC: MDMR, MDEQ

JOINT APPLICATION AND NOTIFICATION
U.S. ARMY CORPS OF ENGINEERS
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY/OFFICE OF POLLUTION CONTROL

Applicant: Dennis Lee
Mailing Address: [redacted]
Phone Number:
Email Address:
d[redacted]

Agent: CLC Environmental, LLC - Cori Gavin
Mailing Address: [redacted]

Date Submitted:

10/04/2022

DMR Permit Number:
DMR22-000630

Historic DMR Permit Numbers:

DMR File Number:
22-000567

Project Location:

0707I-01-001.000
260 DUCKWORTH RD
Gulfport, MS 39507
Harrison County

Latitude: 30.4821
Longitude: -89.0886

Do you still need to enter a Project Location?
How will you identify the project location:

Project Information:

Project Name or Title: 38-Unit RV Campground

Project Description: Mr. Dennis Lee is proposing to construct a 38-slot RV Campground within Gulfport City Limits. The proposed activity would include the following: 1. An approximate 1,850-foot paved access/egress road. 2. 38 RV parking spaces constructed with permeable pavement. 3. An approximate 1,160-foot gravel walking path. 4. An approximate 750-square foot office space. 5. Dumpster.

Project Purpose and Need: Provide RV camping needs to tourists in Harrison County

Intended Use: Commercial

Will the Proposed Project have a Public Benefit?: Yes
Increased tax base: Yes
Increased employment:
National security benefits:
Improved habitat:
Other:

Does Project area contain any marsh Vegetation?: No

What measures will be taken to reduce detrimental off-site effects to the Coastal Wetlands during and after the proposed activity?: Best Management Practices

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Impact Information:

Number of Impact Types	**01**
Impact Type:	**Wetland Fill**
Permanent or Temporary?	Permanent
Specific Purpose of Fill (Wetland Fill)	To create access drives, RV pads, office space, and walking path
Acreage/Square Footage or Linear Feet (Wetland Fill)	1.50
Specify Unit of Measurement (Wetland Fill)	01. Acreage
Cubic Yards of Fill Material (Wetland Fill)	10,515
Fill Material Type (Wetland Fill)	pavement, gravel, fill di
Habitat Type (Wetland Fill)	01. Pine Savanna
Mitigation Type(Wetland Fill)	01. Credit Purchase
Is this a component of a larger project?	No
Is any portion of this impact complete?	No

Additional information relating to the proposed activity

Have any other federal, state, or local agencies issued permits or other types of approvals for the proposed project?: No

Have any other federal, state, or local agencies denied approval for the proposed project?: No

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Project Schedule

Do you know the Proposed Start Date? Yes
10/01/2023

Do you know the Proposed Completion Date? Yes
01/31/2024

Do you know the Estimated Cost of the Project? Yes
$200,000.00

Adjacent Property Owners:

Application Certified by: Cori Gavin

JOINT APPLICATION AND NOTIFICATION

U.S. ARMY CORPS OF ENGINEERS
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY/OFFICE OF P0LLUTION CONTROL

This form is to be used for proposed activities in waters of the United States in Mississippi and for the erection of structures on suitable sites for water dependent industry. Note that some items, as indicated, apply only to projects located in the coastal area of Hancock, Harrison and Jackson Counties.

1. Date
January 15, 2021
month day year

2. Applicant name, mailing address, phone number and email address:
Dennis Lee
[redacted]

Agent name, mailing address, phone number and email address:
Cori Gavin, CLC Environmental, LLC
[redacted]

3. Official use only
COE
DMR
DEQ
A95
DATE RECEIVED

4. Project location
Street Address Highway 49 South City/Community Gulfport
Name of Waterway Flat Branch Latitude 30.484974 Longitude (if known) -89.104808
Geographic location: Section 32 Township 6S Range 11W County Harrison

5. **Project description**

New work ☑ **Maintenance work** ☐

Dredging
☐ Channel length___ width___ existing depth___ proposed depth___
☐ Canal length___ width___ existing depth___ proposed depth___
☐ Boat Slip length___ width___ existing depth___ proposed depth___
☐ Marina length___ width___ existing depth___ proposed depth___
☐ Other-Mooring Basin length___ width___ existing depth___ proposed depth___

Cubic yards of material to be removed___ Type of material___
Location of spoil disposal area___
Dimensions of spoil area___ Method of excavation___
How will excavated material be contained?___

Construction of structures
☐ Bulkhead Total length___ Height above water___
☐ Pier length___ width___ height___
☐ Boat Ramp length___ width___ slope___
☐ Boat House length___ width___ height___

☐ Structures on designed sites for water dependent industry (Coastal area only). Explain in item 11 or include as attachment.
☐ Other (explain)___

Filling
Dimensions of fill area Access Drive: 1,835 x 15 ft; RV Slot: 100 x 66 feet (38 total slots); Walking trail: 1,160 x 6 feet
Cubic yards of fill 10,515 Type of fill asphalt, permeable pavement, gravel

Other regulated activities (i.e. Seismic exploration, burning or clearing of marsh) Explain.

6. **Additional information relating to the proposed activity**

Does project area contain any marsh vegetation? Yes ☐ No ☑

(If yes, explain)

Is any portion of the activity for which authorization is sought now complete? Yes ☐ No ☑

(If yes, explain)

Month and year activity took place

If project is for maintenance work on existing structures or existing channels, describe legal authorization for the existing work. Provide permit number, dates or other form(s) of authorization.

Has any agency denied approval for the activity described herein or for any activity that is directly related to the activity described herein?

Yes ☐ No ☑ (If yes, explain)

7. **Project schedule**

Proposed start date June 2022 Proposed completion date June 2023

Expected completion date (or development timetable) for any projects dependent on the activity described herein.

8. **Estimated cost of the project** $200,000

9. **Describe the purpose of this project. Describe the relationship between this project and any secondary or future development the project is designed to support.** To provide camping services for tourists and residents in the City of Gulfport

Intended use: Private ☐ Commercial ☑ Public ☐ Other (Explain)

10. **Describe the public benefits of the proposed activity and of the projects dependent on the proposed activity. Also describe the extent of public use of the proposed project.**

Tourists and residents would be allowed access to RV campground in an essential area of Gulfport for access to retail shops and recreational activities

11. **Narrative Project Description:**

The purpose of the project is to construct a 38-unit campground facility for RV campers. Additional improvements include an asphalt drive, permeable RV pads, office, dumpster, and earthen walking trail. Conceptual plan provided in Appendix A.

12. Provide the names and addresses of the adjacent property owners. Also identify the property owners on the plan view of the drawing described in Attachment "A". (Attach additional sheets if necessary.)

1. Point aux Chenes, LLC
260 Duckworth Road
Ocean Springs, MS 39564

2.

Rebecca Holcomb and Janice Ladnier
58 52nd Street
Gulfport, MS 39507

13. List all approvals or certifications received or applied for from Federal, State and Local agencies for any structures, construction, discharges, deposits or other activities described in this application. Note that the signature in Item 14 certifies that application has been made to or that permits are not required from the following agencies. If permits are not required, place N/A in the space for Type Approval.

Agency	*Type Approval*	*Application Date*	*Approval Date*
Dept. of Environmental Quality	401	1/15/2021	
Dept. of Marine Resources	404	1/15/2021	
Army Corps of Engineers	404	1/15/2021	
City/County local permits			
Other			

14. Certification and signatures

Application is hereby made for authorization to conduct the activities described herein. I agree to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable state water quality standards or other environmental protection standards both during construction and after the project is completed. I also agree to provide entry to the project site for inspectors from the environmental protection agencies for the purpose of making preliminary analyses of the site and monitoring permitted works. I certify that I am familiar with and responsible for the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I am the owner of the property where the proposed project is located or that I have a legal interest in the property and that I have full legal authority to seek this permit.

U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willingly falsifies, conceals, or covers up by any trick, scheme or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than $10,000 or imprisoned not more than five years, or both.

Mississippi Coastal Program (Coastal area only)

I certify that the proposed project for which authorization is sought complies with the approved Mississippi Coastal Program and will be conducted in a manner consistent with the program.

Cori Gavin
Signature of Applicant or Agent

January 15, 2021
Date

15. Fees

Payable to MS Dept. of Marine Resources
$50.00 Single-family residential application fee
$500.00 Commercial application fee
Public notice fee may be required

Please include appropriate fees for all projects proposed in coastal areas of Hancock, Harrison and Jackson Counties.

16. If project is in Hancock, Harrison or Jackson Counties, send one completed copy of this application form and appropriate fees listed in Item 15 to:

Department of Marine Resources
Bureau of Wetlands Permitting
1141 Bayview Avenue
Biloxi, MS 39530
(228) 374-5000

If project IS NOT in Hancock, Harrison or Jackson Counties, send one completed copy of this application form to each agency listed below:

District Engineer
Mobile District
Attn: CESAM-RD
P.O. Box 2288
Mobile, AL 36628-0001

District Engineer
Vicksburg District
Regulatory Branch
Attn: CEMVK-OD-F
4155 Clay Street
Vicksburg, MS 39183-3435

Director
Mississippi Dept. of Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289

17. In addition to the completed application form, the following attachments are required:

Attachment "A" Drawings

Provide a vicinity map showing the location of the proposed site along with a written description of how to reach the site from major highways or landmarks. Provide accurate drawings of the project site with proposed activities shown in detail. All drawings must be to scale or with dimensions noted on drawings and must show a plan view and cross section or elevation. Use 8 1/2 x 11" white paper or drawing sheet attached.

Attachment "B" Authorized Agent

If applicant desires to have an agent or consultant act in his behalf for permit coordination, a signed authorization designating said agent must be provided with the application forms. The authorized agent named may sign the application forms and the consistency statement.

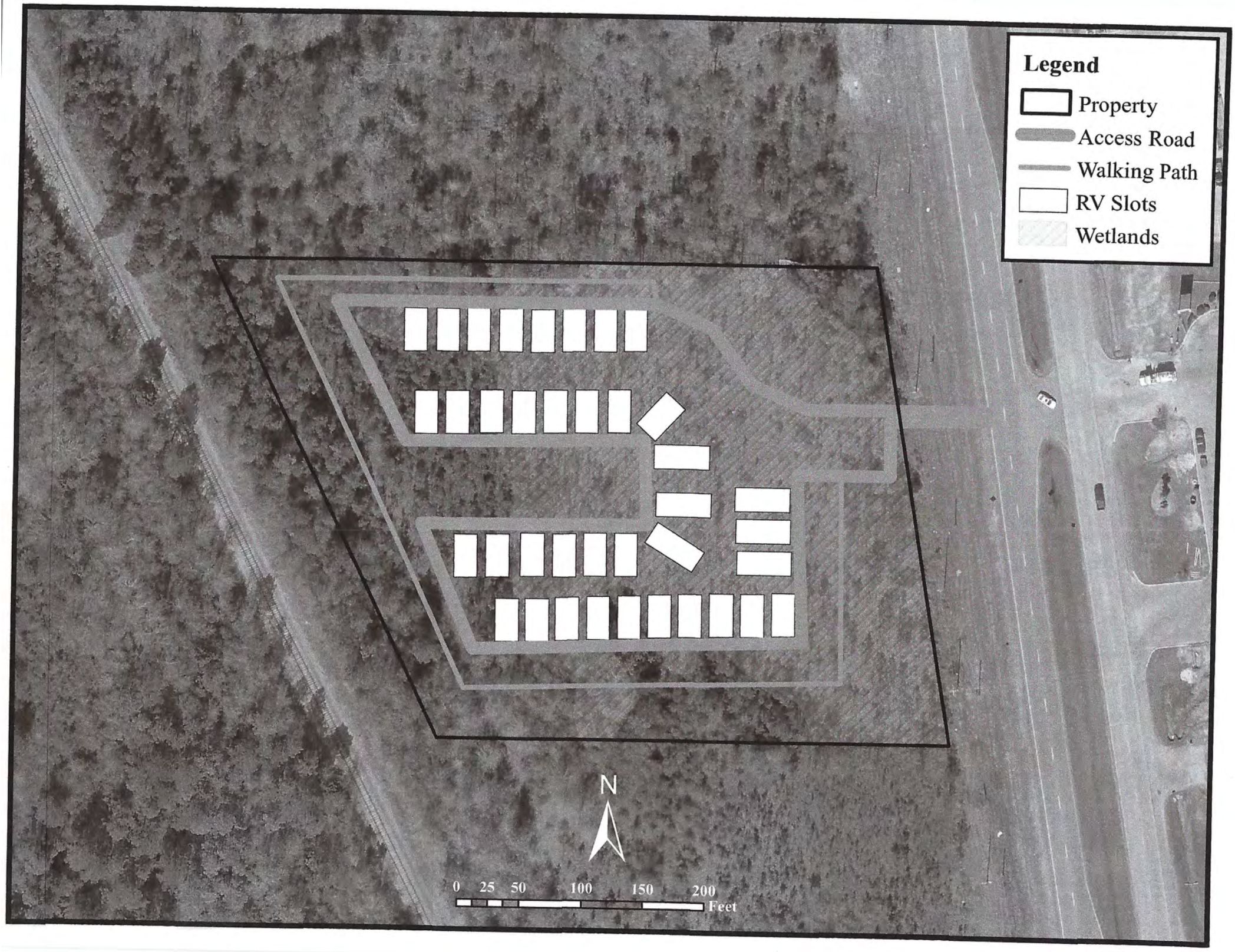
Attachment "C" Environmental Assessment *(Coastal Area Only)*

Provide an appropriate report or statement assessing environmental impacts of the proposed activity and the final project dependent on it. The project's effects on the wetlands and the effects on the life dependent on them should be addressed. Also provide a complete description of any measures to be taken to reduce detrimental offsite effects to the coastal wetlands during and after the proposed activity. Alternative analysis, minimization and mitigation information may be required to complete project evaluation.

Attachment "D" Variance or Revisions to Mississippi Coastal Program *(Coastal area only)*

If the applicant is requesting a variance to the guidelines in Section 2, Part III or a revision to the Coastal Wetlands Use Plan in Section 2, Part IV of the Rules, Regulations, Guidelines and Procedures of the Mississippi Coastal Program, a request and justification must be provided.

Attachment "A" Drawings


Legend
Property
Access Road
Walking Path
RV Slots
Wetlands
N
0 25 50 100 150 200
Feet

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Agent Authorization

I authorize the person(s) and/or company listed below to act as my agent regarding the proposed project as described in the Joint Application and Notification at the location listed below:

Cori Gavin
(name of agent)

3923 Washington Avenue
(address)

Gulfport, Mississippi 39507
(city, state, zip code)

(228) 265-0134
(agent phone number)

30.484935° N, -89.104746° S
(location of project)

HWY 49 SOUTH

Gulfport, Mississippi

Dennis Lee
(print applicant name)

(applicant signature)

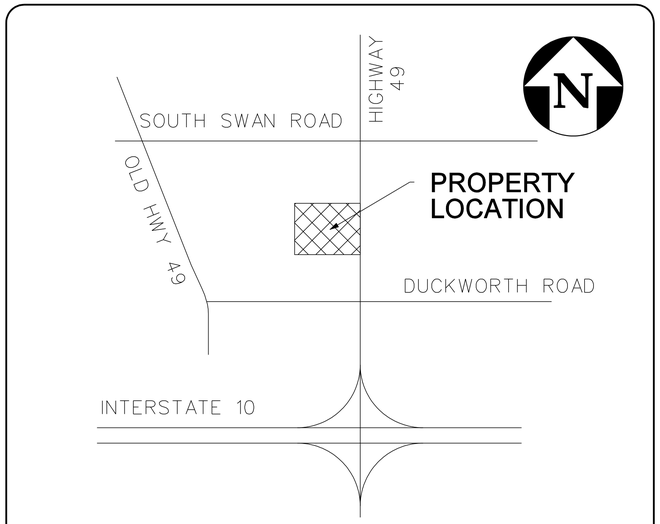
1/14/21
(date)

Do you want the permit mailed to the agent? **X Yes** _____No

KOA GULFPORT

City of Gulfport - Harrison County, Mississippi

BY: Dennis Lee
1380 South Haugh Avenue
Picayune, Ms. 39566



VICINITY MAP
N.T.S.

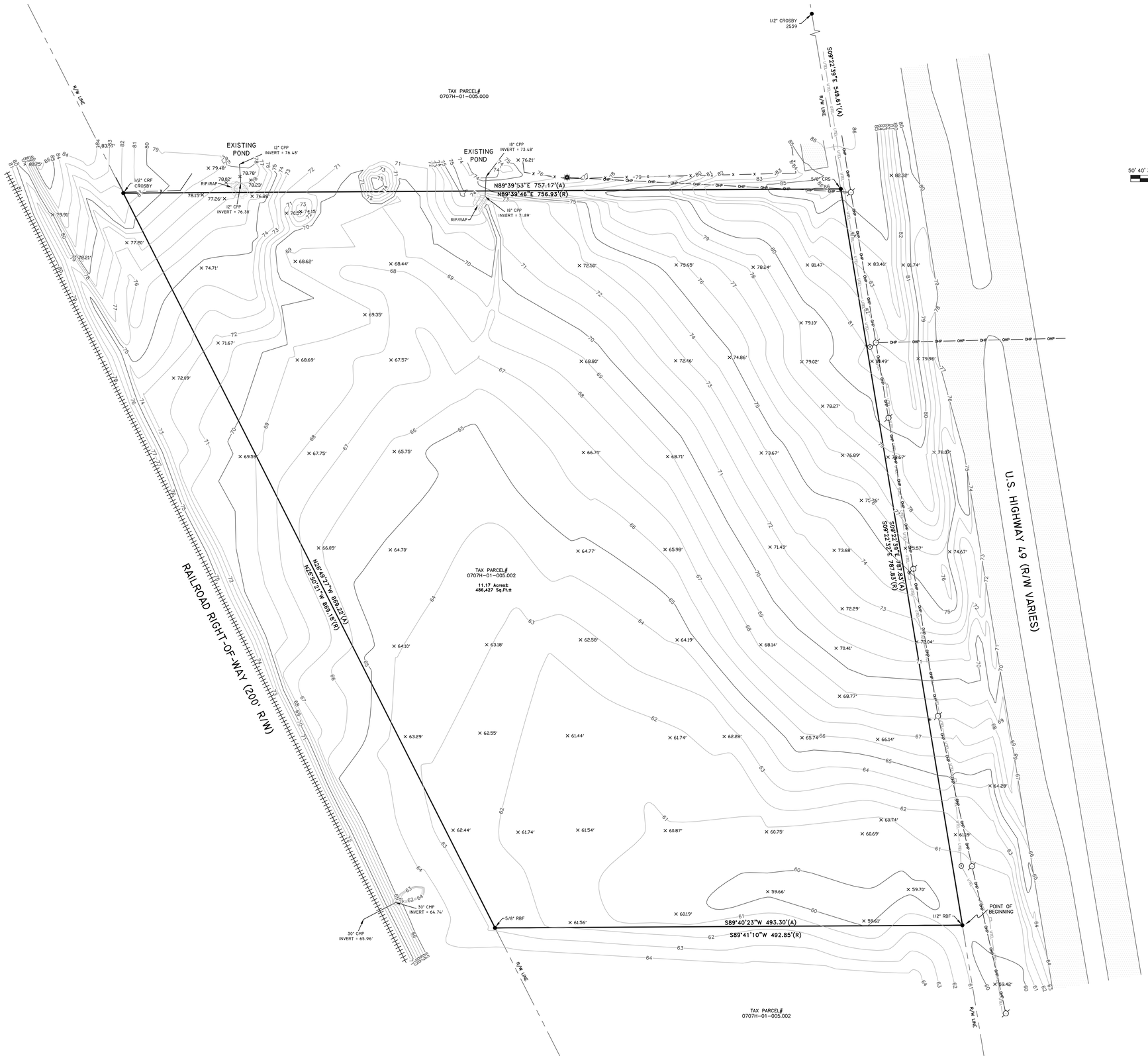
DRAWING INDEX

SHEET NO.	TITLE
	TITLE SHEET
	BOUNDARY AND TOPOGRAPHIC SURVEY
SL_01	SITE LAYOUT
WS_01	WATER & SEWER PLAN
GD_01	GRADING & DRAINAGE PLAN
SW_01	STORMWATER POLLUTION PREVENTION PLAN
CD_01 - CD_06	CONSTRUCTION DETAILS
SP_01-SP_02	SWPPP DETAILS

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design

910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

SET NO.:_____



SURVEY LEGEND

● – PROPERTY CORNER	CRS – ⅝" CAPPED REBAR SET (WOODLANDS CA-29046)	– POWER POLE
(R) – RECORD DIMENSION	CRF – CAPPED REBAR FOUND	– GUY ANCHOR
(A) – ACTUAL DIMENSION	RBF – REBAR FOUND	– FIRE HYDRANT
R/W – RIGHT-OF-WAY	CTP – CRIMPED TOP PIPE FOUND	WV – WATER VALVE
B.S.L. – BUILDING SETBACK LINES	OTP – OPEN TOP PIPE FOUND	WM – WATER METER
UTEL – UNDERGROUND TELECOM	CMF – CONCRETE MONUMENT FOUND	– WOOD STAKE
UGPL – UNDERGROUND POWER	– TELEPHONE PEDESTAL	– STORM MANHOLE
STRM – STORM SEWER LINE	SPOT ELEVATIONS – × 72.14'	X – FENCE
CPP – CORRUGATED PLASTIC PIPE		– CABLE TV PEDESTAL
CMP – CORRUGATED METAL PIPE	– GAS LINE MARKER	– SET WOOD STAKE (1" X 2")
OHP – OVERHEAD POWER LINE	– LIGHT POLE	– SIGN – WELL
CONCRETE	BFO – BURIED FIBER OPTIC	
GRAVEL	ASPHALT	COVERED AREA

SURVEYOR'S NOTES:

1. UNLESS STATED OTHERWISE HEREON, THIS PLAT WAS PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE. NO LIABILITY IS ASSUMED BY THE UNDERSIGNED FOR LOSS RELATING TO ANY MATTER THAT MIGHT BE DISCOVERED BY AN ABSTRACT OR TITLE SEARCH OF THE PROPERTY.
2. REPRODUCTIONS OF THIS PLAT ARE NOT VALID UNLESS SEALED WITH AN ORIGINAL SURVEYOR'S SEAL.
3. TYPE OF SURVEY – BOUNDARY & TOPOGRAPHIC SURVEY
4. ALL BEARINGS BASED ON GLOBAL POSITIONING SYSTEM OBSERVATION USING THE NORTH AMERICAN DATUM OF 1983. ALL DISTANCES SHOWN ARE GROUND DISTANCES. ALL MEASUREMENTS WERE MADE IN ACCORDANCE WITH U.S. STANDARD FEET.
5. FIELD WORK WAS PERFORMED 7/24/2020.
6. THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, ADJUSTED TO GEOID 09, ARE REFERENCED TO THE GCGC CORS STATION "WAVELAND" AND HAVE A VERTICAL ACCURACY OF 0.5'±.
7. THIS IS A CLASS "C" SURVEY.

PROPERTY DESCRIPTION: PER SURVEY

A PARCEL OF LAND SITUATED IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 29, TOWNSHIP 6 SOUTH, RANGE 11 WEST, CITY OF GULFPORT, FIRST JUDICIAL DISTRICT OF HARRISON COUNTY, MISSISSIPPI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT BEING USED AS THE INTERSECTION OF THE WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49 WITH THE SOUTH LINE OF SAID SECTION 29; THENCE RUN SOUTH 89°40'23" WEST 493.30 FEET TO A POINT; THENCE RUN NORTH 26°49'27" WEST 869.22 FEET TO A POINT; THENCE RUN NORTH 89°39'53" EAST 757.17 FEET TO A POINT; THENCE RUN SOUTH 09°22'39" EAST 787.83 FEET TO THE POINT OF BEGINNING. HAVING AN AREA OF 11.17 ACRES, MORE OR LESS.

RECORD PROPERTY DESCRIPTION:

A PARCEL OF LAND SITUATED IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 29, TOWNSHIP 6 SOUTH, RANGE 11 WEST, CITY OF GULFPORT, FIRST JUDICIAL DISTRICT OF HARRISON COUNTY, MISSISSIPPI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD FOUND AT THE POINT OF INTERSECTION OF THE NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49 WITH THE SOUTH LINE OF SAID SECTION 29; THENCE ALONG SAID SOUTH LINE OF SECTION 29, S89°41'10"W 492.85' TO A 1/2" IRON ROD FOUND ON THE EAST MARGIN OF A RAILROAD RIGHT-OF-WAY; THENCE ALONG SAID EAST MARGIN, N26°50'21"W 869.18' TO A 1/2" IRON ROD SET; THENCE N89°39'46"E 756.93' TO A 1/2" IRON ROD SET ON THE NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49; THENCE ALONG SAID NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49, S09°22'32"E 787.83' TO THE POINT OF BEGINNING, CONTAINING 11.159 ACRES. HEREIN DESCRIBED PROPERTY BEING A PORTION OF ORIGINAL LYMAN AND BEING A PART OF THAT PROPERTY DESCRIBED IN DEED BOOK 1254 ON PAGE 876 OF THE LAND RECORDS OF THE FIRST JUDICIAL DISTRICT OF HARRISON COUNTY, MISSISSIPPI.

SURVEYORS CERTIFICATION:

STATE OF MISSISSIPPI, COUNTY OF HARRISON
I, JUSTIN PALMER, A LICENSED PROFESSIONAL SURVEYOR IN HARRISON COUNTY, MISSISSIPPI, HEREBY CERTIFY THAT ALL PARTS OF THIS PLAT AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF MISSISSIPPI TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

JUSTIN PALMER, PLS DATE 8/12/2020
MS. LICENSE NO. 25133
CERTIFICATE OF AUTHORITY - 29046 - LS
THE WOODLANDS GROUP LLC
P.O. BOX 843, OCEAN SPRINGS, MS 39566
PHONE: 228-818-4763

JUSTIN PALMER
LICENSED PROFESSIONAL
SURVEYOR
PS-25133
STATE OF MISSISSIPPI

THE WOODLANDS GROUP
Surveying Solutions

CLIENT: RUMSEY			
FIELD WORK	BY: JF	DATE: 7/24/2020	
DRAWN BY: KJ		DRAWING NO.: 18046-4	
CHECKED BY: JP		SHEET 1 OF 1	
SCALE: 1"=50'			

BOUNDARY & TOPOGRAPHIC SURVEY
TAX PARCEL #0707H-01-005.002,
HIGHWAY 49, GULF PORT, HARRISON COUNTY, MISSISSIPPI
SECTION-29, TOWNSHIP-6-SOUTH, RANGE-11-WEST

	DATE
1.	10/27/2016
2.	
3.	
4.	

REFERENCE MATERIAL
1. RECORD DEED INSTRUMENT #2016-0008186-D-11

A.P.R. = AS PER RECORD
A.P.S. = AS PER SURVEY
A.P.C. = AS PER CALCULATION
A.P.T. = AS PER TAX MAP
A.P.P. = AS PER PLAT
C.N.S. = COULD NOT SET

NOTES:

THIS SURVEY WAS PERFORMED FROM INFORMATION PROVIDED BY CLIENT AND LIMITED RESEARCH ONLINE WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS SURVEY MAY NOT SHOW ALL EASEMENTS AND OTHER RESTRICTIONS OF RECORD.

ONLY VISIBLE, ABOVE GROUND IMPROVEMENTS WERE LOCATED AS A PART OF THIS SURVEY

REFERENCE MATERIAL:

HARRISON COUNTY WEB MAPPING

CITY OF GULFPORT WEB ATLAS

BOUNDARY AND TOPOGRAPHIC
SURVEY BY JUSTIN PALMER, PLS
DATED AUGUST 12, 2020

SURVEY BY CLIFORD A. CROSBY, PLS
DATED SEPTEMBER 7, 2016 RECORDED
IN INSTRUMENT 2016 8186 D J1

LEGAL DESCRIPTION: (LOT "B" FROM CROSBY SURVEY)

A PARCEL OF LAND SITUATED IN THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 29, TOWNSHIP 6 SOUTH, RANGE 11 WEST, CITY OF GULFPORT, FIRST JUDICIAL DISTRICT OF HARRISON COUNTY, MISSISSIPPI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A ½" IRON ROD FOUND AT THE POINT OF INTERSECTION OF THE NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49 WITH THE SOUTH BOUND LINE OF SAID SECTION 29; THENCE ALONG SAID SOUTH LINE OF SECTION 29, S89°41'10"W 492.85' TO A ½" IRON ROD FOUND ON THE EAST MARGIN OF A RAILROAD RIGHT-OF-WAY; THENCE ALONG SAID EAST MARGIN N26°50'21"W 869.18' TO A ½" IRON ROD SET; THENCE N89°39'46"E 756.93' TO A ½" ROD SET ON THE NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49; THENCE ALONG SAID NEW WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 49, S09°22'32"E 787.83' TO THE POINT OF BEGINNING, CONTAINING 11.159 ACRES. HEREIN DESCRIBED PROPERTY BEING A PORTION OF ORIGINAL LYMAN AND BEING A PART OF THAT PROPERTY DESCRIBED IN DEED BOOK 1254 ON PAGE 676 OF THE LAND RECORDS OF THE FIRST JUDICIAL DISTRICT OF HARRISON COUNTY, MISSISSIPPI.

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATION, SIZE AND ELEVATION OF ALL UTILITIES.
2. BEFORE UNDERTAKING EACH PART OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE PLANS AND SPECIFICATIONS AND CHECK AND VERIFY PERTINENT FIGURES SHOWN THEREON AND ALL APPLICABLE FIELD MEASUREMENTS. IF ANY CONFLICTS, ERRORS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR IN THE FIELD, THE CONTRACTOR SHALL PROMPTLY REPORT IN WRITING TO THE ENGINEER OR HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK AFFECTED THEREBY.
3. CONTRACTOR TO MAXIMIZE WATER LINE JOINT SPACING WHERE WATER LINE AND SEWER LINE CROSS (TYPICAL). WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES ABOVE THE SEWER LINE BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. ANY VARIANCES MUST BE APPROVED BY THE REVIEWING AUTHORITY.
4. ALL EXISTING SEWER SERVICES, EXISTING WATER SERVICES AND UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE PLAN/CITY STANDARDS.
5. DRIVEWAYS, SIDEWALKS, CURB AND GUTTER, VEGETATION, MAILBOXES AND SIGNS DAMAGED BY CONTRACTOR SHALL BE REPLACED WITH LIKE MATERIAL.
6. CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION. ANY DRIVE CLOSING SHOULD BE COORDINATED WITH OWNERS WITH 24 HOUR NOTICE.
7. CONTRACTORS SHALL MAKE EVERY EFFORT TO PROTECT EACH PRIVATE UTILITY ENCOUNTERED AND COORDINATE ADJUSTMENTS AND/OR UTILITY RELOCATIONS WITH UTILITY OWNERS. ANY DAMAGES DONE TO UTILITIES SHALL BE REPLACE/REPAIRED AT THE CONTRACTOR'S EXPENSE.

   CENTERPOINT ENERGY ENTEX (GAS) 1-228- 896-7500
   MISSISSIPPI POWER CO. (POWER) 1-800-532-1502
   SINGING RIVER EPA (POWER) 1-228-497-1313
   AT&T 1-877-737-2478
   SPARKLIGHT 1-228-374-5900
   MISSISSIPPI ONE CALL 1-800-227-6477
   CITY OF GULFPORT 1-228-868-5742
8. ADJUSTMENTS TO GAS, TELEPHONE, T.V. CABLE, AND POWER APPURTENANCES SHALL BE MADE BY OTHERS, BUT SHALL BE COORDINATED BY THE CONTRACTOR.
9. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER, AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THE INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE THE EXACT LOCATION OF ALL EXISTING UTILITIES DETERMINED BEFORE COMMENCING ANY WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
10. IF IT IS NECESSARY TO HOLD ANY UTILITY POLES, AND A CHARGE FOR THIS SERVICE IS ACCESSED, IT SHALL BE THE CONTRACTOR'S SOLE EXPENSE.
11. ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL IN ACCORDANCE WITH THE CURRENT MDOT CONSTRUCTION MANUAL.
12. SYMBOLS FOR WATER VALVES, FIRE HYDRANTS, TEES, ETC., ARE NOT DRAWN TO SCALE. (TYP)
13. SEE PLANS FOR TYPICAL SETBACKS.
14. ALL CONSTRUCTION SHALL COMPLY WITH THE "MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD CONSTRUCTION, 2004 EDITION."
15. NO UTILITY MAINS SHALL BE INSTALLED WITHIN FIVE (5) FEET HORIZONTALLY OF ANY PROPOSED PAVED AREAOR DRAINAGE STRUCTURE. ALL UTILITY MAINS SHALL BE INSTALLED WITH A MINIMUM OF TWO (2) FEET OF VERTICAL CLEARANCE BETWEEN ANY PROPOSED DRAINAGE STRUCTURE
16. CABIN DESIGN, ENTRANCE SIGNS, SECURITY ARM, CAMPERS KITCHEN, STORE, PLAY GROUND AREA, POOL AND LAZY RIVER DESIGN AND SPECIFICATIONS TO BE SUBMITTED BY OTHERS
17. CONTRACTOR TO PROVIDE A LIGHTING PLAN AND SUBMIT POWER PEDESTAL SPECIFICATIONS FOR APPROVAL BY THE ENGINEER. THE FOLLOWING IS KOA BRAND POSITIONING CRITERIA.

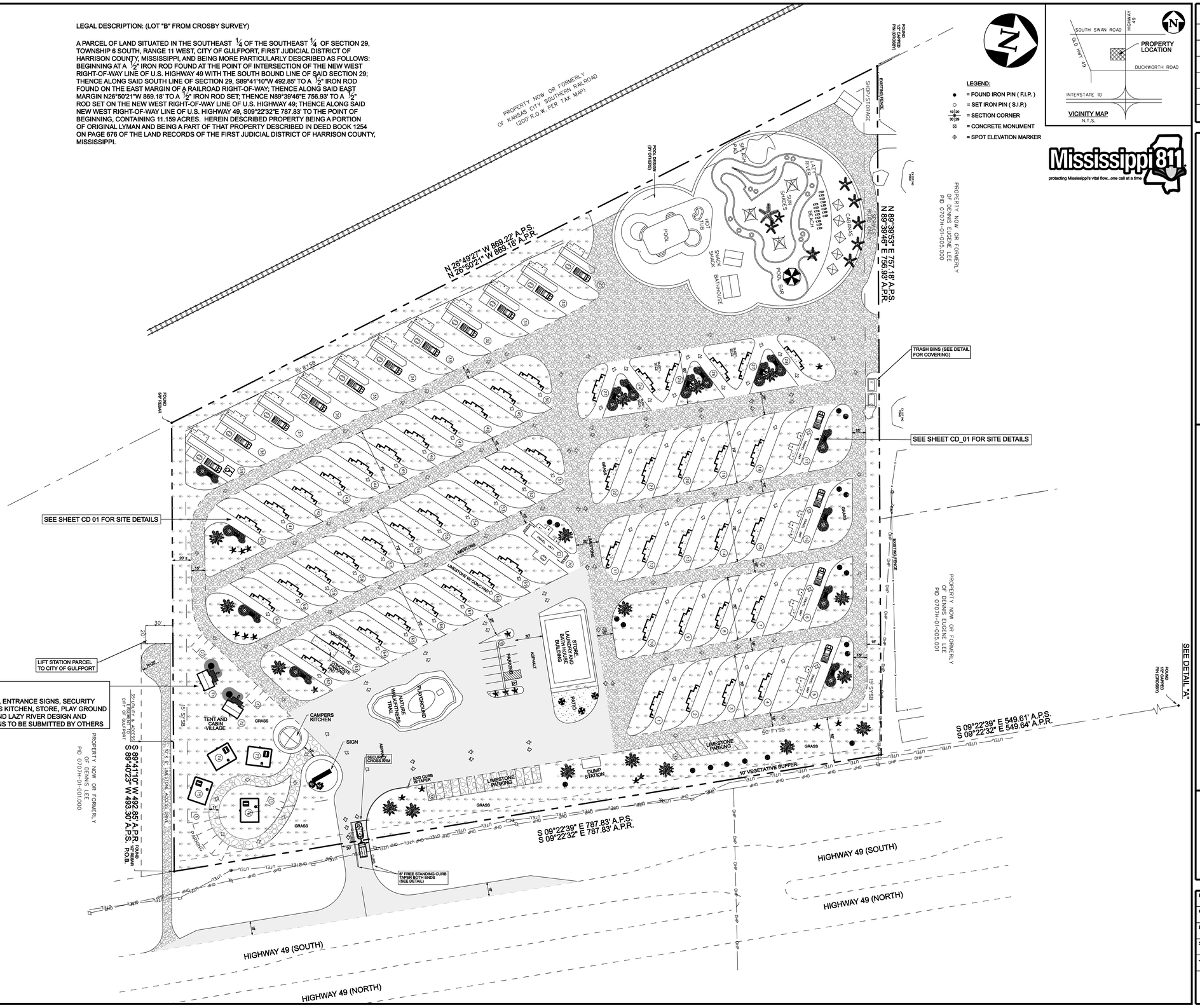
    LIGHTING AND NIGHT REGISTRATION

    Criteria

    -Night Registration
    -Directional down lighting over entire area
    -Should be a minimum of 3 foot candles (°fc). For example, a 100 watt bulb at a 10' mounting height provides 3 fc minimum.
    -Main Building
    -Should be lit to a minimum of 3 fc, measured at ground level during all evening/dark hours. The lighting should be at such levels that all 24 hour service entry doors (bathrooms/laundry) are illuminated to levels sufficient to be safe and obvious as to their location.
    -Entrance/Driveway
    -Entrance off of a highway and the KOA's driveway where vehicles park for the night registration should be lit to a minimum of 3 fc, measured at ground level during all evening/dark hours.
    -Satellite/Bathhouse and Laundry
    -Entry areas should be lit to a minimum of 3 fc, measured at ground level during all evening/dark hours. The lighting should ensure that all 24 hour service entry doors (bathrooms/laundry) are illuminated to levels sufficient to be safe and obvious as to their location

    KOA SUGGEST LIGHTING AT PEDESTALS, AT CABINS, AT BUILDINGS, AT NIGHT REGISTRATION, AT SIGNAGE OR WALKWAY'S BUT NOT OVERALL STREET LIGHTING.

    UTILITY SUPPLY GROUP IS A PERFERED VENDOR TO KOA BUT NOT REQUIRED. www.go-usg.com
18. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN FOR CONSTRUCION ON HIGHWAY 49.



LEGEND:

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- 19/30 30/29 = SECTION CORNER
- ⊠ = CONCRETE MONUMENT
- ⌖ = SPOT ELEVATION MARKER

VICINITY MAP
N.T.S.

Mississippi 811
protecting Mississippi's vital flow...one call at a time

REVISIONS	BY

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: SITE LAYOUT

DRAWN	WG/TLT
CHECKED	LCR
DATE	05-11-2021
SCALE	1" = 50'
JOB NO.	P-20.09

SHEET SL_01

A.P.R. = AS PER RECORD
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NOTES:

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ONLY VISIBLE, ABOVE GROUND IMPROVEMENTS WERE LOCATED AS A PART OF THIS SURVEY

REFERENCE MATERIAL:

HARRISON COUNTY WEB MAPPING

CITY OF GULFPORT WEB ATLAS

BOUNDARY AND TOPOGRAPHIC SURVEY BY JUSTIN PALMER, PLS DATED AUGUST 12, 2020

SURVEY BY CLIFORD A. CROSBY, PLS DATED SEPTEMBER 7, 2016 RECORDED IN INSTRUMENT 2016 8186 D J1

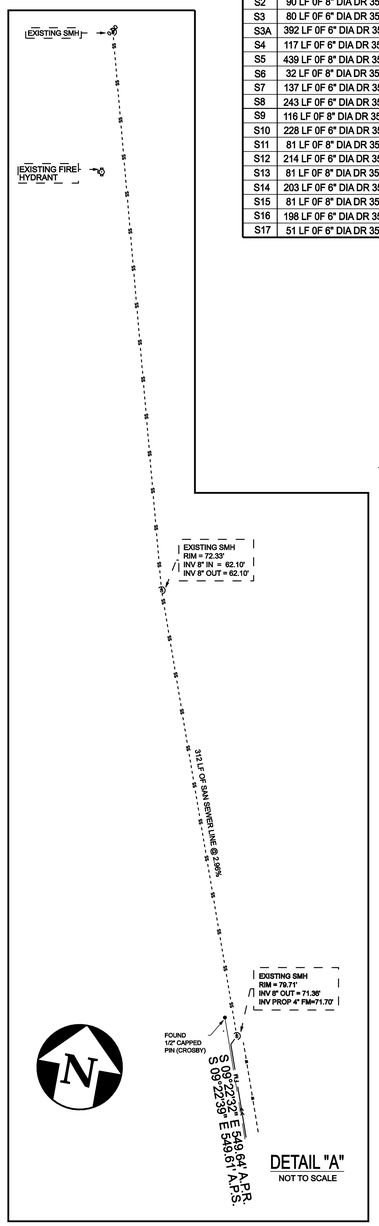
SANITARY SEWER SCHEDULES

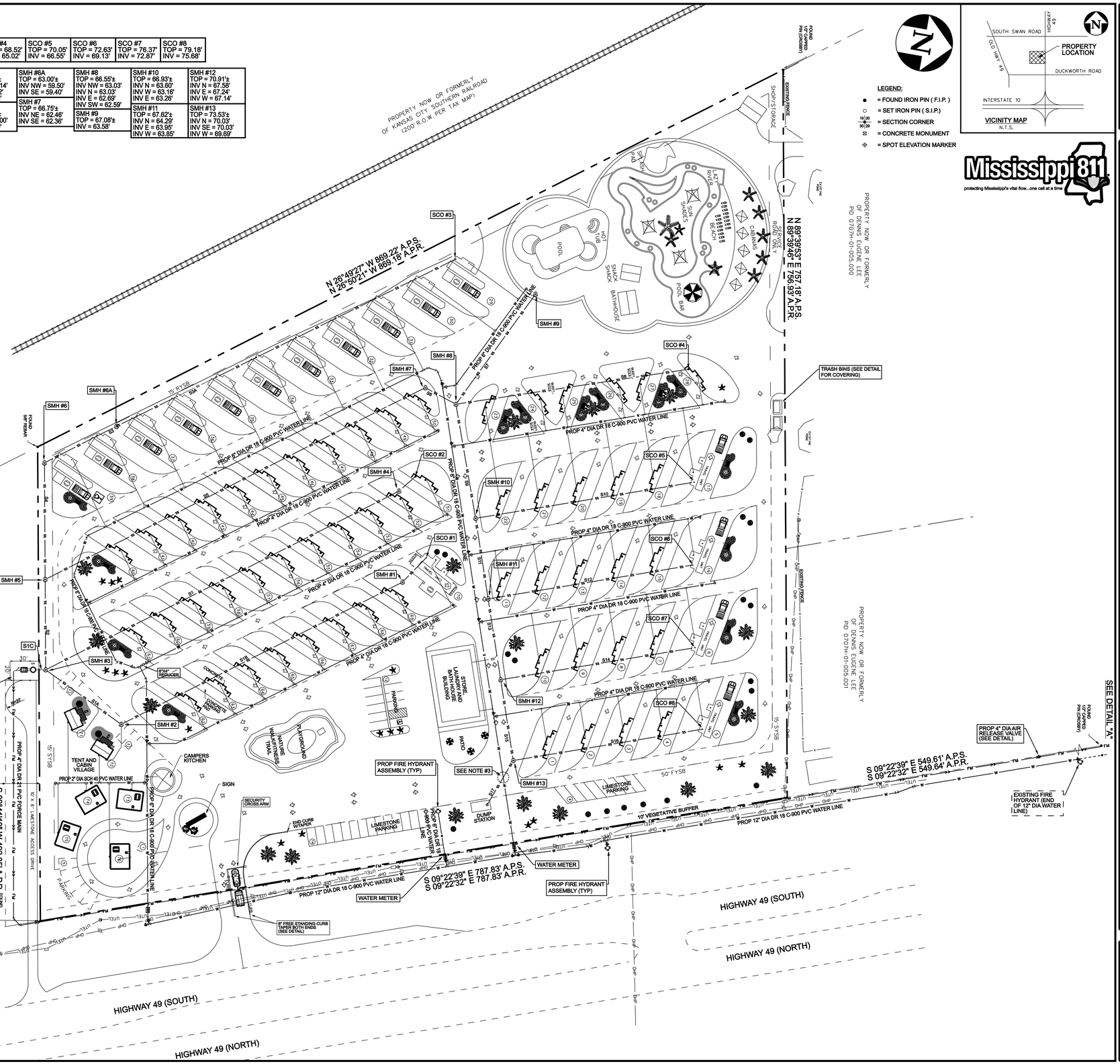
SCO #1	SCO #2	SCO #3	SCO #4	SCO #5	SCO #6	SCO #7	SCO #8
TOP = 67.23'	TOP = 66.81'	TOP = 66.35'	TOP = 69.52'	TOP = 70.05'	TOP = 72.63'	TOP = 76.37'	TOP = 79.18'
INV = 63.72'	INV = 63.31'	INV = 62.85'	INV = 65.02'	INV = 66.55'	INV = 69.13'	INV = 72.87'	INV = 75.68'

SMH #1 TOP = 67.43± INV NW = 63.55' INV SE = 63.45'	SMH #3 TOP = 64.34'± INV NW = 57.85' INV W = 57.51' INV NE = 57.85' INV S = 57.75'	SMH #5 TOP = 64.56'± INV NW = 58.14' INV W = 58.32' INV E = 58.04'	SMH #6A TOP = 63.00'± INV NW = 59.50' INV SE = 59.40'	SMH #8 TOP = 66.55'± INV NW = 63.03' INV N = 63.03' INV E = 62.69' INV SW = 62.59'	SMH #10 TOP = 66.93'± INV N = 63.60' INV W = 63.16' INV E = 63.26'	SMH #12 TOP = 70.91'± INV N = 67.58' INV E = 67.24' INV W = 67.14'
SMH #2 TOP = 64.30'± INV NW = 60.80' INV SW = 60.70'	SMH #4 TOP = 66.72'± INV NW = 63.22' INV SE = 63.12'	SMH #6 TOP = 62.84'± INV NW = 59.00' INV E = 58.90'	SMH #7 TOP = 66.75'± INV NE = 62.46' INV SE = 62.36'	SMH #9 TOP = 67.08'± INV = 63.58'	SMH #11 TOP = 67.62'± INV N = 64.29' INV E = 63.95' INV W = 63.85'	SMH #13 TOP = 73.53'± INV N = 70.03' INV SE = 70.03' INV W = 69.69'

SANITARY SEWER PIPE SCHEDULE

PIPE	LENGTH AND SIZE
S1	408 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 1.29%
S1A	93 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 6.02%
S1B	324 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.82%
S1C	8 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 1.25%
S2	90 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.59%
S3	80 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.50%
S3A	392 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.85%
S4	117 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.50%
S5	439 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 0.96%
S6	32 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 0.40%
S7	137 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.40%
S8	243 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.82%
S9	116 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 0.41%
S10	228 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 1.29%
S11	81 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 0.73%
S12	214 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 2.26%
S13	81 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 3.94%
S14	203 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 2.61%
S15	81 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 3.02%
S16	198 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 2.85%
S17	51 LF 0F 6" DIA DR 35 PVC SEWER PIPE @ 0.96%





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VICINITY MAP
N.T.S.

Mississippi 811
protecting Mississippi's vital flow...one call at a time

REVISIONS	BY

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: WATER AND SEWER PLAN

DRAWN	WG/TLT
CHECKED	LCR
DATE	05-11-2021
SCALE	1" = 50'
JOB NO.	P-20.09

SHEET WS_01

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REFERENCE MATERIAL:

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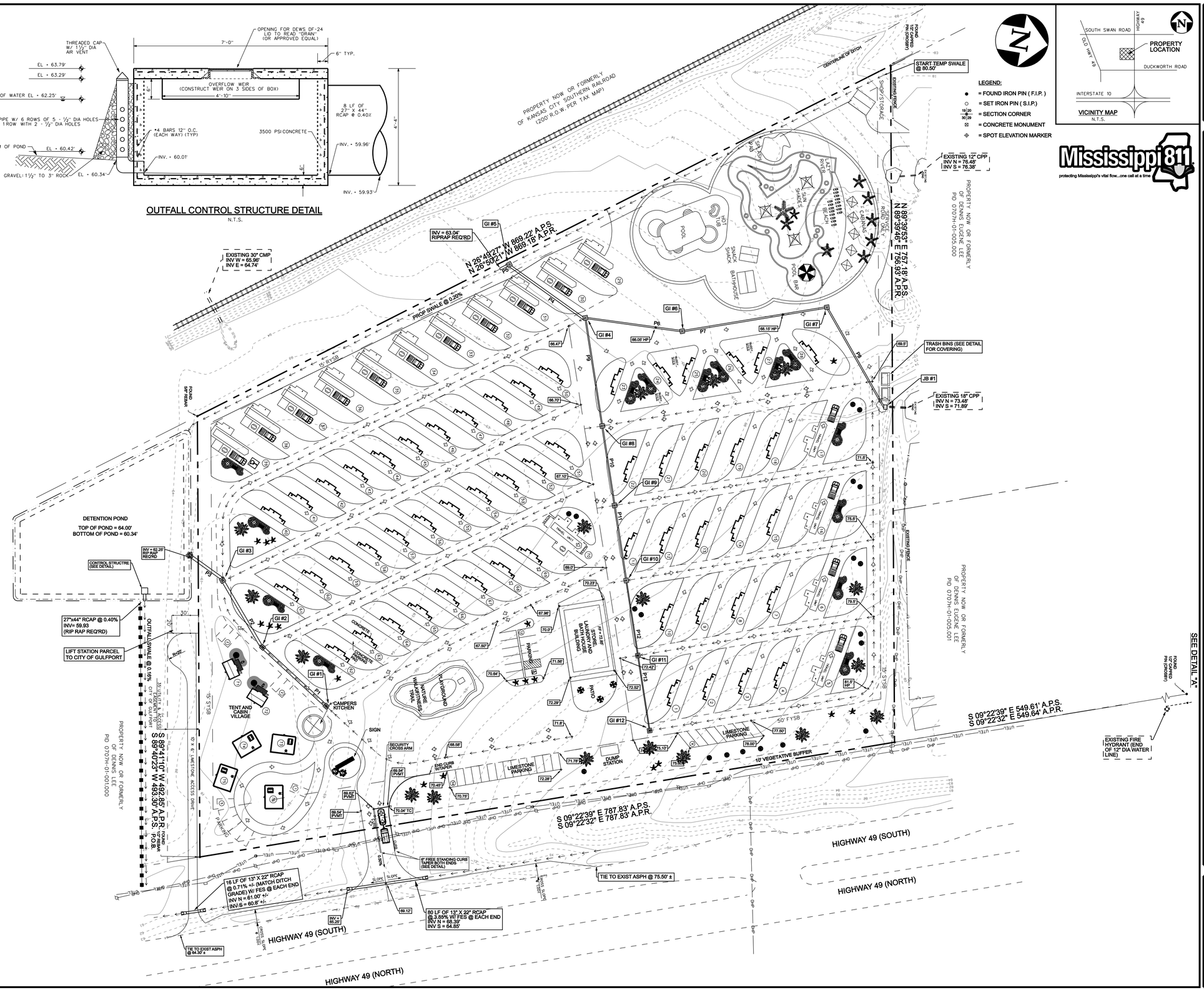
CITY OF GULFPORT WEB ATLAS

BOUNDARY AND TOPOGRAPHIC SURVEY BY JUSTIN PALMER, PLS DATED AUGUST 12, 2020

SURVEY BY CLIFORD A. CROSBY, PLS DATED SEPTEMBER 7, 2016 RECORDED IN INSTRUMENT 2016 8186 D J1

OUTFALL CONTROL STRUCTURE DETAIL

N.T.S.



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VICINITY MAP

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DRAINAGE TABLES

PROP GI #1 FL = 65.40' INV = 62.95'	PROP GI #4 TOP = 66.34' INV NE = 63.88' INV SW = 63.40' INV E = 63.42'	PROP GI #7 TOP = 68.00' INV S = 65.52' INV NE = 65.54'	PROP GI #10 FL = 67.80' INV E = 65.80' INV W = 65.72'
PROP GI #2 FL = 65.22' INV NE = 62.76' INV SW = 62.74'	PROP GI #5 TOP = 66.10' INV NE = 63.09' INV SE = 63.07'	PROP GI #8 FL =66.64' INV E = 64.14' INV W = 63.72'	PROP GI #11 FL = 72.20' INV E = 69.84' INV W = 69.82'
PROP GI #3 FL = 64.95' INV NE = 62.49' INV SW = 62.47'	PROP GI #6 TOP = 66.50' INV N = 64.82' INV SW = 64.72'	PROP GI #9 FL = 66.90' INV E = 64.81' INV W = 64.79'	PROP GI #12 FL = 74.00' INV = 71.89'
			PROP JB #1 FL = 74.50' INV N = 71.89' INV SW = 71.79'

DRAINGE PIPE SCHEDULE

PIPE	LENGTH, SIZE & GRADE
P1	94 LF OF 18" X 29" RCAP @ 0.20%
P2	82 LF OF 18" X 29" RCAP @ 0.30%
P3	40 LF OF 18" X 29" RCAP @ 0.55%
P4	102 LF OF 18" X 29" RCAP @ 0.30%
P5	8 LF OF 18" X 29" RCAP @ 0.40%
P6	106 LF OF 18" RCP @ 0.96%
P7	161 LF OF 18" RCP @ 0.43%
P8	128 LF OF 18" RCP @ 4.88%
P9	120 LF OF 18" X 29" RCAP @ 0.25%
P10	90 LF OF 13" X 22" RCAP @ 0.72%
P11	82 LF OF 13" X 22" RCAP @ 1.11%
P12	82 LF OF 12" DIA HDPE PIPE @ 4.90%
P13	82 LF OF 12" DIA HDPE PIPE @ 2.50%

REVISIONS	BY

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT:

GULFPORT KOA

City of Gulfport, Mississippi

TITLE:

GRADING AND DRAINAGE PLAN

DRAWN	WG/TLT
CHECKED	LCR
DATE	05-11-2021
SCALE	1" = 50'
JOB NO.	P-20.09

SHEET GD_01

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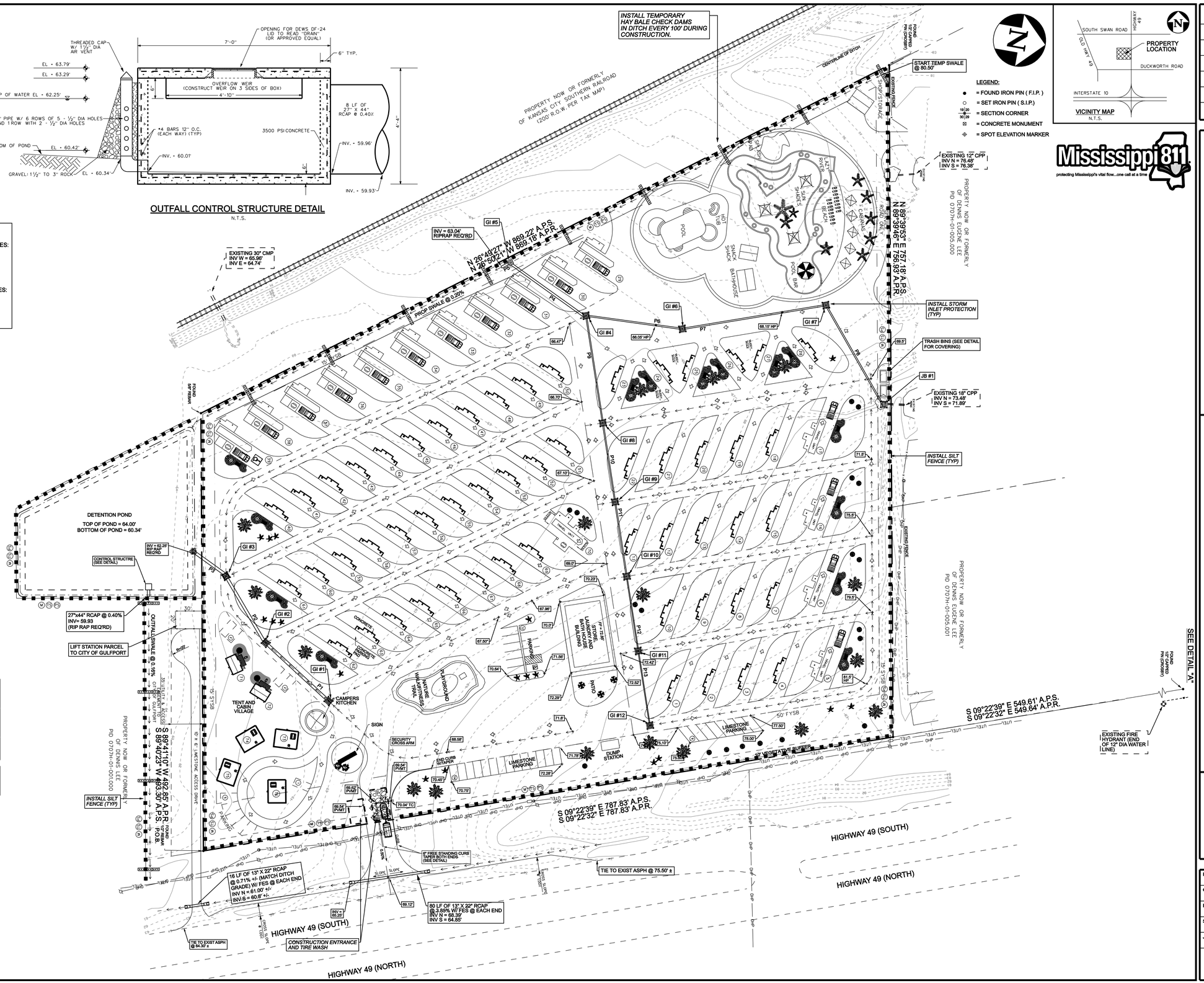
CITY OF GULFPORT WEB ATLAS

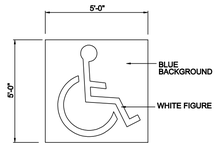
BOUNDARY AND TOPOGRAPHIC SURVEY BY JUSTIN PALMER, PLS DATED AUGUST 12, 2020

SURVEY BY CLIFORD A. CROSBY, PLS DATED SEPTEMBER 7, 2016 RECORDED IN INSTRUMENT 2016 8186 D J1

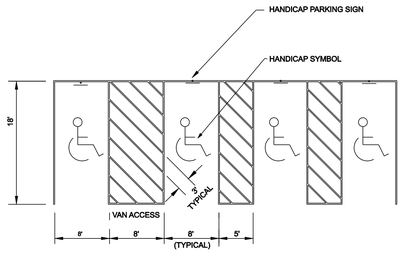
OUTFALL CONTROL STRUCTURE DETAIL

N.T.S.


INSTALL TEMPORARY HAY BALE CHECK DAMS IN DITCH EVERY 100' DURING CONSTRUCTION.
PROPERTY NOW OR FORMERLY OF KANSAS CITY SOUTHERN RAILROAD (200' R.O.W. PER TAX MAP)
START TEMP SWALE @ 80.50'
EXISTING 12" CPP INV N = 76.48' INV S = 76.38'
PROPERTY NOW OR FORMERLY OF DENNIS EUGENE LEE PID 0707H-01-005.000
INV = 63.04' RIPRAP REQ'RD
EXISTING 30" CMP INV W = 65.96' INV E = 64.74'
N 25°49'27" W 869.22' A.P.S.
N 25°50'21" W 869.18' A.P.R.
N 89°39'52" E 787.18' A.P.S.
N 89°39'46" E 787.88' A.P.R.
PROP SWALE @ 0.20%
INSTALL STORM INLET PROTECTION (TYP)
TRASH BINS (SEE DETAIL FOR COVERING)
JB #1
EXISTING 18" CPP INV N = 73.48' INV S = 71.89'
INSTALL SILT FENCE (TYP)
DETENTION POND
TOP OF POND = 64.00'
BOTTOM OF POND = 60.34'
INV = 62.29' RIP RAP REQ'RD
CONTROL STRUCTRE (SEE DETAIL)
27"x44" RCAP @ 0.40% INV= 59.93 (RIP RAP REQ'RD)
LIFT STATION PARCEL TO CITY OF GULFPORT
OUTFALL/SWALE @ 0.16%
PROPERTY NOW OR FORMERLY OF DENNIS EUGENE LEE PID 0707H-01-001.000
S 09°40'23" W 493.30' A.P.S.
S 09°40'17" W 493.65' A.P.R.
INSTALL SILT FENCE (TYP)
TENT AND CABIN VILLAGE
CAMPERS KITCHEN
SIGN
PLAYGROUND
INCLUSIVE WILDERNESS TRAIL
LAUNDRY/WASHHOUSE BUILDING
PATIO
DUMP STATION
LIMESTONE PARKING
SECURITY CROSS ARM
END CURB INTAPER
6" FREE STANDING CURB TAPER BOTH ENDS (SEE DETAIL)
16 LF OF 13" X 22" RCAP @ 0.71% +/- (MATCH DITCH GRADE) W/ FES @ EACH END INV N = 61.00' +/- INV S = 60.8' +/-
80 LF OF 13" X 22" RCAP @ 3.85% W/ FES @ EACH END INV N = 68.35' INV S = 64.85'
TIE TO EXIST ASPH @ 75.50' ±
TIE TO EXIST ASPH @ 64.30' ±
CONSTRUCTION ENTRANCE AND TIRE WASH
HIGHWAY 49 (SOUTH)
HIGHWAY 49 (NORTH)
S 09°22'39" E 549.61' A.P.S.
S 09°22'32" E 549.64' A.P.R.
S 09°22'39" E 787.83' A.P.S.
S 09°22'32" E 787.83' A.P.R.
SEE DETAIL "A"
EXISTING FIRE HYDRANT (END OF 12" DIA WATER LINE)
PROPERTY NOW OR FORMERLY OF DENNIS EUGENE LEE PID 0707H-01-005.001
FOUND 12" CAPPED PIN (CROSBY)
FOUND 5/8" CAPPED PIN (CROSBY)
FOUND 5/8" REBAR
FOUND 5/8" REBAR
CENTERLINE OF DITCH
POOL
HOT TUB
SNACK SHACK
BATHHOUSE
POOL BAR
SUN SHADES
BEACH
RIVER
CABINS
PARKING
CONCRETE
CONCRETE PARKING
PARKING
PARKING

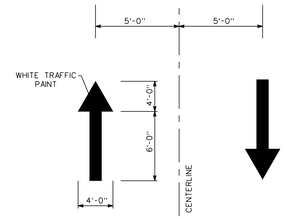


HANDICAP PARKING SYMBOL

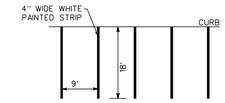


USE 4" WIDE BLUE STRIPING FOR ALL HANDICAP PARKING

HANDICAP PARKING DETAIL

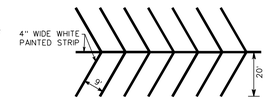


DRIVEWAY TRAFFIC FLOW DRIECTIONAL ARROW DETAIL

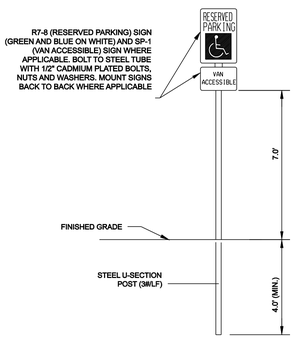


90° PARKING DETAIL

NOT TO SCALE

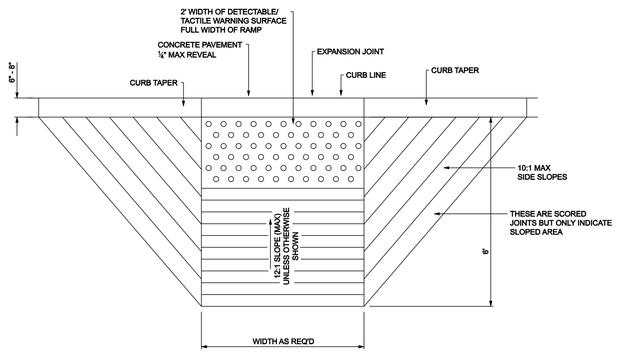


60° PARKING DETAIL

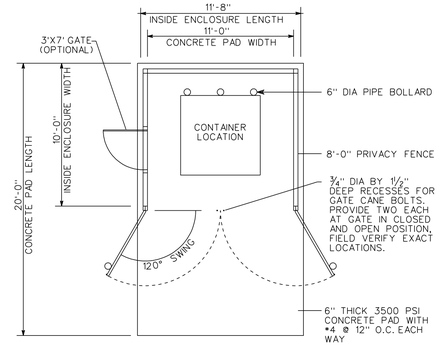


HANDICAP SIGN

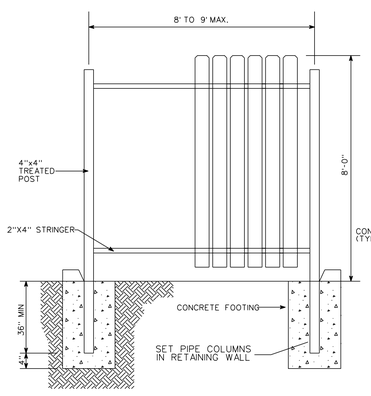
NOTE:
1. HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.



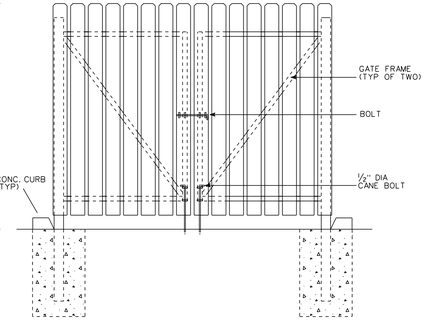
HANDICAP RAMP W/TACTILE WARNING SURFACE DETAIL



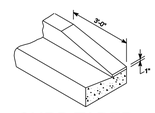
DUMPSTER ENCLOSURE PLAN



PRIVACY FENCE DETAIL

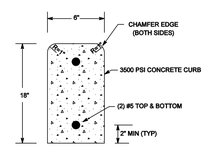


FRONT ELEVATION DUMPSTER ENCLOSURE

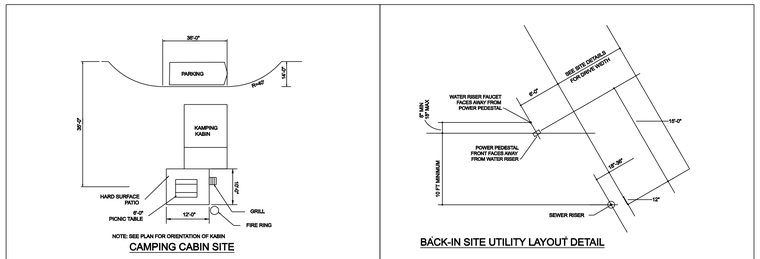


CURB TAPER

NOTES:
1. PROVIDE EXPANSION JOINTS IN SIDEWALK AND CURB & GUTTER AT 30' INTERVALS.
2. SCORE JOINTS ARE TO BE PROVIDED IN SIDEWALK, CURB, & GUTTER AND DRIVEWAYS.
3. ALL EXPANSION JOINT MATERIAL SHALL BE 1/2" PREFORMED JOINT FILLER.

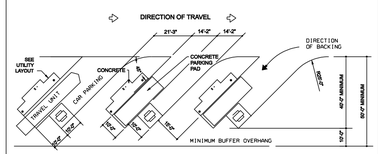


FREE STANDING CONCRETE CURB

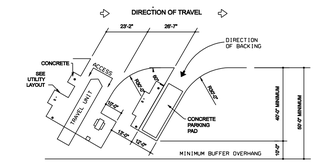


CAMPING CABIN SITE

BACK-IN SITE UTILITY LAYOUT DETAIL

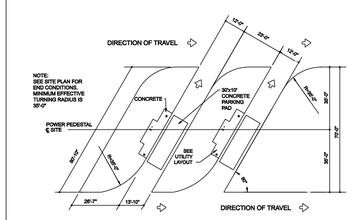


VEHICLE/RV REVERSE BACK-IN SITE - 45°

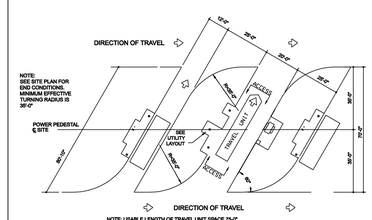


ACCESSIBLE REVERSE BACK-IN SITE 12' + 23' - 60°

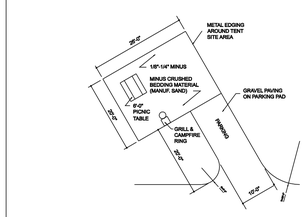
OCTOBER 2016



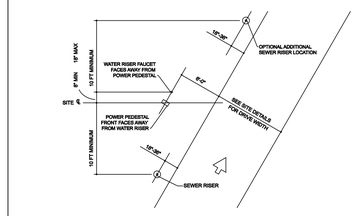
12+23 70FT - PULL-THROUGH SITE - 60°



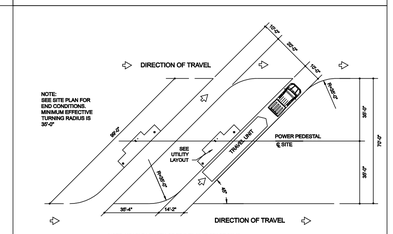
12 + 25 70FT - ACCESSIBLE PULL-THROUGH SITE - 60°



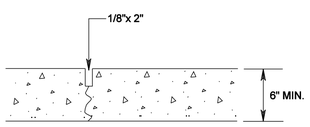
TENT SITE



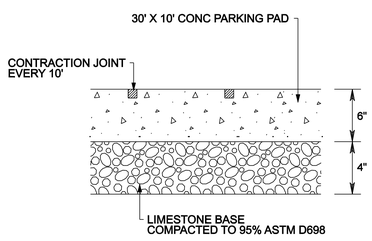
STANDARD PULL THROUGH SITE UTILITY LAYOUT DETAIL



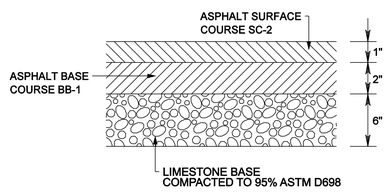
10+20 70FT - PULL-THROUGH SITE - 45°



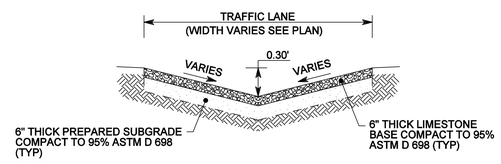
TYPICAL CONTRACTION JOINT



CONCRETE PARKING PAD DETAIL



ASPHALT DRIVE AND PARKING DETAIL



TYPICAL ROAD SECTION

REVISIONS	BY

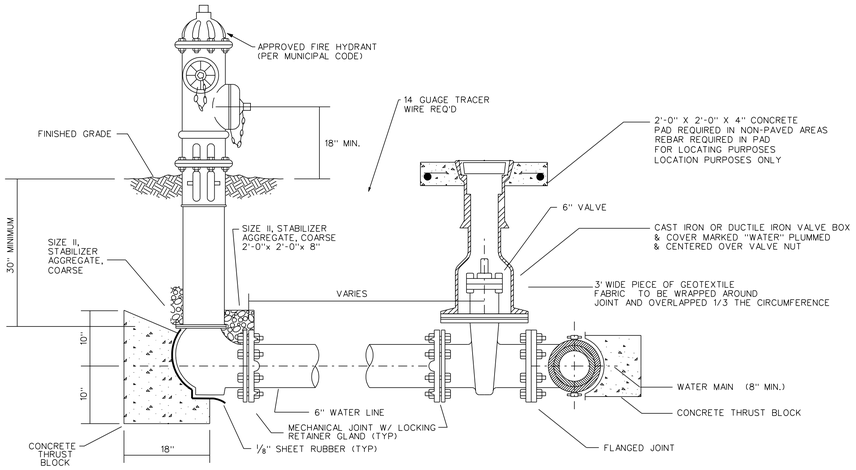
Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

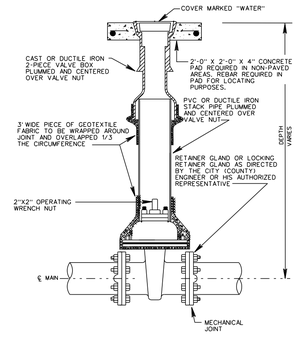
TITLE: CONSTRUCTION DETAILS

DRAWN	KOA / TLT
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

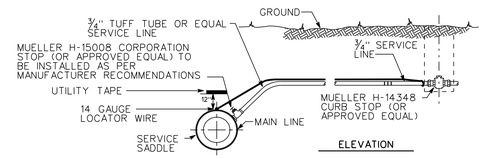
SHEET CD_01



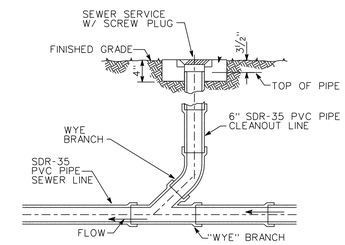
FIRE HYDRANT DETAIL



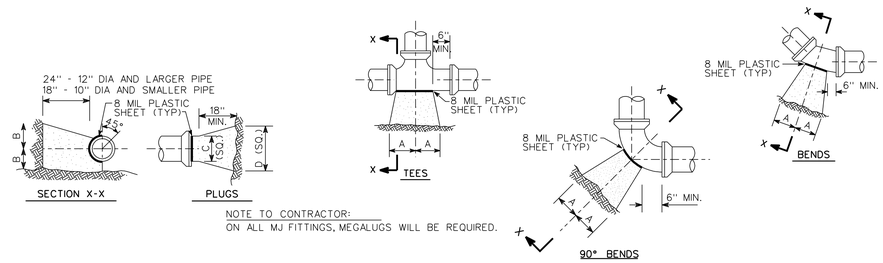
IN-LINE WATER VALVE AND VALVE BOX W/STACK PIPE



TYPICAL WATER SERVICE CONNECTION



TYPICAL SEWER CLEANOUT INLINE

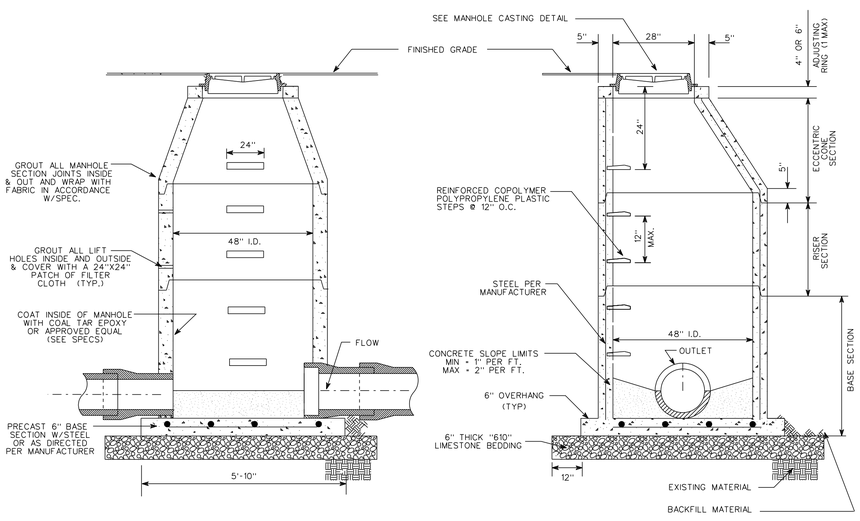


NOTE TO CONTRACTOR:
ON ALL MJ FITTINGS, MEGALUGS WILL BE REQUIRED.

SOIL TYPE	SIZE	45° BEND		22 1/2° BEND		11 1/4° BEND		90° BEND		TEE		PLUG	
		A	B	A	B	A	B	A	B	A	B	C	D
4000 PSF	6"	8	10	6	8	3	8	10	10	8	8	10	15
	8"	12	12	8	10	5	9	15	12	9	12	12	20
	10"	16	14	10	12	6	10	20	14	11	14	14	25
	12"	19	16	12	14	8	11	24	16	14	16	16	30
	14"	23	18	14	16	10	12	24	18	16	18	18	24
	16"	26	20	16	18	11	13	30	20	18	20	20	38
2000 PSF	6"	16	10	9	10	6	8	18	10	10	12	10	21
	8"	22	13	12	13	8	10	25	13	16	12	20	29
	10"	26	17	14	17	10	13	30	17	16	20	14	36
	12"	29	21	16	21	11	16	34	21	18	24	16	41
	14"	35	24	19	24	12	20	36	21	22	27	18	48
	12"	38	27	21	27	12	24	42	27	24	30	20	54

NOTE:
1. ALL DIMENSIONS ARE IN INCHES.
2. USE ON WATER LINES AND SEWER FORCE MAINS.

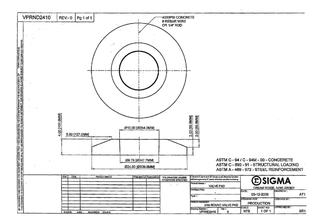
TYPICAL THRUST BLOCK DETAILS



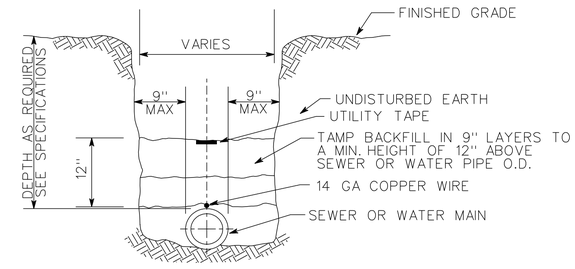
SEWER MANHOLE NOTES:

1. REFER TO OTHER DETAILS FOR DROP SEWER MANHOLES, MANHOLE CASTINGS MANHOLE ADJUSTING RINGS AND ROAD REPAIR DETAILS.
2. BEDDING MATERIAL, BACKFILL MATERIAL AND EXISTING GRANULAR MATERIAL SHALL BE COMPACTED TO 95% PROCTER PER ASTM D1557.
3. BEDDING MATERIAL SHALL BE 6" THICK, BUT SHALL BE DEEPER IF DIRECTED BY THE ENGINEER.
4. INSIDE COATING OF SEWER MANHOLES SHALL BE COAL TAR EPOXY IN ACCORDANCE WITH SECTION 4 OF THE SPECIFICATIONS.
5. IN PAVED AREAS, MANHOLES SHALL BE FLUSH WITH THE FINISHED GRADE. IN NON-PAVED AREAS, MANHOLES SHALL BE ONE HALF INCH ABOVE FINISHED GRADE, UNLESS DIRECTED OTHERWISE.

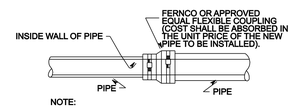
PRECAST SANITARY SEWER MANHOLE DETAILS



VALVE & CLEAN OUT PAD DETAIL



TYPICAL SEWER & WATER EMBEDMENT

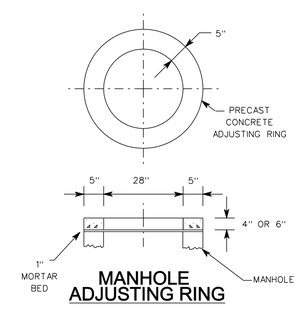


NOTE:
1. THIS DETAIL SHALL ONLY BE USED AS SHOWN ON THE PLANS OR AS APPROVED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

NEW TO EXISTING SANITARY SEWER CONNECTION DETAIL

EJ 1040 WITH CITY LOGO HEAVY-DUTY, NON ROCKING MARKED "SEWER" ON LID OR APPROVED EQUAL

MANHOLE CASTINGS



MANHOLE ADJUSTING RING

REVISIONS	BY

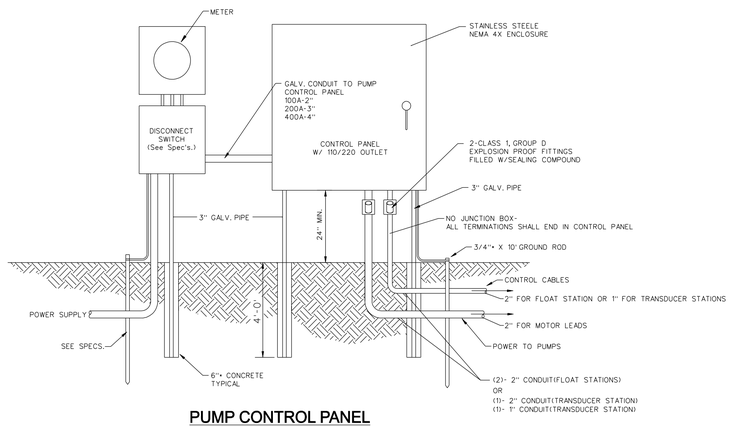
Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: CONSTRUCTION DETAILS

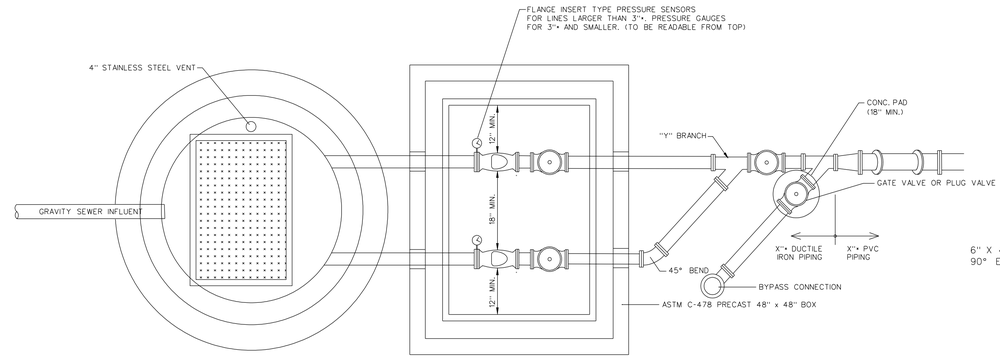
DRAWN	TLT
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

SHEET CD_02

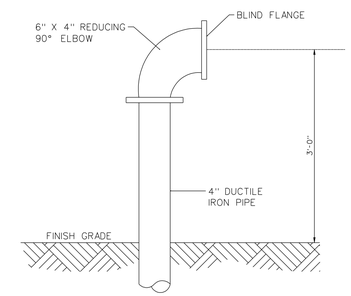


PUMP CONTROL PANEL MOUNTING DETAIL

N.T.S.

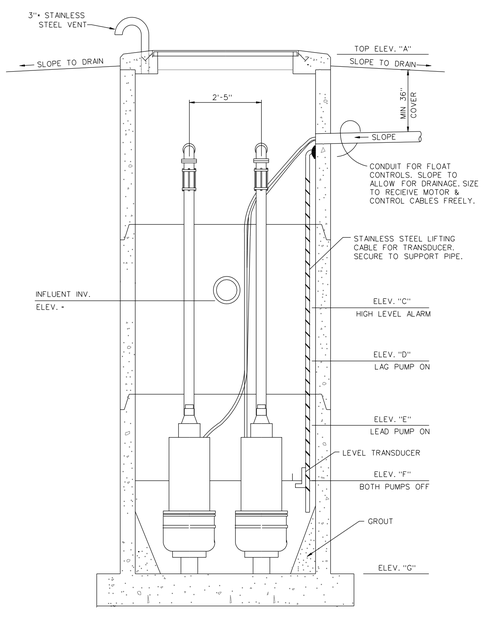


PLAN VIEW



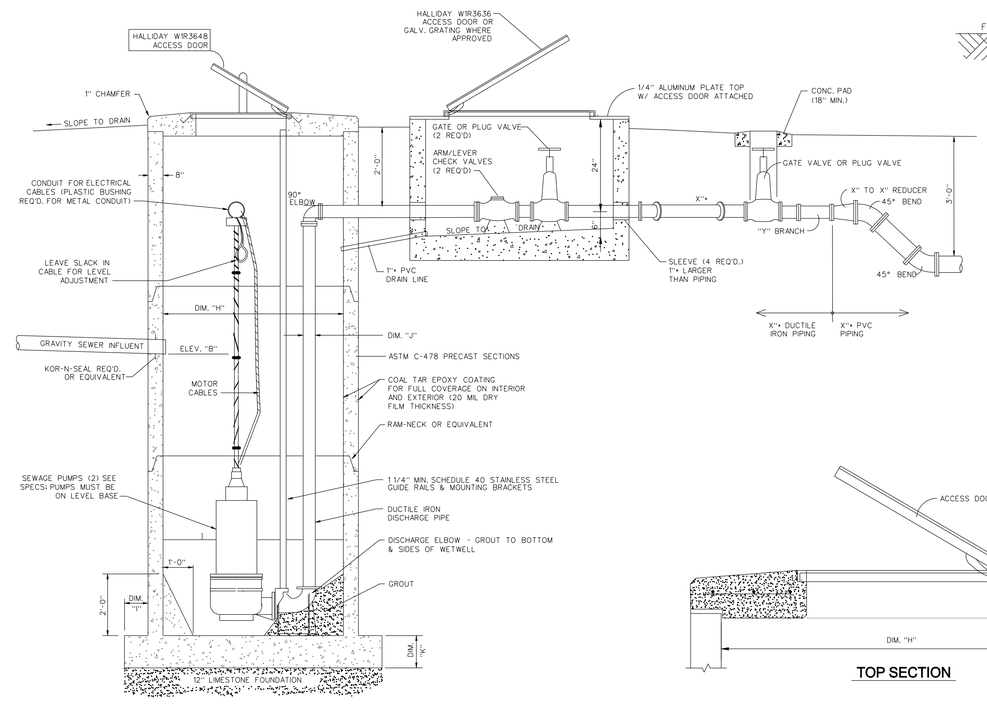
BYPASS DETAIL

N.T.S.



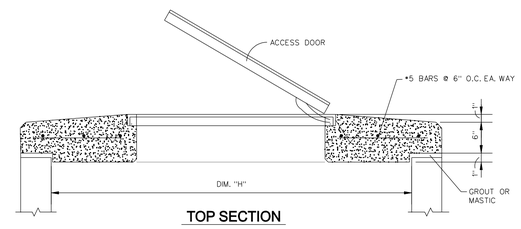
SECTION

SCALE: 1/2" = 1'-0"



SECTION

NOTE: PUMPS SHALL BE CAPABLE OF BEING REMOVED WITHOUT CONFINED SPACE ENTRY WITH THE USE OF GUIDE RAILS.



TOP SECTION

LOCATION	PUMP CAPACITY	PUMP SIZE	MIN. MOTOR SIZE	ELEC. SERVICE	ELEVATIONS							DIMENSIONS							100 YEAR FLOOD EL.
					A	B	C	D	E	F	G	H	I	J	K	L	M	N	
PS •1	100 GPM	WEMCO 3" S2	5 HP	3Ø, 240V	65.50'+/-	57.65'	57.65'	54.32'	57.15'	F	50.00'	5.0'	6"	J	8"	L	M	N	

PUMP STATION & DETAILS				
DATE: 5/20/15	APPR. BY: BCM	REVISION	DATE	BY
SCALE: N.T.S.	DR. NO.: 02732-A	NOTES	1/24/07	SAS
DR. BY:	FILE: PUMPSTAT			

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

Gulfport
ENGINEERING & PUBLIC WORKS
2050 - 16 WEST PLAYNOR DRIVE GULFPORT, MS
PH. 228-868-5810 FAX. 228-868-5822

REVISIONS	BY
ADDED PUMP BRAND 08-09-21	LCR

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

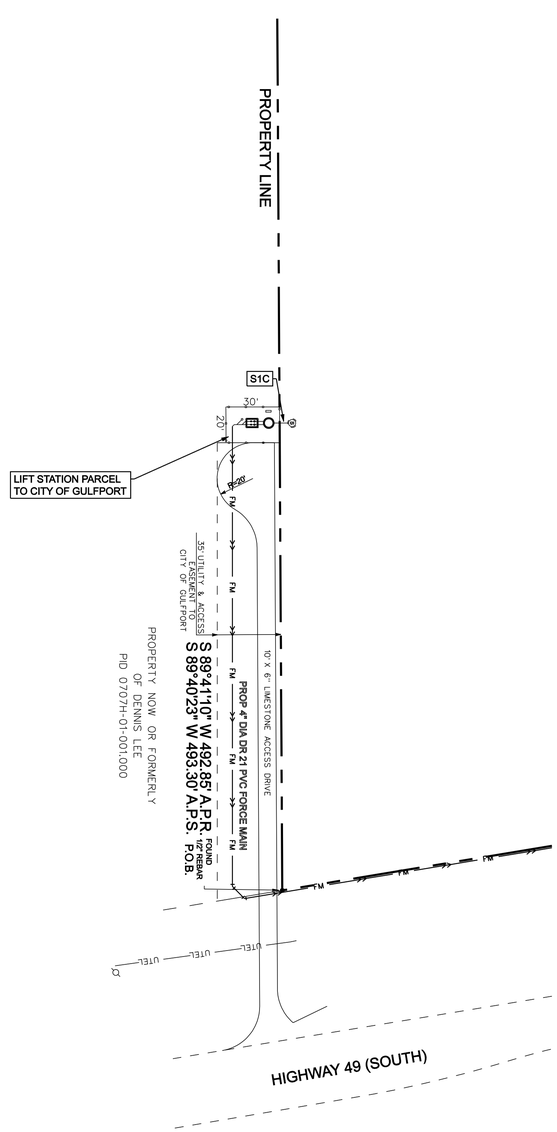
PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: CONSTRUCTION DETAILS

DRAWN	COG
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

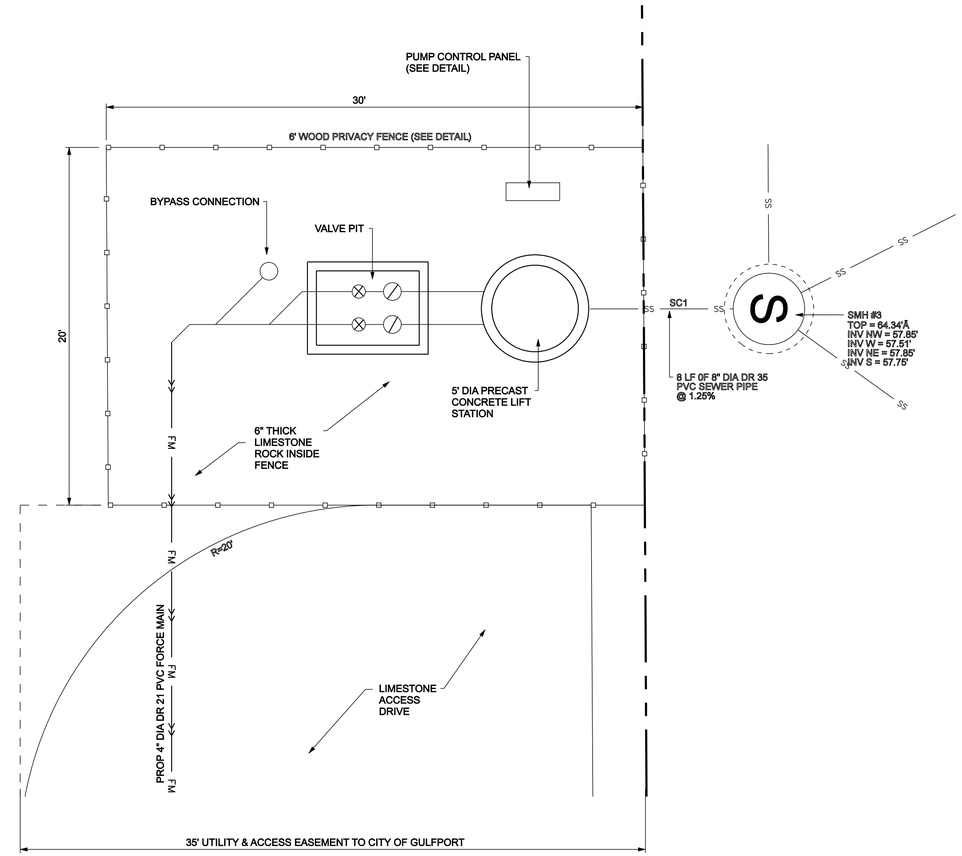
SHEET CD_03

Mississippi 811
protecting Mississippi's vital flow...one call at a time

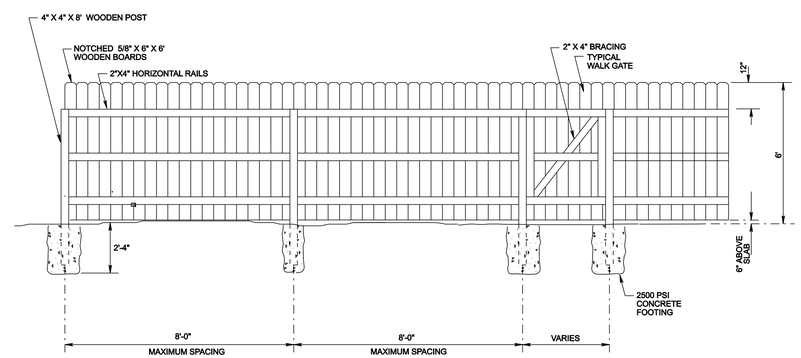


LIFT STATION SITE DETAIL (OVERALL)

8 LF 0F 8" DIA DR 35 PVC SEWER PIPE @ 1.25%



LIFT STATION SITE DETAIL



WOODEN FENCE DETAIL

GENERAL NOTES:

1. FENCING SHALL BE INSTALLED WITH BOARDS TOWARD THE STREET AND POSTS ON THE LIFT STATION SIDE.
2. WHEN REPLACING A SECTION OF AN EXISTING FENCE, FENCE TYPE & MATERIALS SHALL MATCH EXISTING.
3. ALL LUMBER SHALL BE PRESSURE TREATED.
4. ALL FASTENERS SHALL BE GALVANIZED.
5. CONCRETE SHALL CURE A MINIMUM OF THREE DAYS PRIOR TO INSTALLATION OF BOARDS.

REVISIONS	BY

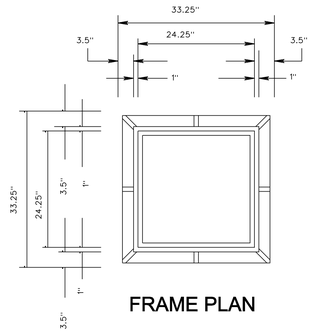
Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

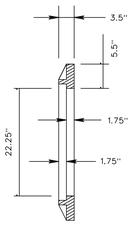
TITLE: CONSTRUCTION DETAILS

DRAWN	LCR
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

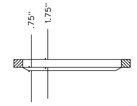
SHEET CD_04



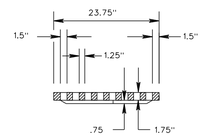
FRAME PLAN



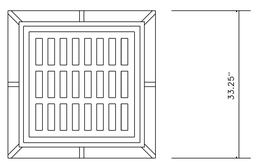
FRAME SIDEVIEW



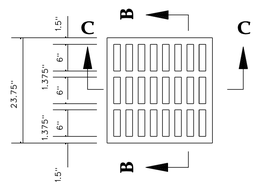
SECTION B-B



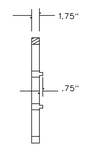
SECTION C-C



GRATE AND FRAME PLAN



GRATE PLAN



GRATE SIDE VIEW

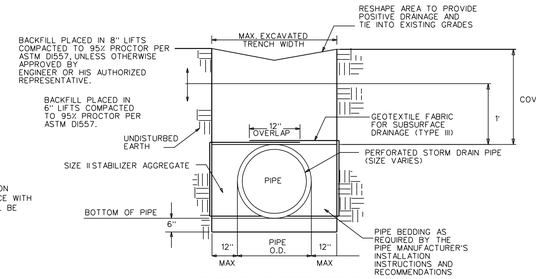
FLAT GRATE AND FRAME DETAILS

FLAT GRATE NOTE:

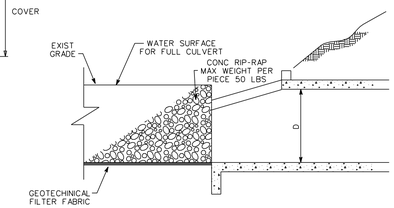
1. FLAT GRATE SHALL BE HEAVY DUTY EJ GRATE & FRAME #V-5624 OR APPROVED EQUAL.

PERFORATED STORM DRAIN PIPE NOTES:

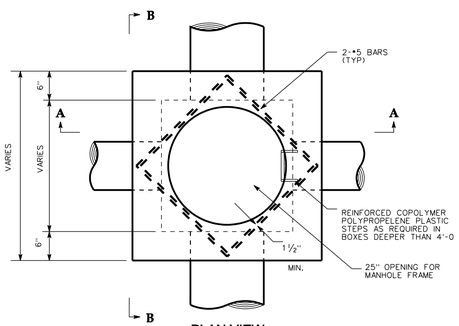
1. PERFORATED STORM DRAIN PIPE SHALL BE RIBBED PVC IN ACCORDANCE WITH THE SPECIFICATION. LOCATION FOR INSTALLATION OF PERFORATED PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.. PERFORATED PIPE SHALL NOT BE INSTALLED UNDER ROADWAYS.
2. MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BEDDING OR BORROW FOR BACKFILL. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS THE TRENCH REMAINS WITHIN THE LIMITS OF CITY R.O.W.,PROPERTY OR EASEMENT AND THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.
3. PIPE BEDDING SHALL BE "BORROW EXCAVATION" IN ACCORDANCE WITH SECTION 203 OF THE SPECIFICATION OR "SIZE II STABILIZER AGGREGATE" IN ACCORDANCE WITH SECTION 304 OF THE SPECIFICATION. TYPE AND LOCATION OF BEDDING SHALL BE DETERMINED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
4. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
5. OVERLAP OF GEOTEXTILE FABRIC SHALL BE AN ABSORBED COST
6. INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.



PERFORATED STORM DRAIN PIPE PLACEMENT

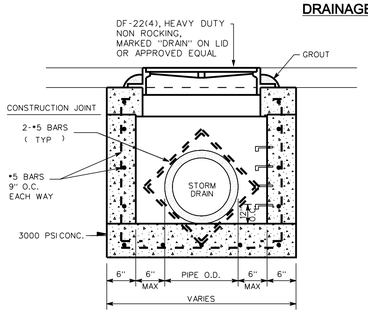


DETAIL SECTION- CONCRETE RIP-RAP

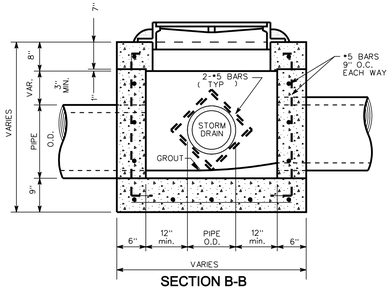


EJ 1040 WITH CITY LOGO. HEAVY-DUTY, NON ROCKING MARKED "SEWER" ON LID OR APPROVED EQUAL

PLAN VIEW
DRAINAGE STRUCTURE



SECTION A-A



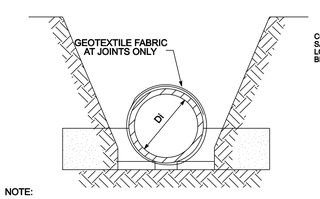
SECTION B-B

SEWER PIPE PLACEMENT NOTES:

1. SANITARY SEWER PIPE SHALL BE PVC OR DUCTILE IRON (D.I.) IN ACCORDANCE WITH THE SPECIFICATION. LOCATION FOR INSTALLATION OF PVC OR DUCTILE IRON PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
2. SANITARY SEWER PIPE SHALL BE BURIED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN MINIMUM COVER REQUIREMENTS. COVER SHALL BE A MINIMUM OF THIRTY (30") INCHES.
3. FOR GRAVITY PIPE REFER TO OTHER DETAILS FOR MANHOLES AND SERVICES.
4. FOR FORCE MAINS REFER TO OTHER DETAILS FOR THRUST BLOCKS, VALVES, SERVICES AND AIR RELEASE VALVES.

STORM DRAIN PIPE PLACEMENT NOTES:

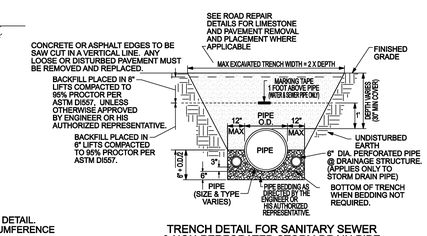
1. STORM DRAIN PIPE SHALL BE CONCRETE, RIBBED PVC OR HIGH DENSITY POLYETHYLENE IN ACCORDANCE WITH THE SPECIFICATIONS. LOCATION FOR INSTALLATION OF TYPE OF PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. ONLY CONCRETE STORM DRAIN PIPE SHALL BE INSTALLED UNDER PAVED AREAS.
2. ALL STORM DRAIN JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. FABRIC SHALL BE THREE (3') FEET WIDE (CENTERED OVER JOINT) AND LONG ENOUGH TO WRAP AROUND THE PIPE JOINT AND OVERLAP 1/3 THE CIRCUMFERENCE. THE COST OF FABRIC SHALL BE ABSORBED IN THE UNIT PRICE BID FOR STORM DRAIN PIPE AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
3. PERFORATED PIPE SHALL BE STUBBED OUT OF DRAINAGE STRUCTURE WALLS FOR DRAIN RELIEF OF STORM DRAIN BEDDING. PERFORATED PIPE SHALL BE 6" DIA. x 18" LONG SDR-26 PIPE AND SHALL BE INSTALLED 3" ABOVE INVERT OF LOWEST PIPE AS SHOWN ON THE DETAIL. PERFORATED PIPE SHALL BE INSTALLED ON BOTH SIDES OF EACH PIPE OR ANY SIDE OF BOX THAT PROVIDES MIN. CLEARANCE AS SHOWN ON THE DETAIL OR AS DIRECTED BY CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. PERFORATED PIPE SHALL BE WRAPPED WITH GEOTEXTILE FABRIC THE ENTIRE LENGTH OF THE STUB-OUT. THE FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT SILT IS PREVENTED FROM ENTERING THE OPEN END OF THE STUB-OUT AS WELL AS THE PERFORATIONS. THIS SHALL APPLY TO ALL DRAINAGE STRUCTURES.
4. REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.



NOTE:

ALL JOINTS SHALL BE WRAPPED WITH FILTER FABRIC AS PER DETAIL. ALL FABRIC TO BE 3'- 0" WIDE AND TO OVERLAP 1/3 THE CIRCUMFERENCE OF THE PIPE.

FILTER FABRIC DETAIL



TRENCH DETAIL FOR SANITARY SEWER & NON-PERFORATED STORM DRAIN PIPE

GENERAL NOTES:

1. PIPE BEDDING SHALL BE "BORROW EXCAVATION" IN ACCORDANCE WITH SECTION 203 OF THE SPECIFICATIONS OR "SIZE II STABILIZER AGGREGATE" IN ACCORDANCE WITH SECTION 304 OF THE SPECIFICATIONS. TYPE AND LOCATION OF BEDDING SHALL BE DETERMINED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
2. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
3. "MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BORROW FOR BACKFILL, LIMESTONE, AND PAVING. PIPE BEDDING SHALL BE PAID BASED ON A WIDTH OF TWO FEET PLUS THE OUTSIDE DIAMETER FO THE PIPE (O.D. OF PIPE + 2 FEET) AS SHOWN ON THE DETAIL. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS TRENCH REMAINS WITHIN THE LIMITS OF CITY R.O.W., PROPERTY OR EASEMENT AND THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.
4. IN THE CASE OF OVERLAPPING UTILITY TRENCHES, THE CONTRACTOR SHALL ONLY BE PAID ONCE FOR ITEMS SUCH AS LIMESTONE AND PAVING. ADDITIONALLY ANY MARKING TAPE ABOVE SEWER PIPE THAT IS DISTURBED OR DAMAGED BY OVERLAPPING TRENCHES SHALL BE PROPERLY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. TOP OF PIPE SHALL BE BELOW ROAD BASE IN PAVED AREAS.
6. IF EXISTING MATERIAL IS USED FOR BACKFILL, THERE SHALL BE NO ADDITIONAL PAYMENT FOR EXCAVATION AND BACKFILL. IF EXISTING MATERIAL IS UNSUITABLE FOR BACKFILL, BORROW MATERIAL SHALL BE USED. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EXCESS EXCAVATION. APPROVED PLACEMENT OF BORROW SHALL BE PAID FOR AT THE UNIT PRICE BID FOR BORROW MATERIAL.

REVISIONS	BY

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: CONSTRUCTION DETAILS

DRAWN	TLT
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

SHEET CD_05

Standards for Construction

All recreational vehicle campgrounds, which do not possess sewer risers at each campsite, must provide a sanitary dumping station for the safe and efficient disposal of wastes from the holding tanks of recreational vehicles. Each dumping station shall be constructed to conform to this standard.

If the dumping station is not continuously monitored by an attendant, the inlet hatch shall be secured by a locking device between users.

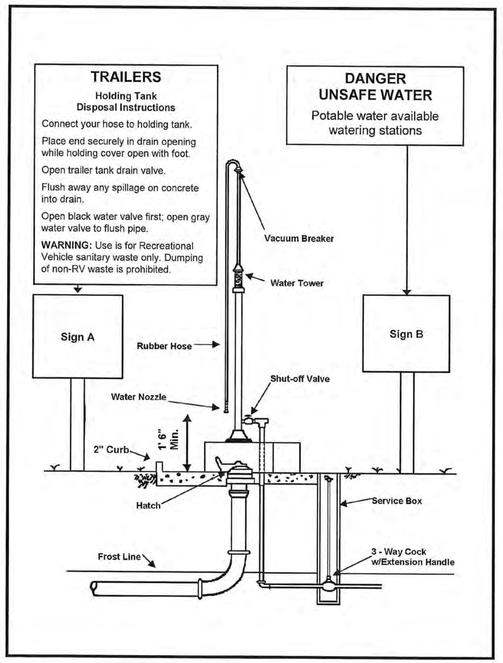
A sign shall be posted in the business familiarizing employees with the rules for the dumping station. This sign must include verbiage detailing the allowable materials to be discharged:

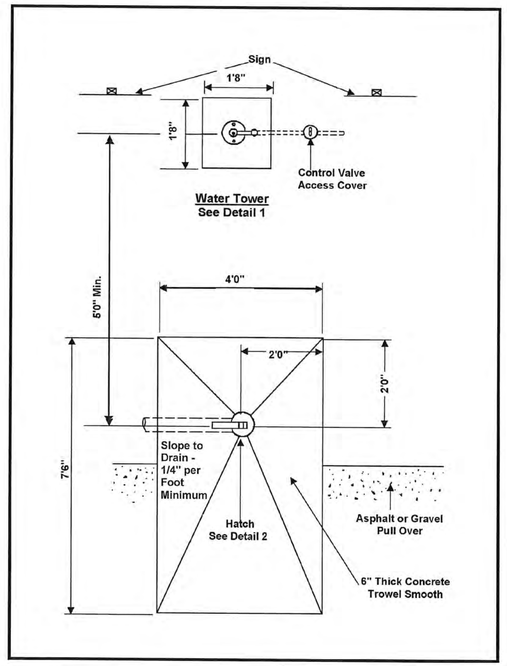
> The discharge of wastewater from the kitchens and personal sanitary conveniences of recreational vehicles is allowed. The discharge of any other wastes, chemicals or substances is prohibited. The use of normal sanitizing and deodorizing chemicals is allowed. Please remember that the discharge of any other chemicals, wastes, or trash can harm the wastewater treatment facility.

The dump station must be kept clean and free from debris at all times.

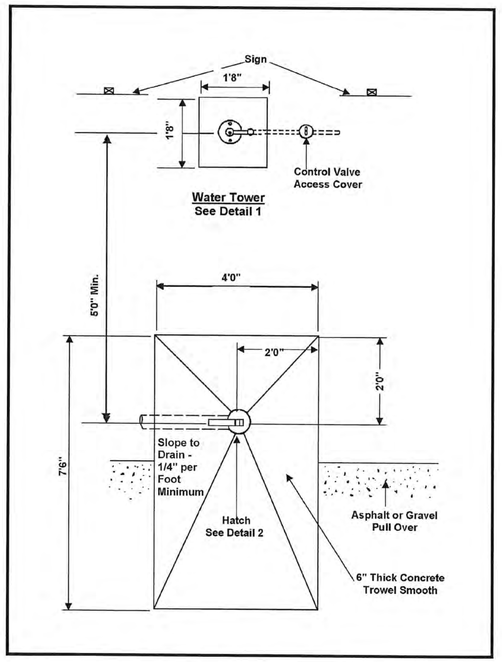
The sanitary dumping station must have the following features:

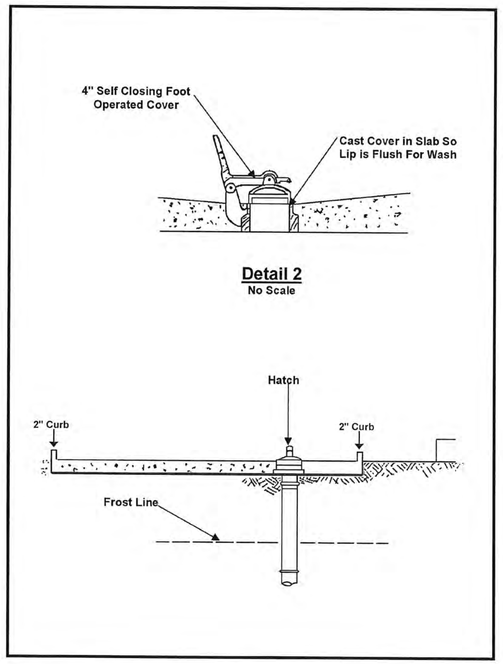
1. A sloped concrete apron with a drain at least four inches in diameter at the low point near the center of the pad.
2. A tight-fitting, self-closing drain cover (to prevent the escape of odors) equipped with a foot-operated attachment or similar device, to open the drain cover without directly contacting waste material.
3. An approved water outlet or hydrant adjacent to the dumping station for flushing down the drain pad after use.
4. An approved atmospheric vacuum breaker attached to the water outlet to prevent possible back-siphonage into the water supply system. The vacuum breaker must be installed downstream from the shutoff valve and at the highest point.
5. An adequate length of flexible hose for flushing the concrete apron and drain. A means must be provided to retract the hose when not in use so it does not contact the concrete pad or rest on the ground surface.
6. The sanitary dumping station must be located at least 100 feet from any water supply well. The dumping station and associated water outlet must be at least 50 feet from any campsite or potable water outlet. If possible, locate the dumping station at a pullover near the campground exit for ease of access and disposal without blocking traffic.
7. A sign must be posted at the sanitary dumping station stating that the adjacent water outlet is **"UNSAFE FOR DRINKING."**
8. Water at the dumping station drain must discharge to an approved wastewater disposal system.





SANITARY DUMPING STATION DETAIL





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CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

SHEET CD_06

* Annuals. FOR PERMANENT SEEDING, ANNUALS CAN ONLY BE USED IN A MIXTURE WITH PERENNIALS.
NORTH - NORTH OF HWY 82 CENTRAL -SOUTH OF HWY 82 & NORTH OF HWY 84 SOUTH - SOUTH OF HWY 84

STORMWATER POLLUTION PREVENTION PLAN
TEMPORARY & PERMANENT EROSION CONTROL MEASURES

STORMWATER PLAN AND NOTES SHOWN ON THESE PLANS ARE A GENERAL GUIDELINE. THE CONTRACTOR AND/OR SUB-CONTRACTOR IS REQUIRED TO USE THE APPLICABLE SECTIONS OF THE MISSISSIPPI PLANNING AND DESIGN MANUAL FOR THE CONTROL OF EROSION, SEDIMENT AND STORMWATER AND THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS.

TEMPORARY STRUCTURES

CONTRACTOR SHALL INSTALL SILT FENCES AROUND SPECIFIED AREAS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR SHALL CONSTRUCT STRAW WATTLES, IN ALL NEW SWALES AND REGRADED DITCHES AND ALSO INSTALL SECONDARY SILT FENCES PRIOR TO FINAL VEGETATIVE COVER BEING ESTABLISHED.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF VEHICLES PRIOR TO LEAVING THE SITE. A TIRE WASH AREA SHALL BE SET ASIDE WITHIN THE PROJECT AS SHOWN ON THE PLANS.

MISC CONTROLS

SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY WHEN IT REACHES 1/3 TO 1/2 THE HEIGHT OF THE SILT FENCE AND PRIOR TO FINAL REMOVAL OF THE CONTROL. CONTRACTOR SHALL ENSURE THAT SHOULD WORK BE DISCONTINUED IN A DISTURBED AREA FOR 14 DAYS OR MORE THE APPROPRIATE TEMPORARY OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED IMMEDIATELY. FOR PURPOSES OF THIS PERMIT, "IMMEDIATELY" IS INTERPRETED TO MEAN NO LATER THAN THE NEXT WORK DAY.

CONTRACTOR SHALL REMOVE AND REPLACE ANY TEMPORARY EROSION CONTROL MEASURES THAT ARE PAST EXPECTED USABLE LIFE OR NOT FUNCTIONING EFFECTIVELY.

INSPECTION OF THE EROSION CONTROL MEASURES SHALL BE MADE AS PROVIDED IN PART 7 OF THE SWPPP AND ALL REQUIRED REPORTS SHALL BE AVAILABLE FOR SUBMITTAL TO THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY UPON REQUEST.

CONTRACTOR SHALL INSPECT ALL EROSION CONTROLS AT LEAST ONCE A WEEK TO ENSURE THAT APPROPRIATE EROSION AND SEDIMENT CONTROLS HAVE BEEN PROPERLY CONSTRUCTED AND MAINTAINED TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE AND DETERMINE IF ADDITIONAL OR ALTERNATIVE CONTROL MEASURES ARE REQUIRED. IT IS A RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ADDITIONAL AND/OR ALTERNATIVE EROSION AND SEDIMENT CONTROLS WHEN EXISTING CONTROLS PROVE TO BE INEFFECTIVE IN PREVENTING SEDIMENT FROM LEAVING THE SITE.

VEGETATIVE CONTROLS

ALL DISTURBED AREAS SHALL BE GRADED, SEEDED, MULCHED, AND FERTILIZED AFTER STREET CONSTRUCTION IS COMPLETED. PERMANENT COVER MUST BE ESTABLISHED, WHEN THE DISTURBED AREA WILL BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS OR MORE, THE APPROPRIATE TEMPORARY OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED IMMEDIATELY. FOR PURPOSES OF THIS PERMIT, "IMMEDIATELY" IS INTERPRETED TO MEAN NO LATER THAN THE NEXT WORK DAY.

PROPOSED SWALE(S) AND DITCHES SHALL BE SEEDED WITH THE APPROPRIATE SEED (ANNUAL OR PERENNIAL) DEPENDING ON THE TIME OF YEAR. IMMEDIATELY AFTER SEEDING, THE AREA SHALL BE MULCHED AND FERTILIZED. THE SIDE OF THE PROPOSED SWALE(S) SHALL BE LINED WITH STRAW WATTLES TO PREVENT SEDIMENTATION FROM BUILDING CONSTRUCTION FROM REACHING THE STORM SEWER SYSTEM.

TOPSOIL SHOULD BE STOCKPILED AND USED IN AREAS THAT WILL BE RE-VEGETATED. WHEN FINAL GRADE IS REACHED IT SHOULD BE DISTURBED TO A MINIMUM DEPTH OF 2 INCHES ON 3:1 SLOPES AND 4 INCHES ON FLATTER SLOPES.

MAINTENANCE PLAN

CHECK ALL DISTURBED AREAS, EROSION AND SEDIMENT CONTROLS AFTER EACH SIGNIFICANT RAIN EVENT THAT PRODUCE A DISCHARGE, BUT NOT LESS THAN WEEKLY FOR A MINIMUM OF FOUR INSPECTIONS PER MONTH IN ACCORDANCE WITH ACT6, S-5. MAKE NEEDED REPAIRS WITHIN 24 HOURS. REMOVE SEDIMENT FROM THE INLET PROTECTION DEVICES AND SILT FENCES WHEN ACCUMULATED SEDIMENT HAS REACHED 50 PERCENT CAPACITY. REPLACE NONFUNCTIONAL SILT FENCES. MAINTAIN ALL VEGETATED AREAS TO PROVIDE PROPER GROUNDCOVER, RESEED, FERTILIZE AND MULCH UNTIL FINAL STABLIAZATION HAS BEEN ACHIEVED.

HEAVY EQUIPMENT USE IN AREAS TO BE RE-VEGETATED SHOULD BE AVOIDED. IF COMPACTION CANNOT BE AVOIDED, THE TOP 4 INCHES OF THE SOIL SHOULD BE TILLED BEFORE RE-VEGETATION. ANY NECESSARY FERTILIZER OR OTHER SOIL AMENDMENTS SHOULD BE ADDED DURING THE TILLING PROCESS.

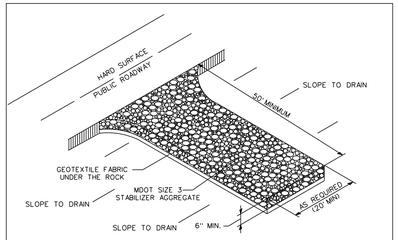
HOUSEKEEPING PRACTICES

ALL EQUIPMENT MAINTENANCE AND REPAIR WILL BE DONE OFFSITE. TRASH CANS SHALL BE PLACED AT CONVENIENT LOCATIONS THROUGHOUT THE SITE. THE MAIN TRASH COLLECTION BIN WILL BE LOCATED AT AN APPROPRIATE LOCATION ON THE SITE AND WILL BE PICKED UP WEEKLY BY THE CITY/COUNTY. PAINTS, SOLVENTS, FERTILIZERS, OR ANY OTHER POTENTIALLY TOXIC MATERIALS WILL NOT BE STORED ONSITE. PORTABLE SANITARY FACILITIES WILL BE PROVIDED FOR CONSTRUCTION WORKERS. SHOULD ANY SPILLS OR LEAKS OF TOXIC MATERIALS OCCUR, THE CONTRACTOR SHALL IMPLEMENT ALL APPROPRIATE RESPONSE PROCEDURES. ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH AND LANDSCAPE MATERIALS SHALL BE REMOVED AND ISOLATED FROM THE SPILL SITE AT AN APPROPRIATE SECURE LOCATION.

IMPLEMENTATION SEQUENCE
OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
INSTALL PERIMETER EROSION CONTROLS. BUILD CONSTRUCTION ENTRANCE/EXIT.
INSTALL TEMPORARY CONTROLS WITH NEEDED RIPRAP.
ROUGH GRADE SITE, CONSTRUCT DIVERSIONS AND DRAINAGE WAYS,
STOCKPILE TOPSOIL AND INSTALL SILT FENCE AROUND STOCKPILE,
INSTALL CULVERTS WITH INLET/OUTLET PROTECTION (SILT FENCE), AND RIPRAP.
PLANT TEMPORARY VEGETATION ON DISTURBED AREAS.
INSTALL UNDERGROUND UTILITIES.
POUR CURB AND GUTTER AS REQUIRED BY PLANS.
CONSTRUCT ASPHALT OR CONCRETE PAVING AS REQUIRED BY PLANS.
INSTALL PAVEMENT MARKINGS.
CONSTRUCT BUILDINGS
FINISH SLOPES AROUND BUILDINGS, ROUGHEN SLOPES, AND VEGETATE.
AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES,
VEGETATE THESE AREAS.
SUBMIT NOTICE OF TERMINATION AND COPIES OF INSPECTION REPORTS
TO MDEQ.

STORMWATER POLLUTION PREVENTION PLAN
POST CONSTRUCTION CONTROLS
CONTRACTOR SHALL SEED, FERTILIZE AND MULCH, AND APPLY THE APPROPRIATE SPECIFIED VEGETATIVE COVERING AS PER THE PLANS TO ALL DISTURBED AREAS, NEW AND OLD DITCHES, SWALES AND DETENTION PONDS AFTER CONSTRUCTION IS COMPLETE. IF SEEDED, THE APPROPRIATE SEED (ANNUAL OR PERENNIAL) WILL BE APPLIED DEPENDING ON THE TIME OF THE YEAR AND ACCORDING TO THE SEEDING CHART ON THE PLANS OR IN THE SPECIFICATIONS.
CONTRACTOR SHALL INSTALL ALL POST CONSTRUCTION NON-VEGETATIVE EROSION CONTROLS SUCH AS ROCK DAMS, PONDS, ETC., AS SPECIFIED ON THE PLANS.
CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE FINAL VEGETATIVE COVER AND OTHER POST CONSTRUCTION CONTROLS ARE IN PLACE.
ALL RECORDS, REPORTS, FORMS, AND INFORMATION RESULTING FROM ACTIVITIES REQUIRED BY THE PERMIT SHALL BE RETAINED FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE OF THE DOCUMENT ORIGIN.
FINAL APPROVAL SHALL NOT BE GRANTED UNTIL ALL DISTURBED AREAS ARE STABILIZED TO PREVENT ANY EROSION FROM OCCURRING.

POST CONSTRUCTION MAINTENANCE PLAN
ALL MAINTENANCE AND INSPECTION OF POST CONSTRUCTION CONTROLS WILL BE PERFORMED ON PERIODIC BASIS BY THE OWNER OF THE PROJECT. SPECIFICALLY, INSPECTIONS WILL BE MADE SEMIANNUALLY AND AFTER MAJOR RAIN EVENTS AND STORMS, UNLESS OTHERWISE NOTED.
ENTRANCES TO ALL CURB INLETS, GRATE INLETS AND PIPE OUTFLOW POINTS SHALL BE INSPECTED FOR TRASH AND DEBRIS BUILD UP. ANY SUCH TRASH OR DEBRIS SHALL BE REMOVED AND DISPOSED OF PROPERLY.
INSPECTOR SHALL INSURE THAT ALL POINTS OF STORM WATER ENTRY AND EXIT ARE FREE FLOWING AND UNOBSTRUCTED. INSPECTIONS SHALL BE MADE AT A MINIMUM, ON A MONTHLY BASIS, OF THE DETENTION POND OUTFALL CONTROL STRUCTURE TO INSURE THAT THE OUTFALL AND EMERGENCY OVERFLOW WEIRS ARE FREE FROM TRASH AND DEBRIS AND WILL ALLOW THE FREE FLOW OF STORM WATER. THE OUTFALL PIPE IN THE CONTROL STRUCTURE SHALL ALSO BE INSPECTED FOR BLOCKAGE.
THE POND FILTRATION SYSTEM SHALL BE MAINTAINED IN SUCH A MANNER AS TO INSURE THAT THE POND WILL DRAIN IN A CONTINUALLY AND CONSISTENT MANNER. ANY DEBRIS OR EXCESSIVE SEDIMENT BUILDUP IN THE POND THAT WOULD INTERFERE WITH THE OPERATION OF THE FILTRATION SYSTEM SHALL BE REMOVED AND DISPOSED OF PROPERLY.
ALL POST CONSTRUCTION CONTROLS, BEST MANAGEMENT PRACTICES AND LANDSCAPING SHALL BE MAINTAINED IN PERPETUITY AND SHALL NOT BE ALTERED OR MODIFIED WHICH WOULD LIMIT OR CAUSE TO LIMIT THE USE OF THESE ITEMS. RESPONSIBILITY AND MAINTENANCE OF THESE ITEMS SHALL FOLLOW THE OWNERSHIP OF THE PROPERTY.
EACH PROPERTY OWNER SHALL BE LIABLE VIA DEED STIPULATIONS AND/OR RESTRICTIONS FOR THE MAINTENANCE OF POST CONSTRUCTION CONTROLS AND LANDSCAPING.



NOTES:

1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE EXCAVATED 6 INCHES DEEP, 50 FEET LONG AND SHALL EXTEND THE FULL WIDTH OF ANY VEHICULAR INGRESS AND EGRESS (MINIMUM 20 FEET) LOCATED ON THE SITE.
2. THE ENTRANCE SHALL BE PROPERLY MAINTAINED FOR THE DURATION OF THE PROJECT TO PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MAINTENANCE AND REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENTRANCE SHALL BE CHECKED ON A DAILY BASIS AND BEFORE & AFTER ANY RAINFALL EVENT FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAYS END AT NO ADDITIONAL COST TO THE CITY.
4. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT THE FLOW OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
5. MEASURES SHALL BE TAKEN TO PREVENT VEHICULAR TRAFFIC FROM BYPASSING THE CONSTRUCTION ENTRANCE DURING INGRESS AND EGRESS.

LIMESTONE CONSTRUCTION ENTRY DETAIL

DATE: 5/20/15	APPR. BY: DBA	REVISION
SCALE: N.T.S.	DR. NO.: 02295	
DR. BY:	FILE:CONSTRUCT ENTRY.dwg	

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

Gulfport
ENGINEERING & PUBLIC WORKS DEPARTMENT
4200, HEWITT AVENUE, GULFPORT, MS 39507
PH. 228-868-5815 · FAX 228-868-5822

REVISIONS	BY

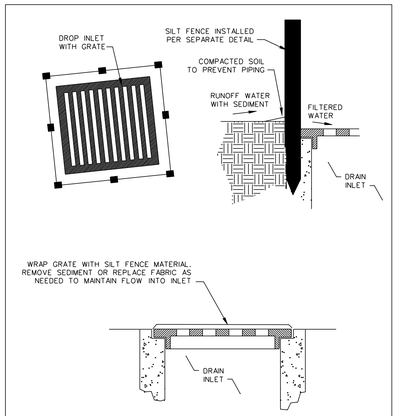
Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: STORMWATER DETAILS

DRAWN	COG / TLT
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

SHEET SP_01

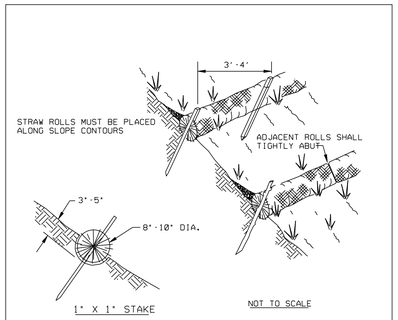


STORM DRAIN INLET PROTECTION DETAIL

DATE: 5/20/15	APPR. BY: BCM	REVISION
SCALE: N.T.S.	DR. NO.: 02295	
DR. BY:	FILE: INLET PROTECTION	

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

Gulfport
ENGINEERING & PUBLIC WORKS DEPARTMENT
4050 HEWES AVENUE, GULFPORT, MS 39507
PH. 228-868-5805 FAX. 228-868-5822



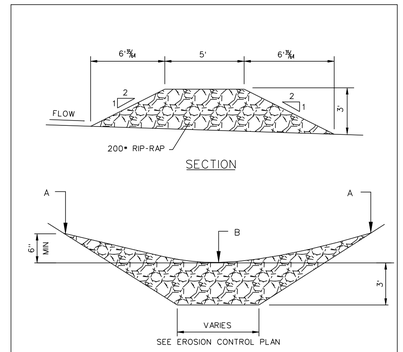
NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3'-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW ROLL WATTLE DETAIL

DATE: 5/20/15	APPR. BY: BCM	REVISION
SCALE: N.T.S.	DR. NO.: 02295-B	
DR. BY:	FILE: STRAWWATTLE	

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

Gulfport
ENGINEERING & PUBLIC WORKS DEPARTMENT
4050 HEWES AVENUE, GULFPORT, MS 39507
PH. 228-868-5805 FAX. 228-868-5822



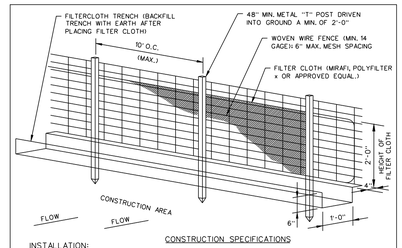
NOTE:
POINTS "A" SHOULD BE AT LEAST 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE ROCK DAM AND NOT AROUND THE ENDS.

ROCK CHECK DAM IN DRAINAGE WAY DETAIL

DATE: 5/20/15	APPR. BY: BCM	REVISION
SCALE: N.T.S.	DR. NO.: 02295-D	
DR. BY:	FILE: ROCKCHECK	

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

Gulfport
ENGINEERING & PUBLIC WORKS DEPARTMENT
4050 HEWES AVENUE, GULFPORT, MS 39507
PH. 228-868-5805 FAX. 228-868-5822



CONSTRUCTION SPECIFICATIONS

INSTALLATION:
1. USE STEEL "T" POSTS THAT ARE 5 FEET IN LENGTH.
2. INSTALL POSTS STARTING AT THE CENTER OF THE LOWEST POINT OF THE FENCE LINE. DRIVE POSTS 12 INCHES INTO THE GROUND.
3. INSTALL POSTS ON 10-FOOT CENTERS IF METAL MESH FENCING IS TO BE USED AS ADDITIONAL SUPPORT. IF NO METAL FENCING SUPPORT IS USED, THEN INSTALL POSTS ON 6-FOOT CENTER OR LESS.
4. EXCAVATE A TRENCH 4 INCHES DEEP BY 4 INCHES WIDE ON THE UPHILL SIDE OF THE FENCE POSTS.
5. STAPLE OR TIE SILT FENCE FABRIC TO POSTS ON UPHILL SIDE, LEAVING 8 INCHES ON THE BOTTOM TO EXTEND DOWN AND ACROSS THE BOTTOM OF THE TRENCH.
6. BACKFILL TRENCH AND TAMP DOWN OVER FABRIC.
7. ALLOW 6-INCH OVERLAP AT JOINTS.
8. MULCH BARE GROUND UPHILL OF SILT FENCE OR PROVIDE OTHER EROSION CONTROL MEASURES.

MAINTENANCE:
1. REMOVE ACCUMULATED SEDIMENT ALONG THE FENCE WHEN IT HAS REACHED A THIRD TO A HALF OF THE FENCE HEIGHT. DO NOT PLACE SEDIMENT ON THE DOWNHILL SIDE.
2. INSPECT WEEKLY AND AFTER EACH SIGNIFICANT STORM EVENT (GREATER THAN1/2INCH OF RAIN).
3. REMOVE FENCE WHEN AREA ABOVE THE FENCE HAS BEEN STABILIZED.
4. IF FABRIC IS TORN, THEN REPLACE WITH A NEW PIECE THAT STRETCHES TO POST ON EITHER SIDE OF THE TEAR.

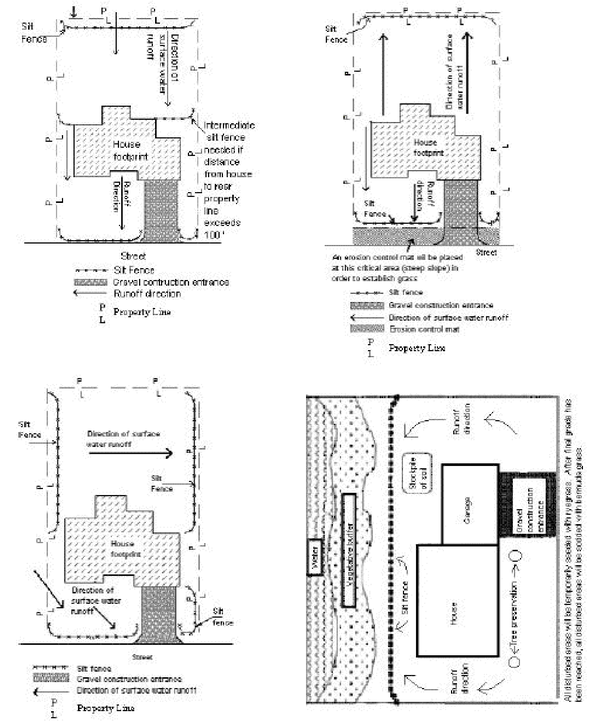
SILT FENCE DETAIL

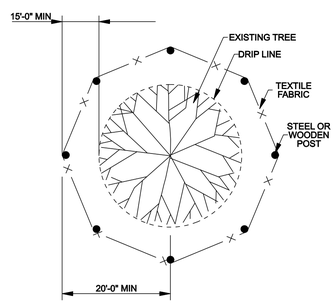
DATE: 5/20/15	APPR. BY: BCM	REVISION
SCALE: N.T.S.	DR. NO.: 02295 DWG.-1	
DR. BY:	FILE: SILTFNC	

CITY OF GULFPORT
STANDARD CONSTRUCTION DETAILS

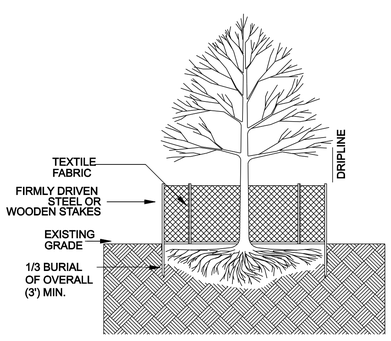
Gulfport
ENGINEERING & PUBLIC WORKS DEPARTMENT
4050 HEWES AVENUE, GULFPORT, MS 39507
PH. 228-868-5805 FAX. 228-868-5822

EXAMPLE INDIVIDUAL LOT SITE MAPS





PLAN

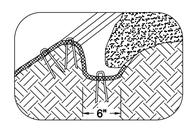


SECTION

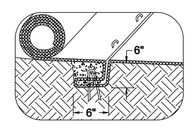
TREE PROTECTION PLACEMENT DETAIL

SEEDING CHART FOR THE STATE OF MISSISSIPPI

SPECIES	SEEDING RATE/ACRE	PLANTING TIME	DESIRED pH RANGE	FERTILIZATION RATE/ACRE	METHOD OF ESTABLISHMENT	ZONE OF ADAPTABILITY[1]
COMMON BERMUDA	15 LBS. ALONE 10 LBS. MIXTURE	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED OR SOD	ALL
BAHIA	40 LBS. ALONE 30 LBS. MIXTURE	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	CENTRAL SOUTH
FESCUE	40 LBS. ALONE 30 LBS. MIXTURE	9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	NORTH CENTRAL
SAINT AUGUSTINE		3/1 - 7/15	6.0 - 7.0	600 LBS. 13-13-13	SOD ONLY	CENTRAL SOUTH
CENTIPEDE	4 LBS. ALONE 2.5 LBS. MIXTURE	3/1 - 7/15	6.0 - 7.0	600 LBS. 13-13-13	SEED OR SOD	ALL
CARPET GRASS	15 LBS. ALONE 10 LBS. MIXTURE	3/1 - 7/15	6.0 - 7.0	600 LBS. 13-13-13	SEED OR SOD	ALL
OYSIA GRASS		3/1 - 7/15	6.0 - 7.0	600 LBS. 13-13-13	SOD ONLY	ALL
CREEPING RED FESCUE	30 LBS. ALONE 22.5 LBS. MIXTURE	9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	ALL
WEEPING GRASS	10 LBS. ALONE 5 LBS. MIXTURE	3/1 - 7/15	6.0 - 7.0	600 LBS. 13-13-13	SEED	ALL
*WHEAT	90 LBS. ALONE	9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	ALL
*RYEGRASS	30 LBS.	9/1 - 11/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	ALL
*WHITE CLOVER	5 LBS.	9/1 - 11/30	6.0 - 7.0	400 LBS. 6-24-24	SEED	ALL
*CRIMSON CLOVER	25 LBS. ALONE 15 LBS. MIXTURE	9/1 - 11/30	6.0 - 7.0	400 LBS. 6-24-24	SEED	ALL
SERICEA LESPEDEZA	40 LBS.	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	400 LBS. 6-24-24	SEED	ALL
*HAIRY VETCH	30 LBS.	9/1 - 11/30	6.0 - 7.0	400 LBS. 6-24-24	SEED	ALL
*BROWNTOP MILLET	40 LBS. ALONE 15 LBS. MIXTURE	4/1 - 8/30	6.0 - 7.0	600 LBS. 13-13-13	SEED	ALL

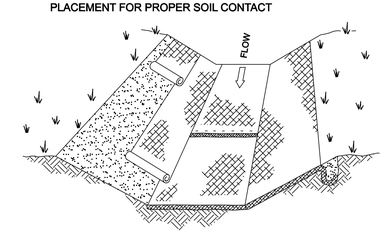


LONGITUDINAL ANCHOR TRENCH



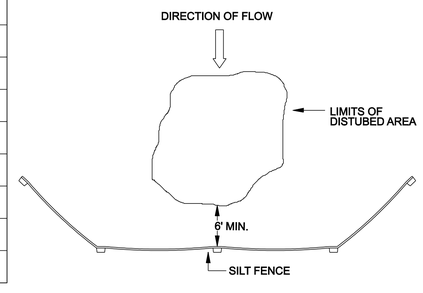
INTERMITTENT CHECK SLOT

SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT FOR PROPER SOIL CONTACT



HORIZONTAL PLACEMENT

FOR SLOPES LESS THAN 3H:1V, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS

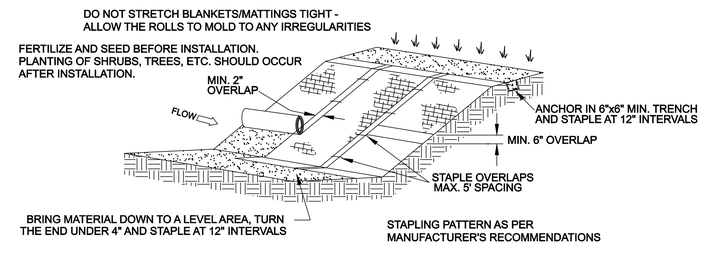


ISOLATED SILT FENCE INSTALLATION

PLAN VIEW

DO NOT STRETCH BLANKETS/MATTINGS TIGHT - ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES

FERTILIZE AND SEED BEFORE INSTALLATION. PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION.



VERTICAL PLACEMENT

FOR SLOPES GREATER THAN 3H:1V, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS

TYPICAL EROSION CONTROL MAT PLACEMENT DETAIL

REVISIONS	BY

Rumsey Consulting Engineering, Inc.
Planning, Surveying, Design
910 Howard Avenue
Biloxi, Mississippi 39530
(228) 432-9344

PROJECT: GULFPORT KOA
City of Gulfport, Mississippi

TITLE: STORMWATER DETAILS

DRAWN	COG / TLT
CHECKED	LCR
DATE	07-26-2021
SCALE	NO SCALE
JOB NO.	P-20.09

SHEET SP_02

July 1, 2022

Morgan White
401 Stormwater Branch
Environmental Permits Division
Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson, Mississippi 39225

REFERENCE: 38-UNIT RV CAMPGROUND AND RECREATIONAL PARK SCOPE OF REVIEW AND 9-ITEM CERTIFICATION REQUEST GULFPORT, HARRISON COUNTY, MISSISSIPPI

Ms. White:

A pre-file 401 Water Quality Certification meeting for the above referenced project was held on September 30, 2021, by telephone. In attendance was yourself and Florence Bass from the Mississippi Department of Environmental Quality along with Cori Gavin with CLC Environmental, LLC. As discussed, please review the information below as outlined in the scope of review and 9-Item Water Quality Certification request:

Scope of Review

1. Alternatives to the proposed activity, construction of a 38-unit RV campground and recreational park, include the no-build alternative. Under the no-build alternative, jurisdictional waters of the U.S. would not be impacted, and the site would remain naturally undeveloped. This is the only property owned by the applicant suitable for development in north Gulfport. The applicant proposes to construct an RV campground utilizing low-impact development methods, including permeable pavement and gravel access paths, to every extent possible. Since a majority of the property contains jurisdictional wetlands, there are no non-wetland areas to construct the campground. During construction and post construction, stormwater controls will be in place to minimize impacts to wetlands. There are no adjacent jurisdictional waters that will be impacted as a result of the proposed

project. Additionally, the project targets increased tourism in the area giving visitors a prime location to camp while touring the Mississippi Gulf Coast.

2. Compensatory mitigation for approximately three acres of high-quality bottomland hardwood wetlands would be purchased from Wetlands Solutions, LLC. No adjacent waters are located within or around the project area. A stormwater pollution prevention plan (SWPPP) and BMPs will be implemented during and post construction to minimize impacts to wetlands. An MDEQ Small Construction General Permit in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972) will be applied for.

3. Initial impacts to jurisdictional wetlands include filling of approximately three acres of bottomland hardwood wetlands. There are no classified waters of the State or Coastal Waters within or around the project site; therefore, no impacts to classified waters are anticipated as a result of the proposed project. Secondary impacts as a result of the proposed action would cause adjacent wetlands to retain additional hydrologic regimes from the loss of three acres of wetlands.

4. The proposed activity is not located in Intrastate, Interstate, or Coastal Waters, therefore, it is in compliance with the State of Mississippi Water Quality Criteria. The project will be constructed under a Small Construction SWPPP, will utilize adequate stormwater controls, and upon approval by the MDEQ, will be in compliance with the State of Mississippi Water Quality Criteria. The proposed activity would also be in compliance with State of Mississippi Water Quality Criteria (specifically *E. coli* standards) because of the capacity of the applicant to design a site-specific water and sewer treatment plan for the property. See attached site-specific water and sewer treatment plan.

5. There are no identified other waters of the U.S. located on the property or adjacent properties, therefore, no physical, chemical, and biological impacts to waters of the State are anticipated from the proposed action. Approximately 4.2 acres of undeveloped land would be developed, removing habitat for wildlife. The property is surrounded by similar undeveloped properties which would be suitable for wildlife to nest and forage.

6. There are no identified other waters of the U.S. located on the property or adjacent properties, therefore, no impacts are anticipated to circulation patterns and water movement of waters of the State.

7. There are no aquatic ecosystems located on the property or adjacent properties, therefore, no impacts to these ecosystems are anticipated as a result of the proposed project. The following vegetative species were identified on and adjacent to the project site: *Acer rubrum* (red maple), *Andropogon glaucopsis* (purple bluestem), *Eupatorium capilliofolium* (dogfennel), *Hypericum* spp. (St. John's wort), *Ilex*

vomitoria (yaupon), *Lygodium japonicum* (Japanese climbing fern), *Magnolia virginiana* (sweetbay), *Morella cerifera* (wax myrtle), *Pinus elliotti* (slash pine), *Pinus taeda* (loblolly pine), *Quercus virginiana* (live oak), and *Rubus argutus* (sawtooth blackberry).

8. There are no waters of the State located on the property or adjacent properties, therefore the proposed project is in compliance with the water quality management plans adopted by the Commission. Additionally, upon approval of a 401 Water Quality Certification and Small Construction General Permit, the proposed project is anticipated to be in compliance with water quality management plans. All adequate and necessary City of Gulfport and Harrison County building and construction permits will be obtained prior to construction to control stormwater runoff. The site-specific water and sewer treatment plan will be submitted to the City for approval under their MS4 permit.

9. A small construction stormwater management plan will be produced by the contractor for MDEQ to authorize prior to construction. Post construction, permeable pavement and grass swales will be implemented to route stormwater drainage.

10. The applicant is in compliance with federal and state regulatory agencies, and no federal or state regulatory actions have been placed on the applicant or the property. Additionally, no environmental liens exist for the property. The applicant has no other projects in construction or development.

11. The proposed project is not located within or adjacent to a classified waterbody, nor does it drain to a classified water. Thus, there are no TMDL limits on or adjacent to the property, and the project is in compliance with MDEQ 303d and TMDL lists.

Denial

1. The proposed activity, construction of a 38-unit RV park and campground, will not permanently impact an aquatic ecosystem such that water quality criteria are violated and/or it no longer supports its existing or classified use as Fish and Wildlife because the project is not located within or adjacent to a classified water body. No channelization of streams is occurring, the proposed activity will be in accordance with MDEQ water quality criteria, will obtain an approved Small Construction SWPPP, will implement BMPs, and will install permeable pavement and grass swales to route stormwater post construction.

2. The proposed activity is located on the only property owned by the applicant that is currently developable; therefore, no feasible alternatives exist for the project. The

project allows for increased tourism in the area, giving visitors a prime location to reside while touring the Mississippi Gulf Coast.

3. U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) lists the following federally threatened and endangered species for the project site: *Gopherus polyphemus* (gopher tortoise), *Isoetes louisianensis* (Louisiana quillwort), *Laterallus jamaicensis* spp. *Jamaicensis* (eastern black rail), *Mycteria americana* (wood stork), *Pituophis melanoleucus lodingi* (black pinesnake), and *Trichechus manatus* (West Indian manatee). There is no critical habitat for these species on or adjacent to the property, nor were any of the species observed on the property during the site visit on December 11, 2020. The project consists of a 38-unit RV park and campground. A SWPPP and associated BMPs will be implemented during construction and grass swales will be installed post construction to route stormwater and prevent any impacts to adjacent wetlands that may have adverse effects on federally listed threatened and endangered species. Additionally, impacts to approximately three acres of wetlands would be mitigated for through an approved mitigation bank.

4. The proposed project site is not along or near a National or State Wild and Scenic River or State Outstanding Resource Water. The nearest wild and scenic river to the project site is Black Creek in Stone County, which is approximately 22 miles northeast of the property. The nearest State Outstanding Resource Water is Tangipahoa River in Louisiana, which is approximately 90 miles west of the property (EPA List of ONRW 2021). Therefore, the proposed activity will not adversely impact these resources.

5. The proposed activity includes construction of a RV park and campground in an area that does not contain waters of the state or drain to waters of the state. Therefore, no cumulative impacts to waters of the state are anticipated as a result of the proposed project.

6. During construction a small construction SWPPP and BMPs will be implemented to control stormwater and nonpoint source pollution to adjacent properties. Post construction, low-impact development and grass swales will be installed to route and control stormwater and nonpoint sources of pollution.

7. The project will have a site-specific water and sewer treatment plan; and an individual wastewater permit will be applied for. The applicant will ensure that all project activities will occur in accordance with the individual wastewater permit.

8. No significant environmental impacts are anticipated as a result of the proposed activity. Impacts to wetlands will be mitigated through compensatory mitigation from an approved wetland mitigation bank. Stormwater impacts will be avoided and

minimalized to every extent possible through an approved SWPPP during and post construction.

9-Item Certification Request

1. The proposed 38-Unit Campground and Recreational Park project will include the following proponents:

   a. An approximate 1,850-foot paved access/egress road.

   b. 38 RV parking spaces constructed with permeable pavement.

   c. An approximate 1,160-foot gravel walking path.

   d. An approximate 750-square foot office space.

   e. Dumpster.

   f. The point of contact for this project is Cori Gavin with CLC Environmental, LLC. You may contact her on her cell (228) 265-0134, or via email at clcenvllc@gmail.com.

2. The proposed project is located on the west side of Highway 49, north of Interstate 10 in Gulfport, Harrison County, Mississippi. Adjacent to the north and south of the project site is undeveloped land, and adjacent to the west is the KCS rail line. Highway 49 is adjacent to the east.

3. In order for the 38-unit campground and recreational park to be constructed, a 401 water quality certification and 404 individual permit will be required.

4. Stormwater discharge will originate from the higher elevation of the north and west side of the project site. During construction approximately 10,515 cubic yards of fill will be deposited in the project area. The site will drain stormwater in the same way it currently drains, southeast.

5. Construction will be phased according to the construction schedule to minimize the amount of on-site erosion. Appropriate erosion control measures including, but not limited to, waddles, silt fences, sediment traps, and sodding/seeding will be enforced and monitored weekly. Changes in erosion control best management practices will be enforced if current measures are failing. A Small Construction General Stormwater Pollution Prevention Plan will be submitted to MDEQ for approval prior to construction activities by the contractor.

6. In order to construct the 38-unit campground and recreational park, Mr. Lee will need to procure a Clean Water Act Section (CWA) 404 permit for fill of wetlands and other waters. A CWA Section 401 Water Quality Certification and Small Construction General Permit will need to be acquired for Stormwater Pollution Prevention Plan (SWPPP).

7. A prefiling meeting with MDEQ for the 38-Unit RV Campground and Recreational Park project was requested on September 13, 2021 and accepted on September 21, 2021. The prefiling meeting was held on September 30, 2021 at 14:00 CST.

8. The project proponent hereby certifies that all information contained herein is true, accurate, and complete, to the best of my knowledge and belief.

9. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Please do not hesitate to contact me at 228-265-0134 or email me at clcenvllc@gmail.com should you need any additional information or have any questions. I appreciate your assistance with this matter.

Respectfully,

Cori L. Gavin

Cori Gavin, Principal
CLC Environmental, LLC

Attachments

ATTACHMENT A

DRAWINGS

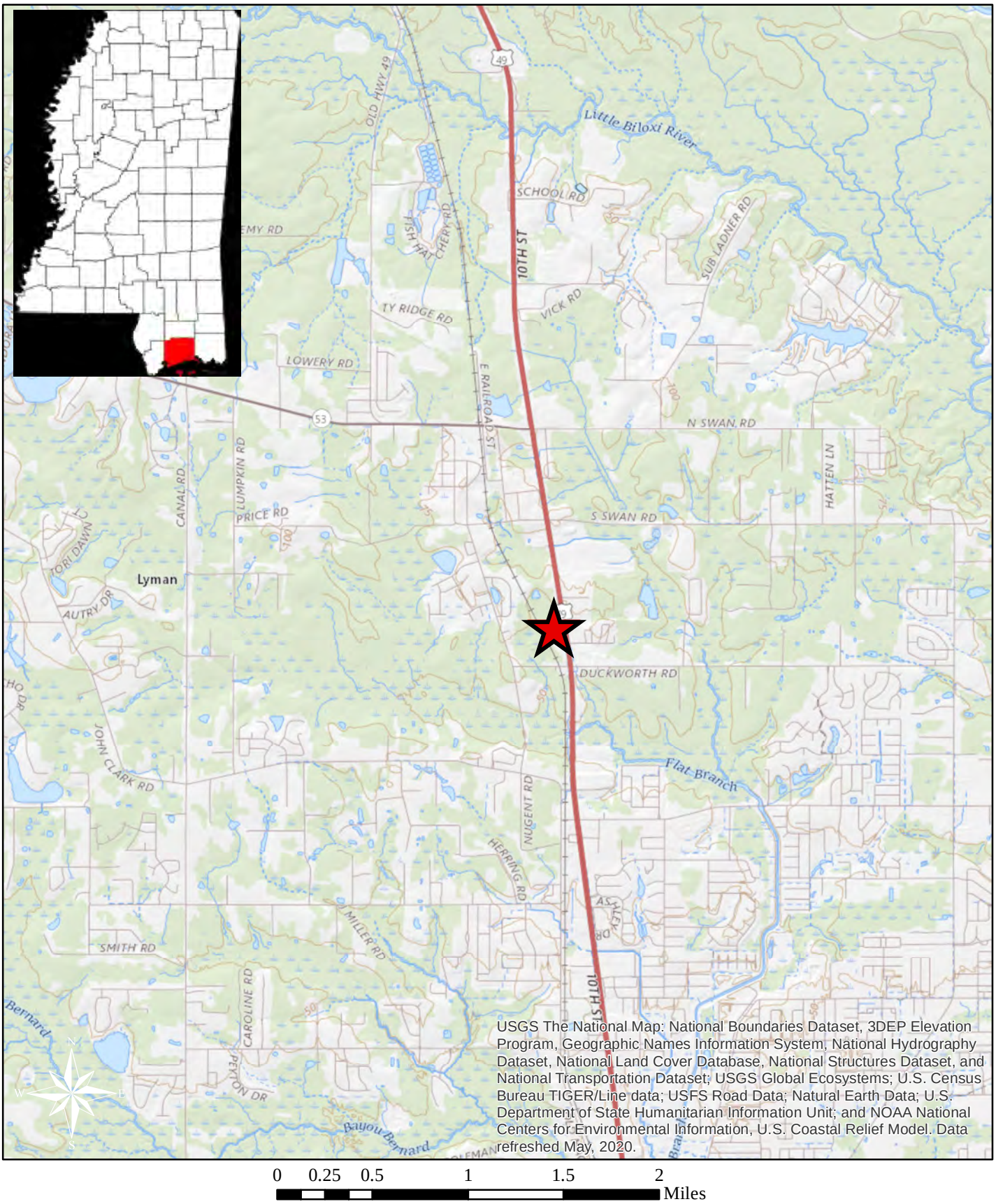


FIGURE 1
PROPERTY LOCATION MAP

FIGURE 2
2017 AERIAL PHOTOGRAPH OF PROPERTY

Legend
Property
Access Road
Walking Path
RV Slots
Wetlands
N
0 25 50 100 150 200
Feet

ATTACHMENT B

AUTHORIZED AGENT

ATTACHMENT C

2020 WETLANDS INVESTIGATION

December 18, 2020

Mr. Dennis Lee
P.O. Box 368
Picayune, Mississippi 39466

REFERENCE: WETLANDS ASSESSMENT
APPROXIMATE 4.2-ACRE PROPERTY, PIDN 0707I-01-001.001
HIGHWAY 49 SOUTH
GULFPORT, MISSISSIPPI

Mr. Lee:

CLC Environmental, LLC has performed the requested wetlands investigation in accordance with appropriate U.S. Army Corps of Engineers (USACE) Section 404 wetlands delineation procedures. This report presents the findings of the investigation. This delineation does not grant permission to any landowner to impact any wetland habitats. The USACE has jurisdiction over wetland habitats as authorized in Section 404 of the Clean Water Act. The USACE defines wetlands based on positive evidence of three parameters: hydric soil, hydric vegetation, and wetland hydrology.

This assessment is based on reference materials including Natural Resources Conservation Service (NRCS) soil survey data, national wetlands inventory (NWI) data, U.S. Geological Survey (USGS) topographic map, aerial photographs, and a site visit made on December 11, 2020. These reference materials are attached as figures and appendices.

Introduction

A site investigation for potentially jurisdictional wetlands and waters of the U.S. was performed on December 11, 2020. The property lies in Section 32, Township 6S, Range 11W in Gulfport, Harrison County, Mississippi. The project site can be described as one approximate 4.2-acre parcel. A site location map and aerial photograph of the property are included as Figures 1 and 2. The property elevation slopes southeast from at 88 feet above mean sea level (msl), on the western portion of the property, to 64 feet msl near Highway 49 to the east of the property. Surficial water flow is generally southeast towards Flat Branch (see Figure 3). The entire 4.2-acre property is undeveloped and classified as a mix between upland forest, wet pine savannah, and bottomland hardwoods.

Hydric Soil

The NRCS classifies soils as nonhydric, hydric inclusive, and hydric. Nonhydric soils show no evidence of hydrologic retainment and are very well drained. Hydric inclusive soils are predominantly nonhydric but have some hydric qualities in minor components that can dominate the soil characteristics under suitable conditions. Hydric soils show evidence of hydrologic retainment and can be identified in multiple ways including oxidation around living roots, reduction-oxidation (redox) of iron under the soil surface, manganese masses, mucky mineral material, and stratification caused by heavy water flow.

The NRCS soil survey depicted three series within property boundaries (see Figure 4):

1. Atmore silt loam (At) – silty alluvium over fine-loamy alluvium derived from sedimentary rock found in depressions, terraces, and flats on divides. Atmore soils are poorly drained and considered hydric. This series is mapped across 90% of the property.
2. Harleston fine sandy loam (HIB) – loamy alluvium derived from sedimentary rock found in marine terraces. Harleston soils are moderately well drained and considered hydric inclusive. This series is mapped across 4% of the property.
3. Poarch fine sandy loam (PoB) – loamy fluviomarine deposits derived from sedimentary rock found in fluviomarine terraces. Poarch soils are well drained and considered nonhydric. This series is mapped across 6% of the property.

Hydrophytic Vegetation

The U.S. Department of Agriculture (USDA) distinguishes vegetation among five classifications over nine regions in North America. Mississippi lies within the Atlantic and Gulf Coastal Plain region. The vegetative classes are upland (UP), facultative upland (FACUP), facultative (FAC), facultative wetland (FACW), and obligate wetland (OBL). Upland plants are only found in uplands, whereas FACUP vegetation is mostly found in uplands but can sometimes grow near wetland-upland boundaries. Facultative vegetation grows in just about any habitat. Obligate species can only be found in wetlands, whereas FACW plants can occasionally be found on upland margins.

The plant communities observed on the property are typical of coastal Mississippi. Predominant wetland vegetation (FACW and OBL) identified on the property included: *Acer rubrum* (red maple), *Andropogon glaucopsis* (purple bluestem), *Magnolia virginiana* (sweetbay), and *Pinus elliottii* (slash pine).

Wetland Hydrology

The third feature in determining the presence or absence of wetland habitats is "evidence of hydrology". The most subjective of the three wetland parameters, hydrology, can be difficult to identify and prove in dry seasons, relatively flat areas, and ephemeral streams. NWI data depicts freshwater emergent wetlands within property boundaries (see Figure 5).

Wetland areas on the property demonstrated sufficient evidence of hydrology by high water tables (between 0-15 inches from the surface), surface water, soil saturation, and redox reactions within the upper six inches of the soil surface.

Conclusions

Based on the above information, it is our opinion that the USACE and other agencies would consider 2.95 (70%) acres of the 4.2-acre property as jurisdictional freshwater shrub/scrub wetlands (see Figure 6). Wetland determination data forms are included in Attachment A, and photographs taken during the site investigation on December 11, 2020 are included in Attachment B.

If any wetlands are proposed to be impacted, coordination will be required from the USACE, Mississippi Department of Marine Resources, and the Mississippi Department of Environmental Quality. During construction, appropriate erosion control fencing should be placed around the perimeter of the construction zone to prevent any off-site release of materials which could work their way into other wetland areas. The USACE application and permitting process allows for fill of wetland habitat for specific, justified projects, if appropriate compensatory mitigation is made. Other factors considered during the application process include wastewater treatment, alternatives analysis, and floodplain impacts.

I appreciate the opportunity to provide this service to you. If you have additional questions regarding this report, or if you need further assistance with wetlands permitting, please do not hesitate to contact me at 228-265-0134 or clcenvllc@gmail.com.

Sincerely,

Cori L. Gavin

Cori L. Gavin, Principal
CLC Environmental, LLC

Attachments

FIGURES

ATTACHMENT A

WETLAND DETERMINATION DATA FORMS

ATTACHMENT B

SITE INVESTIGATION PHOTOGRAPHS

FIGURES

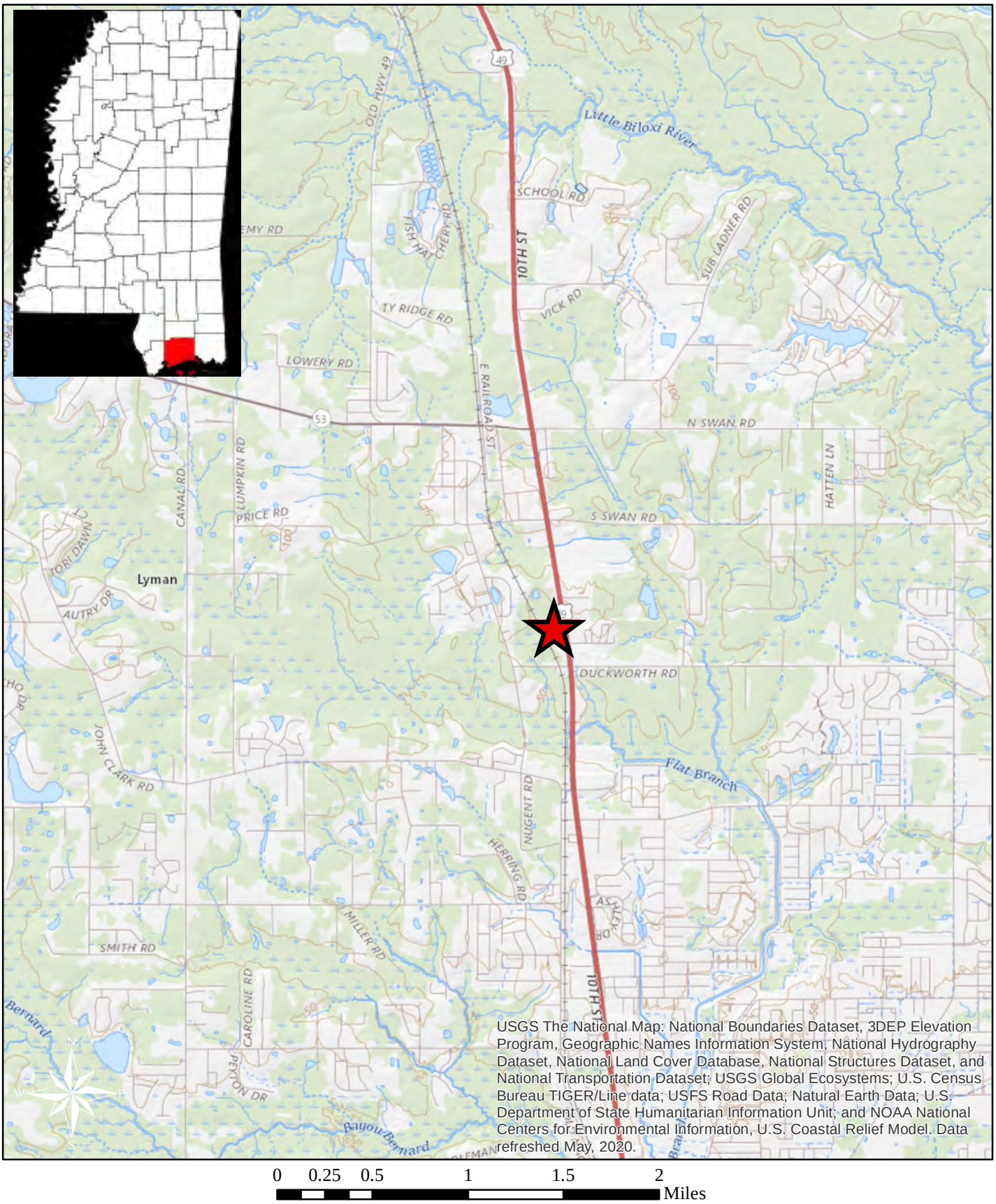


FIGURE 1
PROPERTY LOCATION MAP

FIGURE 2
2017 AERIAL PHOTOGRAPH OF PROPERTY

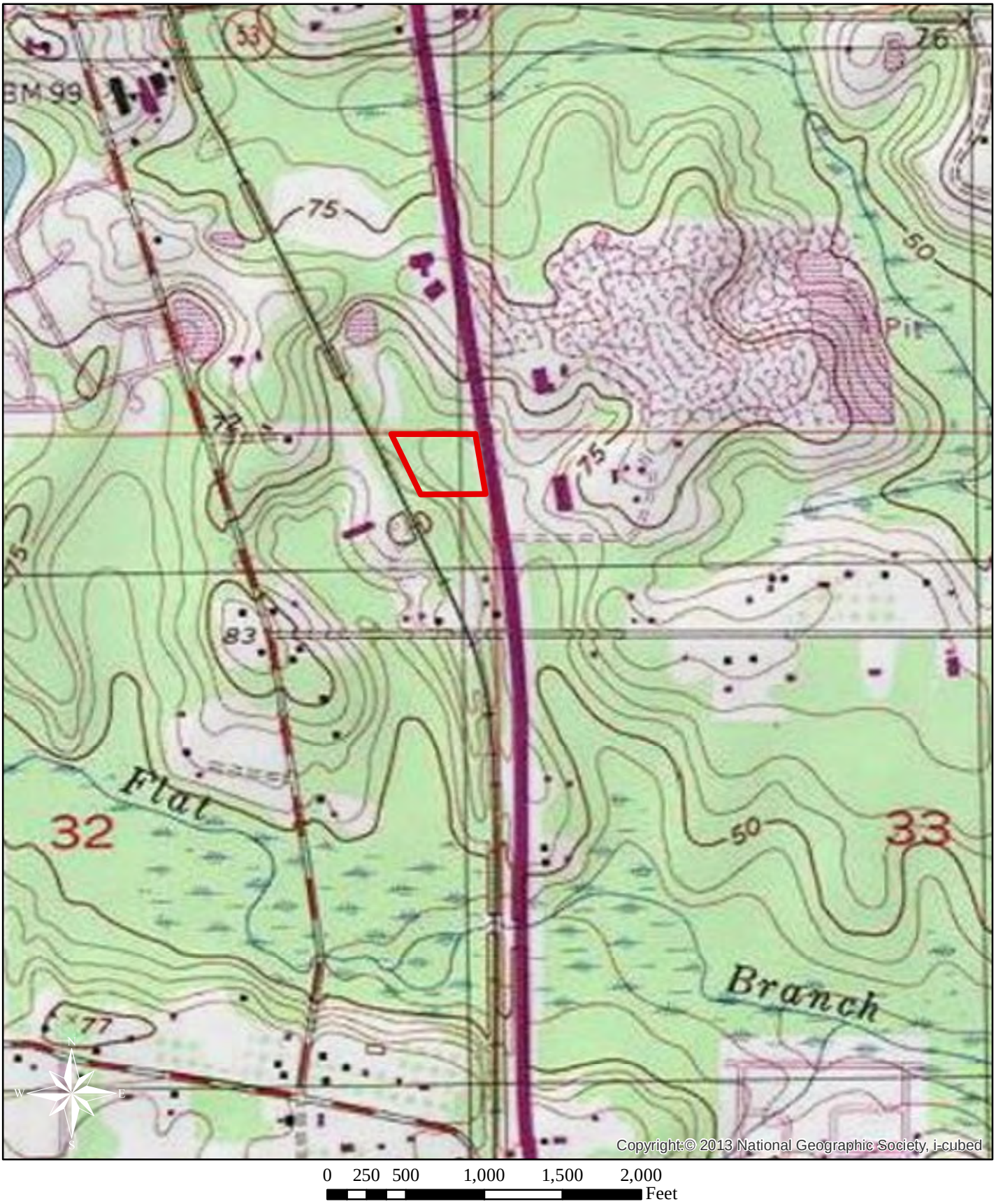


FIGURE 3
2016 USGS TOPOGRAPHY MAP

FIGURE 4
NRCS SOIL SERIES MAP

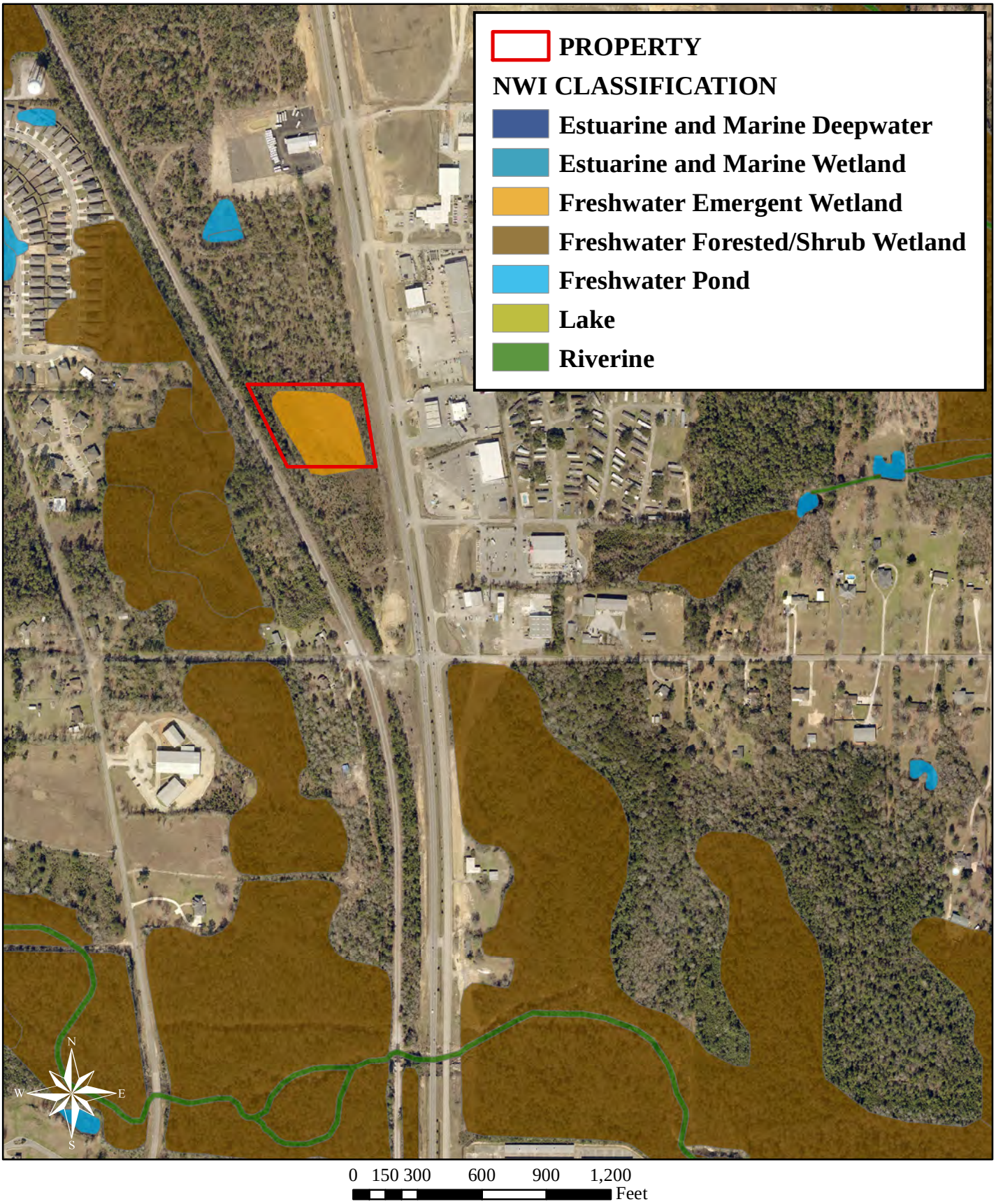


FIGURE 5
NATIONAL WETLANDS INVENTORY MAP

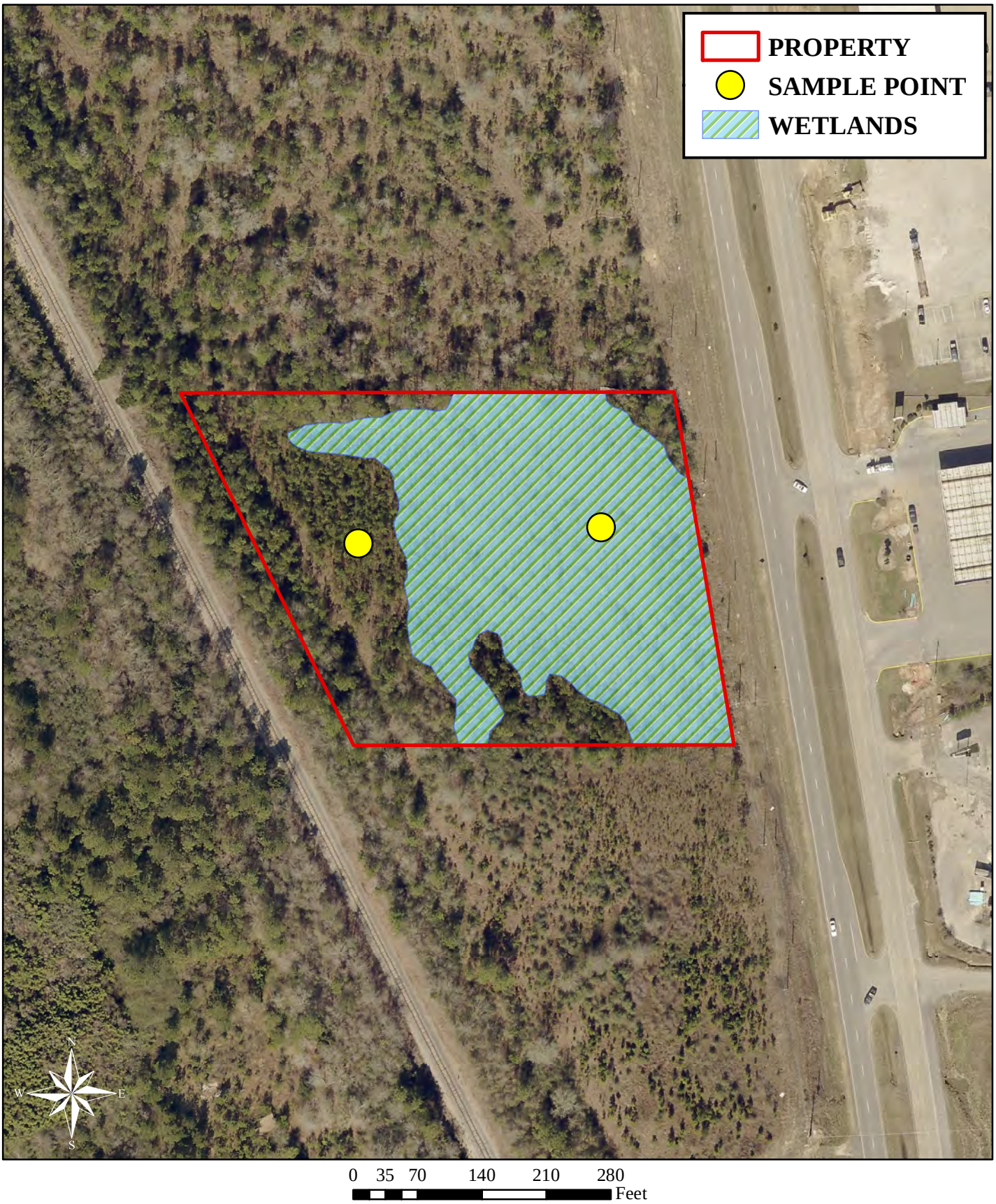


FIGURE 6
DECEMBER 11, 2020 WETLANDS SURVEY

ATTACHMENT A

WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: PIDN 0707I-01-001.001 City/County: Gulfport/Harrison Sampling Date: 12/11/2020

Applicant/Owner: Dennis Lee State: MS Sampling Point: 1

Investigator(s): Cori Gavin Section, Township, Range: S 32, T 6S, R 11W

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2

Subregion (LRR or MLRA): LRR T, MLRA 152A Lat: 30.485126 Long: -89.104494 Datum: WGS 84

Soil Map Unit Name: Atmore NWI classification: WETLAND

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?** **Yes** X **No** _____
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☑ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☑ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-Neutral Test (D5)
- ☐ Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No _____	Depth (inches): 1-3
Water Table Present?	Yes X	No _____	Depth (inches): 0+
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 12+

Wetland Hydrology Present? **Yes** X **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: 1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Magnolia virginiana	25	Y	FACW
2. Pinus elliotti	25	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	50 = Total Cover		
50% of total cover: 25	20% of total cover: 10		

Sapling/Shrub Stratum (Plot size: 30)			
1. Acer rubrum	20	Y	FAC
2. Magnolia virginiana	20	Y	FACW
3. Morella cerifera	10	N	FAC
4.			
5.			
6.			
7.			
8.			
	50 = Total Cover		
50% of total cover: 25	20% of total cover: 10		

Herb Stratum (Plot size: 30)			
1. Andropogon glaucopsis	80	Y	FACW
2. Hypericum spp.	20	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		
50% of total cover: 50	20% of total cover: 20		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
50% of total cover:	20% of total cover:		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	150	x 2 =	300
FAC species	50	x 3 =	150
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	200 (A)		450 (B)

Prevalence Index = B/A = 2.25

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/1	95	7.5YR 4/4	5	C	M	LOAM	Iron reduction

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) **(LRR P, T, U)**
- ☐ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ☐ Muck Presence (A8) **(LRR U)**
- ☐ 1 cm Muck (A9) **(LRR P, T)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) **(MLRA 150A)**
- ☐ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) **(LRR P, S, T, U)**
- ☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ☐ Thin Dark Surface (S9) **(LRR S, T, U)**
- ☐ Loamy Mucky Mineral (F1) **(LRR O)**
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☑ Redox Depressions (F8)
- ☐ Marl (F10) **(LRR U)**
- ☐ Depleted Ochric (F11) **(MLRA 151)**
- ☐ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ☐ Umbric Surface (F13) **(LRR P, T, U)**
- ☐ Delta Ochric (F17) **(MLRA 151)**
- ☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) **(LRR O)**
- ☐ 2 cm Muck (A10) **(LRR S)**
- ☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
- ☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
- ☐ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: PIDN 0707I-01-001.001 City/County: Gulfport/Harrison Sampling Date: 12/11/2020

Applicant/Owner: Dennis Lee State: MS Sampling Point: 2

Investigator(s): Cori Gavin Section, Township, Range: S 32, T 6S, R 11W

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2

Subregion (LRR or MLRA): LRR T, MLRA 152A Lat: 30.485076 Long: -89.105331 Datum: WGS 84

Soil Map Unit Name: Atmore NWI classification: UPLAND

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: 2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	40	Y	FAC
2. Quercus virginiana	10	N	FACU
3.			
4.			
5.			
6.			
7.			
8.			
	50 = Total Cover		
50% of total cover: 25	20% of total cover: 10		

Sapling/Shrub Stratum (Plot size: 30)			
1. Ilex vomitoria	50	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	50 = Total Cover		
50% of total cover: 25	20% of total cover: 10		

Herb Stratum (Plot size: 30)			
1. Andropogon gyrans	70	Y	FACU
2. Eupatorium capillifolium	20	N	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	90 = Total Cover		
50% of total cover: 45	20% of total cover: 18		

Woody Vine Stratum (Plot size: 30)			
1. Lygodium japonicum	15	Y	FAC
2. Rubus argutus	15	Y	FAC
3.			
4.			
5.			
	30 = Total Cover		
50% of total cover: 15	20% of total cover: 6		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	120	x 3 =	360
FACU species	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals:	220 (A)		760 (B)

Prevalence Index = B/A = 3.45

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 3/2	100					SAND	
3-5	10YR 5/2	100					SAND	
5-10	10YR 5/4	100					SAND	
10+	7.5YR 5/8	100					CLAY	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) **(LRR P, T, U)**
- ☐ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ☐ Muck Presence (A8) **(LRR U)**
- ☐ 1 cm Muck (A9) **(LRR P, T)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) **(MLRA 150A)**
- ☐ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) **(LRR P, S, T, U)**
- ☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ☐ Thin Dark Surface (S9) **(LRR S, T, U)**
- ☐ Loamy Mucky Mineral (F1) **(LRR O)**
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Marl (F10) **(LRR U)**
- ☐ Depleted Ochric (F11) **(MLRA 151)**
- ☐ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ☐ Umbric Surface (F13) **(LRR P, T, U)**
- ☐ Delta Ochric (F17) **(MLRA 151)**
- ☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) **(LRR O)**
- ☐ 2 cm Muck (A10) **(LRR S)**
- ☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
- ☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
- ☐ Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

ATTACHMENT B

SITE INVESTIGATION PHOTOGRAPHS

PROPERTY, FACING WEST FROM HIGHWAY 49

VEGETATION AT SAMPLE POINT 1 (SP1)

WATER TABLE AT SP1

SOIL PROFILE AT SP1

VEGETATION AT SAMPLE POINT 2 (SP2)

SOIL PROFILE AT SP2

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: December 18, 2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Cori Gavin, CLC Environmental, LLC - 3923 Washington Avenue, Gulfport, MS

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: MS County/parish/borough: Harrison City: Gulfport

Center coordinates of site (lat/long in degree decimal format):

Lat.: 30.484974 Long.: -89.104808

Universal Transverse Mercator: 297968.26 Easting, 3374409.51 Northing, Zone 16R

Name of nearest waterbody: Flat Branch

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

- [x] Office (Desk) Determination. Date: 12/10/2020
- [x] Field Determination. Date(s): 12/11/2020

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
1	30.485126	-89.104494	2.95 ac	Wetland	404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there *"may be"* waters of the U.S. and/or that there *"may be"* navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- [x] Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
  Map: topos, aerials, site plan.
- [x] Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - [ ] Office concurs with data sheets/delineation report.
  - [ ] Office does not concur with data sheets/delineation report. Rationale: _____.
- [ ] Data sheets prepared by the Corps: _____.
- [ ] Corps navigable waters' study: _____.
- [ ] U.S. Geological Survey Hydrologic Atlas: _____.
  - [ ] USGS NHD data.
  - [ ] USGS 8 and 12 digit HUC maps.
- [x] U.S. Geological Survey map(s). Cite scale & quad name: 2012 Gulfport North, 7.5-minute.
- [x] Natural Resources Conservation Service Soil Survey. Citation: WGS Soil Survey pulled 12/10/2020.
- [x] National wetlands inventory map(s). Cite name: MS Wetlands, pulled 12/10/2020.
- [ ] State/local wetland inventory map(s): _____.
- [ ] FEMA/FIRM maps: _____.
- [ ] 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- [x] Photographs: [x] Aerial (Name & Date): Harrison County 2019.
  or [ ] Other (Name & Date): _____.
- [ ] Previous determination(s). File no. and date of response letter: _____.
- [x] Other information (please specify): December 2020 Wetland Assessment Report.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

_____	Cori Gavin Digitally signed by Cori Gavin Date: 2021.01.07 11:02:56 -06'00'
Signature and date of Regulatory staff member completing PJD	Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.