



**DEPARTMENT OF THE ARMY**  
**U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT**  
 7400 LEAKE AVE  
 NEW ORLEANS, LA 70118-3651

August 14, 2023

Regulatory Division  
 Western Evaluation Branch

Project Manager  
 James W. Little, Jr.  
 (504) 862-1879  
[James.Little@usace.army.mil](mailto:James.Little@usace.army.mil)

Application #: MVN-2023-00058-WII

## **PUBLIC NOTICE**

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [ **X** ] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [ **X** ] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344), and/or [ **X** ] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

### **TEST WELLS FOR CARBON DIOXIDE STORAGE IN VERMILION PARISH**

**NAME OF APPLICANT:** ExxonMobil Low Carbon Solutions Onshore Storage, LLC, c/o: Duplantis Design Group, 1308 Camellia Blvd., Suite 200, Lafayette, Louisiana 70508.

**LOCATION OF WORK:** Test Well #1 @ Lat. 29-46-57.31 N / Long. -92-14-56.39 W; Test Well #2 @ Lat. 29-47-44.82 N / Long. -92-13-37.40 W; GIWW and North Prong of Schooner Bayou; Pecan Island Area; Abbeville, Louisiana. The proposed project is located in the 08080103 Vermilion River watershed.

**CHARACTER OF WORK:** Proposed geological investigations via installation of 12,000 TVD ft. Class 5 stratigraphic test wells at two locations for potential storage of carbon dioxide. Test well site #1 requires excavation of an approximately 4,000'(L) x 128'(W) x 11'(D) canal and a 527'(L) x 364'(W) x 11'(D) slip. Test well site #2 requires expansion of an existing slip. Phased development is proposed such that test well #2 will be drilled first. If data obtained from test well #2 supports the need, test well #1 would then be constructed. If favorable conditions are determined at one or both wells, the existing wells will be converted to Class 6 injection wells. Approximately 283,739.6 cubic yards of native material will be excavated and used beneficially on site; approximately 45,142.4 cubic yards of native material will be excavated and placed on site to construct spoil banks and containment berms and approximately 74,190.6 cubic yards of native material

will be excavated and hauled off site. Implementation of the proposed work will impact approximately 17.4 acres of marsh habitat, 28.2 acres of water bottoms, and 1.5 acres of upland habitat. Approximately 38.4 acres of water bottoms will be filled as part of the Beneficial Use Dredged Material plan to create marsh habitat. Should permit approval be considered acceptable, the applicant has proposed to mitigate any remaining unavoidable impacts through the use of a mitigation bank or banks in the project watershed, as deemed appropriate by the USACE and LDNR-OCM.

The comment period on the requested Department of the Army Permit will close **20 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineer's project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, James W. Little, Jr.** Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment must be specific and substantively supportive of the requested extension and received by this office prior to the end of the initial comment period. The Branch Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennJ>

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

This request will also be reviewed pursuant to Section 408 and USACE Engineering Circular (EC) 1165-2-220, which provides policy and procedural guidance for processing requests to alter USACE civil works projects. The decision whether to grant permission for the requested alteration will be based on several factors. The benefits that

reasonably may be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be reviewed by a USACE technical review team considering the following factors:

1) Potential to Impair the Usefulness of the Project. Proposed alterations will be reviewed to determine whether the alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes, or outputs. If USACE determines that the usefulness of the authorized project would be impaired, the request will be denied.

2) Potential to be Injurious to the Public Interest. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

The Section 408 review will consider the potential impact to the usefulness of the Federal project and whether the proposed alteration would be injurious to the public interest. Policy and legal compliance will also be considered.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is presently unaware of properties listed on the National Register of Historic Places at or near the proposed work but is pending further review in accordance with the National Historic Preservation Act. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project is located in wetlands and waters known to be utilized by the Eastern Black Rail (*Laterallus jamaicensis*) and West Indian Manatee (*Trichechus manatus*) determined that the activity is not likely to adversely affect these species. If the DA permit is approved, the permittee will be required to follow the mitigative conditions for the West Indian Manatee (*Trichechus manatus*).

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of **77.2 acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. *Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Louisiana Department of Environmental Quality before a Department of the Army permit could be issued.*

Any person may request within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing, and can be preferably emailed to the USACE project manager listed above or mailed to the address listed above.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Department of Natural Resources's Coastal Resources Program (Application # P20221080). The Department of the Army permit will not be issued unless the applicant receives approval or a waiver of the Coastal Use Permit by the Louisiana Department of Natural Resources.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara  
Chief, Western Evaluation Branch  
Regulatory Division

Enclosures



**PRELIMINARY**  
**FOR PERMIT PURPOSES ONLY**

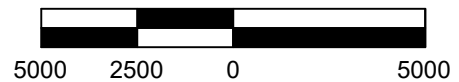
Kainen T. LeBlanc  
 LA PE #34314  
 Duplantis Design Group, P.C.

**GENERAL NOTES:**

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL ENSURE ALL APPLICABLE PERMITS ARE SECURED & THE LOUISIANA ONE CALL SYSTEM HAS BEEN CONTACTED.
2. ALL ELEVATIONS REFER TO NAVD 88 UNLESS NOTED OTHERWISE.
3. THE USAGE FEATURES REPRESENTED ARE BASED ON FIELDWORK PERFORMED BY DDG ON 11-28-22.

**VICINITY MAP**

SCALE IN FEET



**DDG**

314 EAST BAYOU ROAD | THIBODAUX, LA.  
 985.447.0090

**PERMIT SET**  
 VERMILION PARISH, LOUISIANA  
 FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

**PRELIMINARY**  
**FOR PERMIT**  
**PURPOSES ONLY**

PROJECT NO. 22-1944  
 PECAN ISLAND AREA TEST WELLS  
 JPA REVISION 1  
 01/09/2023

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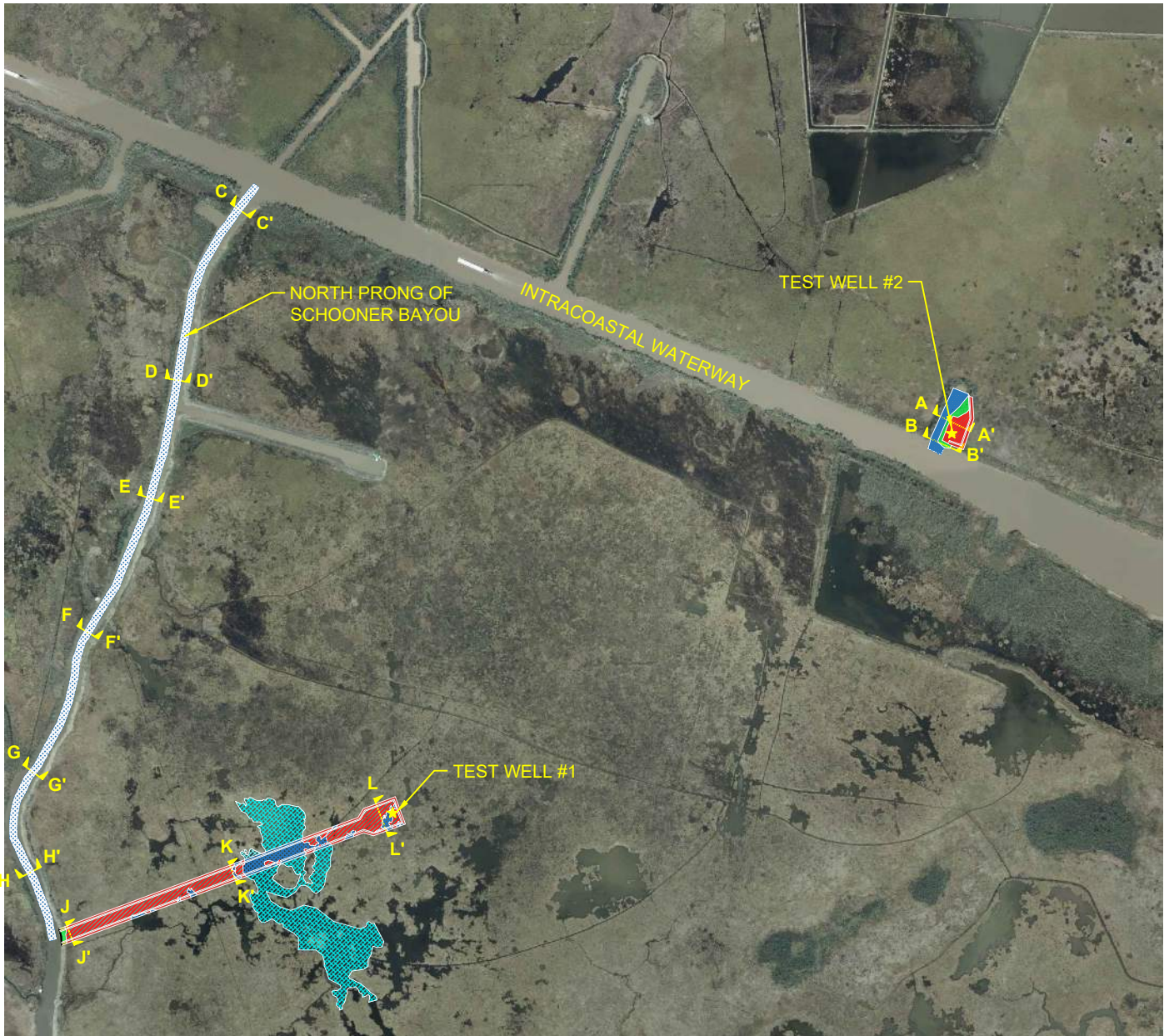
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\*ALL IMPACTS ON PROJECT SITES ARE PERMANENT

IMPACTS	
HABITAT TYPE	ACREAGE
MARSH	17.4 AC.
WATERBOTTOMS	28.2 AC.
UPLAND	1.5 AC.
BUDM AREA	38.4 AC.

**PRELIMINARY**  
FOR PERMIT PURPOSES ONLY

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

\*FOR ALL CROSS SECTIONS, SEE SHEETS 8-13

**OVERALL PROJECT SITE**

SCALE IN FEET



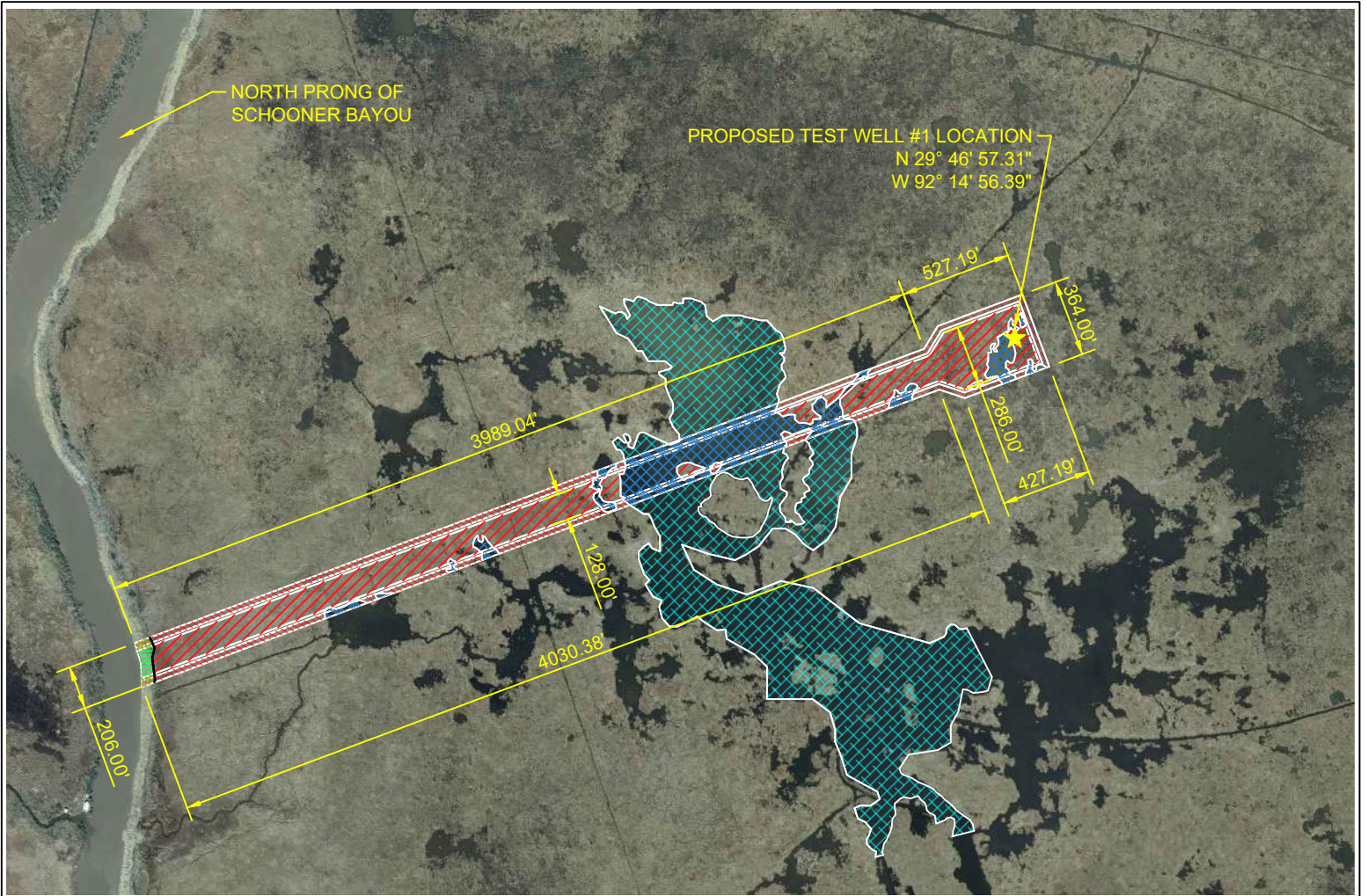
**DDG**  
314 EAST BAYOU ROAD | THIBODAUX, LA.  
985.447.0090

**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

**PRELIMINARY FOR PERMIT PURPOSES ONLY**

PROJECT NO. 22-1944  
PECAN ISLAND AREA TEST WELLS  
JPA REVISION 1  
01/09/2023  
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SHEET  
**2 of 19**



	FILL MARSH 3.9 ACRES_ 22,294.1 CY
	FILL WATER 2.1 ACRES_ 22,480.0 CY
	EXCAVATED MARSH 11.0 ACRES_ 185,303.2 CY
	EXCAVATED WATERBOTTOMS 3.6 ACRES_ 39,787.0 CY
	EXCAVATED UPLANDS 0.2 ACRES_ 3,308.8 CY
	FILL UPLANDS 0.1 ACRES_ 229.7 CY
	BUDM AREA 38.4 ACRES_ 207,041 .0 CY

\*TOTAL AREA = 20.2 ACRES. 3.0 ACRES OF SLOPE BUFFER  
\*WOODY DEBRIS WILL BE DISPOSED OF OFF-SITE

**PRELIMINARY**  
**FOR PERMIT PURPOSES ONLY**

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

**TEST WELL #1**  
**SITE PLAN**

SCALE IN FEET



**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

**PRELIMINARY**  
**FOR PERMIT**  
**PURPOSES ONLY**

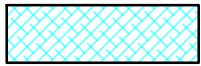
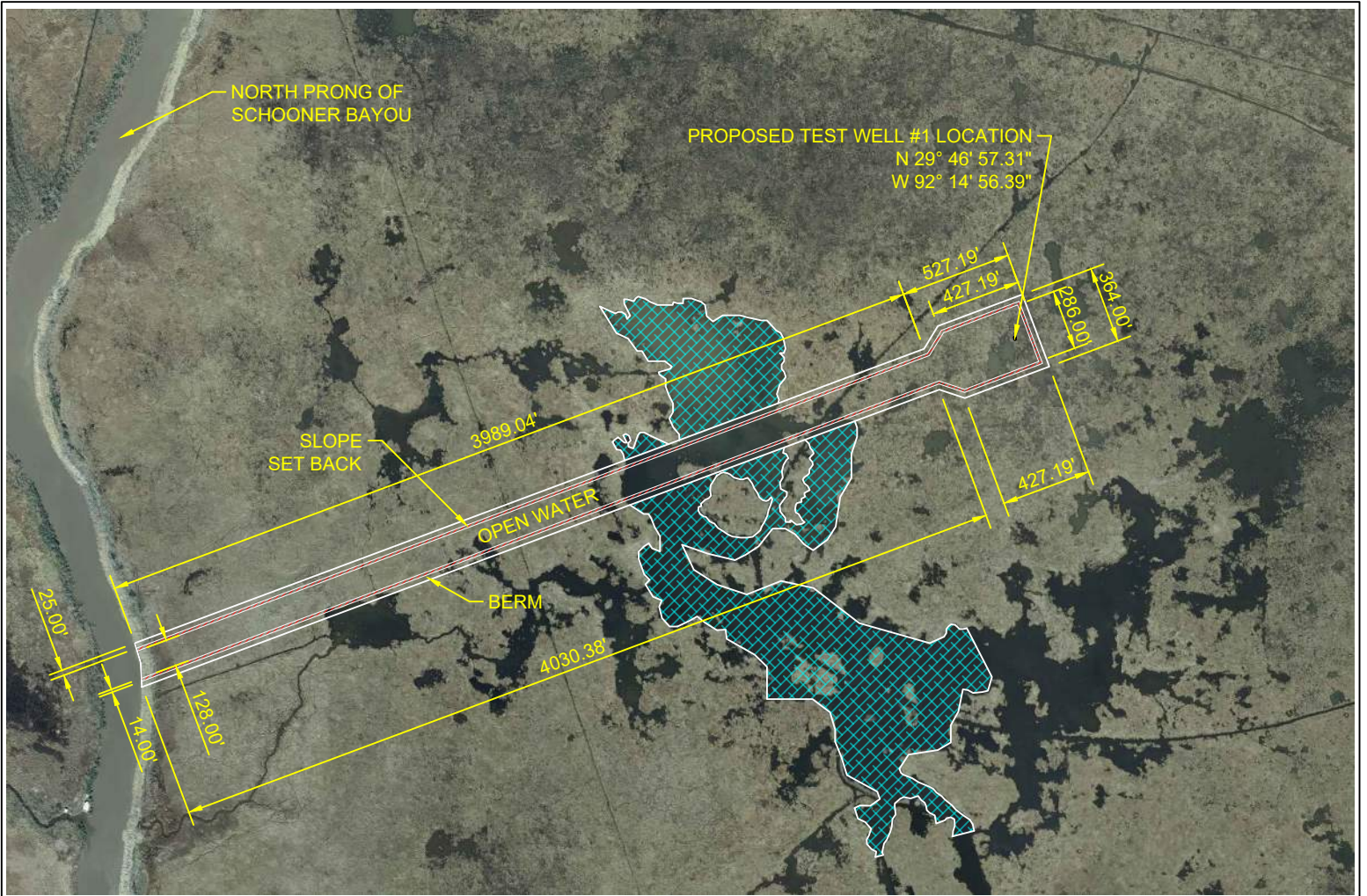
PROJECT NO. 22-1944  
PECAN ISLAND AREA TEST WELLS  
JPA REVISION 1  
01/09/2023

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**3a of 19**



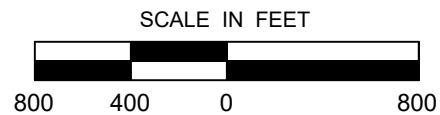


BUDM AREA  
38.4 ACRES\_207,041 CY

**PRELIMINARY**  
FOR PERMIT PURPOSES ONLY

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

**PROPOSED  
POST-CONSTRUCTION SITE  
PLAN FOR TEST WELL #1**



**DDG**  
314 EAST BAYOU ROAD | THIBODAUX, LA.  
985.447.0090

**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

**PRELIMINARY  
FOR PERMIT  
PURPOSES ONLY**

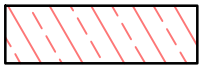
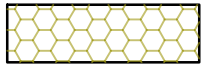


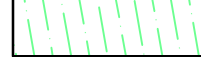
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JPA REVISION 1  
01/09/2023

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SHEET

**3b of 19**



-  FILL MARSH  
0.7 ACRES\_6,533.0 CY
-  FILL UPLANDS  
0 ACRES\_0.0 CY
-  EXCAVATED MARSH  
1.9 ACRES\_29,231.0 CY
-  EXCAVATED WATERBOTTOMS  
2.6 ACRES\_29,282.2 CY
-  EXCAVATED UPLANDS  
1.1 ACRES\_22,210.4 CY

\*BALANCE OF EXCAVATED MATERIAL WILL BE HAULED OFF-SITE (73,961.19 CY)  
 \*WOODY DEBRIS WILL BE DISPOSED OF OFF-SITE

**PRELIMINARY**  
**FOR PERMIT PURPOSES ONLY**

Kainen T. LeBlanc  
 LA PE #34314  
 Duplantis Design Group, P.C.

**TEST WELL #2**  
**SITE PLAN**

SCALE IN FEET



**PERMIT SET**  
 VERMILION PARISH, LOUISIANA  
 FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

**PRELIMINARY**  
**FOR PERMIT**  
**PURPOSES ONLY**

PROJECT NO. 22-1944  
 PECAN ISLAND AREA TEST WELLS  
 JPA REVISION 1  
 01/09/2023

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**4a of 19**

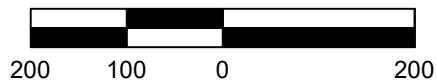


**PRELIMINARY**  
FOR PERMIT PURPOSES ONLY

**PROPOSED  
POST-CONSTRUCTION SITE  
PLAN FOR TEST WELL #2**

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

SCALE IN FEET



**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

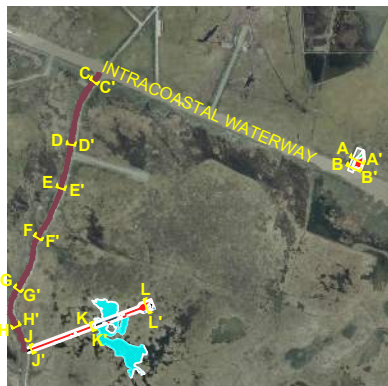
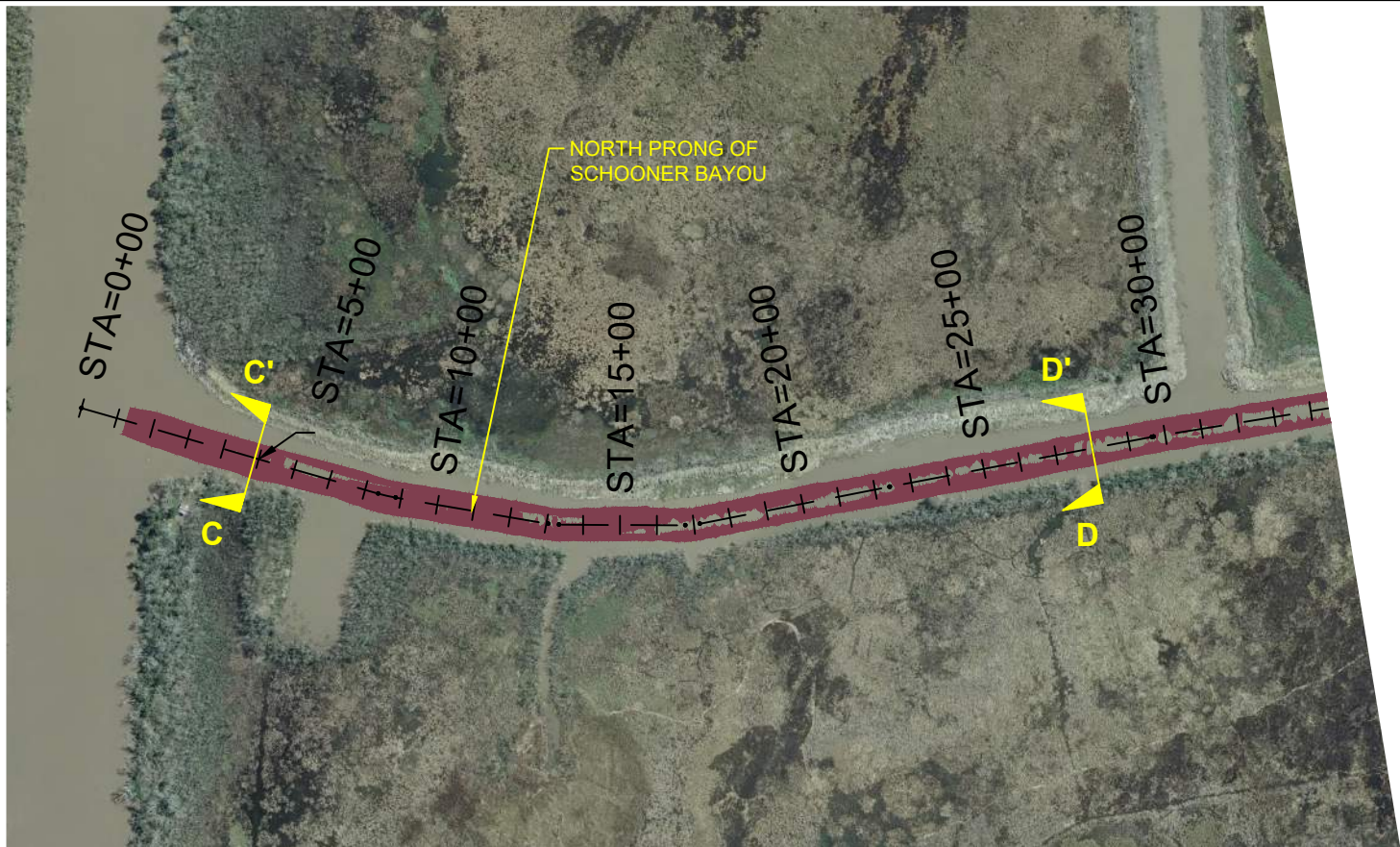
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PROJECT NO. 22-1944  
PECAN ISLAND AREA TEST WELLS  
JPA REVISION 1  
01/09/2023

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**4b of 19**



**OVERALL SITE VIEW**  
SCALE: 1" = 6,500'

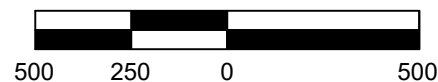
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Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

**SCHOONER  
BAYOU**

**DREDGING PLAN**

SCALE IN FEET



EXCAVATED WATERBOTTOMS  
6.54 ACRES\_6,437.26 CY

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-6.147	0.000	

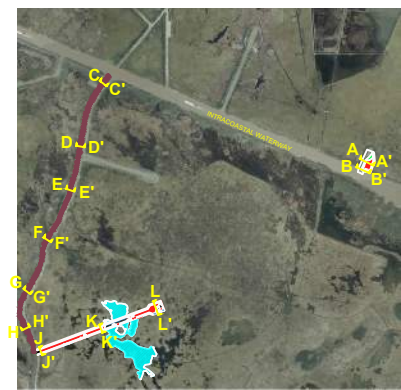
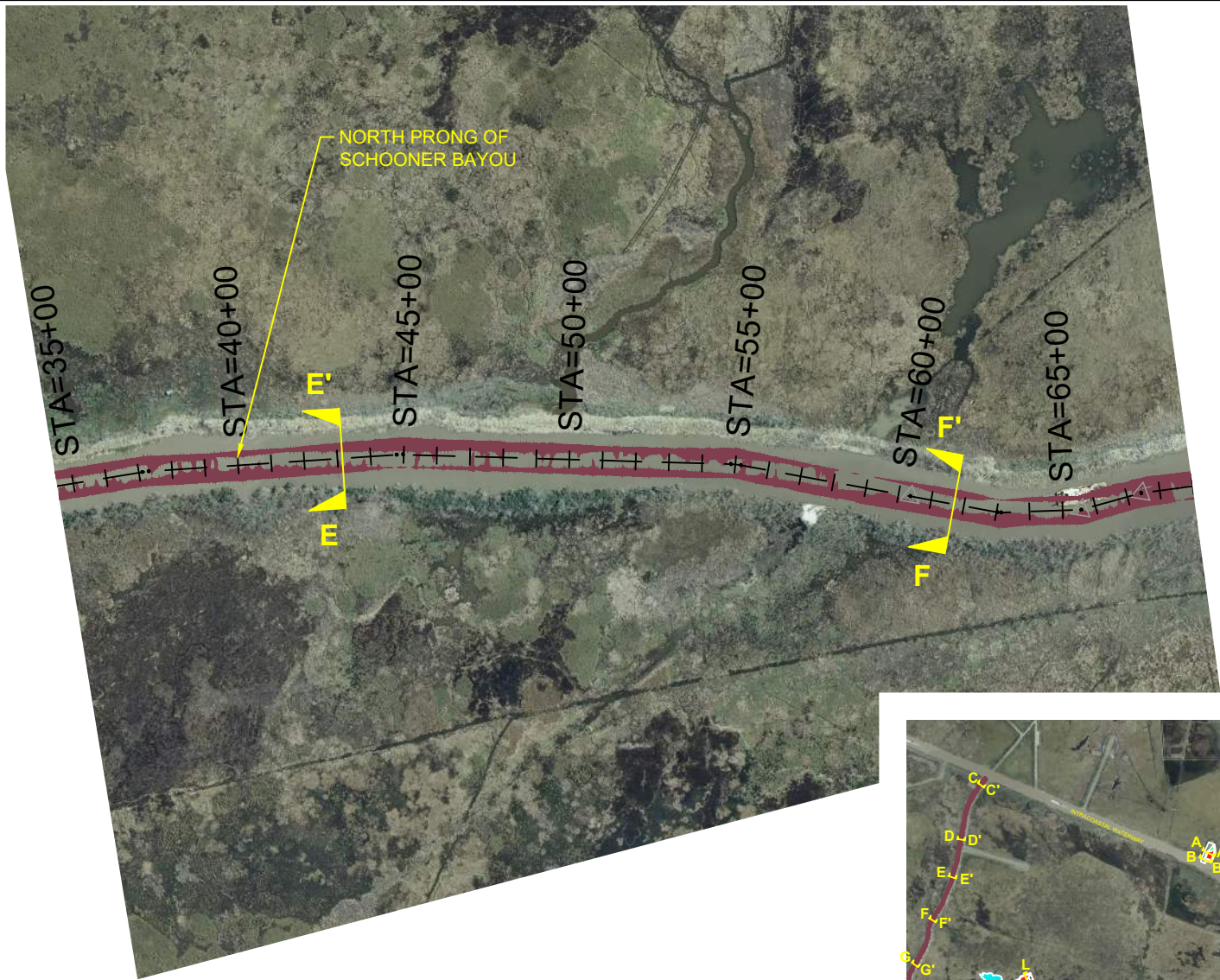
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**PERMIT SET**  
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**5 of 19**



**OVERALL SITE VIEW**

SCALE: 1" = 6,500'



EXCAVATED WATERBOTTOMS  
6.71 ACRES\_5,858.84 CY

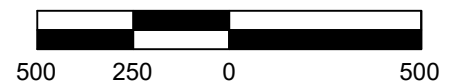
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Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.



**SCHOONER  
BAYOU  
DREDGING PLAN**

SCALE IN FEET



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-6.147	0.000	

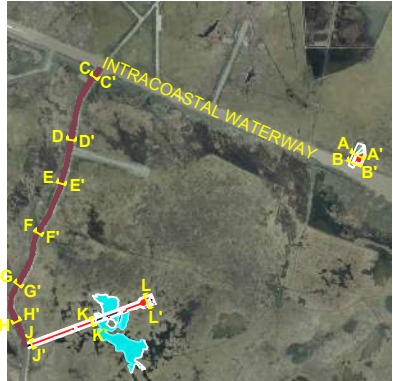
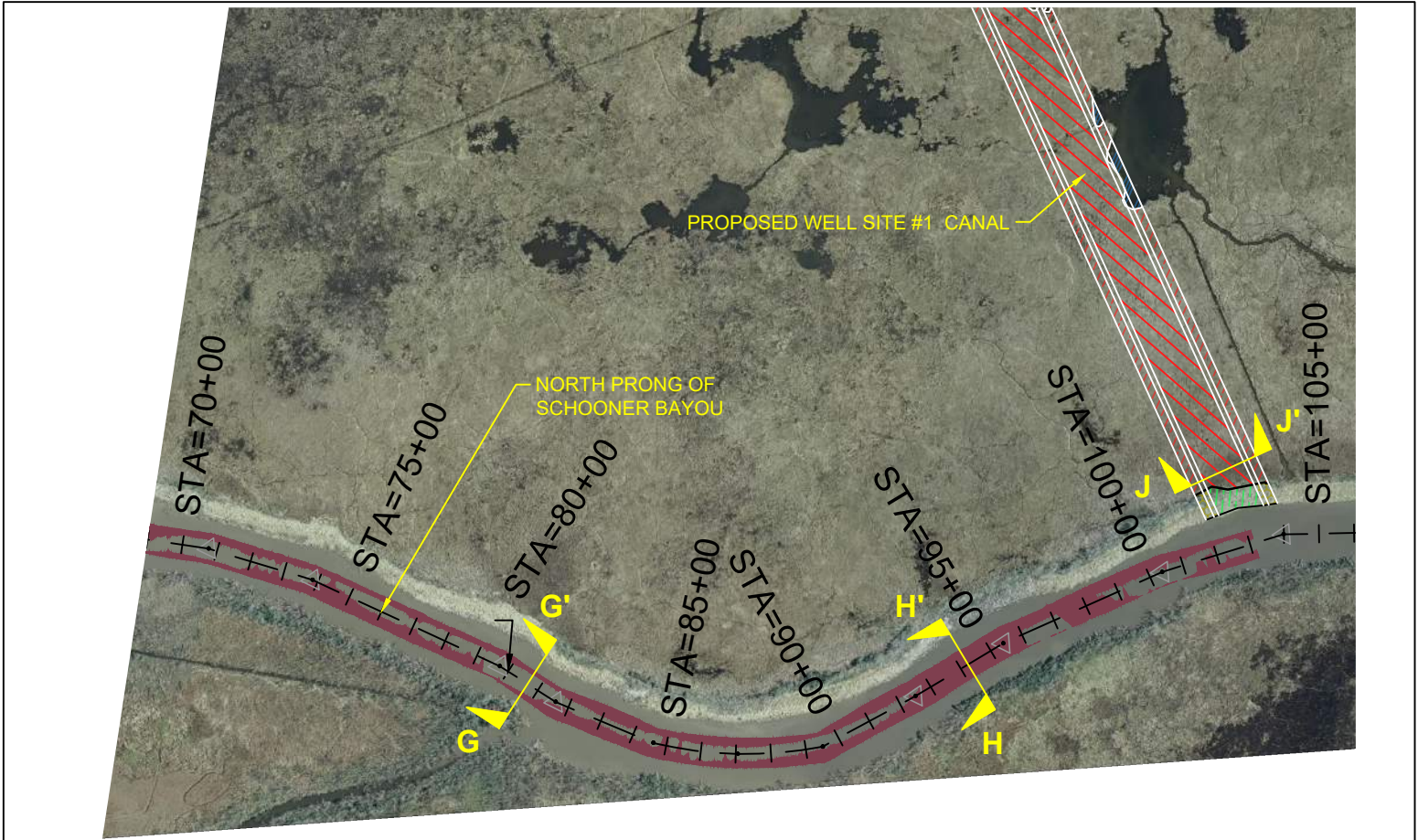


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**6 of 19**



**OVERALL SITE VIEW**  
SCALE: 1" = 6,500'

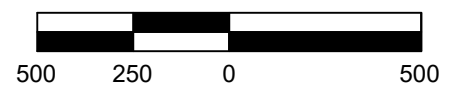
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LA PE #34314  
Duplantis Design Group, P.C.




**SCHOONER  
BAYOU  
DREDGING PLAN**

SCALE IN FEET



 EXCAVATED WATERBOTTOMS  
6.61 ACRES\_11,120.30 CY

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
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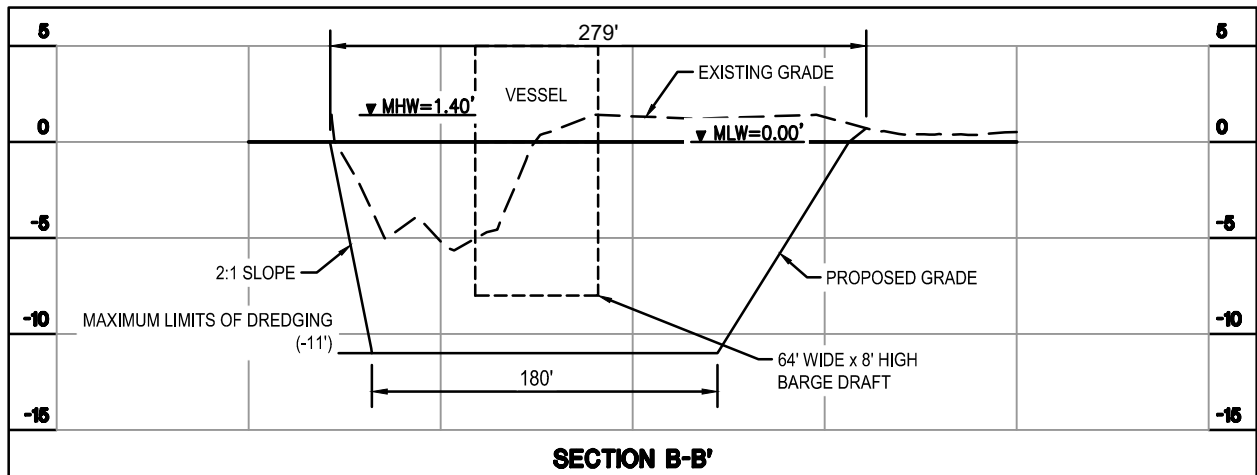
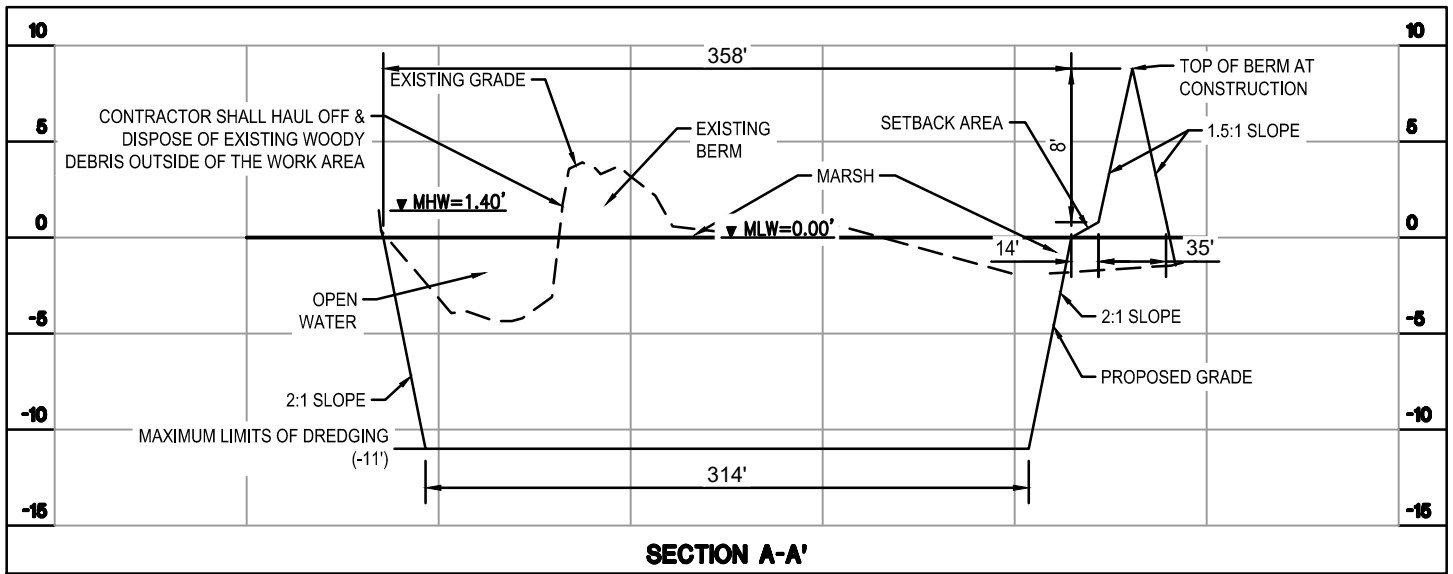
**DDG**  
314 EAST BAYOU ROAD | THIBODAUX, LA.  
985.447.0090

**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
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**7 of 19**

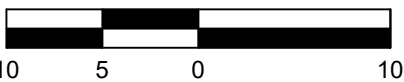


**NOTES:**

1. THE DREDGING TEMPLATE IS 2' BELOW MAX VESSEL DRAFT TO ALLOW FOR TRANSIT OF TUGS AND DRILL BARGE AT LOW TIDE WITH A 1' OF DREDGE OVER DEPTH.
2. MHW & MLW ARE PROVIDED IN NAVD 88.
3. THE MHW & MLW ELEVATION PROVIDED IS BASED ON HOBO DATA LOGGERS INSTALLED WITHIN THE PROJECT FOOTPRINT AREA.
4. WATER LEVEL DATA IS ACTIVELY BEING COLLECTED AND DATA MAY BE REVISED BASED ON THE DATA PROVIDED.

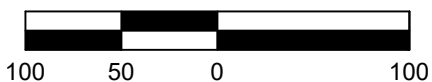
**VERTICAL**

SCALE IN FEET



**HORIZONTAL**

SCALE IN FEET



**PRELIMINARY**  
**FOR PERMIT PURPOSES ONLY**

**PROJECT**  
**CROSS**  
**SECTIONS**

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.

\* SECTION LOCATION  
DENOTED ON SHEET 2

**DDG**  
314 EAST BAYOU ROAD | THIBODAUX, LA.  
985.447.0090

**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
FOR ExxonMobil Low Carbon Solutions Onshore Storage, LLC

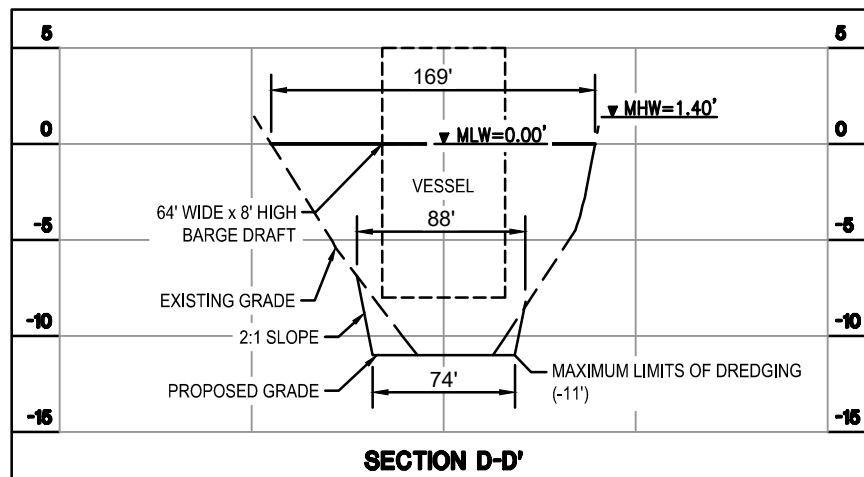
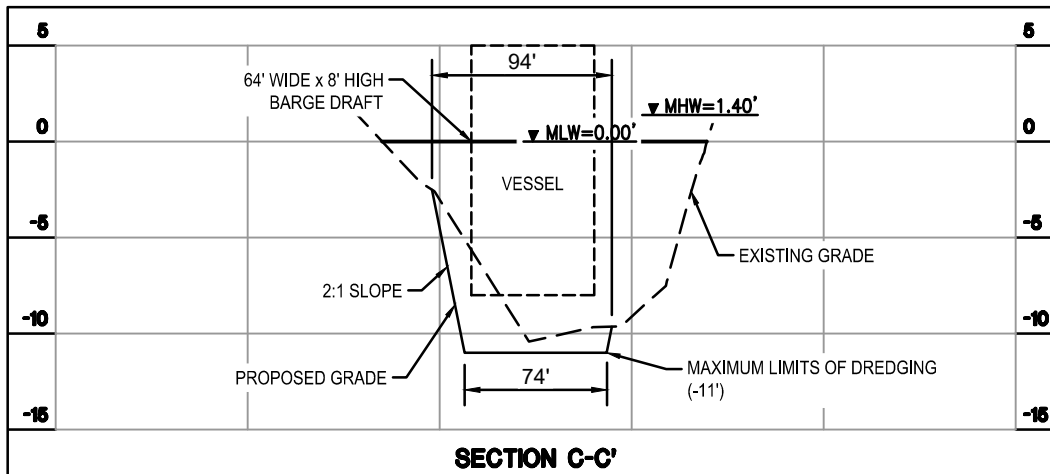
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PROJECT NO. 22-1944  
PECAN ISLAND AREA TEST WELLS  
JPA REVISION 1  
01/09/2023

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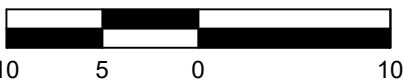


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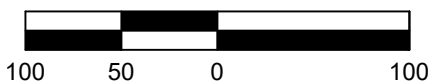
**VERTICAL**

SCALE IN FEET



**HORIZONTAL**

SCALE IN FEET



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FOR PERMIT PURPOSES ONLY

**PROJECT**  
**CROSS**  
**SECTIONS**

\* SECTION LOCATION DENOTED ON SHEET 2

Kainen T. LeBlanc  
LA PE #34314  
Duplantis Design Group, P.C.



**PERMIT SET**  
VERMILION PARISH, LOUISIANA  
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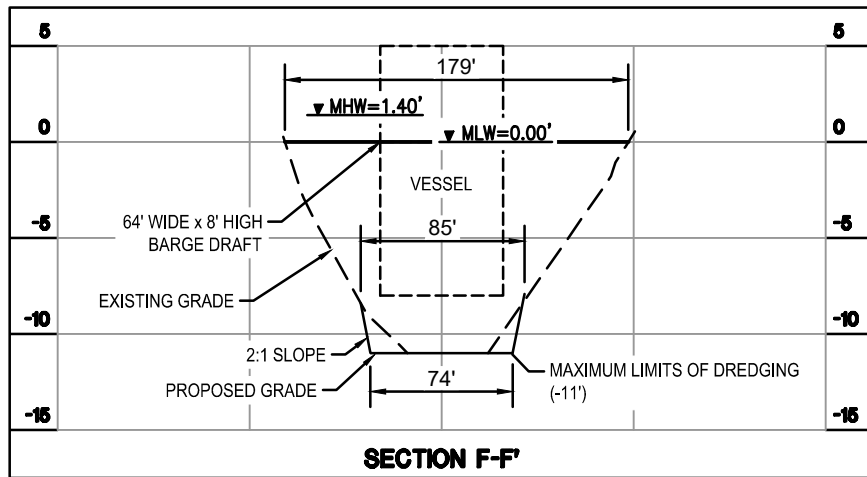
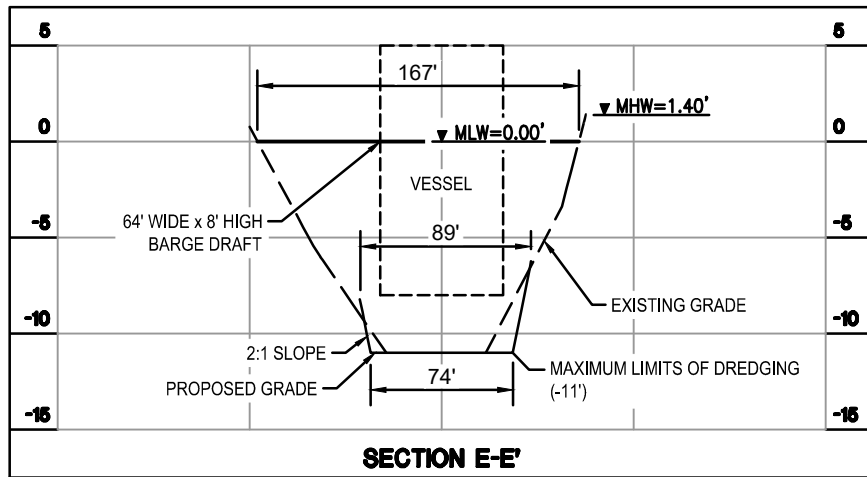
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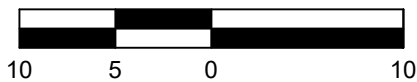


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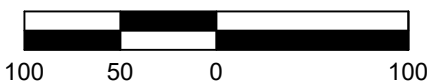
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**DDG**  
314 EAST BAYOU ROAD | THIBODAUX, LA.  
985.447.0090

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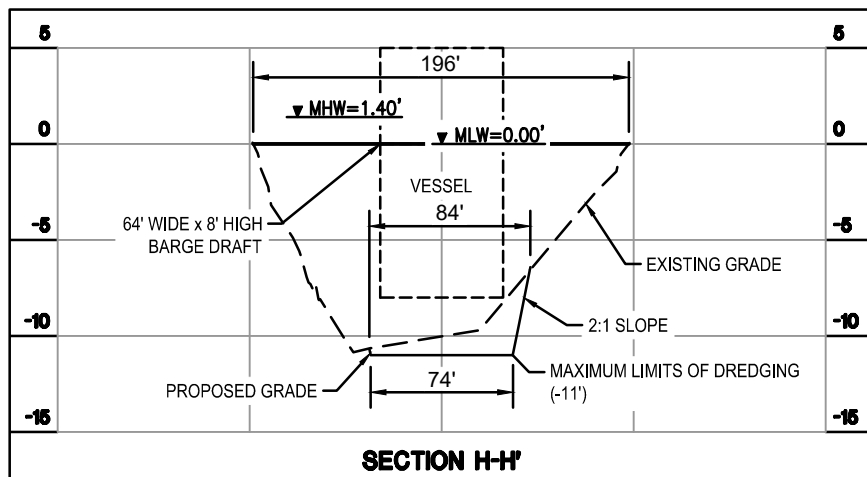
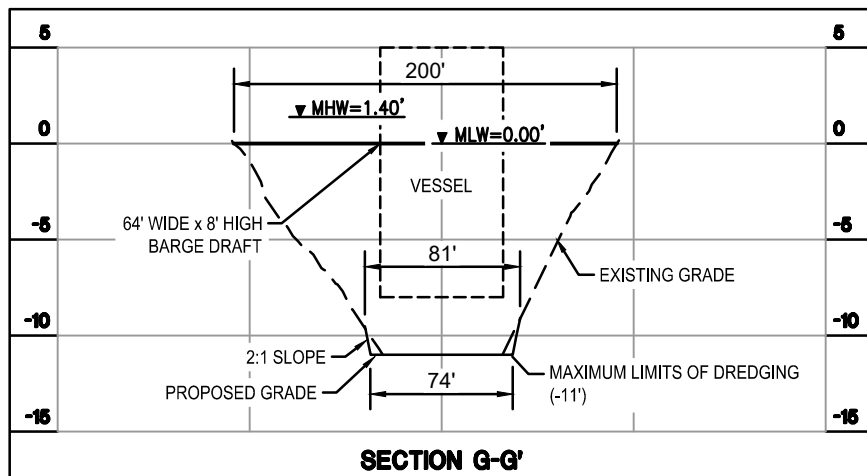
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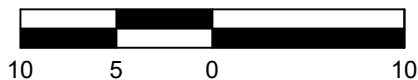


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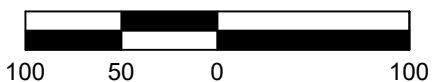
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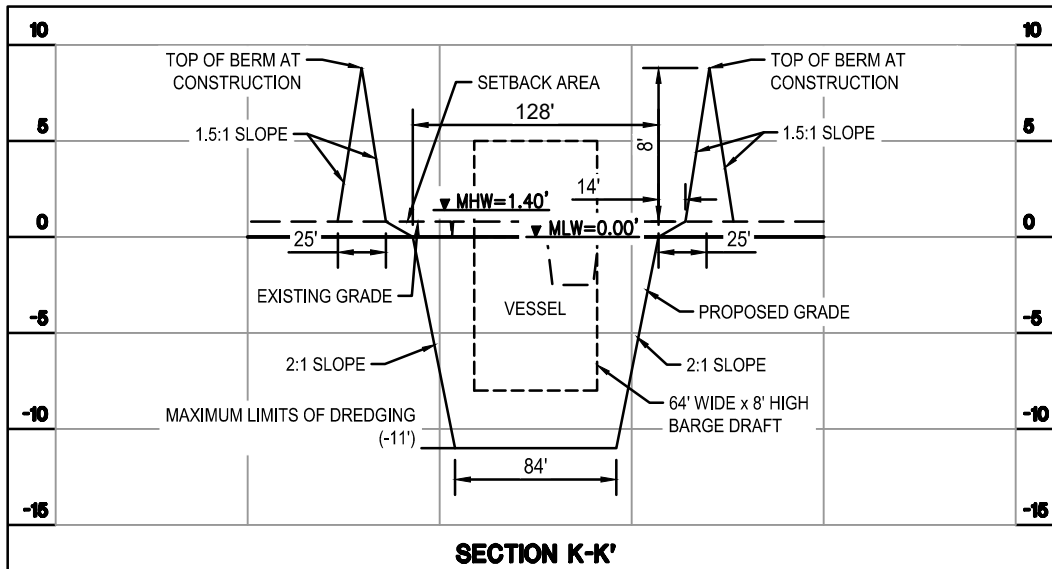
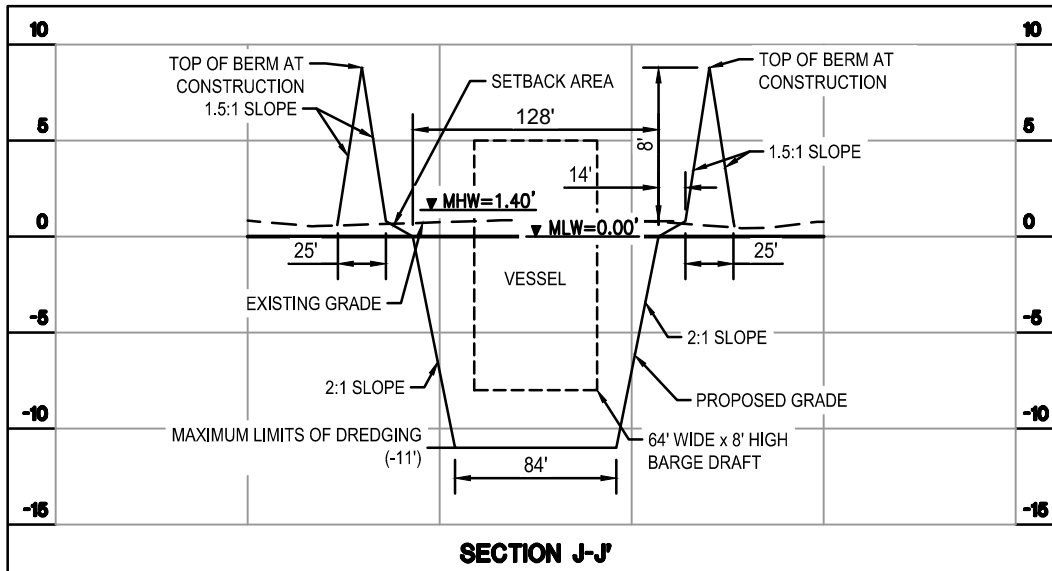
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**VERTICAL**

SCALE IN FEET



10 5 0 10

**HORIZONTAL**

SCALE IN FEET



100 50 0 100

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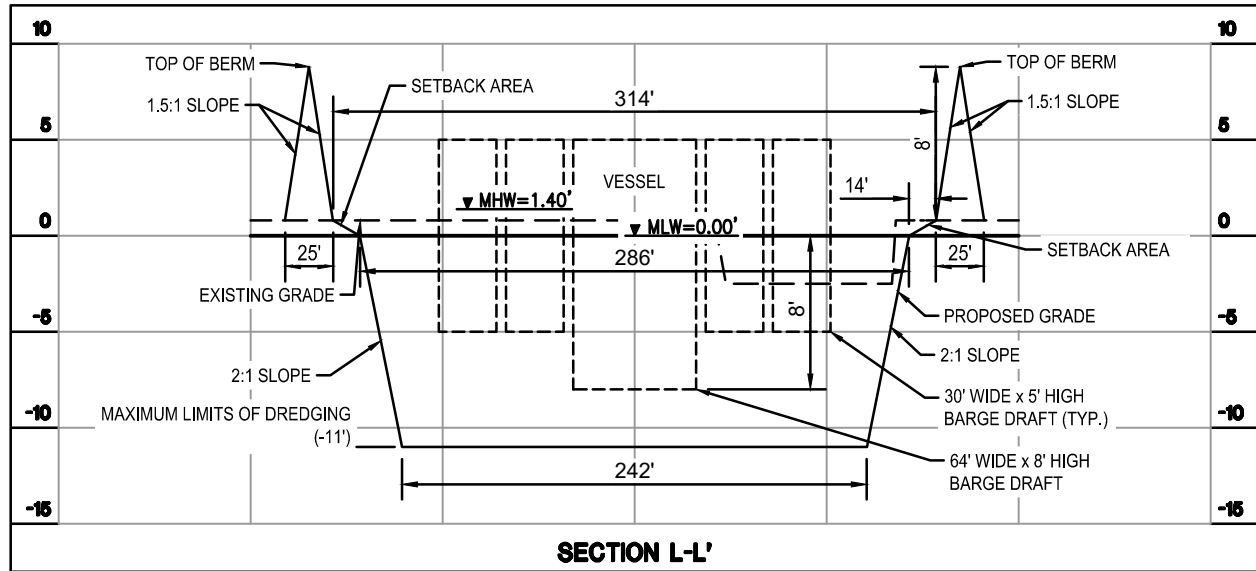
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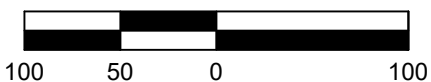
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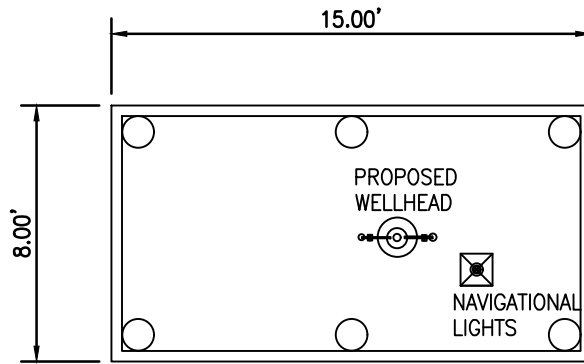
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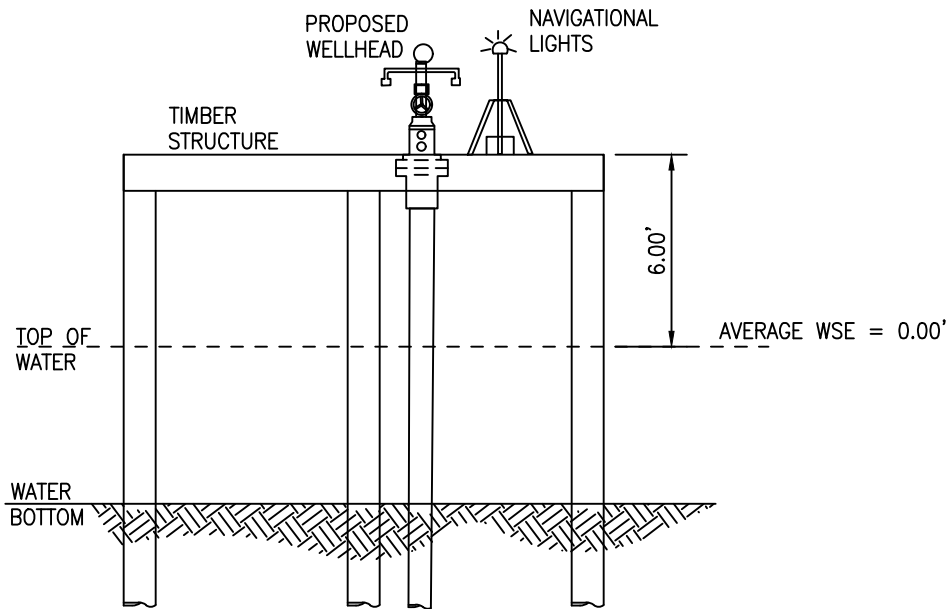
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**WELLHEAD PLATFORM PLAN**

SCALE: N.T.S.



**WELLHEAD PLATFORM ELEVATION**

SCALE: N.T.S.

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**PLATFORM**  
**DETAIL**

Kainen T. LeBlanc  
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