



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

January 17, 2023

Regulatory Division
Central Evaluation Branch

Project Manager
S. Gail Gainey
(504) 862-1545
Sandra.g.gainey@usace.army.mil

Application #: MVN-2019-00403-CG

PUBLIC NOTICE

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

DREDGE A SLIP ON BELLE PASS OF BAYOU LAFOURCHE IN LAFOURCHE PARISH

NAME OF APPLICANT: Greater Lafourche Port Commission c/o Mohan Menon of GIS Engineering, LLC., 450 Laurel Street, STE 1500, Baton Rouge, LA 70801.

LOCATION OF WORK: In Belle Pass, Sections 22, 24, 25, 26, and 28, Township 23S, Range 22E, just south of Port Fourchon, Louisiana, in Lafourche Parish, within the Terrebonne Basin in hydrologic unit (HUC 08090301), as shown on the attached drawings (Latitude 29.103333 N, Longitude -90.206667 W).

CHARACTER OF WORK: The applicant has requested Department of the Army authorization to clear, grade, excavate, and deposit fill and dredged material to construct and maintain a slip on Fourchon Island for the Fourchon Island Development Project (Phase 1) to include a 1,480-foot wide slip at a 2,600-foot depth, an 8,227 LF bulkhead, approx. 15.7 acres of containment levees, access roadways including a 1,590 linear-foot bridge spanning a private canal, and proposed beneficial spoil placement with appurtenant discharge pipeline. Approximately 5,017,657.9 cubic yards would be dredged to create the slip, of which approx. 2,476,770.3 cubic yards will be used as fill material in approx. 198.1 acres around the slip for development of the port facility, approx. 169,972.9 cubic yards will be redistributed to backfill borrow ditches for the containment levees, and the remainder will be deposited in adjacent open waters to create saline marsh habitat. Approx. 6,219.2 cubic yards of riprap will be utilized for the bridge and erosion control, and approx. 14,600 cubic yards earthen fill from off-site, approx. 50,300 cubic yards of crushed limestone, and 9,000 additional cubic yards of asphalt will be deposited for the roadways. A Preliminary analysis has determined that the proposed

project would directly impact approx. 875.3 acres of jurisdictional wetlands and waters including approx. 4.14 acres of traditionally navigable waters for marine workspaces.

MITIGATION: The applicant has designed the project to avoid and minimize direct and secondary adverse impacts by maximizing the dredge disposal pipeline's corridor placement in open water as opposed to atop wetlands wherever possible and by designing retention berms to hold redeposited fill material in place to prevent erosion and sediment transport. Any further reduction would limit usage of the property and therefore, function, deeming the project impracticable. As compensation for unavoidable wetland impacts, the applicant proposes to utilize dredged material from the excavation of the slip to convert approx. 514 acres of open water to marsh wetlands in four designated mitigation areas. Approximately 22,812 linear feet of discharge pipe will temporarily impact approx. 26.18 acres of wetlands and waterbottoms in order to transport the dredge material to the mitigation areas and a total of approx. 11.6 acres of containment levees will be constructed for the marsh mitigation areas.

The comment period for the Department of Army will close in **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 must be mailed 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 preferably emailed to the Corps of Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGC, S. Gail Gainey**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request 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 requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and inclusive of the initial comment period, 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 Section 10/404 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.

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. Further, all factors that may be relevant to the proposal will be considered, including the potential cumulative effects associated with the proposed project.

The New Orleans District utilizes the National Register of Historic Places to identify properties listed on or near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. However, extent of coverage and impacts is undetermined at this time pending a National Historic Preservation Act compliance determination. Copies of this notice are made available to the State Archeologist and the State Historic Preservation Officer.

The New Orleans District has determined that the proposed project is located in an area known to be utilized by the Eastern Black Rail, Green Sea Turtle, Hawksbill Sea Turtle, Kemp's Ridley Sea Turtle, Leatherback Sea Turtle, Loggerhead Sea Turtle, Piping Plover, Red Knot, Giant Manta Ray, and West Indian Manatee. Utilizing the Information & Planning Consultation for Endangered Species in Louisiana protocol, dated January 27, 2020 between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has determined the project not likely to adversely affect the West Indian Manatee as the Standard Manatee Conditions for In-Water Activities will be included as permit conditions. However, the other species above may be affected by the project and methods to avoid or minimize potential adverse effects to those species is being coordinated with the Louisiana Ecological Services Office and/or NOAA Fisheries Southeast Region.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of 875.3 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 Department of Environmental Quality, Office of Environmental Services, before a permit is issued.

Any person may request, in writing, 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. You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

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 Coastal Resources Program (Louisiana Coastal Zone Application P20200067). The Department of the Army permit will not be

issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

John M. Herman
Chief, Central Evaluation Branch
Regulatory Division

Enclosures

LAFOURCHE PARISH, LOUISIANA

THE PROPOSED PROJECT IS LOCATED APPROXIMATELY 22.5 MILES SOUTH OF THE TOWN OF GOLDEN MEADOW.



Project Location

VICINITY MAP
SCALE: N.T.S.

PROJECT LOCATION



ENGINEERING LLC
Coastal Design & Infrastructure
197 Elysian Drive
Houma, LA 70363
O: (985) 219-1000 | F: (985) 475-7014
ENGINEERING • PLANNING • ENVIRONMENTAL CONSULTING

REVISIONS		
No.	Description	Date

PERMITTING ONLY

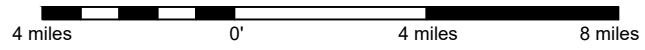
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**GREATER LAFOURCHE PORT COMMISSION
PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

**PHASE I
VICINITY**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



HORIZONTAL SCALE

M:\Department_39\Client\G&S-Port_Fourchon\1182_Geol Engr_Sun & Cona\1182-0801 - Fourchon Island Permit\Permit_Drawing\Folder\Permit_Drawing\Port Comments from Boyce\1 - Project_Vicinity - post_comments.dwg

LAFORCHE PARISH, LOUISIANA

THE PROPOSED PROJECT IS LOCATED APPROXIMATELY 22.5 MILES SOUTH OF THE TOWN OF GOLDEN MEADOW.



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REVISIONS

No.	Description	Date
1	ADD DREDGE PIPE	12/15/22

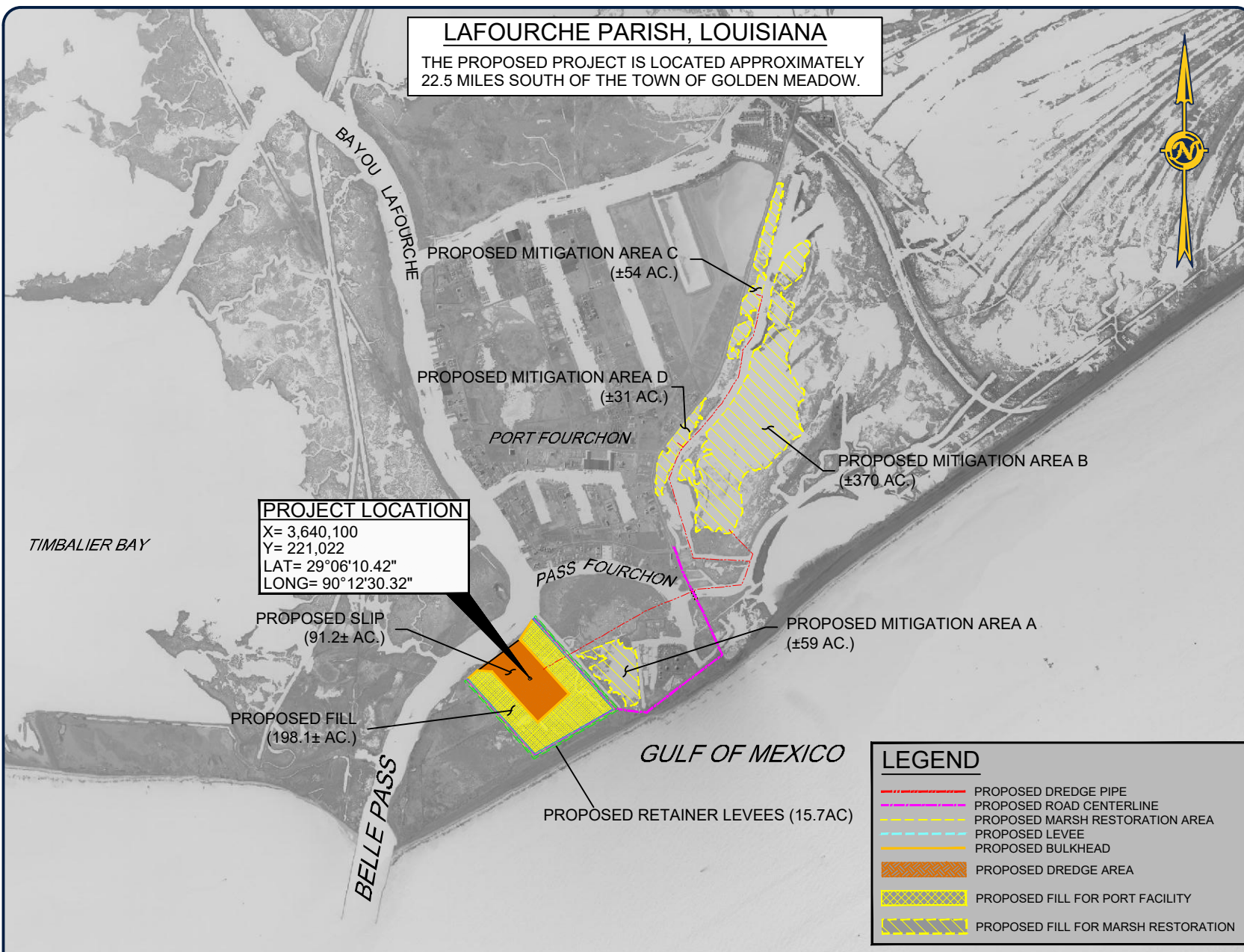
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**GREATER LAFORCHE PORT COMMISSION
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PHASE I PROJECT OVERVIEW

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BELLE PASS

PROPOSED SLIP
DREDGE TO ELEV. -30.0'
WITH 3' ADVANCED
MAINTENANCE DREDGING
(91.2± AC.)

PROPOSED FILL
TO ELEV. +9.0'
(SETTLED ELEV. +8.0')
(198.1± AC.)
(INCL. BORROW DITCH)

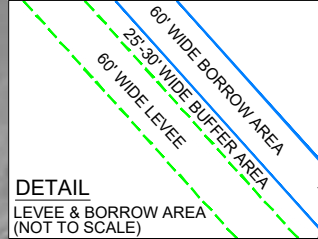
PROPOSED BULKHEAD
(±8,227 LIN. FT.)

16" DISCHARGE PIPE
(10,022± TOTAL LENGTH)
50' WORKSPACE

PROPOSED MITIGATION AREA A
FILL TO +2.1'
(SETTLED ELEV. +0.6')
(±59 AC.)

87' OF CONTAINMENT BERM
AND BORROW DITCH

PROPOSED RETAINER LEVEES (15.7AC)



SLIP & FILL SITE EXPECTED IMPACTS:
 AREA OF DREDGED SLIP: 91.2 ACRES
 VOLUME OF DREDGE MATERIAL: 5,017,657.9 CU. YDS.
 AREA OF FILL SITE BORROW DITCHES: 15.2 ACRES
 VOLUME EXCAVATED FROM BORROW DITCHES: 116,169 CU. YDS.
 AREA OF FILL SITE CONTAINMENT BERMS: 15.7 ACRES
 VOLUME OF FILL SITE CONTAINMENT BERMS: 116,169 CU. YDS.
 AREA OF FILL SITE (NOT INC. BERMS): 198.1 ACRES
 VOLUME OF FILL SITE (NOT INCL. BERMS): 2,476,770.3 CU. YDS.
 TOTAL LENGTH OF BULKHEAD: 8,227'

MITIGATION AREA "A" EXPECTED IMPACTS:
 AREA OF MITIGATION AREA "A": 59 ACRES
 VOLUME OF MITIGATION AREA "A": 273,076.4 CU. YDS.
 MITIGATION AREA "A" CONTAINMENT BERM: 0.1 ACRES
 MITIGATION AREA "A" BERM VOLUME: 637.7 CU. YDS.
 MITIGATION AREA "A" BERM BORROW DITCH: 0.1 ACRES
 MITIGATION AREA "A" BORROW DITCH VOLUME: 637.7 CU. YDS.

LEGEND

- PROPOSED DREDGE PIPE
- PROPOSED ROAD CENTERLINE
- PROPOSED MARSH RESTORATION AREA
- PROPOSED MARSH FILL CONTAINMENT BERM
- PROPOSED LEVEE
- PROPOSED BORROW DITCH
- PROPOSED BULKHEAD
- PROPOSED DREDGE AREA
- PROPOSED FILL FOR PORT FACILITY
- PROPOSED FILL FOR MARSH RESTORATION

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



ENGINEERING LLC

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 Houma, LA 70363
 O: (985) 219-1000 | F: (985) 475-7014
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REVISIONS

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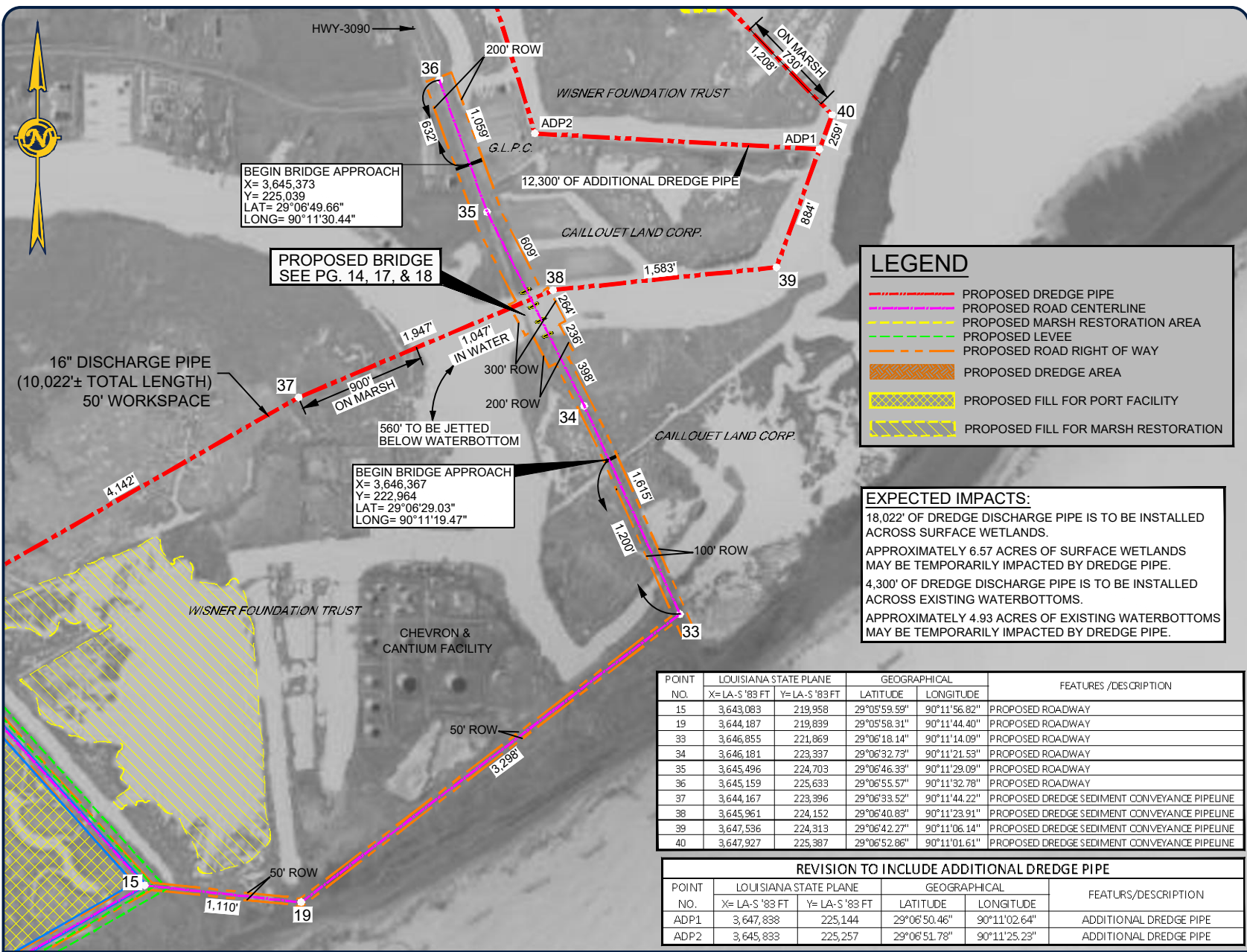
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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

**PHASE I
 PROPOSED SLIP, FILL LEVEE, ROAD, & MARSH RESTORATION**

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ADP1= ADDITIONAL DREDGE PIPE



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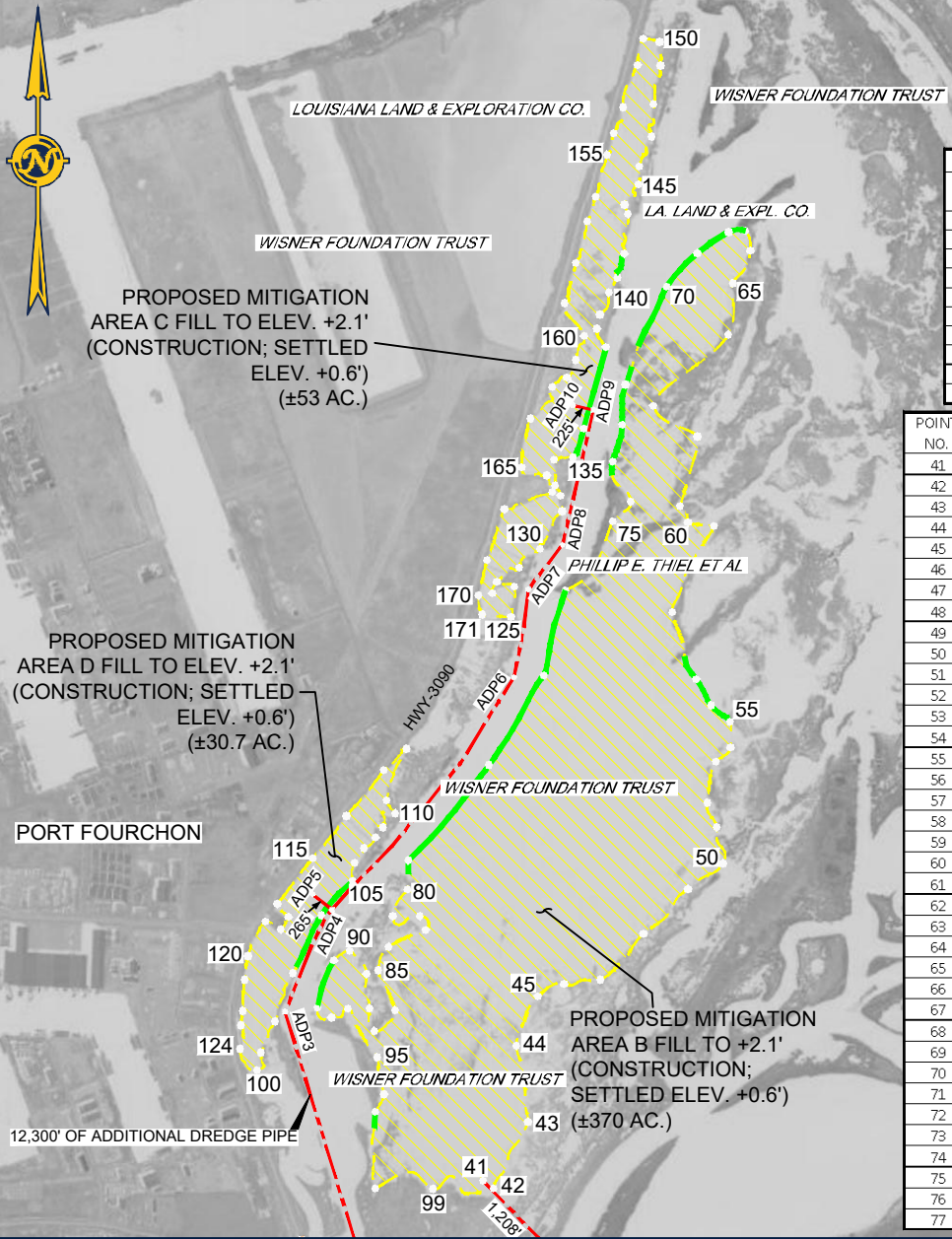
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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

**PHASE I
 PROPOSED ROAD & DREDGE PIPE ROUTE**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

M:\Department_39\Client\GIS-Port_Fourche\1162_Genl_Engr_Surv_of_Coast\1162-0601 - Fourche Island Permit\Permit Working Folder\Permit Drawings\Post Comments from Bayou_S-Roadway- post comments.dwg



EXPECTED IMPACTS:
 TOTAL AREA OF MITIGATION AREA "B": 370 ACRES
 TOTAL VOLUME OF MITIGATION AREA "B": 1,724,484.1 CU. YDS.
 TOTAL AREA OF MITIGATION AREA "C": 54 ACRES
 TOTAL VOLUME OF MITIGATION AREA "C": 237,035.8 CU. YDS.
 TOTAL AREA OF MITIGATION AREA "D": 31 ACRES
 TOTAL VOLUME OF MITIGATION AREA "D": 136,318.4 CU. YDS.

REVISION TO INCLUDE ADDITIONAL DREDGE PIPE

POINT NO.	LOUISIANA STATE PLANE		GEOGRAPHICAL		FEATURES/DESCRIPTION
	X=LA-S '83 FT	Y=LA-S '83 FT	LATITUDE	LONGITUDE	
ADP1	3,647,838	225,144	29°06'50.46"	90°11'02.64"	ADDITIONAL DREDGE PIPE
ADP2	3,645,833	225,257	29°06'51.78"	90°11'25.23"	ADDITIONAL DREDGE PIPE
ADP3	3,644,982	228,052	29°07'19.53"	90°11'34.51"	ADDITIONAL DREDGE PIPE
ADP4	3,645,483	229,138	29°07'30.23"	90°11'28.74"	ADDITIONAL DREDGE PIPE
ADP5	3,645,276	229,304	29°07'31.90"	90°11'31.06"	ADDITIONAL DREDGE PIPE
ADP6	3,647,418	231,611	29°07'54.52"	90°11'06.64"	ADDITIONAL DREDGE PIPE
ADP7	3,647,570	232,548	29°08'03.78"	90°11'04.82"	ADDITIONAL DREDGE PIPE
ADP8	3,647,936	233,021	29°08'08.43"	90°11'00.65"	ADDITIONAL DREDGE PIPE
ADP9	3,648,265	234,457	29°08'22.61"	90°10'56.78"	ADDITIONAL DREDGE PIPE
ADP10	3,648,048	234,507	29°08'23.12"	90°10'53.22"	ADDITIONAL DREDGE PIPE

POINT NO.	LOUISIANA STATE PLANE		GEOGRAPHICAL		FEATURES/DESCRIPTION
	X=LA-S '83 FT	Y=LA-S '83 FT	LATITUDE	LONGITUDE	
41	3,647,088	226,256	29°07'01.54"	90°11'10.98"	DREDGE SEDIMENT CONVEYANCE PIPE
42	3,647,199	226,170	29°07'00.69"	90°11'09.73"	PROPOSED MITIGATION AREA
43	3,647,568	226,881	29°07'07.68"	90°11'05.48"	PROPOSED MITIGATION AREA
44	3,647,444	227,690	29°07'15.70"	90°11'06.80"	PROPOSED MITIGATION AREA
45	3,647,671	228,219	29°07'20.92"	90°11'04.18"	PROPOSED MITIGATION AREA
46	3,647,952	228,347	29°07'22.16"	90°11'01.00"	PROPOSED MITIGATION AREA
47	3,648,337	228,392	29°07'22.57"	90°10'56.64"	PROPOSED MITIGATION AREA
48	3,648,798	228,882	29°07'27.37"	90°10'51.39"	PROPOSED MITIGATION AREA
49	3,649,270	229,358	29°07'32.04"	90°10'46.02"	PROPOSED MITIGATION AREA
50	3,649,644	229,630	29°07'34.69"	90°10'41.77"	PROPOSED MITIGATION AREA
51	3,649,578	230,017	29°07'38.53"	90°10'42.47"	PROPOSED MITIGATION AREA
52	3,649,475	230,278	29°07'41.12"	90°10'43.60"	PROPOSED MITIGATION AREA
53	3,649,569	230,716	29°07'45.45"	90°10'42.50"	PROPOSED MITIGATION AREA
54	3,649,724	230,864	29°07'46.90"	90°10'40.73"	PROPOSED MITIGATION AREA
55	3,649,719	231,140	29°07'49.63"	90°10'40.76"	PROPOSED MITIGATION AREA
56	3,649,516	231,313	29°07'51.36"	90°10'43.02"	PROPOSED MITIGATION AREA
57	3,649,360	231,593	29°07'54.15"	90°10'44.76"	PROPOSED MITIGATION AREA
58	3,649,108	232,304	29°08'01.21"	90°10'47.57"	PROPOSED MITIGATION AREA
59	3,649,546	233,225	29°08'10.28"	90°10'42.47"	PROPOSED MITIGATION AREA
60	3,649,271	233,260	29°08'10.66"	90°10'45.56"	PROPOSED MITIGATION AREA
61	3,649,185	233,436	29°08'12.41"	90°10'46.51"	PROPOSED MITIGATION AREA
62	3,649,371	234,174	29°08'19.70"	90°10'44.33"	PROPOSED MITIGATION AREA
63	3,648,900	234,503	29°08'23.00"	90°10'49.61"	PROPOSED MITIGATION AREA
64	3,649,700	235,260	29°08'30.41"	90°10'40.50"	PROPOSED MITIGATION AREA
65	3,649,747	235,807	29°08'35.62"	90°10'39.91"	PROPOSED MITIGATION AREA
66	3,649,934	236,151	29°08'39.21"	90°10'37.76"	PROPOSED MITIGATION AREA
67	3,649,881	236,363	29°08'41.32"	90°10'38.34"	PROPOSED MITIGATION AREA
68	3,649,704	236,349	29°08'41.20"	90°10'40.34"	PROPOSED MITIGATION AREA
69	3,649,371	236,125	29°08'39.02"	90°10'44.11"	PROPOSED MITIGATION AREA
70	3,649,042	235,768	29°08'35.51"	90°10'47.87"	PROPOSED MITIGATION AREA
71	3,648,607	234,727	29°08'25.25"	90°10'52.89"	PROPOSED MITIGATION AREA
72	3,648,571	234,302	29°08'21.05"	90°10'53.34"	PROPOSED MITIGATION AREA
73	3,648,468	233,908	29°08'17.16"	90°10'54.54"	PROPOSED MITIGATION AREA
74	3,648,660	233,481	29°08'12.91"	90°10'52.43"	PROPOSED MITIGATION AREA
75	3,648,468	233,270	29°08'10.84"	90°10'54.61"	PROPOSED MITIGATION AREA
76	3,647,965	232,534	29°08'03.61"	90°11'00.37"	PROPOSED MITIGATION AREA
77	3,647,736	231,633	29°07'54.71"	90°11'08.06"	PROPOSED MITIGATION AREA

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

LEGEND

- PROPOSED TEMP. CONTAINMENT LEVEE
- - - PROPOSED DREDGE PIPE
- - - PROPOSED MARSH RESTORATION AREA
- ▨ PROPOSED FILL FOR MARSH RESTORATION



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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

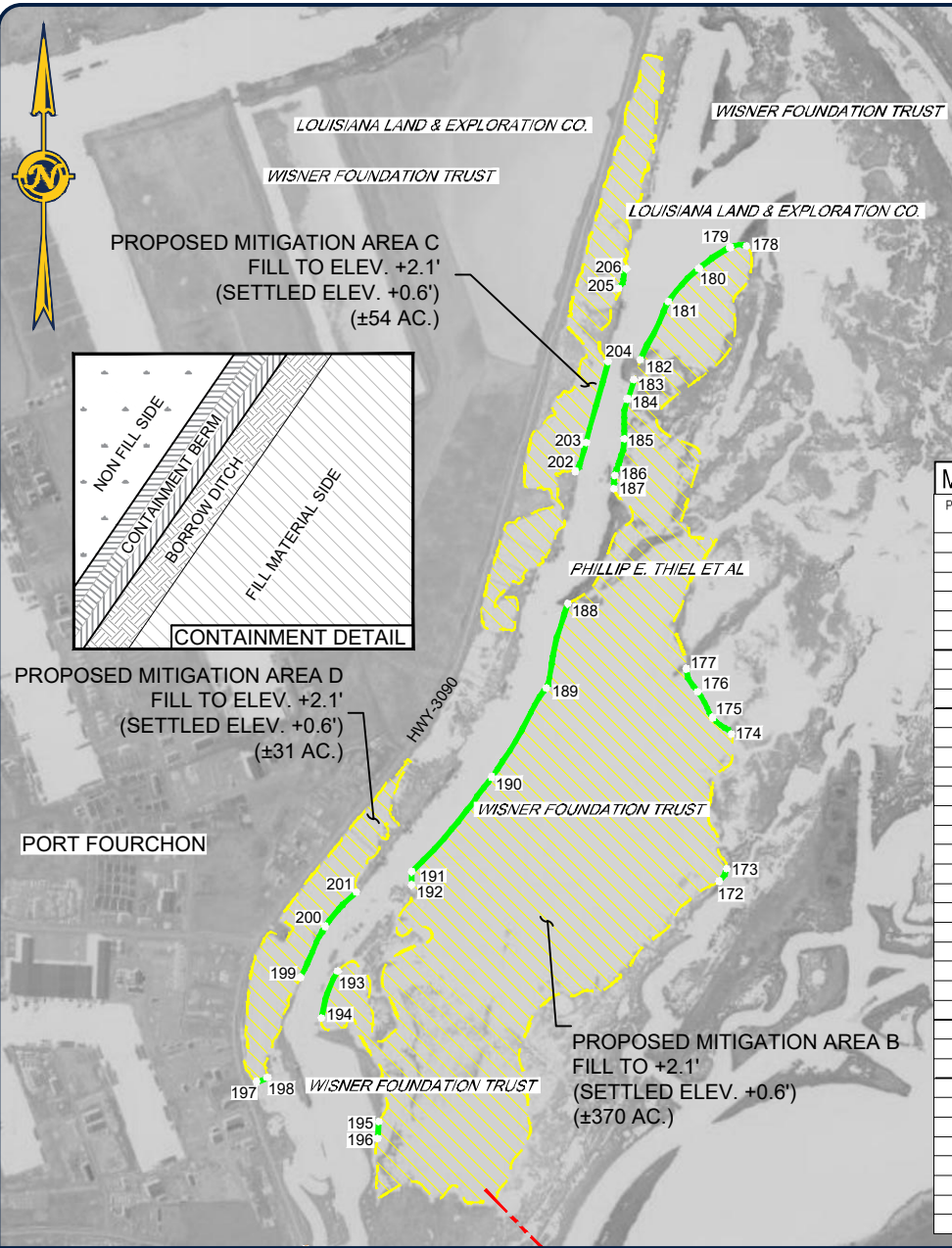
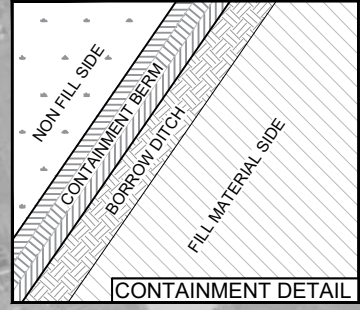
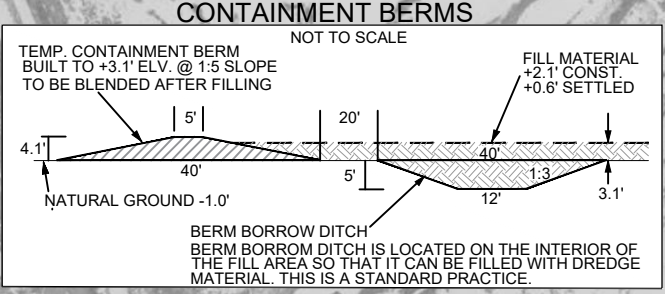
**PHASE I
 PROPOSED
 MITIGATION AREAS**

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Date	November 4, 2022
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Drawn by	J.M.H.
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M:\Department_39\Clients\GIC-Port_Fourchon\1162_Genl_Surv_46_Conva\1162-0601 - Fourchon Island Permit\Permit Working Folder\Permit Drawings\Post Comments from Break 6-7 MOA - post comment.dwg



EXPECTED IMPACTS:
 TOTAL LENGTH OF BERMS: 10,833'
 TOTAL AREA OF BORROW DITCHES: 10 ACRES
 TOTAL VOLUME OF BORROW DITCHES: 51,947.3 CU. YDS.
 TOTAL AREA OF CONTAINMENT BERMS: 11.4 ACRES
 TOTAL VOLUME OF CONTAINMENT BERMS: 51,947.3 CU. YDS.



MITIGATION AREAS B,C,& D TEMPORARY CONTAINMENT BERMS

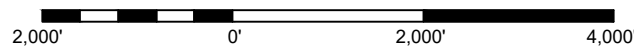
P POINT NO.	LOUISIANA STATE PLANE		GEOGRAPHICAL		FEATURES /DESCRIPTION	SEGMENT LENGTHS
	X=LA-S' 83 FT	Y=LA-S' 83 FT	LATITUDE	LONGITUDE		
172	3,649,591	229,562	29°07'34.02"	90°10'42.38"	TEMP. CONTAINMENT AREA B	183
173	3,649,668	229,696	29°07'35.34"	90°10'41.49"	TEMP. CONTAINMENT AREA B	867
174	3,649,718	231,142	29°07'49.64"	90°10'40.76"	TEMP. CONTAINMENT AREA B	
175	3,649,516	231,313	29°07'51.36"	90°10'43.02"	TEMP. CONTAINMENT AREA B	1,768
176	3,649,360	231,593	29°07'54.15"	90°10'44.76"	TEMP. CONTAINMENT AREA B	
177	3,649,235	231,838	29°07'56.59"	90°10'46.13"	TEMP. CONTAINMENT AREA B	1,185
178	3,649,881	236,363	29°08'41.32"	90°10'38.34"	TEMP. CONTAINMENT AREA B	
179	3,649,704	236,349	29°08'41.20"	90°10'40.34"	TEMP. CONTAINMENT AREA B	3,525
180	3,649,371	236,125	29°08'39.02"	90°10'44.11"	TEMP. CONTAINMENT AREA B	
181	3,649,042	235,768	29°08'35.51"	90°10'47.87"	TEMP. CONTAINMENT AREA B	535
182	3,648,741	235,147	29°08'29.39"	90°10'51.33"	TEMP. CONTAINMENT AREA B	
183	3,648,675	234,933	29°08'27.28"	90°10'52.10"	TEMP. CONTAINMENT AREA B	172
184	3,648,607	234,727	29°08'25.25"	90°10'52.89"	TEMP. CONTAINMENT AREA B	
185	3,648,571	234,302	29°08'21.05"	90°10'53.34"	TEMP. CONTAINMENT AREA B	143
186	3,648,468	233,908	29°08'17.16"	90°10'54.54"	TEMP. CONTAINMENT AREA B	
187	3,648,459	233,766	29°08'15.75"	90°10'54.66"	TEMP. CONTAINMENT AREA B	1,103
188	3,647,965	232,534	29°08'03.61"	90°11'00.37"	TEMP. CONTAINMENT AREA B	
189	3,647,736	231,633	29°07'54.71"	90°11'03.06"	TEMP. CONTAINMENT AREA B	1,126
190	3,647,151	230,679	29°07'45.32"	90°11'09.76"	TEMP. CONTAINMENT AREA B	
191	3,646,292	229,664	29°07'35.36"	90°11'19.56"	TEMP. CONTAINMENT AREA B	226
192	3,646,292	229,523	29°07'33.97"	90°11'19.58"	TEMP. CONTAINMENT AREA B	
193	3,645,501	228,599	29°07'24.89"	90°11'28.59"	TEMP. CONTAINMENT AREA B	10,833
194	3,645,326	228,097	29°07'19.95"	90°11'30.63"	TEMP. CONTAINMENT AREA B	
195	3,645,941	226,988	29°07'08.90"	90°11'23.81"	TEMP. CONTAINMENT AREA B	143
196	3,645,925	226,808	29°07'07.13"	90°11'24.01"	TEMP. CONTAINMENT AREA B	
197	3,644,633	227,416	29°07'13.27"	90°11'38.51"	TEMP. CONTAINMENT AREA D	1,103
198	3,644,748	227,460	29°07'13.70"	90°11'37.21"	TEMP. CONTAINMENT AREA D	
199	3,645,101	228,532	29°07'24.27"	90°11'33.11"	TEMP. CONTAINMENT AREA D	1,126
200	3,645,367	229,079	29°07'29.66"	90°11'30.05"	TEMP. CONTAINMENT AREA D	
201	3,645,701	229,446	29°07'33.26"	90°11'26.24"	TEMP. CONTAINMENT AREA D	226
202	3,648,046	233,952	29°08'17.63"	90°10'59.30"	TEMP. CONTAINMENT AREA C	
203	3,648,161	234,262	29°08'20.69"	90°10'57.96"	TEMP. CONTAINMENT AREA C	1,126
204	3,648,397	235,127	29°08'29.23"	90°10'55.21"	TEMP. CONTAINMENT AREA C	
205	3,648,505	235,912	29°08'36.99"	90°10'53.90"	TEMP. CONTAINMENT AREA C	226
206	3,648,594	236,120	29°08'39.04"	90°10'52.88"	TEMP. CONTAINMENT AREA C	

TOTAL LENGTH OF TEMPORARY CONTAINMENT BERMS 10,833

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

LEGEND

- PROPOSED TEMP. CONTAINMENT BERMS
- PROPOSED DREDGE PIPE
- PROPOSED MARSH RESTORATION AREA
- PROPOSED FILL FOR MARSH RESTORATION



HORIZONTAL SCALE



ENGINEERING LLC

Coastal Design & Infrastructure
 197 Elysian Drive
 Houma, LA 70363
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REVISIONS

No.	Description	Date

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GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES

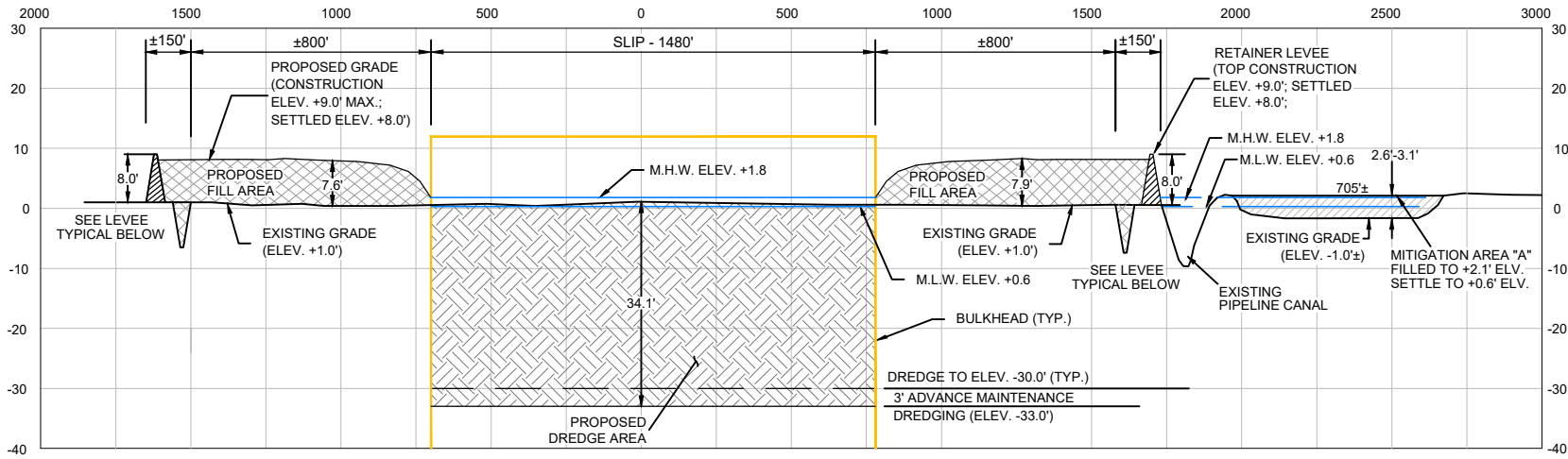
PHASE I
CONTAINMENT BERMS

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

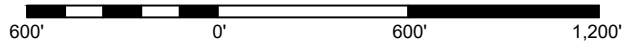
CROSS SECTION OF SLIP DREDGE & FILL AREA AND MITIGATION AREA "A"

SECTION "A"

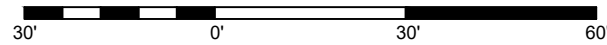
SCALE: HORIZ. 1"=600' VERT. 1" = 30'



HORIZONTAL SCALE

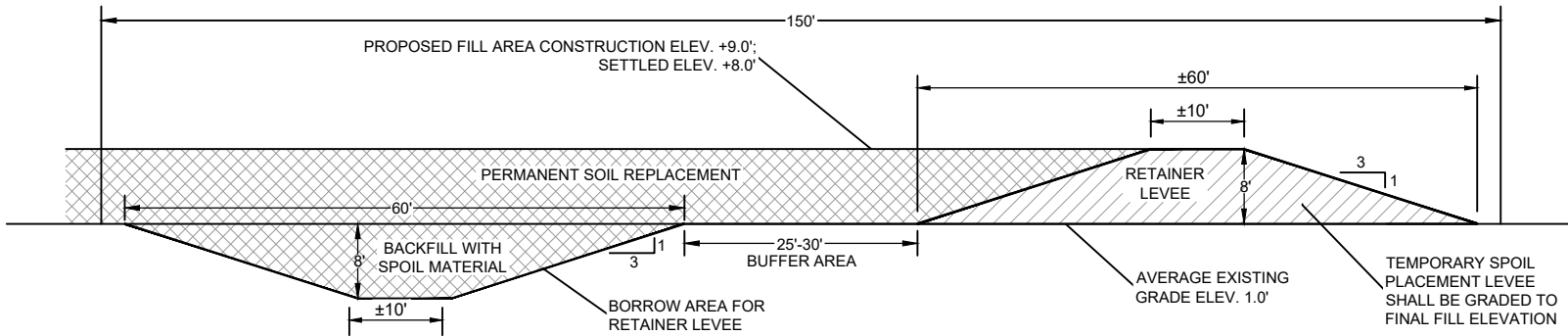


VERTICAL SCALE

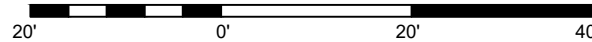


TYPICAL RETAINER LEVEL

SCALE: 1" = 20'



HORIZONTAL SCALE



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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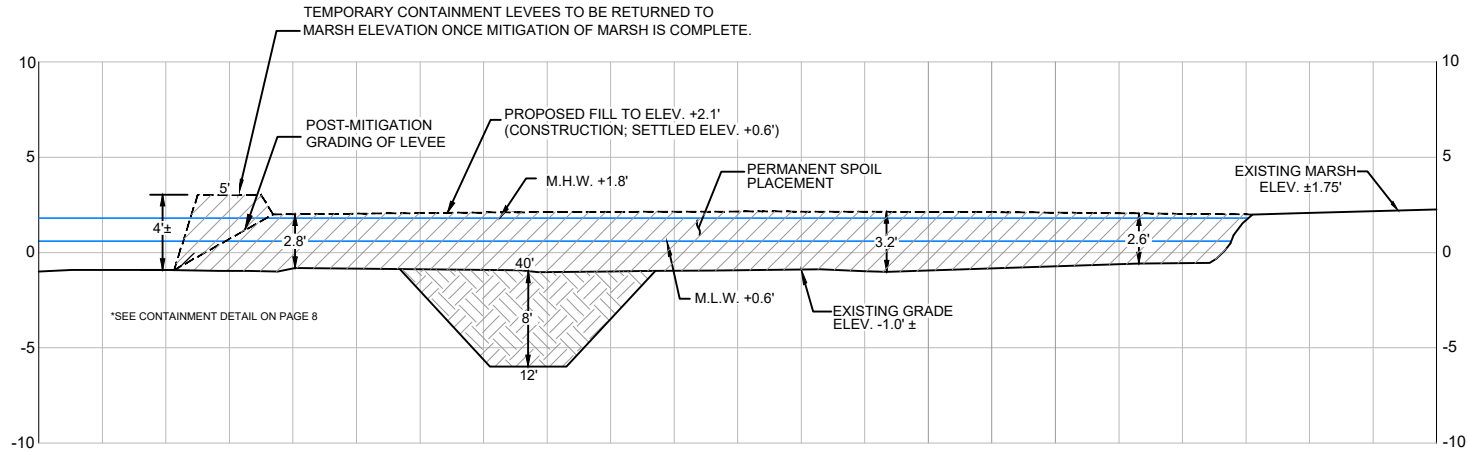
GREATER LAFORCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES

PHASE I
 CROSS SECTION "A"
 SLIP, SITE FILL, & RETAINER LEVEL

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

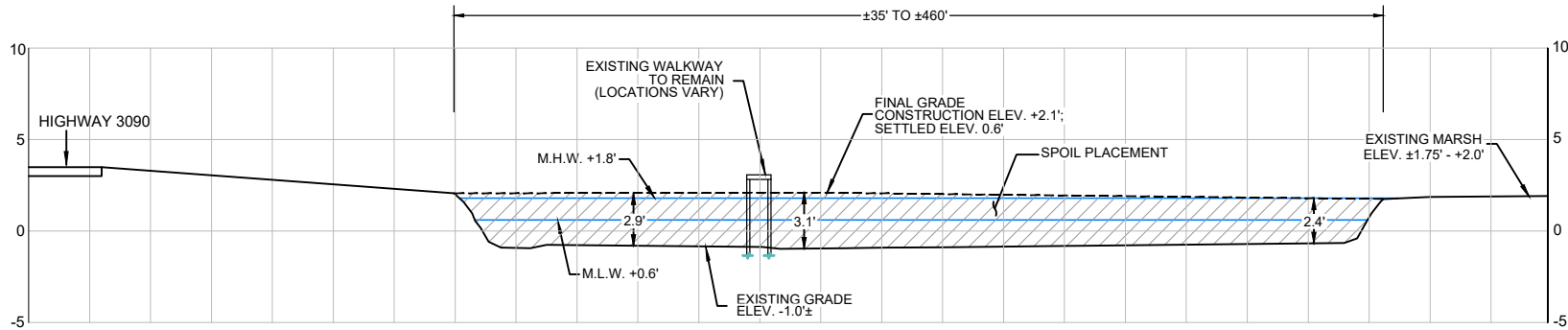
MITIGATION AREA B SECTION

SCALE: HORIZ. 1"=30'
VERT. 1"=10'

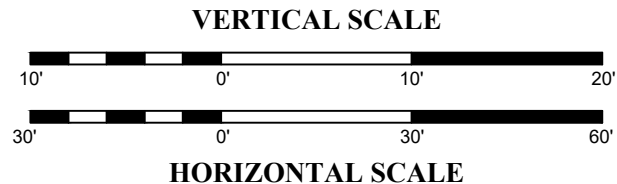


TYPICAL MITIGATION AREAS C&D ALONG LA HWY 3090 SECTION

SCALE: HORIZ. 1"=30'
VERT. 1"=10'



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GREATER LAFORCHE PORT COMMISSION
PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES

PHASE I
CROSS SECTIONS
MITIGATION AREAS

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022



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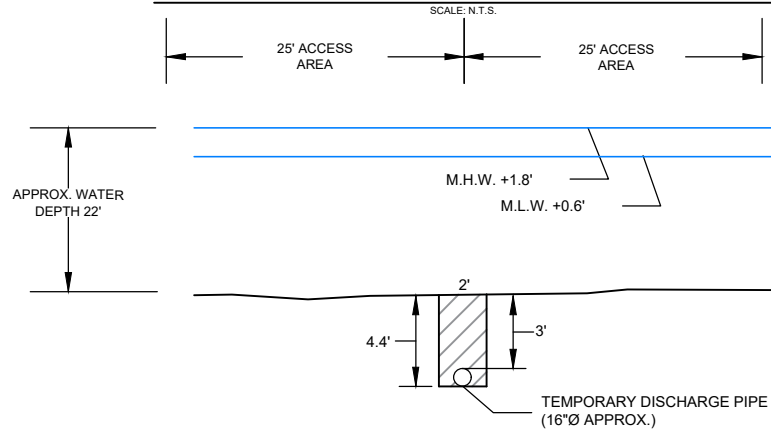
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GREATER LAFOURCHE PORT COMMISSION PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES

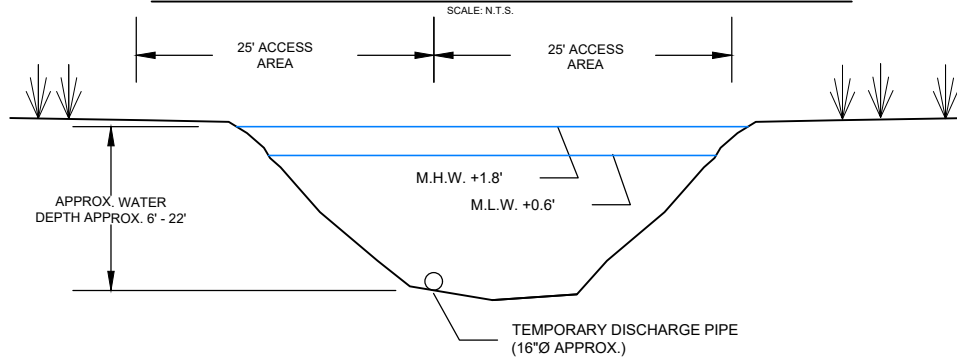
PHASE I DISCHARGE PIPE TYPICALS

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

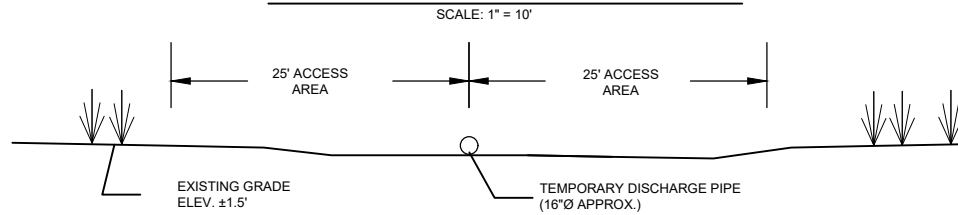
TYPICAL DISCHARGE PIPE SECTION ON FEDERAL WATERBOTTOM



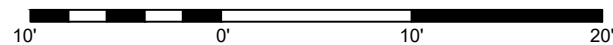
TYPICAL DISCHARGE PIPE SECTION ON NON-FEDERAL WATERBOTTOM



TYPICAL DISCHARGE PIPE SECTION OVER LAND



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



HORIZONTAL SCALE



BELLE PASS

PROPOSED BULKHEAD (±8,227 LIN. FT.)

PROPOSED FILL (162.14 AC.)

EXPECTED IMPACTS:

PROPOSED ROADWAYS WITHIN THE FILL AREA AROUND THE SLIP MAY OCCUPY A R.O.W. OF 25.5 ACRES.

PROPOSED ROADWAYS ACROSS WETLANDS AND WATERBOTTOMS MAY OCCUPY A R.O.W. OF 20.4 ACRES.

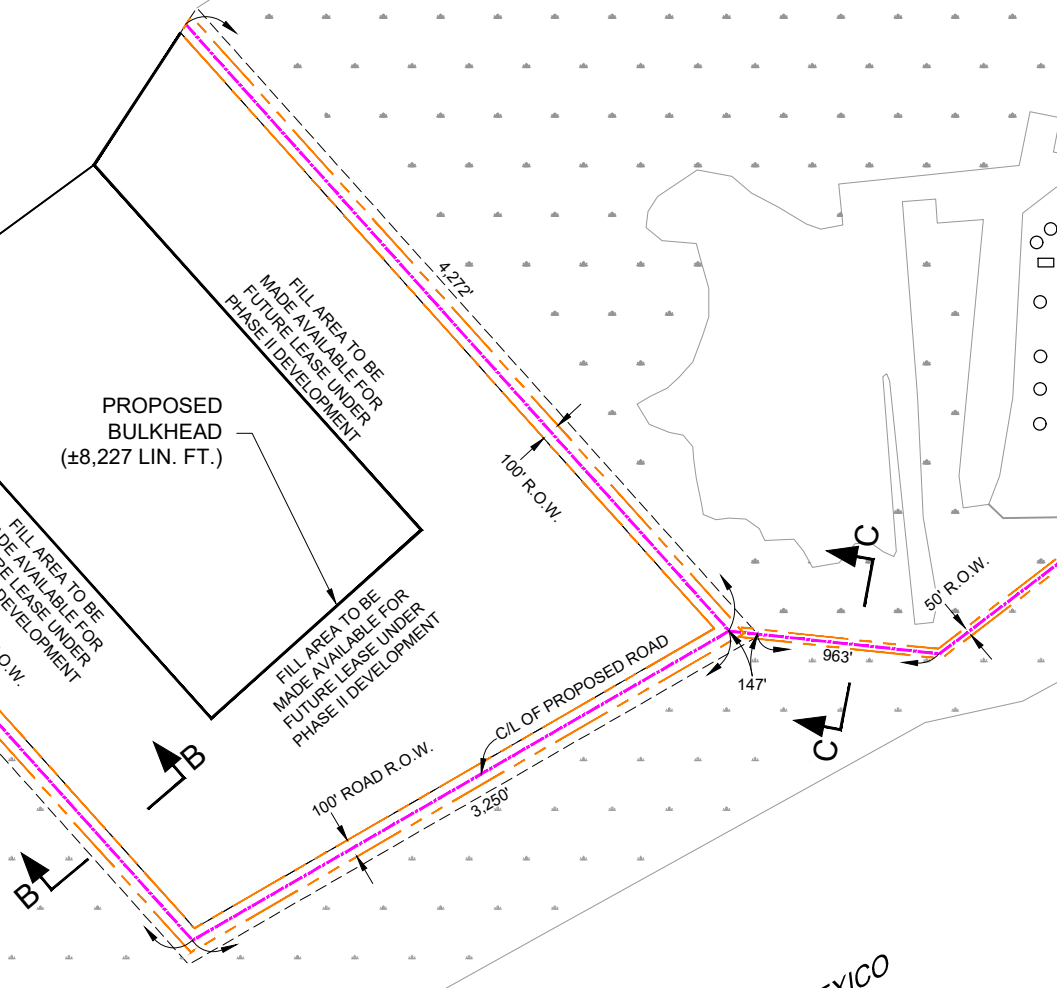
CONSTRUCTION OF THE PROPOSED ROADWAYS MAY TOTAL:

- 14,600 CU. YDS. OF HAULED IN EARTHEN MATERIAL,
- 50,300 CU. YDS. OF CRUSHED LIMESTONE, &
- 9,000 CU. YDS. OF ASPHALT.

PROPOSED RIP-RAP EROSION CONTROL AT BRIDGE AND ALONG PORTIONS OF THE ROAD MAY UTILIZE 6,219.2 CU. YDS. OF RIP-RAP AS FILL AND OCCUPY APPROXIMATELY 3.9 ACRES OF WETLANDS AND WATERBOTTOMS.

TEMPORARY MARINE WORKSPACES ALONGSIDE THE PROPOSED BRIDGE MAY OCCUPY APPROXIMATELY 4.14 ACRES AND WILL REQUIRE THE USE OF SPUDS TO HOLD THE EQUIPMENT IN PLACE.

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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REVISIONS

No.	Description	Date

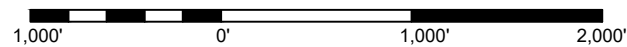
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**GREATER LAFOURCHE PORT COMMISSION
PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

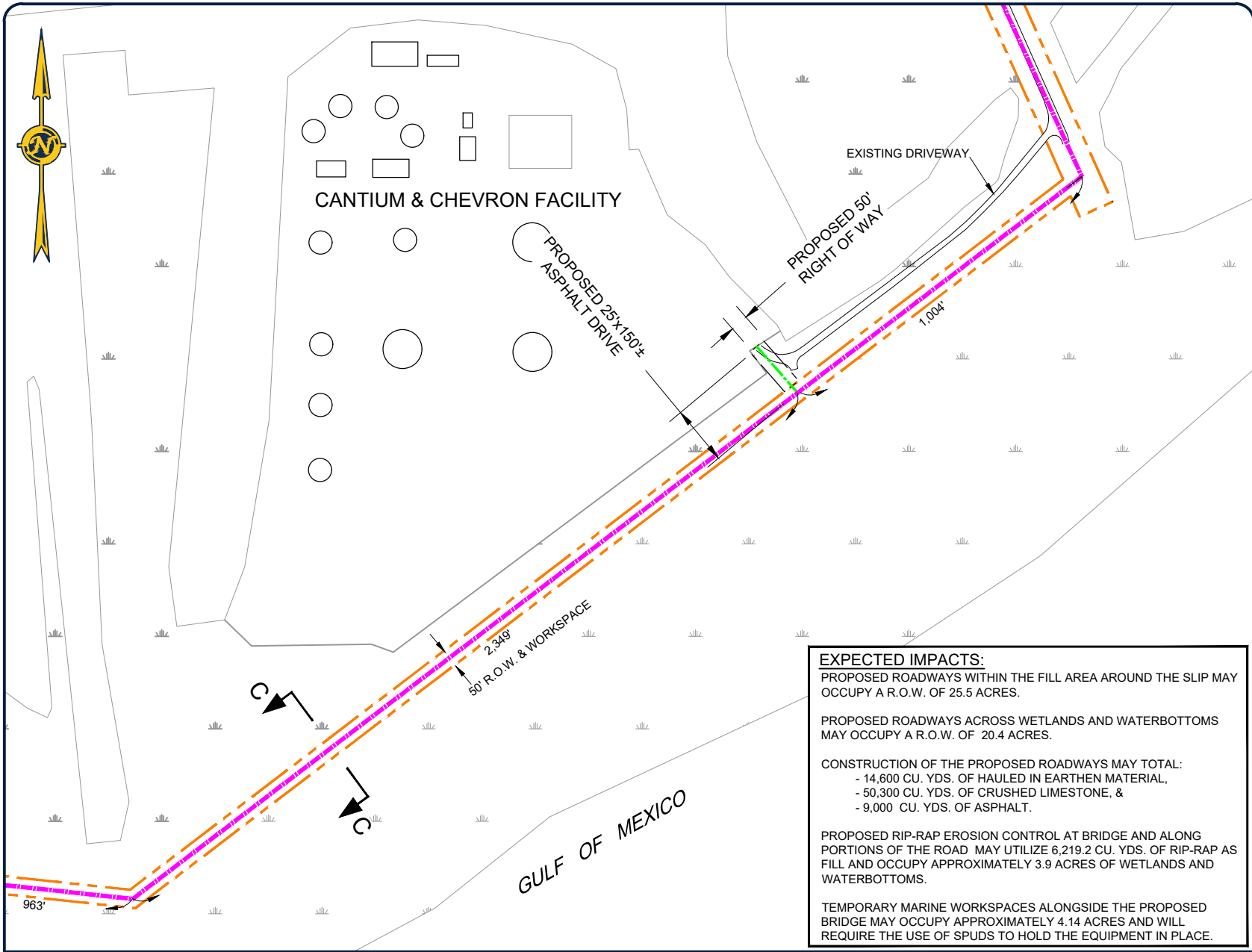
**PHASE I
PROPOSED ROADWAY
AROUND SLIP**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022



HORIZONTAL SCALE

12



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

EXPECTED IMPACTS:
 PROPOSED ROADWAYS WITHIN THE FILL AREA AROUND THE SLIP MAY OCCUPY A R.O.W. OF 25.5 ACRES.

PROPOSED ROADWAYS ACROSS WETLANDS AND WATERBOTTOMS MAY OCCUPY A R.O.W. OF 20.4 ACRES.

CONSTRUCTION OF THE PROPOSED ROADWAYS MAY TOTAL:
 - 14,600 CU. YDS. OF HAULED IN EARTHEN MATERIAL,
 - 50,300 CU. YDS. OF CRUSHED LIMESTONE, &
 - 9,000 CU. YDS. OF ASPHALT.

PROPOSED RIP-RAP EROSION CONTROL AT BRIDGE AND ALONG PORTIONS OF THE ROAD MAY UTILIZE 6,219.2 CU. YDS. OF RIP-RAP AS FILL AND OCCUPY APPROXIMATELY 3.9 ACRES OF WETLANDS AND WATERBOTTOMS.

TEMPORARY MARINE WORKSPACES ALONGSIDE THE PROPOSED BRIDGE MAY OCCUPY APPROXIMATELY 4.14 ACRES AND WILL REQUIRE THE USE OF SPUDS TO HOLD THE EQUIPMENT IN PLACE.



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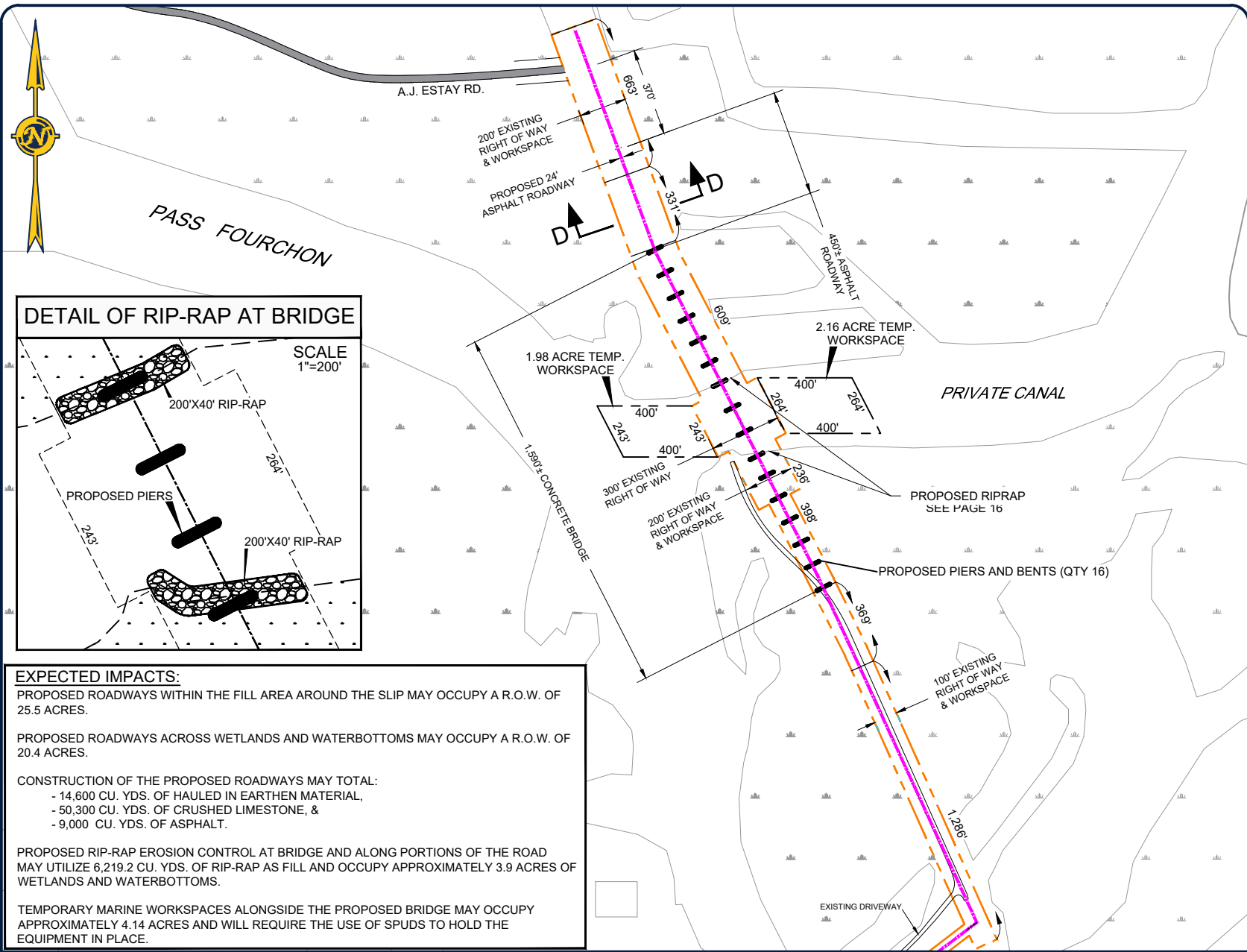
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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

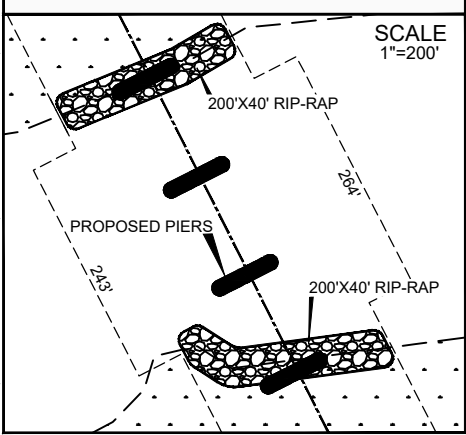
**PHASE I
 PROPOSED ROADWAY
 AROUND FACILITY**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

M:\Department_39\Client\GFC-Port_Fourchon\1162_Geni_Engr_Surv_&_Cons\1162-0801 - Fourchon Island Permit Working Folder\Permit Drawings\Post Comments from Bryce\12-14_Roadways- post comments.dwg



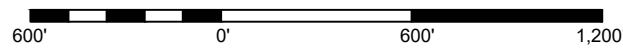
DETAIL OF RIP-RAP AT BRIDGE



SCALE
1"=200'

EXPECTED IMPACTS:
 PROPOSED ROADWAYS WITHIN THE FILL AREA AROUND THE SLIP MAY OCCUPY A R.O.W. OF 25.5 ACRES.
 PROPOSED ROADWAYS ACROSS WETLANDS AND WATERBOTTOMS MAY OCCUPY A R.O.W. OF 20.4 ACRES.
 CONSTRUCTION OF THE PROPOSED ROADWAYS MAY TOTAL:
 - 14,600 CU. YDS. OF HAULED IN EARTHEN MATERIAL,
 - 50,300 CU. YDS. OF CRUSHED LIMESTONE, &
 - 9,000 CU. YDS. OF ASPHALT.
 PROPOSED RIP-RAP EROSION CONTROL AT BRIDGE AND ALONG PORTIONS OF THE ROAD MAY UTILIZE 6,219.2 CU. YDS. OF RIP-RAP AS FILL AND OCCUPY APPROXIMATELY 3.9 ACRES OF WETLANDS AND WATERBOTTOMS.
 TEMPORARY MARINE WORKSPACES ALONGSIDE THE PROPOSED BRIDGE MAY OCCUPY APPROXIMATELY 4.14 ACRES AND WILL REQUIRE THE USE OF SPUDS TO HOLD THE EQUIPMENT IN PLACE.

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



HORIZONTAL SCALE



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REVISIONS

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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

**PHASE I
 PROPOSED ROADWAY
 DETAILS**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

M:\Department_39\Client\GFC--Port_Fourchon\1162_Genl Engr_Surv & Cons\1162-0801 - Fourchon Island Permit Working Folder\Permit Drawings\Post Comments from Bryce\12-14_Roadways - post comments.dwg



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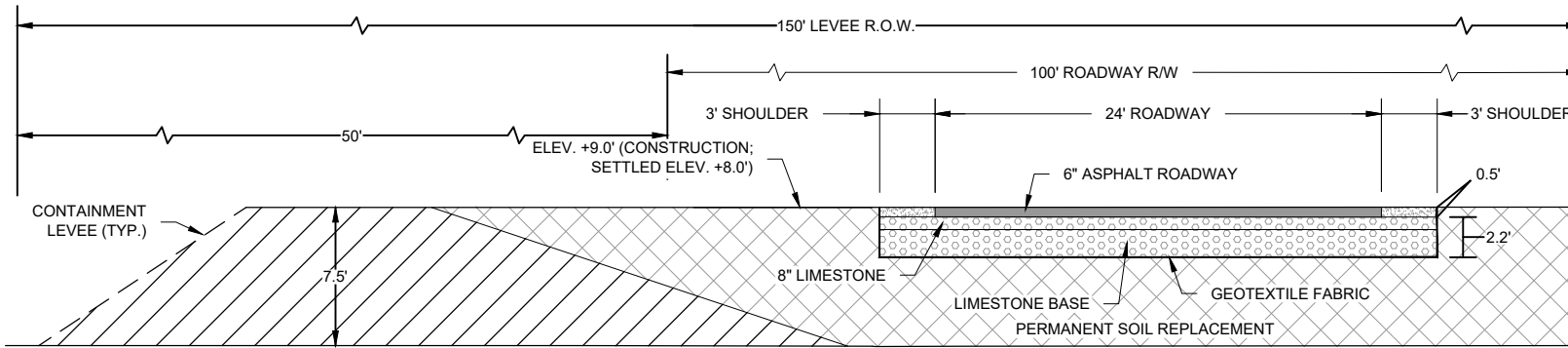
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**GREATER LAFOURCHE PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND SLIP TO PROVIDE ADDITIONAL PORT SERVICES**

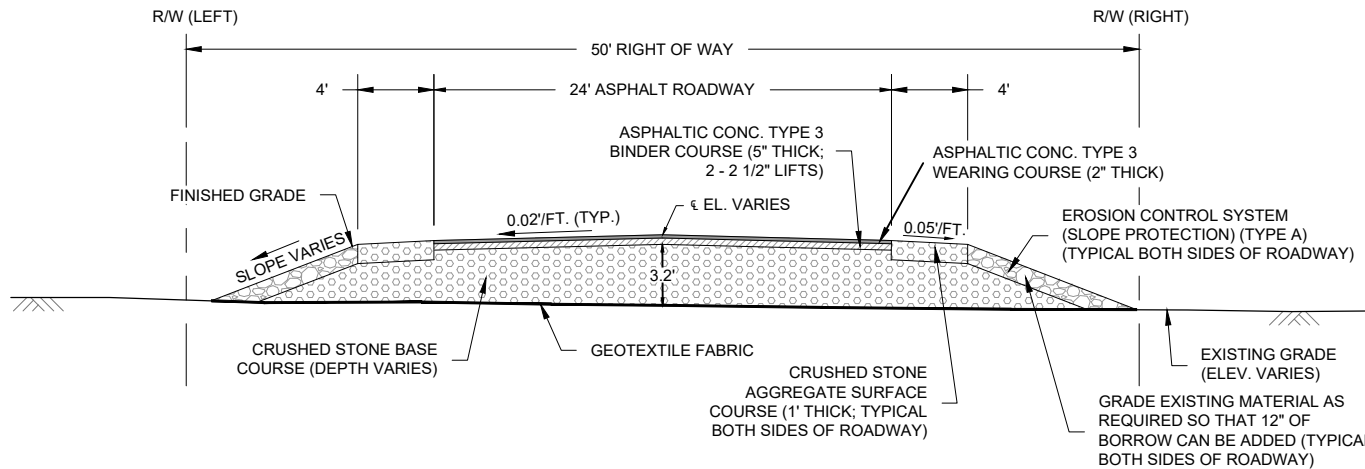
**PHASE I
 PROPOSED ROADWAY TYPICALS & SECTIONS**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022



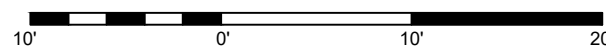
LEVEE INTENTIONALLY SHOWN SKEWED TO FIT PAGE LIMITS. SEE DETAIL ON SHEET 9.

**SECTION B-B
 TYPICAL ROAD SECTION AT PROPOSED SLIP
 SCALE: 1" = 10'**



**SECTION C-C
 TYPICAL NEW ROADWAY SECTION
 SCALE: 1" = 10'**

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



HORIZONTAL SCALE



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REVISIONS

No.	Description	Date

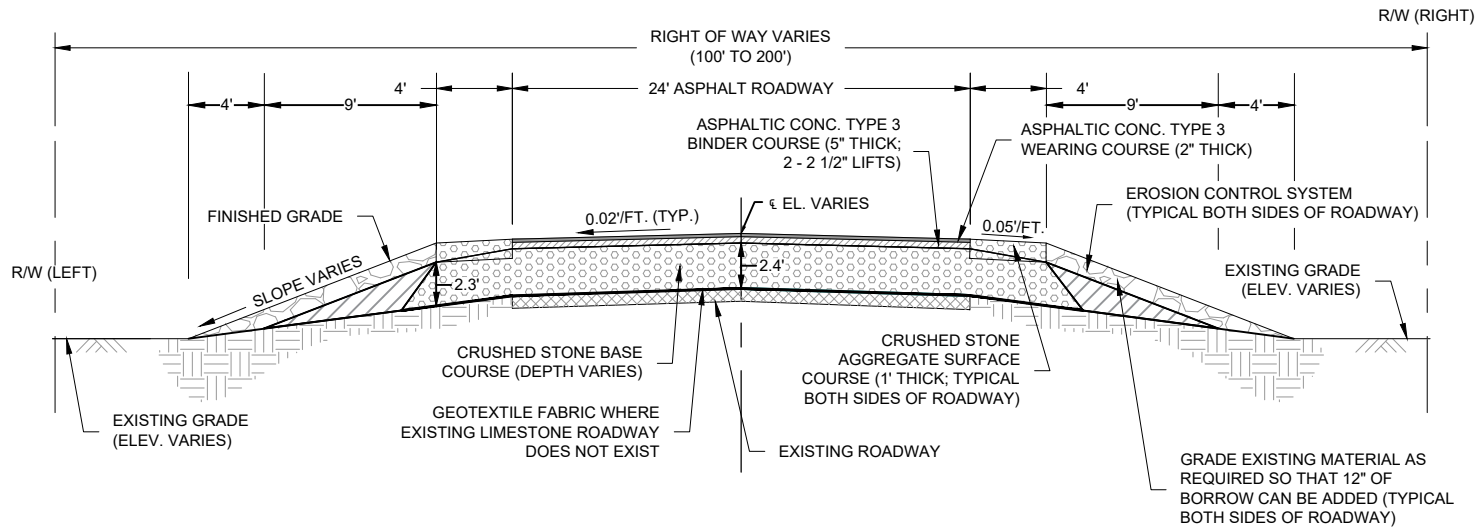
PERMITTING ONLY

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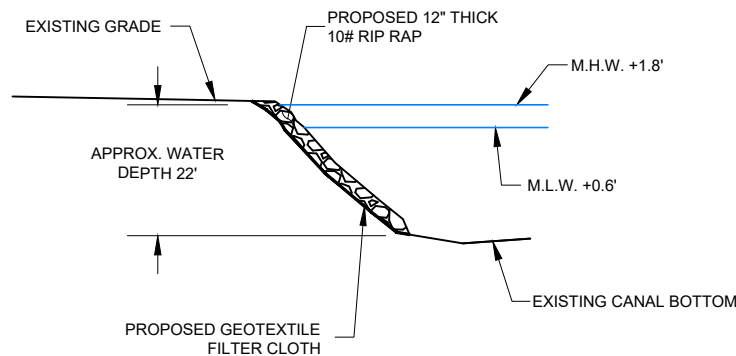
**GREATER LAFOURCHE
 PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND
 SLIP TO PROVIDE ADDITIONAL
 PORT SERVICES**

**PHASE I
 PROPOSED ROADWAY
 TYPICALS &
 SECTIONS**

Project number	39130-1320
Date	November 4, 2022
Designed by	A.P. & G.I.S.
Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

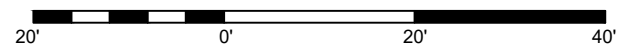


**SECTION D-D
 TYPICAL ROADWAY SECTION AT EXISTING ROADWAY**
 SCALE: 1" = 10'



TYPICAL RIPRAP SECTION
 SCALE: N.T.S.

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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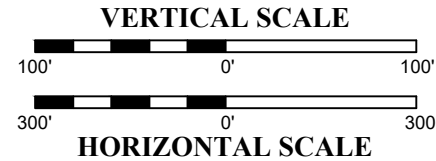
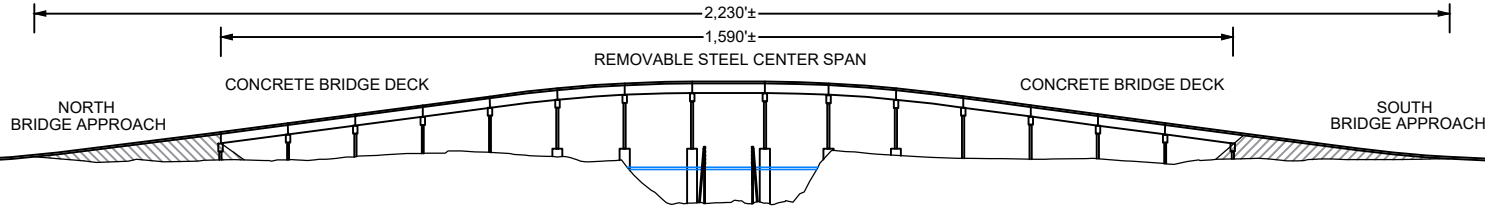
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**GREATER LAFOURCHE
 PORT COMMISSION
 PROPOSED BRIDGE, ROAD, AND
 SLIP TO PROVIDE ADDITIONAL
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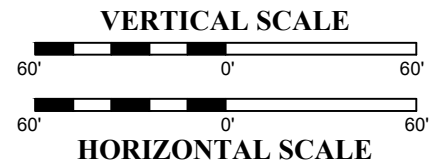
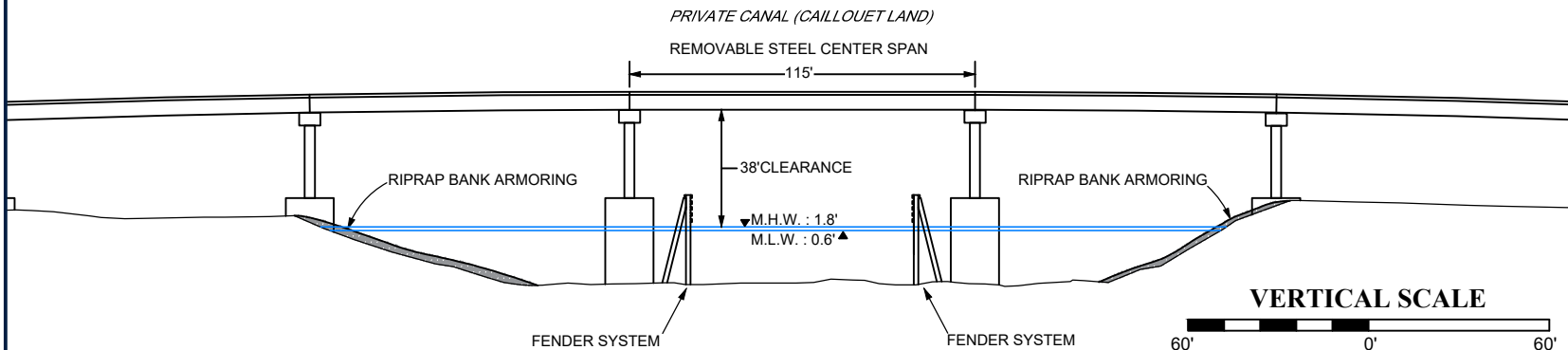
**PHASE I
 PROPOSED BRIDGE
 DETAILS**

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Drawn by	J.M.H.
Checked by	M.M.
Checked by	-
Plot Date	December 20, 2022

PROFILE OF THE PROPOSED BRIDGE (EXAGGERATED VERTICAL SCALE)



PROPOSED BRIDGE CROSSING

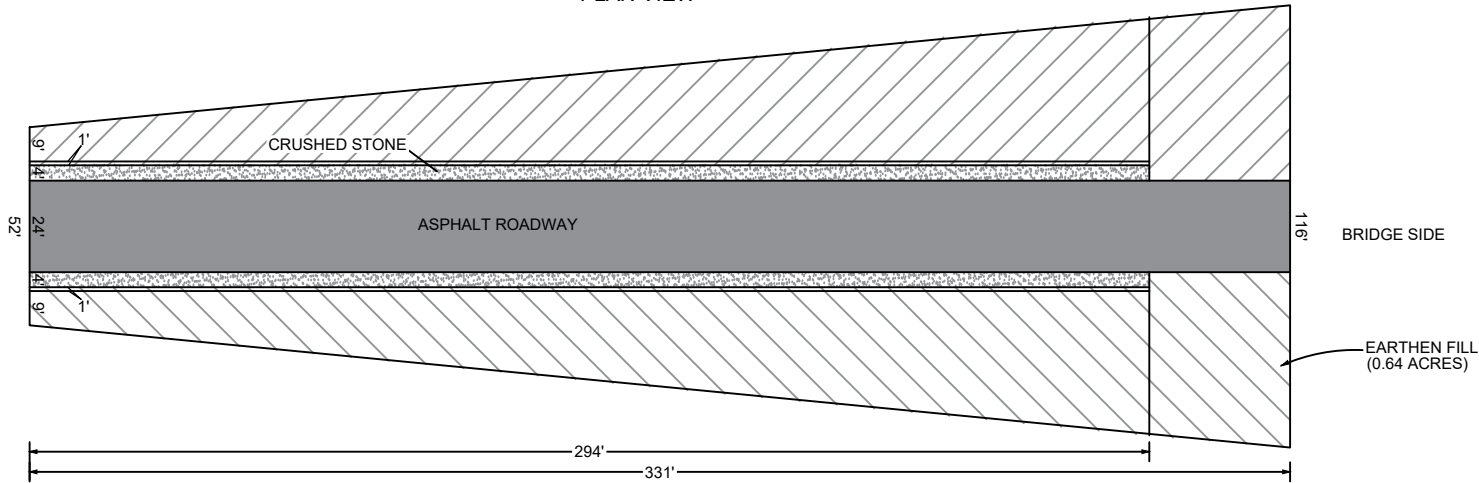


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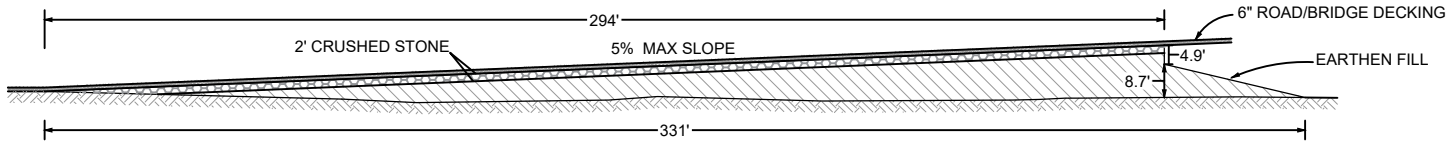
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NORTH BRIDGE APPROACH

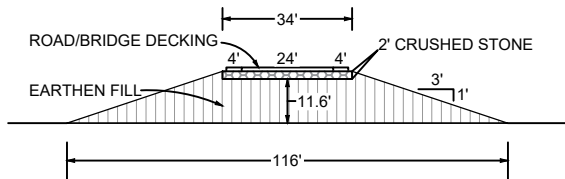
PLAN VIEW



PROFILE VIEW



CROSS SECTION VIEW



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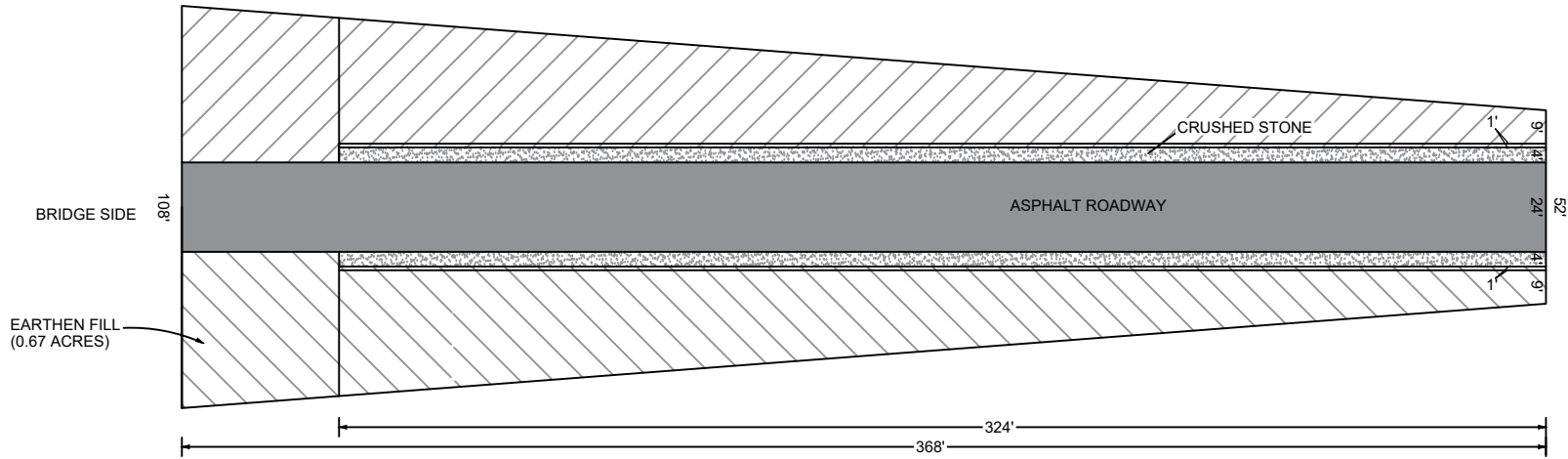
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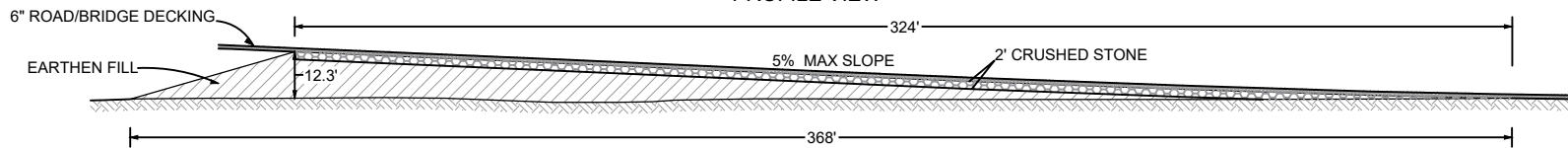
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SOUTH BRIDGE APPROACH

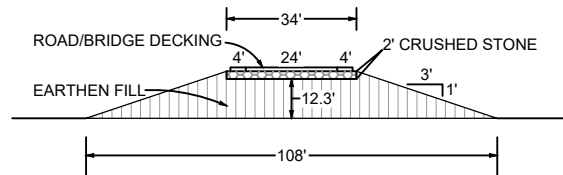
PLAN VIEW



PROFILE VIEW



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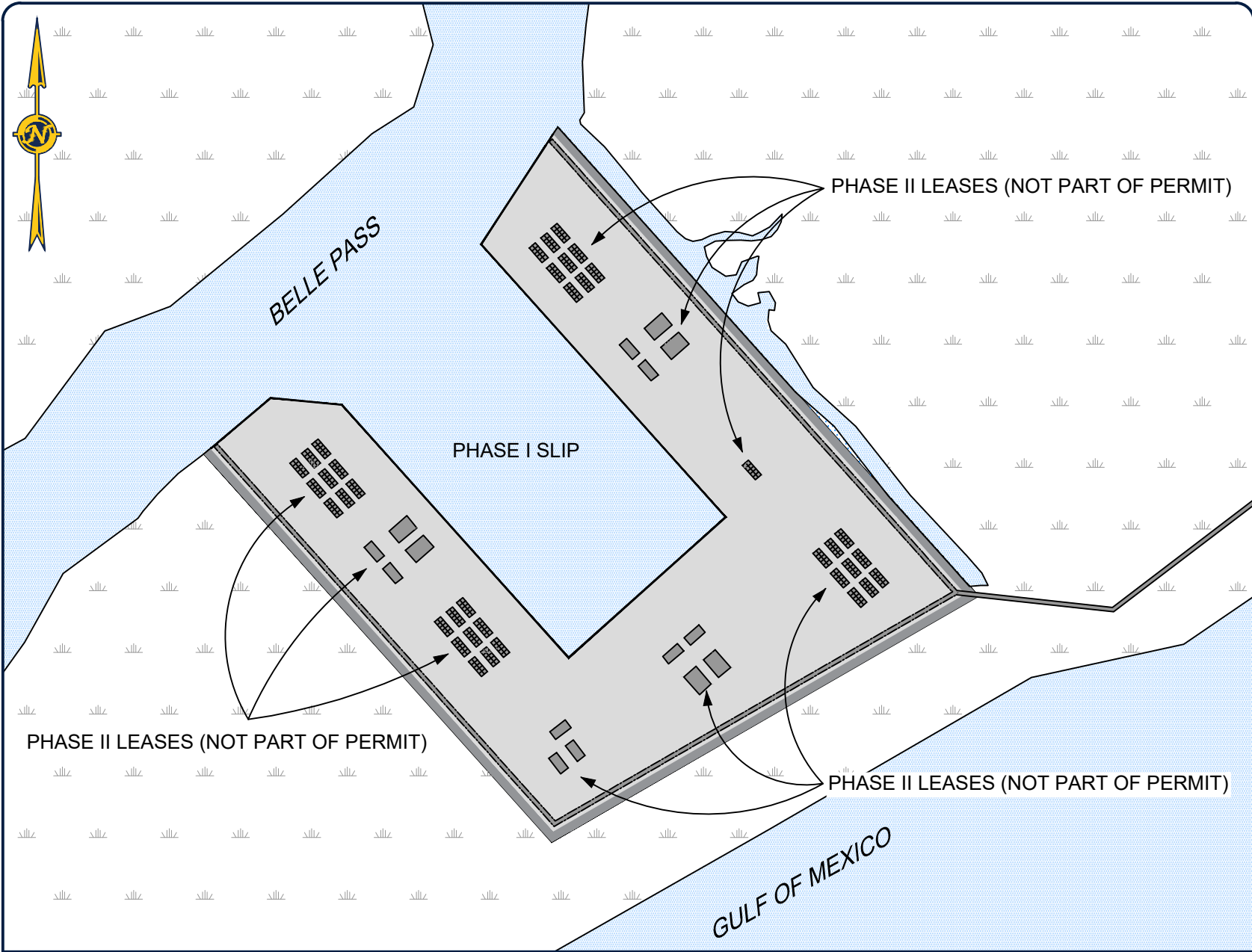
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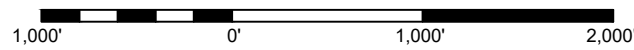
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EXAMPLE OF PHASE II DEVELOPMENT (NOT PART OF PERMIT)



HORIZONTAL SCALE



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**GREATER LAFOURCHE PORT COMMISSION
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**EXAMPLE OF PHASE II DEVELOPMENT
 NOT PART OF THIS PERMIT APPLICATION**

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PHASE I PROJECT NOTES

- The proposed slip is approximately 91.2 acres and is estimated to require the removal of 5,017,657.9 cubic yards of material.
- The retaining levees around the proposed fill area adjacent to the slip are expected to occupy 15.7 acres and utilize 116,169 cubic yards of material.
- Interior borrow ditches are to be dug to obtain material for the retaining levees. These ditches are expected to occupy 15.2 acres and provide 116,169 cubic yards of material.
- Approximately 198.1 acres are to be filled in around the proposed slip for future Phase II development as port facilities. This fill portion is expected to require 2,476,770.3 cubic yards of material.
- Four mitigation areas are to be part of this project to restore area marsh. The four mitigation areas are expected to total 513.1 acres and will require approximately 2,370,914.7 cubic yards of material.
- Approximately 10,892' of retaining levees are to be constructed for some portions of the mitigation areas. These berms are expected to occupy 11.5 acres of existing waterbottoms and require 51,947.3 cubic yards of material. The borrow areas for these berms are expected to require 10.1 acres of existing waterbottoms and provide 51,947.3 cubic yards of material.
- 22,812 feet of dredge discharge pipe with a 50' workspace is to be required, thus temporarily affecting 26.18 acres of wetlands and waterbottoms. Approximately 183 cubic yards of water bottom material maybe temporarily displaced by jetting across the federal channel of Pass Fourchon.
- The proposed roadways leading to the proposed slip are expected to occupy 24.24 acres.
- The proposed roadways around the proposed slip are expected to occupy 20.81 acres. The footprint for this is already accounted for in the footprint for the fill area around the slip.
- Construction of these proposed roadways are expected to require:
 - 14,600 cubic yards of hauled in earthen material
 - 50,300 cubic yards of crushed limestone
 - 9,000 cubic yards of asphalt
- Proposed rip-rap erosion control at the bridge site and roads may utilize 6,219.2 cubic yards of rip-rap and occupy approximately 3.9 acres of wetlands and waterbottoms.
- Temporary marine workspaces alongside the proposed bridge may occupy 4.14 acres and will require the use of spuds to hold the equipment in place during construction activities.
- A complete breakdown of the Joint Permit Application Steps 5 and 11 are included on the following page.

NDSI Notes

- As-built drawings and/or plats shall have written on them the date of completion of said activities and shall be submitted to the Louisiana Department of Natural Resources, Office of Coastal Management, P. O. Box 44487, Baton Rouge, LA 70804-4487 within 30 days following project completion.
- All structures built under the authorization and conditions of this permit shall be removed from the site within 120 days of abandonment of the facilities for the herein permitted use, or when these structures fall into a state of disrepair such that they can no longer function as intended. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
- Structures must also be marked/lighted in accordance with U. S. Coast Guard regulations.
- In order to ensure the safety of all parties, the permittee shall contact the Louisiana One Call System (1-800-272-3020) a minimum of 48 hours prior to the commencement of any excavation (digging, dredging, jetting, etc.) or demolition activity.

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PHASE I PROJECT NOTES

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ITEMIZED BREAKDOWN OF EXCAVATIONS AND FILL AREAS AND THE CALCULATION OF JOINT PERMIT APPLICATION STEPS 5 & 11 ITEMS

SLIP SITE AND MITIGATION AREA "A" EXCAVATIONS (PAGE 3)			
ITEM	FEATURE	ACRES	CU. YDS.
E1	PROPOSED SLIP	91.2	5,017,657.9
E2	CONTAINMENT LEVEE BORROW DITCH AT SLIP SITE	15.2	116,169.0
E3	MITIGATION AREA "A" CONTAINMENT BORROW DITCH	0.1	618.6
E4	MITIGATION AREAS "B," "C" & "D" BORROW DITCH	10.0	51,947.3

SLIP SITE AND MITIGATION AREA FILLS (PGS 3, 6-10)			
ITEM	FEATURE	ACRES	CU. YDS.
F1	FILL AREA AROUND PROPOSED SLIP	198.1	2,476,770.3
F2	CONTAINMENT LEVEE AROUND SLIP FILL AREA	15.7	116,169.0
F3	BORROW DITCH FOR SLIP CONTAINMENT LEVEE	15.2	116,169.0
F4	MITIGATION AREA "A" CONT. BORROW DITCH	0.1	618.6
F5	MITIGATION AREA "A" CONTAINMENT LEVEE	0.1	637.7
F6	MITIGATION AREA "A" FILL	59.4	273,076.4
F7	MITIGATION AREA "B," "C," "D," CONT. BORROW DITCHES	10.0	51,947.3
F8	MITIGATION AREA "B," "C," "D," CONTAINMENT LEVEES	11.4	51,947.3
F9	MITIGATION AREA "B" FILL	370.0	1,724,484.1
F10	MITIGATION AREA "C" FILL	53.0	237,035.8
F11	MITIGATION AREA "D" FILL	30.7	136,318.4

ROADWAY FILLS (PGS 3, 5, 12-18)			
ITEM	FEATURE	ACRES	CU. YDS.
RF1	ROADS AT SLIP R.O.W.	25.5	-
RF2	ROAD TO BRIDGE & SLIP R.O.W.	20.4	-
RF3	HAULED IN EARTHEN ROAD FILL	4.2	14,600.0
RF4	CRUSHED STONE ROAD FILL	13.5	50,300.0
RF5	ASPHALT ROAD FILL	10.7	9,000.0
RF6	RIP-RAP EROSION CONTROL FOR ROADS	3.9	6,219.2

TEMPORARY IMPACTS FROM ACCESS (PGS 3, 5, & 14)			
ITEM	FEATURE	ACRES	CU. YDS.
T11	ACCESS TO INSTALL DREDGE PIPE ACROSS MARSH	6.6	0
T12	ACCESS TO INSTALL DREDGE PIPE IN AREAS OF WATER	19.58	0
T13	MARINE WORKSPACES	4.14	0
T14	JETTING OF DREDGE PIPE ACROSS FEDERAL CHANNEL	0.03	183

PERMIT APPLICATION STEP 5A EXCAVATIONS		
CALCULATION	ACRES	CU. YDS.
E1+E2+E3+E4+T14	116.5	5,186,575.9

PERMIT APPLICATION STEP 5B FILL	
VOLUME CALCULATION	CU. YDS.
SUM OF (F1:F11) + (RF3:RF6)+T14	5,265,476.1
AREA CALCULATION	ACRES
F1+F2+F5+F6+F8+F9+F10+F11+RF2:RF6+T14	791.1

NOTE: SOME ITEMS OF FILL ARE NOT INCLUDED IN THE AREA CALCULATION BECAUSE OF DUPLICATION OF A FOOTPRINT. E.G. THE FILL AREA AT THE SLIP ALREADY INCLUDES THE ACREAGE DESIGNATED TO THE BORROW DITCH AND ROAD.

PERMIT APPLICATION STEP 5C FILL		
MATERIAL	CALCULATION	CU. YDS.
CRUSHED STONE	RF4	50,300.0
ROCK/RIP-RAP	RF6	6,219.2
ASPHALT	RF5	9,000.0
HAULED-IN DIRT	RF3	14,600.0
EXCAV- ON SITE	SUM OF F1:F11+T14	5,185,356.9
EXCAV- HAUL OFF	0	0

PERMIT APPLICATION STEP 11A TOTAL ACRES	
CALCULATION	ACRES
E1+E2+E3+E4+F1+F2+F5+F6+F8+F9+F10+F11+RF2+T14	875.3

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**PHASE I
CALCULATIONS TO SUPPORT STEPS 5 & 11 OF APPLICATION**

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