

JOINT PUBLIC NOTICE

7 September 2020

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch (ODR-E)
7400 Leake Avenue
New Orleans, Louisiana 70118

(504) 862-2279
angelle.v.greer@usace.army.mil
Project Manager
Angelle Greer
Permit Application Number
MVN-2014-02293-EG

State of Louisiana
Department of Environmental Quality
ATTN: Water Quality Certifications
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225
Project Manager
Elizabeth Hill
WQC Application Number
WQC 200825-04

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).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

DREDGING WITHIN THE MISSISSIPPI RIVER FOR MARSH RESTORATION **IN PLAQUEMINES PARISH**

NAME OF APPLICANT: Coastal Protection and Restoration Authority (CPRA), Attention: Sydney Dobson, P.O. Box 44027, Baton Rouge, LA 70804

LOCATION OF WORK: At approximately Latitude: 29.540378, Longitude: -89.856214, and within the Mississippi River from river mile 45 to 52 above head of passes, in Pointe a La Hache, Louisiana, in Plaquemines Parish, as shown on the enclosed drawings.
Hydrologic Unit Code: 08090301 (Lower Mississippi- East Central Louisiana Coastal)

CHARACTER OF WORK: Excavation of approximately 17,956,650-cubic yards of sediment material from within the Mississippi River, and placement of dredged material within an approximate 624-acre area to the west to create/restore marsh habitat, and within an approximate 12,700-linear foot area along Johnson's Bayou to create a forested coastal ridge. Temporary impacts to approximately 251-acres of existing marsh habitat may occur during excavation and fill placement activities, however, the project proposes to create approximately 624-acres of marsh wetlands.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **30 days** from the date of this joint 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 and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.**

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

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.

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.

On behalf of the Louisiana Trustee Implementation Group (LA TIG), the U.S. Department of Interior (DOI) is designated as the lead federal review agency for the proposed project. If applicable, DOI shall solicit input from the State Archeologist and State Historic Preservation Officer regarding properties listed on the National Register of Historic Places near the proposed work and potential project-related impacts to cultural resources. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data.

On behalf of the Louisiana Trustee Implementation Group (LA TIG), the U.S. Department of Interior (DOI) is designated as the lead federal review agency for the proposed project. The DOI has determined that the project footprint is located in an area that may be known to be utilized by the West Indian Manatee, the Pallid Sturgeon, the Kemp's Ridley Sea Turtle, the Loggerhead Sea Turtle, and the Green Sea Turtle. DOI has made a preliminary determination that the activity is not likely to adversely affect the West Indian Manatee, the Pallid Sturgeon, the Kemp's Ridley Sea Turtle, the Loggerhead Sea Turtle, or the Green Sea Turtle. Standard Manatee Conditions for In-Water Activities will be included in the authorization, if granted.

On behalf of the Louisiana Trustee Implementation Group (LA TIG), the U.S. Department of Interior (DOI) is designated as the lead federal review agency for the proposed project. DOI's initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Commerce, nor affect any habitat designated as critical to the survival and recovery of such species.

On behalf of the Louisiana Trustee Implementation Group (LA TIG), the U.S. Department of Interior (DOI) is designated as the lead federal review agency for the proposed project. Initiation of the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act will be completed by the DOI, if applicable. The DOI has determined that the project footprint is located in an area that may be known to be utilized by various life stages of red drum, gray snapper, lane snapper, brown shrimp, white shrimp, bull sharks, spinner sharks, Atlantic sharpnose sharks, and finetooth sharks.

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, Water Quality Certifications, 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.

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. 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.

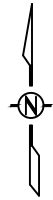
You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

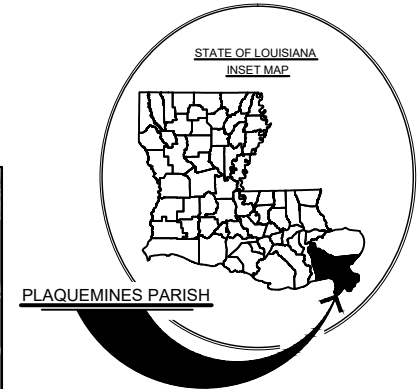
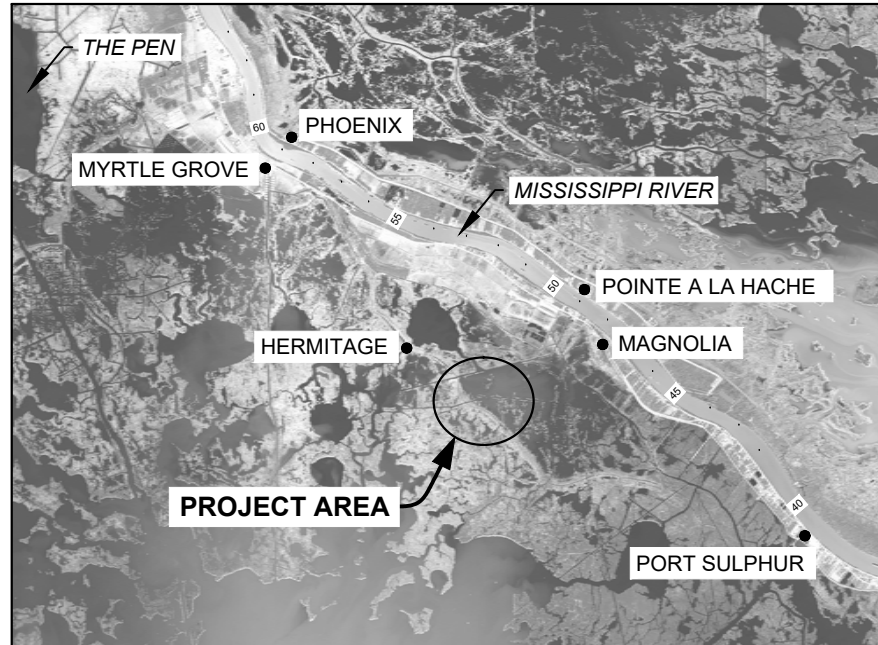
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STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT
BA-0240
PLAQUEMINES PARISH, LOUISIANA

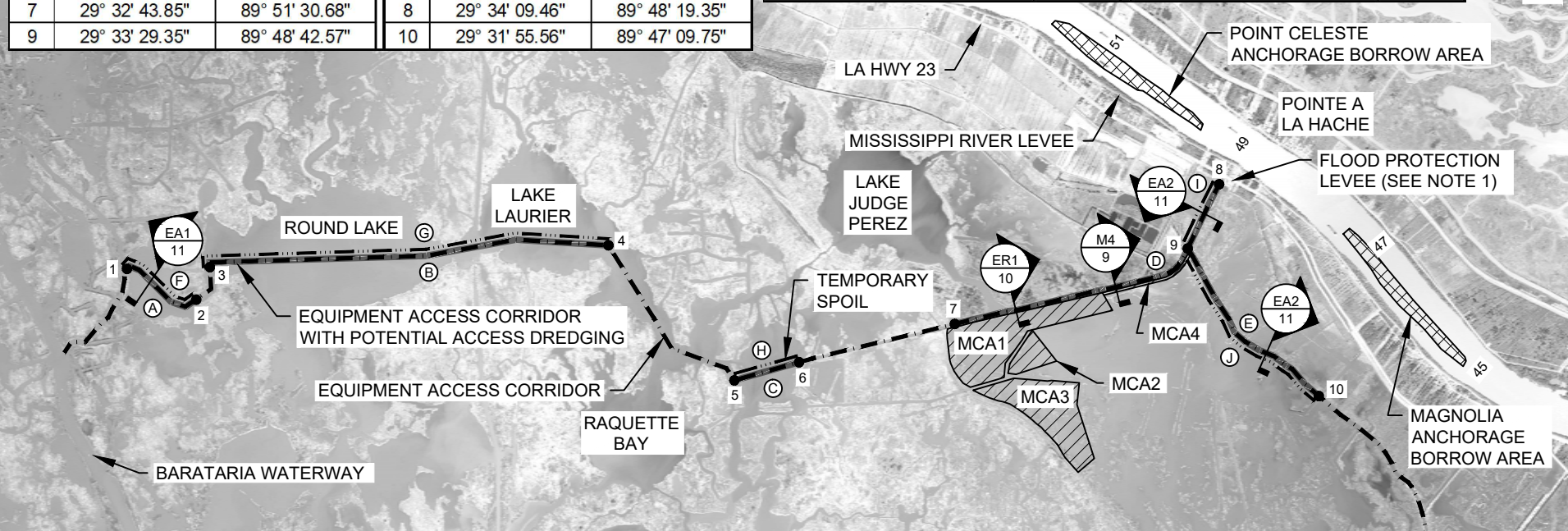


FOR PERMITTING ONLY
DOCUMENTS ARE NOT TO BE USED FOR
CONSTRUCTION, BIDDING, RECORDATION,
CONVEYANCE, OR SALES.

APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	TITLE SHEET
DRAWN BY: K. CANTU		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER:	SHEET 1 OF 20

POTENTIAL ACCESS DREDGING					
REACH START			REACH END		
	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE
1	29° 33' 24.78"	90° 01' 25.08"	2	29° 33' 04.97"	90° 00' 35.59"
3	29° 33' 25.26"	90° 00' 25.46"	4	29° 33' 35.98"	89° 55' 38.85"
5	29° 32' 10.43"	89° 54' 08.45"	6	29° 32' 21.05"	89° 53' 22.89"
7	29° 32' 43.85"	89° 51' 30.68"	8	29° 34' 09.46"	89° 48' 19.35"
9	29° 33' 29.35"	89° 48' 42.57"	10	29° 31' 55.56"	89° 47' 09.75"

ACREAGES			
BORROW AREA	ACRES	MARSH CREATION AREA	ACRES
POINT CELESTE ANCHORAGE	226	MCA1	531
MAGNOLIA ANCHORAGE	197	MCA2	97
		MCA3	428
		MCA4	24



POTENTIAL ACCESS DREDGING		
REACH	LINEAR FEET	MAX. WIDTH FEET
A	5,538	130'
B	25,721	
C	4,165	
D	20,526	
E	12,886	
TEMPORARY SPOIL		
REACH	LINEAR FEET	MAX. WIDTH FEET
F	5,573	100.0'
G	25,966	
H	4,165	
I	4,228	
J	12,448	

LEGEND	
	BORROW AREA
	MARSH CREATION AREA
	EQUIPMENT ACCESS CORRIDOR
	EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
	TEMPORARY SPOIL
50	MISSISSIPPI RIVER MILE

- NOTES:
- ALL WORK NEAR THE FLOOD PROTECTION LEVEE WILL BE COORDINATED WITH THE NEW ORLEANS TO VENICE LEVEE PROJECT TEAM.
 - THE MISSISSIPPI RIVER MILES ARE DESIGNATED FROM ABOVE HEAD OF PASSES (AHP).



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	EQUIPMENT ACCESS CORRIDOR
DRAWN BY: K. CANTU		DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661
STATE PROJECT NUMBER: BA-0240		DATE: MARCH 2020	
FEDERAL PROJECT NUMBER:		SHEET 2 OF 20	

POINT CELESTE ANCHORAGE BORROW AREA COORDINATES

	LATITUDE	LONGITUDE
1	29° 35' 49.82"	89° 50' 11.76"
2	29° 35' 45.81"	89° 49' 52.55"
3	29° 35' 37.09"	89° 49' 37.45"
4	29° 35' 28.73"	89° 49' 25.21"
5	29° 35' 21.31"	89° 49' 14.31"
6	29° 35' 16.52"	89° 49' 07.21"
7	29° 35' 12.67"	89° 49' 01.62"
8	29° 35' 07.56"	89° 48' 55.10"
9	29° 35' 01.74"	89° 48' 48.37"
10	29° 34' 57.07"	89° 48' 40.96"
11	29° 34' 51.27"	89° 48' 34.65"
12	29° 34' 49.76"	89° 48' 32.39"
13	29° 34' 45.43"	89° 48' 34.93"
14	29° 34' 50.24"	89° 48' 41.57"
15	29° 34' 54.53"	89° 48' 49.21"
16	29° 34' 59.44"	89° 48' 56.32"
17	29° 35' 03.91"	89° 49' 03.81"
18	29° 35' 08.09"	89° 49' 11.54"
19	29° 35' 11.41"	89° 49' 19.99"
20	29° 35' 15.60"	89° 49' 27.72"
21	29° 35' 20.04"	89° 49' 35.24"
22	29° 35' 24.35"	89° 49' 42.86"
23	29° 35' 29.42"	89° 49' 49.84"
24	29° 35' 34.51"	89° 49' 56.80"
25	29° 35' 39.74"	89° 50' 03.65"
26	29° 35' 45.29"	89° 50' 10.23"
27	29° 35' 47.86"	89° 50' 13.48"

BUOYS MARKING DREDGE ANCHOR LIMITS

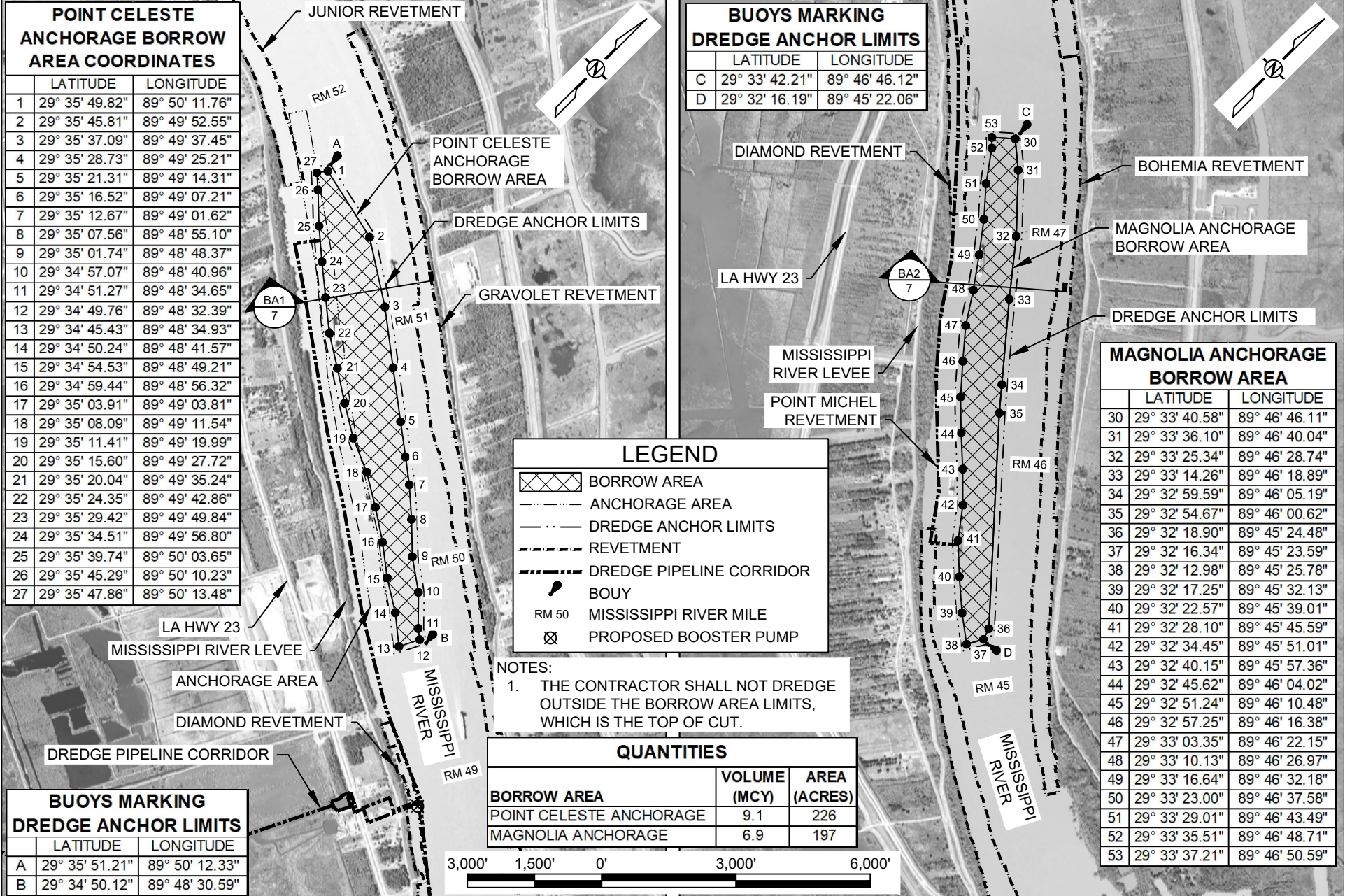
	LATITUDE	LONGITUDE
A	29° 35' 51.21"	89° 50' 12.33"
B	29° 34' 50.12"	89° 48' 30.59"

BUOYS MARKING DREDGE ANCHOR LIMITS

	LATITUDE	LONGITUDE
C	29° 33' 42.21"	89° 46' 46.12"
D	29° 32' 16.19"	89° 45' 22.06"

MAGNOLIA ANCHORAGE BORROW AREA

	LATITUDE	LONGITUDE
30	29° 33' 40.58"	89° 46' 46.11"
31	29° 33' 36.10"	89° 46' 40.04"
32	29° 33' 25.34"	89° 46' 28.74"
33	29° 33' 14.26"	89° 46' 18.89"
34	29° 32' 59.59"	89° 46' 05.19"
35	29° 32' 54.67"	89° 46' 00.62"
36	29° 32' 18.90"	89° 45' 24.48"
37	29° 32' 16.34"	89° 45' 23.59"
38	29° 32' 12.98"	89° 45' 25.78"
39	29° 32' 17.25"	89° 45' 32.13"
40	29° 32' 22.57"	89° 45' 39.01"
41	29° 32' 28.10"	89° 45' 45.59"
42	29° 32' 34.45"	89° 45' 51.01"
43	29° 32' 40.15"	89° 45' 57.36"
44	29° 32' 45.62"	89° 46' 04.02"
45	29° 32' 51.24"	89° 46' 10.48"
46	29° 32' 57.25"	89° 46' 16.38"
47	29° 33' 03.35"	89° 46' 22.15"
48	29° 33' 10.13"	89° 46' 26.97"
49	29° 33' 16.64"	89° 46' 32.18"
50	29° 33' 23.00"	89° 46' 37.58"
51	29° 33' 29.01"	89° 46' 43.49"
52	29° 33' 35.51"	89° 46' 48.71"
53	29° 33' 37.21"	89° 46' 50.59"



APPLICATION BY:
 CPRA
 P.O. BOX 44027
 BATON ROUGE, LA 70804

DRAWN BY: K. CANTU

COASTAL PROTECTION AND RESTORATION AUTHORITY
 150 TERRACE AVENUE
 BATON ROUGE, LOUISIANA 70802

DESIGNED BY: A. LINSON, E.I.

APPROVED BY: R. JOFFRION, P.E. 27661

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

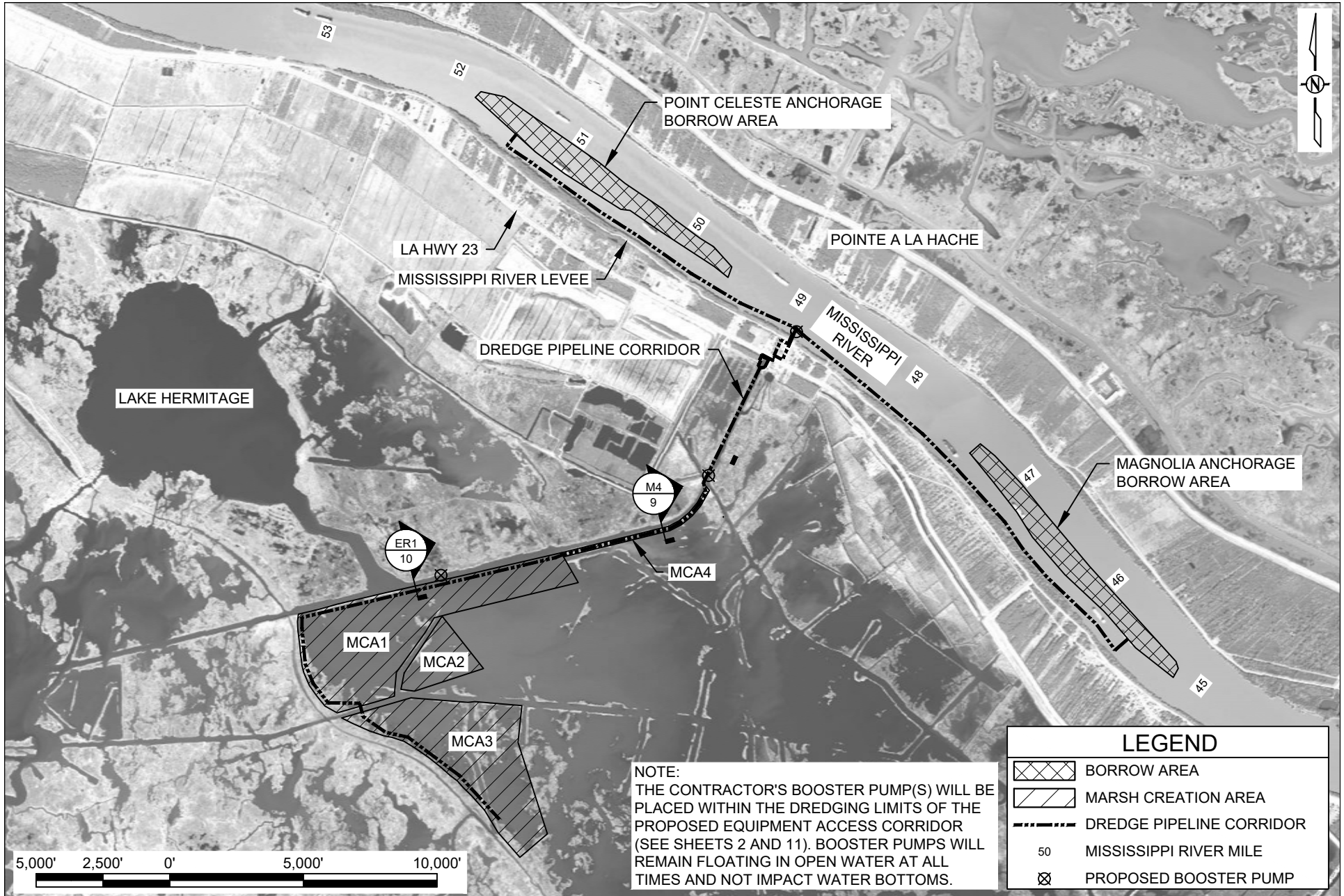
STATE PROJECT NUMBER: BA-0240

FEDERAL PROJECT NUMBER:

BORROW AREA LAYOUT

DATE: MARCH 2020

SHEET 3 OF 20



NOTE:
 THE CONTRACTOR'S BOOSTER PUMP(S) WILL BE PLACED WITHIN THE DREDGING LIMITS OF THE PROPOSED EQUIPMENT ACCESS CORRIDOR (SEE SHEETS 2 AND 11). BOOSTER PUMPS WILL REMAIN FLOATING IN OPEN WATER AT ALL TIMES AND NOT IMPACT WATER BOTTOMS.

LEGEND	
	BORROW AREA
	MARSH CREATION AREA
	DREDGE PIPELINE CORRIDOR
50	MISSISSIPPI RIVER MILE
	PROPOSED BOOSTER PUMP

APPLICATION BY:
 CPRA
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COASTAL PROTECTION AND RESTORATION AUTHORITY
 150 TERRACE AVENUE
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GRANDE CHENIERE RIDGE
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STATE PROJECT NUMBER: BA-0240

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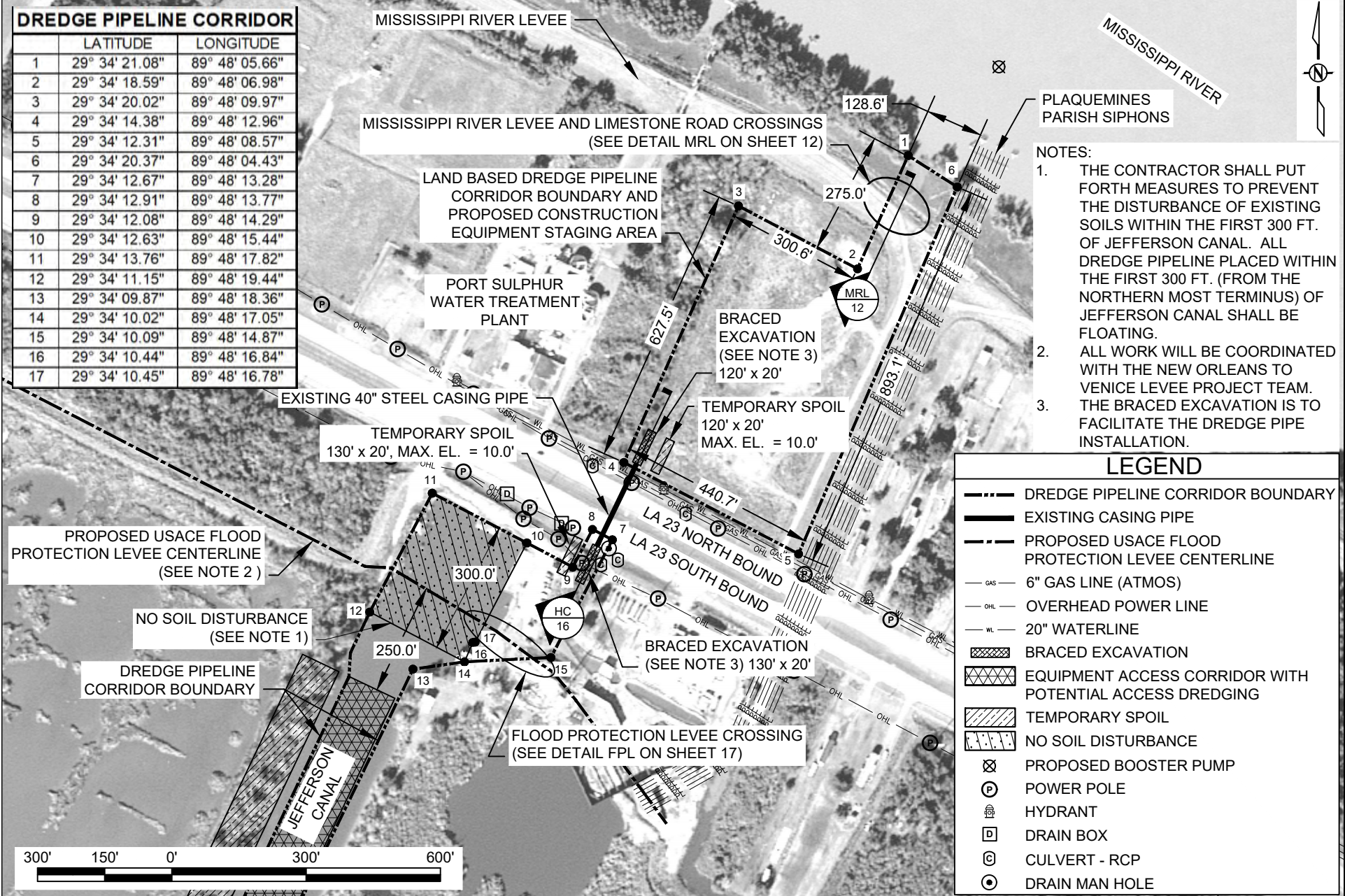
DREDGE PIPELINE
 COORIDOR LAYOUT

DATE: MARCH 2020

SHEET 4 OF 20

DREDGE PIPELINE CORRIDOR

	LATITUDE	LONGITUDE
1	29° 34' 21.08"	89° 48' 05.66"
2	29° 34' 18.59"	89° 48' 06.98"
3	29° 34' 20.02"	89° 48' 09.97"
4	29° 34' 14.38"	89° 48' 12.96"
5	29° 34' 12.31"	89° 48' 08.57"
6	29° 34' 20.37"	89° 48' 04.43"
7	29° 34' 12.67"	89° 48' 13.28"
8	29° 34' 12.91"	89° 48' 13.77"
9	29° 34' 12.08"	89° 48' 14.29"
10	29° 34' 12.63"	89° 48' 15.44"
11	29° 34' 13.76"	89° 48' 17.82"
12	29° 34' 11.15"	89° 48' 19.44"
13	29° 34' 09.87"	89° 48' 18.36"
14	29° 34' 10.02"	89° 48' 17.05"
15	29° 34' 10.09"	89° 48' 14.87"
16	29° 34' 10.44"	89° 48' 16.84"
17	29° 34' 10.45"	89° 48' 16.78"



PLAQUEMINES
PARISH SIPHONS

- NOTES:**
1. THE CONTRACTOR SHALL PUT FORTH MEASURES TO PREVENT THE DISTURBANCE OF EXISTING SOILS WITHIN THE FIRST 300 FT. OF JEFFERSON CANAL. ALL DREDGE PIPELINE PLACED WITHIN THE FIRST 300 FT. (FROM THE NORTHERN MOST TERMINUS) OF JEFFERSON CANAL SHALL BE FLOATING.
 2. ALL WORK WILL BE COORDINATED WITH THE NEW ORLEANS TO VENICE LEVEE PROJECT TEAM.
 3. THE BRACED EXCAVATION IS TO FACILITATE THE DREDGE PIPE INSTALLATION.

LEGEND

- DREDGE PIPELINE CORRIDOR BOUNDARY
- EXISTING CASING PIPE
- PROPOSED USACE FLOOD PROTECTION LEVEE CENTERLINE
- 6" GAS LINE (ATMOS)
- OVERHEAD POWER LINE
- 20" WATERLINE
- BRACED EXCAVATION
- EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
- TEMPORARY SPOIL
- NO SOIL DISTURBANCE
- PROPOSED BOOSTER PUMP
- POWER POLE
- HYDRANT
- DRAIN BOX
- CULVERT - RCP
- DRAIN MAN HOLE

APPLICATION BY:
CPRA
P.O. BOX 44027
BATON ROUGE, LA 70804

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240

DREDGE PIPELINE
CORRIDOR LAYOUT

DATE: MARCH 2020

DRAWN BY: K. CANTU

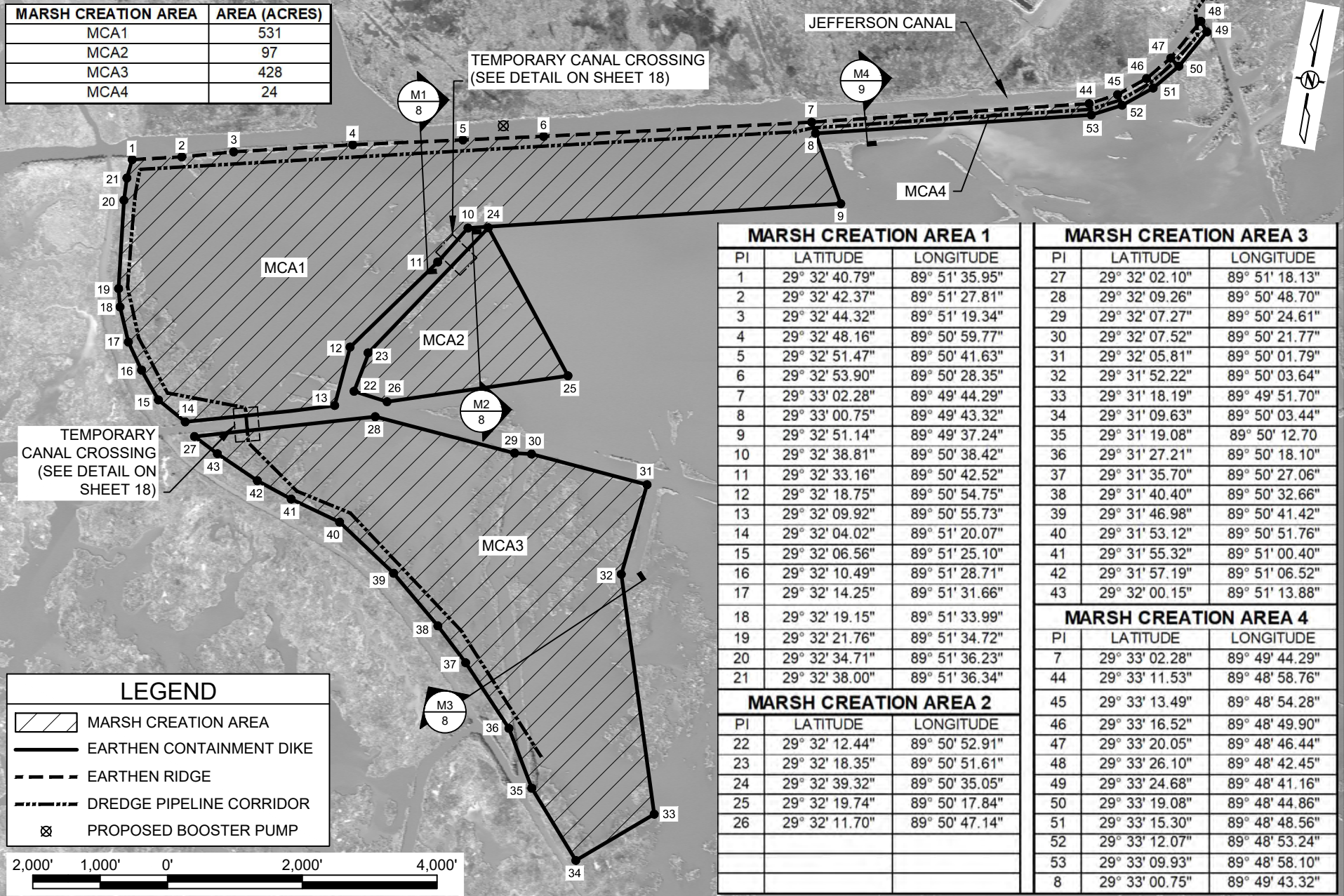
DESIGNED BY: A. LINSON, E.I.

APPROVED BY: R. JOFFRION, P.E. 27661

FEDERAL PROJECT NUMBER:

SHEET 5 OF 20

MARSH CREATION AREA	AREA (ACRES)
MCA1	531
MCA2	97
MCA3	428
MCA4	24



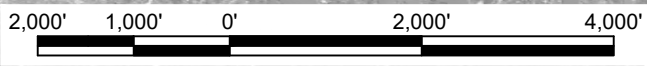
MARSH CREATION AREA 1		
PI	LATITUDE	LONGITUDE
1	29° 32' 40.79"	89° 51' 35.95"
2	29° 32' 42.37"	89° 51' 27.81"
3	29° 32' 44.32"	89° 51' 19.34"
4	29° 32' 48.16"	89° 50' 59.77"
5	29° 32' 51.47"	89° 50' 41.63"
6	29° 32' 53.90"	89° 50' 28.35"
7	29° 33' 02.28"	89° 49' 44.29"
8	29° 33' 00.75"	89° 49' 43.32"
9	29° 32' 51.14"	89° 49' 37.24"
10	29° 32' 38.81"	89° 50' 38.42"
11	29° 32' 33.16"	89° 50' 42.52"
12	29° 32' 18.75"	89° 50' 54.75"
13	29° 32' 09.92"	89° 50' 55.73"
14	29° 32' 04.02"	89° 51' 20.07"
15	29° 32' 06.56"	89° 51' 25.10"
16	29° 32' 10.49"	89° 51' 28.71"
17	29° 32' 14.25"	89° 51' 31.66"
18	29° 32' 19.15"	89° 51' 33.99"
19	29° 32' 21.76"	89° 51' 34.72"
20	29° 32' 34.71"	89° 51' 36.23"
21	29° 32' 38.00"	89° 51' 36.34"

MARSH CREATION AREA 3		
PI	LATITUDE	LONGITUDE
27	29° 32' 02.10"	89° 51' 18.13"
28	29° 32' 09.26"	89° 50' 48.70"
29	29° 32' 07.27"	89° 50' 24.61"
30	29° 32' 07.52"	89° 50' 21.77"
31	29° 32' 05.81"	89° 50' 01.79"
32	29° 31' 52.22"	89° 50' 03.64"
33	29° 31' 18.19"	89° 49' 51.70"
34	29° 31' 09.63"	89° 50' 03.44"
35	29° 31' 19.08"	89° 50' 12.70"
36	29° 31' 27.21"	89° 50' 18.10"
37	29° 31' 35.70"	89° 50' 27.06"
38	29° 31' 40.40"	89° 50' 32.66"
39	29° 31' 46.98"	89° 50' 41.42"
40	29° 31' 53.12"	89° 50' 51.76"
41	29° 31' 55.32"	89° 51' 00.40"
42	29° 31' 57.19"	89° 51' 06.52"
43	29° 32' 00.15"	89° 51' 13.88"

MARSH CREATION AREA 2		
PI	LATITUDE	LONGITUDE
22	29° 32' 12.44"	89° 50' 52.91"
23	29° 32' 18.35"	89° 50' 51.61"
24	29° 32' 39.32"	89° 50' 35.05"
25	29° 32' 19.74"	89° 50' 17.84"
26	29° 32' 11.70"	89° 50' 47.14"

MARSH CREATION AREA 4		
PI	LATITUDE	LONGITUDE
7	29° 33' 02.28"	89° 49' 44.29"
44	29° 33' 11.53"	89° 48' 58.76"
45	29° 33' 13.49"	89° 48' 54.28"
46	29° 33' 16.52"	89° 48' 49.90"
47	29° 33' 20.05"	89° 48' 46.44"
48	29° 33' 26.10"	89° 48' 42.45"
49	29° 33' 24.68"	89° 48' 41.16"
50	29° 33' 19.08"	89° 48' 44.86"
51	29° 33' 15.30"	89° 48' 48.56"
52	29° 33' 12.07"	89° 48' 53.24"
53	29° 33' 09.93"	89° 48' 58.10"
8	29° 33' 00.75"	89° 49' 43.32"

LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN RIDGE
	DREDGE PIPELINE CORRIDOR
	PROPOSED BOOSTER PUMP



APPLICATION BY:
 CPRA
 P.O. BOX 44027
 BATON ROUGE, LA 70804

DRAWN BY: K. CANTU

COASTAL PROTECTION AND RESTORATION AUTHORITY
 150 TERRACE AVENUE
 BATON ROUGE, LOUISIANA 70802

DESIGNED BY: A. LINSON, E.I.

APPROVED BY: R. JOFFRION, P.E. 27661

GRANDE CHENIERE RIDGE
 MARSH CREATION PROJECT

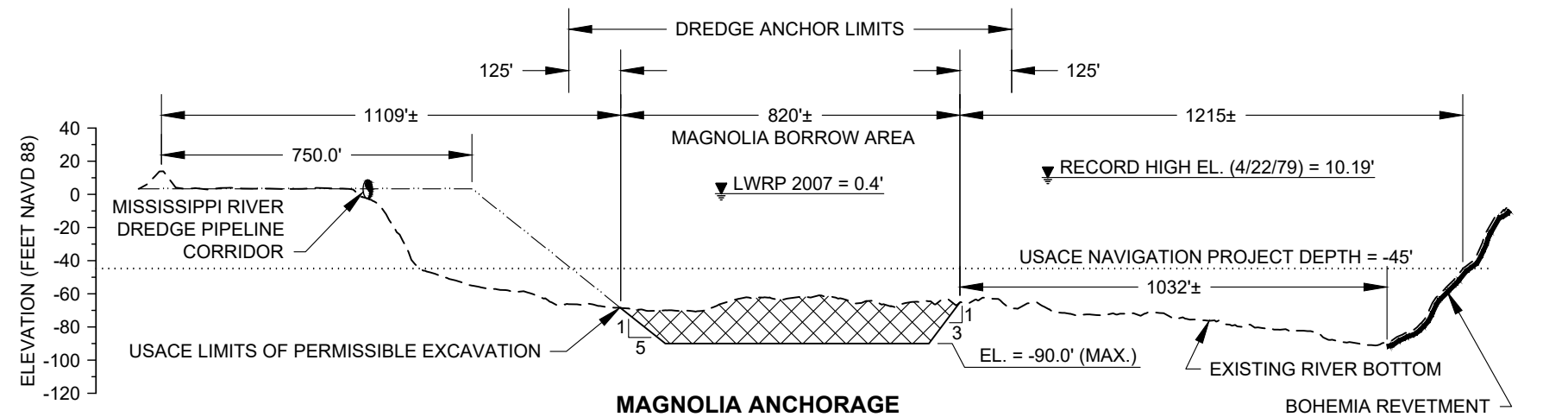
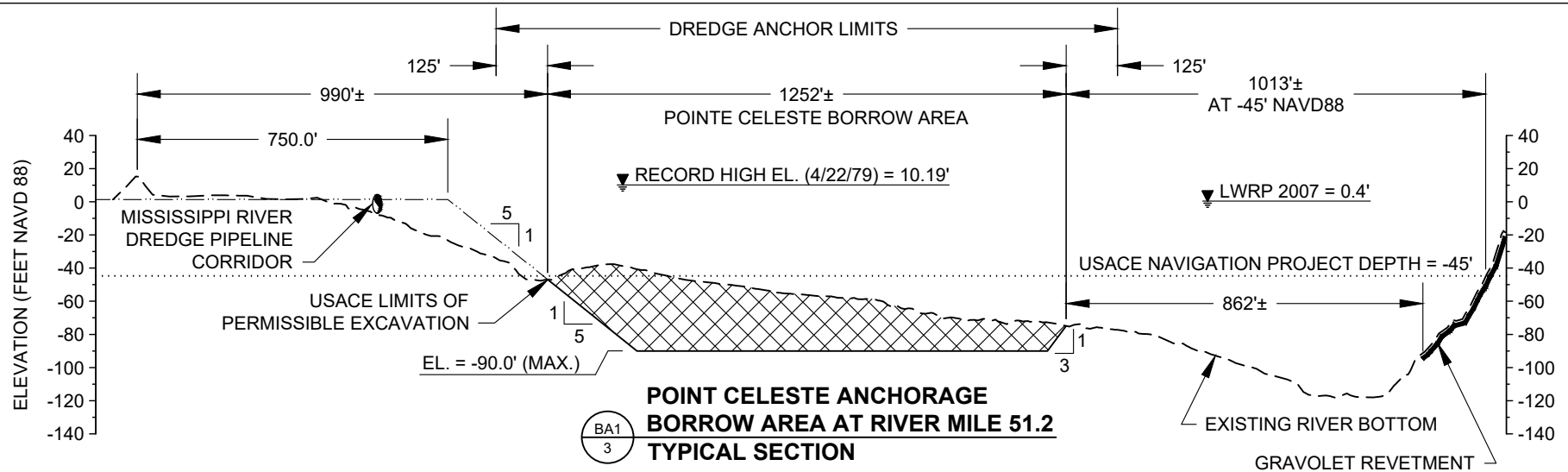
STATE PROJECT NUMBER: BA-0240

FEDERAL PROJECT NUMBER:

MARSH CREATION AREA
 PLAN VIEW

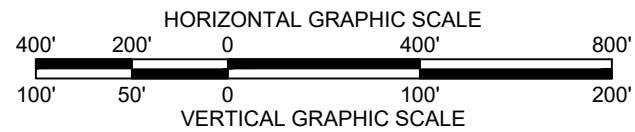
DATE: FEB. 2020

SHEET 6 OF 20



LEGEND	
	BORROW AREA
	NOVEMBER - DECEMBER 2019 SURVEY
	APPROXIMATE EXISTING GRADE
	EXISTING REVETMENT

BA2
3



APPLICATION BY:
CPRA
P.O. BOX 44027
BATON ROUGE, LA 70804

DRAWN BY: K. CANTU

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DESIGNED BY: A. LINSON, E.I.

APPROVED BY: R. JOFFRION, P.E. 27661

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

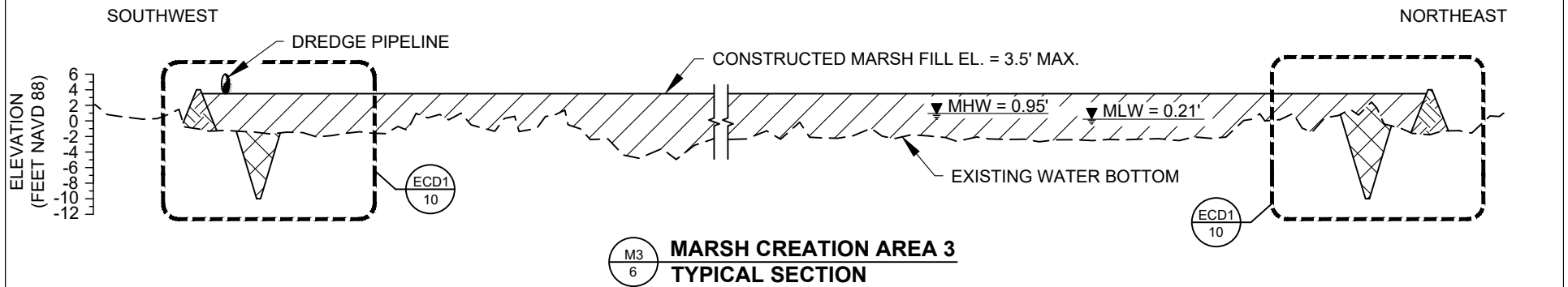
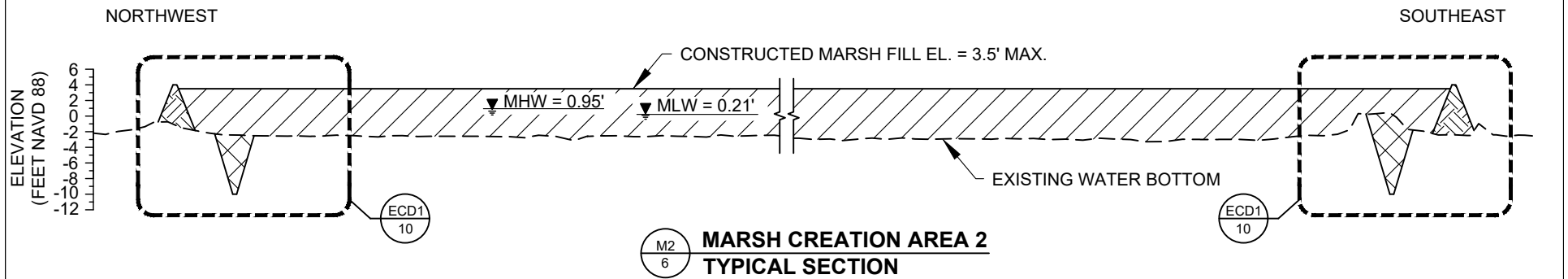
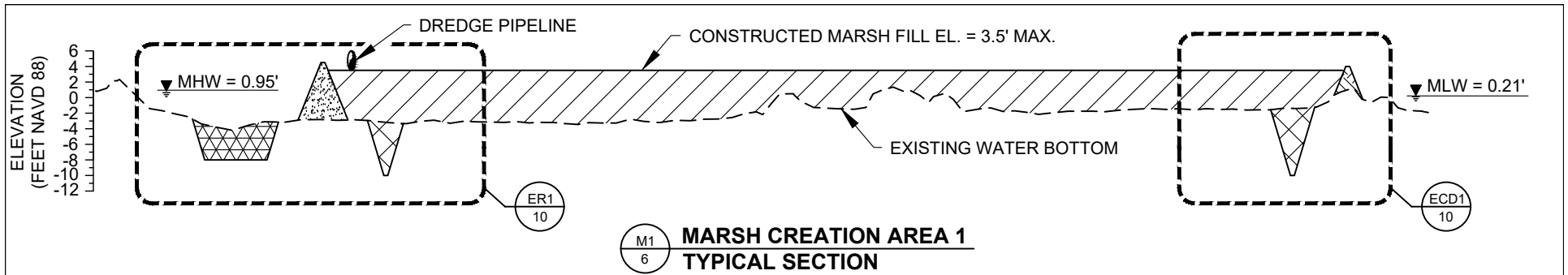
STATE PROJECT NUMBER: BA-0240

FEDERAL PROJECT NUMBER:

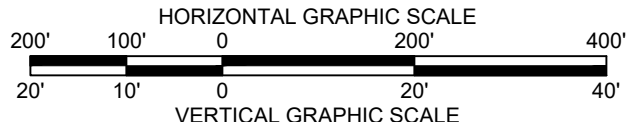
TYPICAL BORROW
AREA SECTIONS

DATE: MARCH 2020

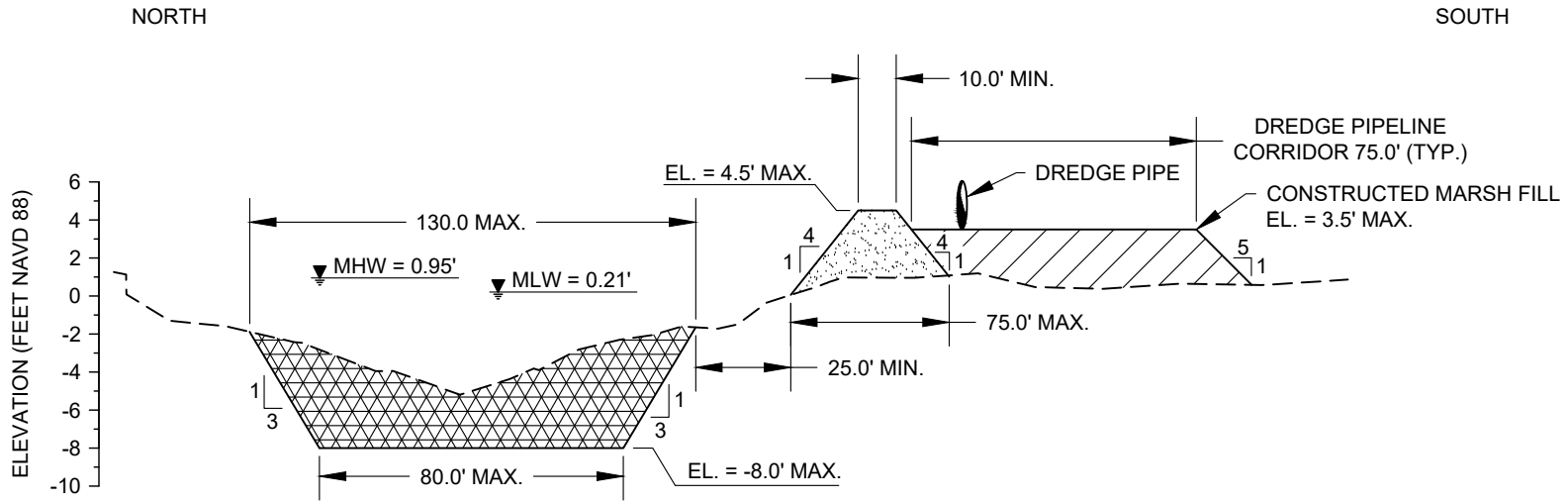
SHEET 7 OF 20



LEGEND			
	EARTHEN CONTAINMENT DIKE		MARSH CREATION FILL
	EARTHEN RIDGE		BORROW AREA
	POTENTIAL EQUIPMENT ACCESS DREDGING		EXISTING WATER BOTTOM

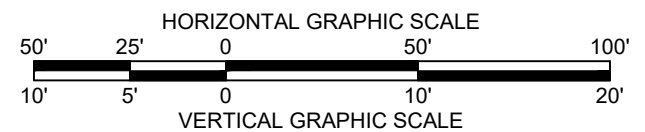


APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	TYPICAL MARSH CREATION AREA SECTIONS
			STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER:	SHEET 8 OF 20

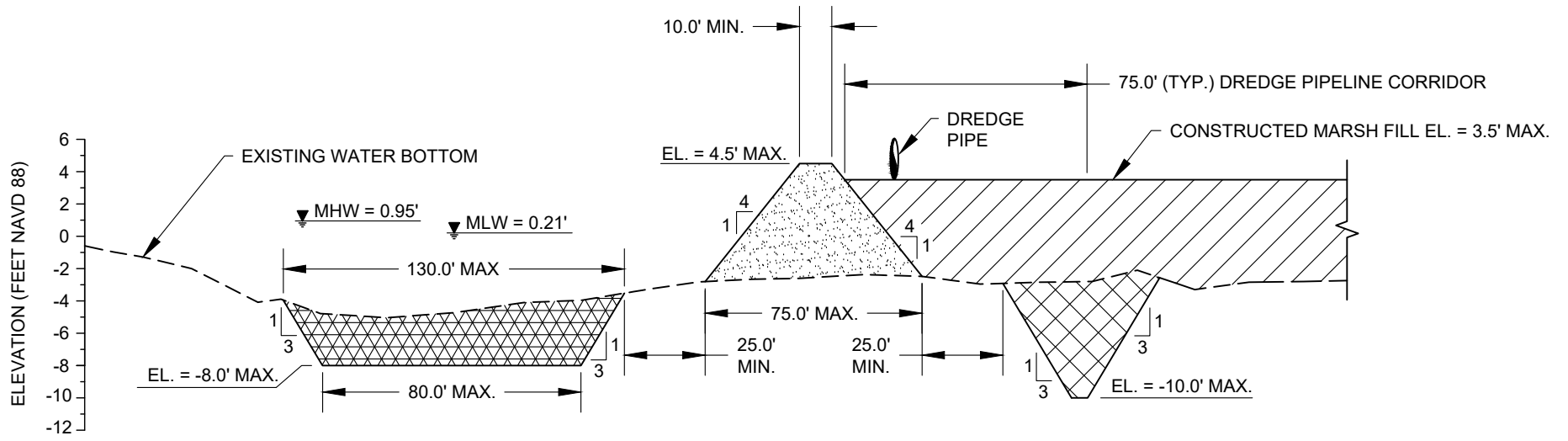


M4
2.4.6 **MARSH CREATION AREA 4**
TYPICAL SECTION

LEGEND	
	EARTHEN RIDGE
	POTENTIAL EQUIPMENT ACCESS DREDGING
	MARSH CREATION FILL
	EXISTING WATER BOTTOM

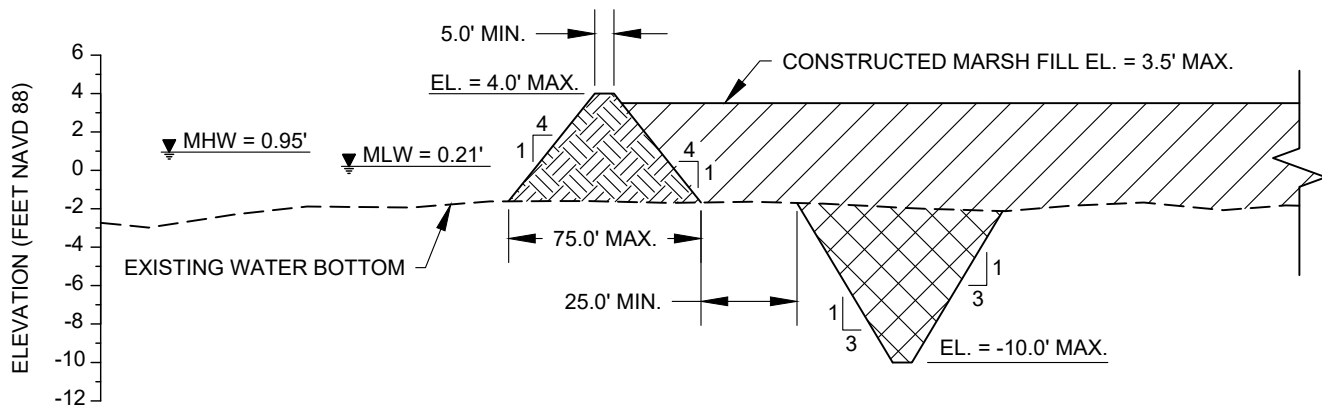


APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	TYPICAL MARSH CREATION AREA SETIONS
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 9 OF 20



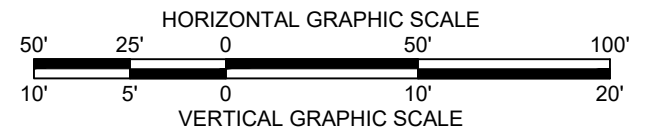
ER1
2.4.8 **EARTHEN RIDGE
DETAIL**

NOTES:
1. THE IN-SITU MATERIAL EXCAVATED FROM THE EQUIPMENT ACCESS CORRIDOR SHALL BE THE PRIMARY BORROW TO CONSTRUCT THE EARTHEN RIDGE.

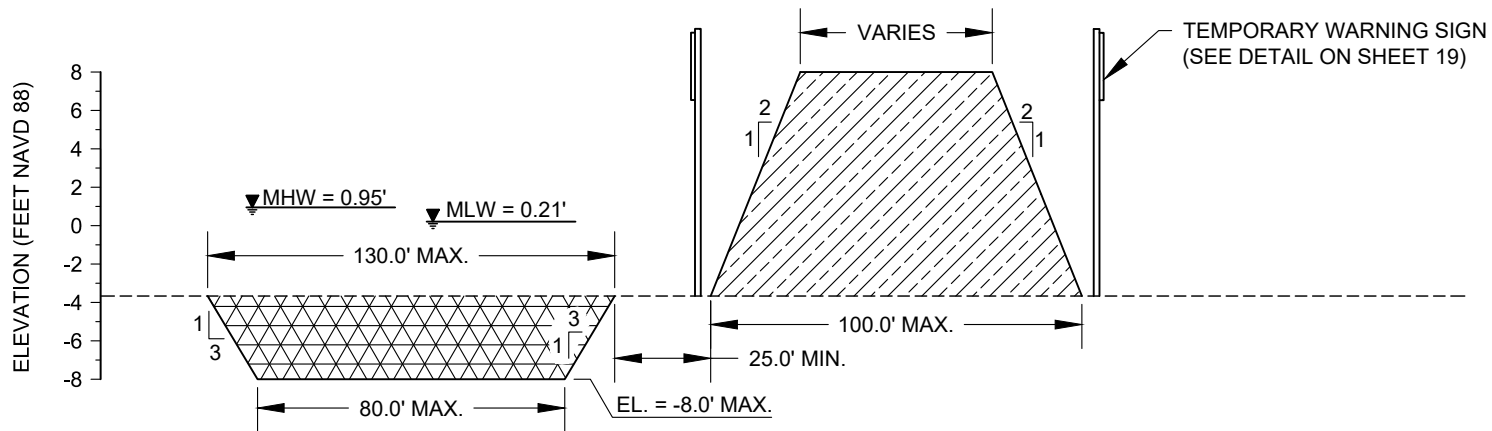


ECD1
8 **EARTHEN CONTAINMENT DIKE
DETAIL**

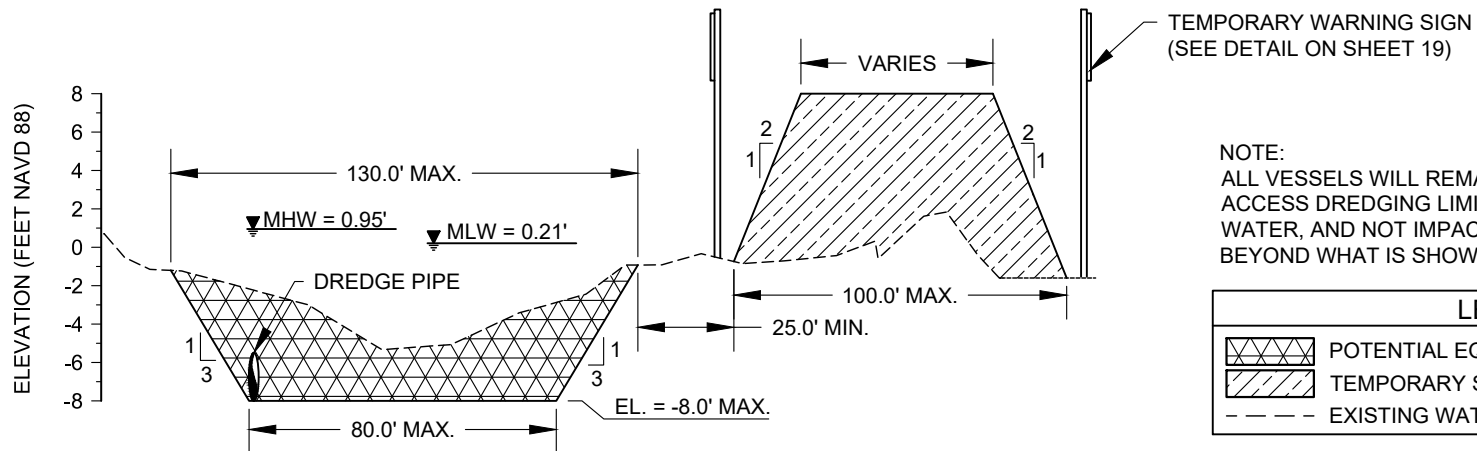
LEGEND	
	EARTHEN CONTAINMENT DIKE
	EARTHEN RIDGE
	BORROW AREA
	POTENTIAL EQUIPMENT ACCESS DREDGING
	MARSH CREATION FILL
	EXISTING WATER BOTTOM



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	EARTHEN RIDGE AND CONTAINMENT DIKE DETAIL
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 10 OF 20



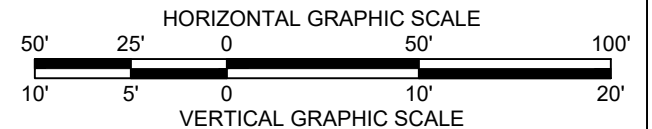
EA1
2 **POTENTIAL EQUIPMENT ACCESS DREDGING SECTION**



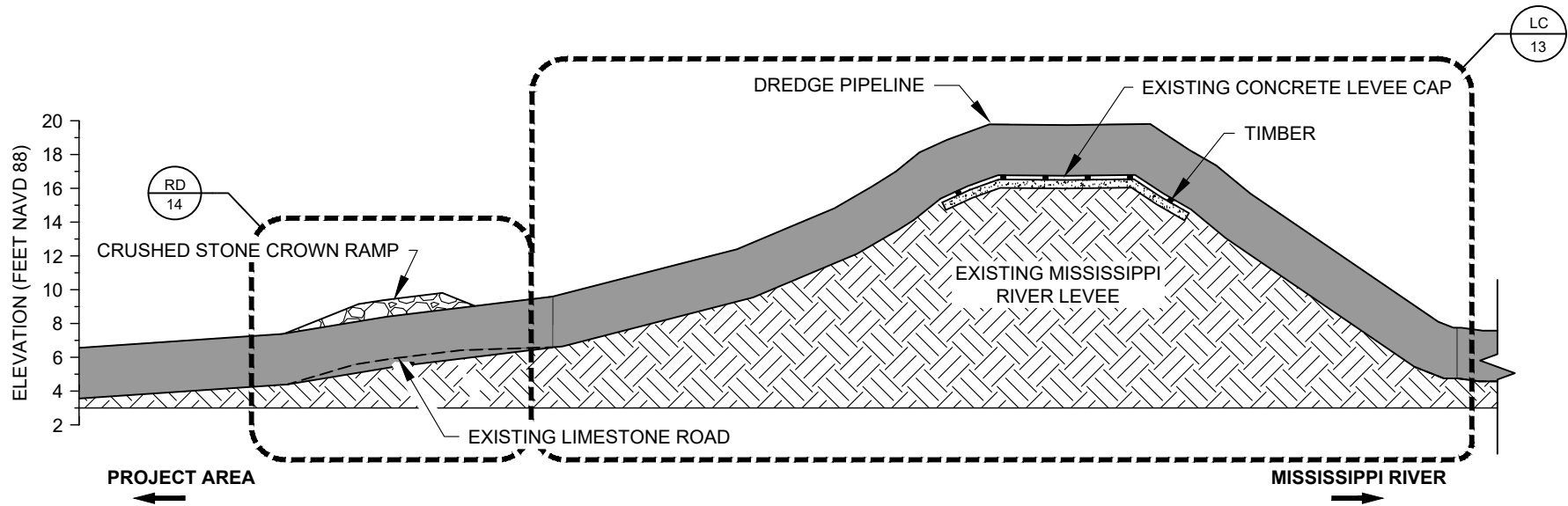
EA2
2,4 **POTENTIAL EQUIPMENT ACCESS DREDGING SECTION**

NOTE:
ALL VESSELS WILL REMAIN WITHIN THE EQUIPMENT ACCESS DREDGING LIMITS, FLOATING IN OPEN WATER, AND NOT IMPACT WATER BOTTOMS BEYOND WHAT IS SHOWN IN THE SECTIONS.

LEGEND	
	POTENTIAL EQUIPMENT ACCESS DREDGING
	TEMPORARY SPOIL
	EXISTING WATER BOTTOM

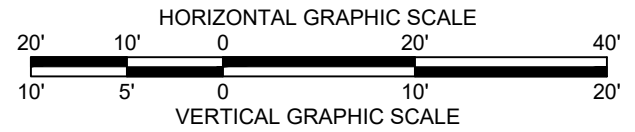


APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	EQUIPMENT ACCESS TYPICAL SECTION
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 11 OF 20

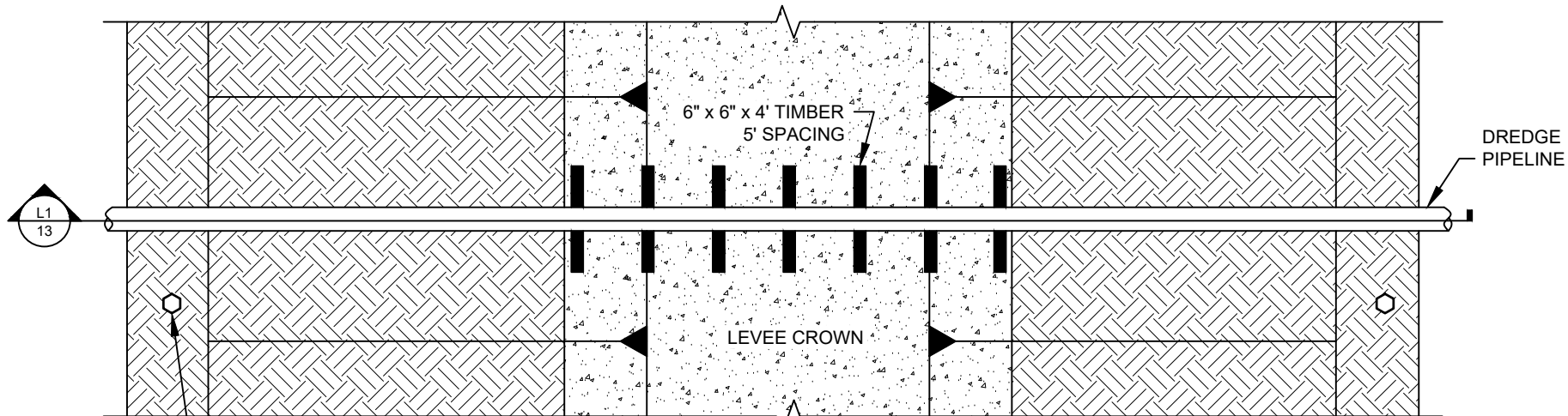


MRL
5
MISSISSIPPI RIVER LEVEE AND ADJACENT LIMESTONE ROAD CROSSING SECTION

LEGEND	
	MISSISSIPPI RIVER LEVEE
	DREDGE PIPELINE
	LIMESTONE ROAD
	CONCRETE LEVEE CAP
- - - -	EXISTING GROUND
■	TIMBER



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	MISSISSIPPI RIVER LEVEE TYPICAL SECTION
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 12 OF 20

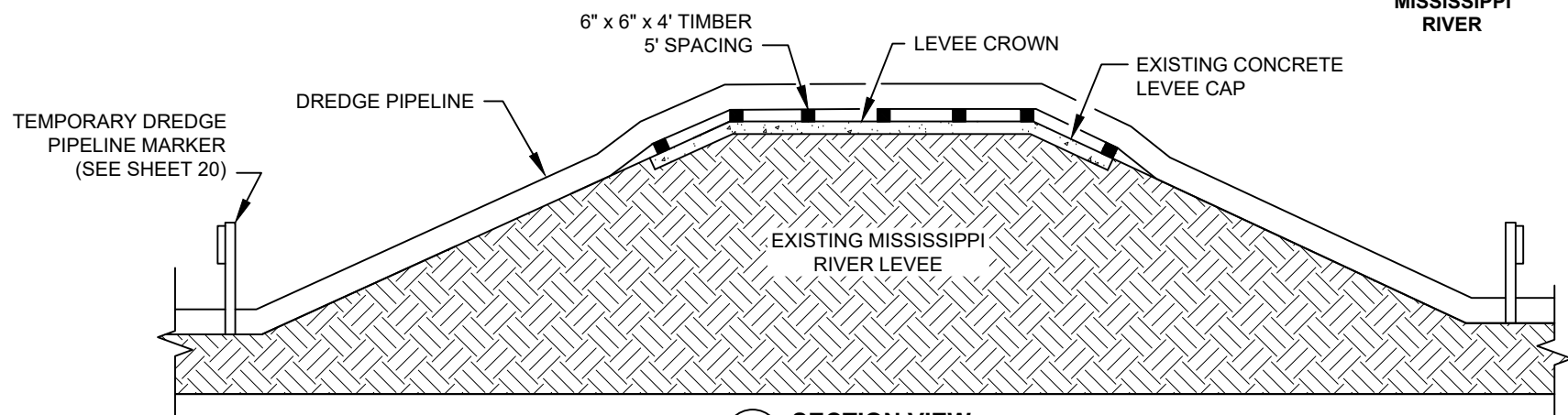


PLAN VIEW

TEMPORARY DREDGE PIPELINE MARKER (SEE SHEET 20)

EXISTING CONCRETE LEVEE CAP

MISSISSIPPI RIVER



SECTION VIEW

TEMPORARY DREDGE PIPELINE MARKER (SEE SHEET 20)

6" x 6" x 4" TIMBER 5' SPACING

LEVEE CROWN

EXISTING CONCRETE LEVEE CAP

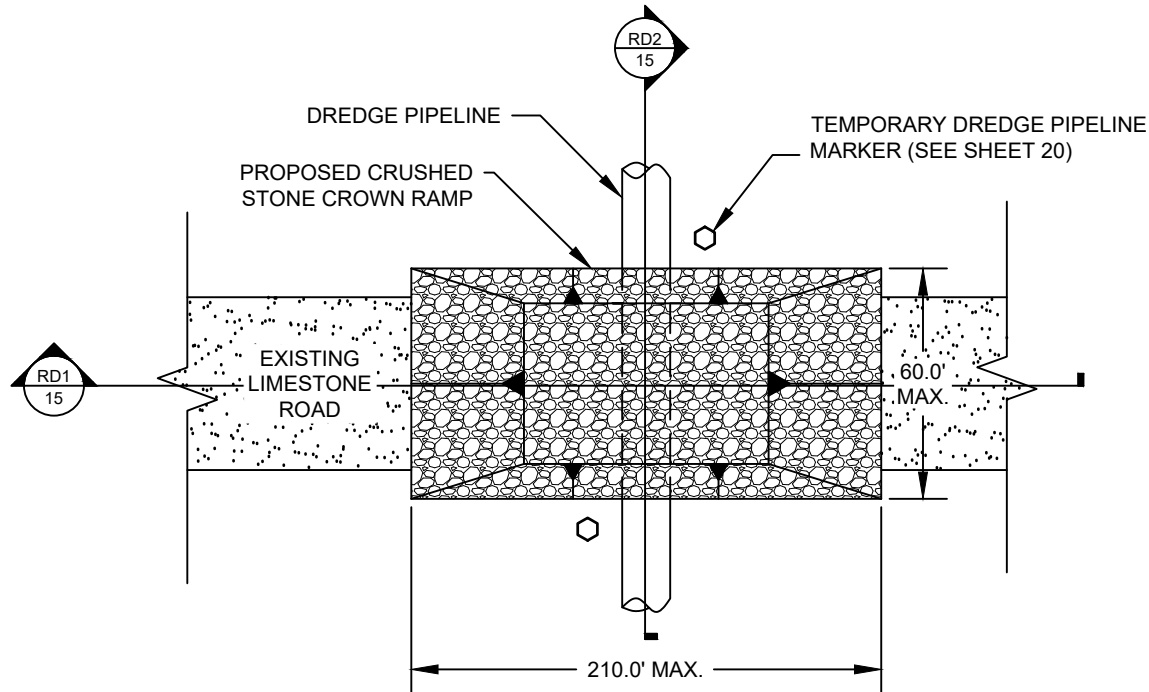
EXISTING MISSISSIPPI RIVER LEVEE

MISSISSIPPI RIVER LEVEE CROSSING
NOT TO SCALE

NOTES:

1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR THE DREDGE PIPELINE.

APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	MISSISSIPPI RIVER LEVEE CROSSING DETAILS
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	STATE PROJECT NUMBER: BA-0240
FEDERAL PROJECT NUMBER:			DATE: MARCH 2020
			SHEET 13 OF 20



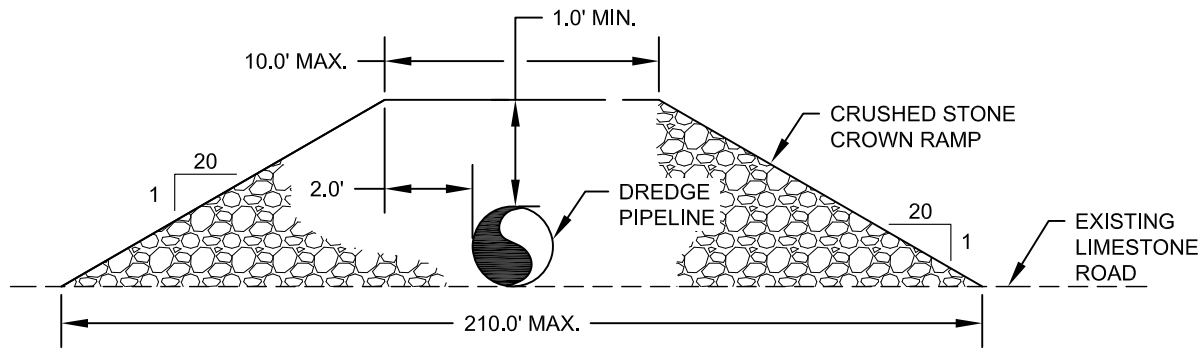
PLAN VIEW

RD 12 LIMESTONE ROAD CROSSING
NOT TO SCALE

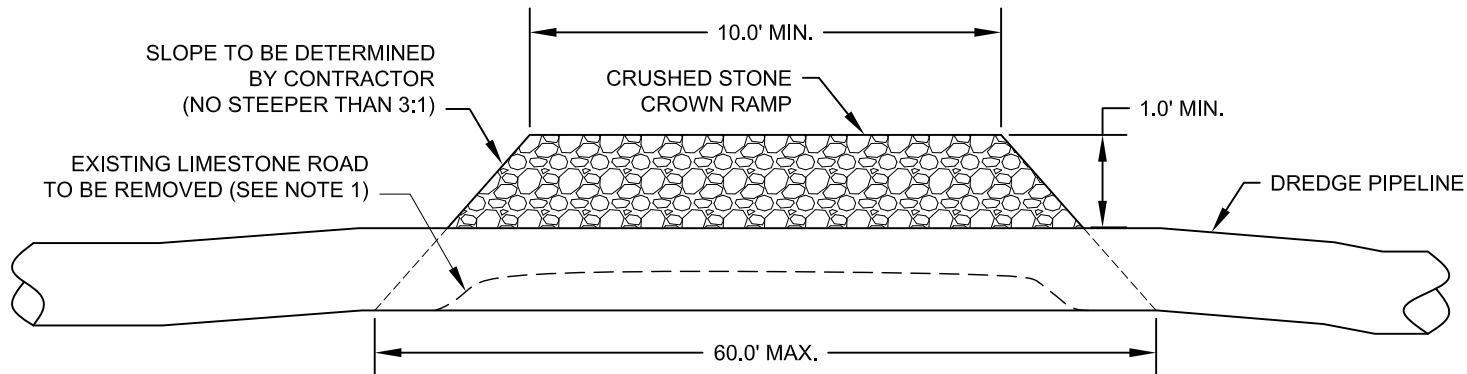
NOTES:

1. THE EXISTING LIMESTONE ROAD SHALL BE REMOVED FOR EASE OF CONSTRUCTION. AFTER THE REMOVAL OF DREDGE PIPE, THE ROAD SHALL BE REBUILT TO PRIOR CONDITION.
2. THE CROWN RAMP OVER THE DREDGE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LADOTD 2006 STANDARD SPECIFICATION 1003.04 (a).
3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	LIMESTONE ROAD CROSSING DETAILS
DRAWN BY: K. CANTU		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER:	SHEET 14 OF 20



RD1
14 **LIMESTONE ROAD CROSSING SECTION**
NOT TO SCALE

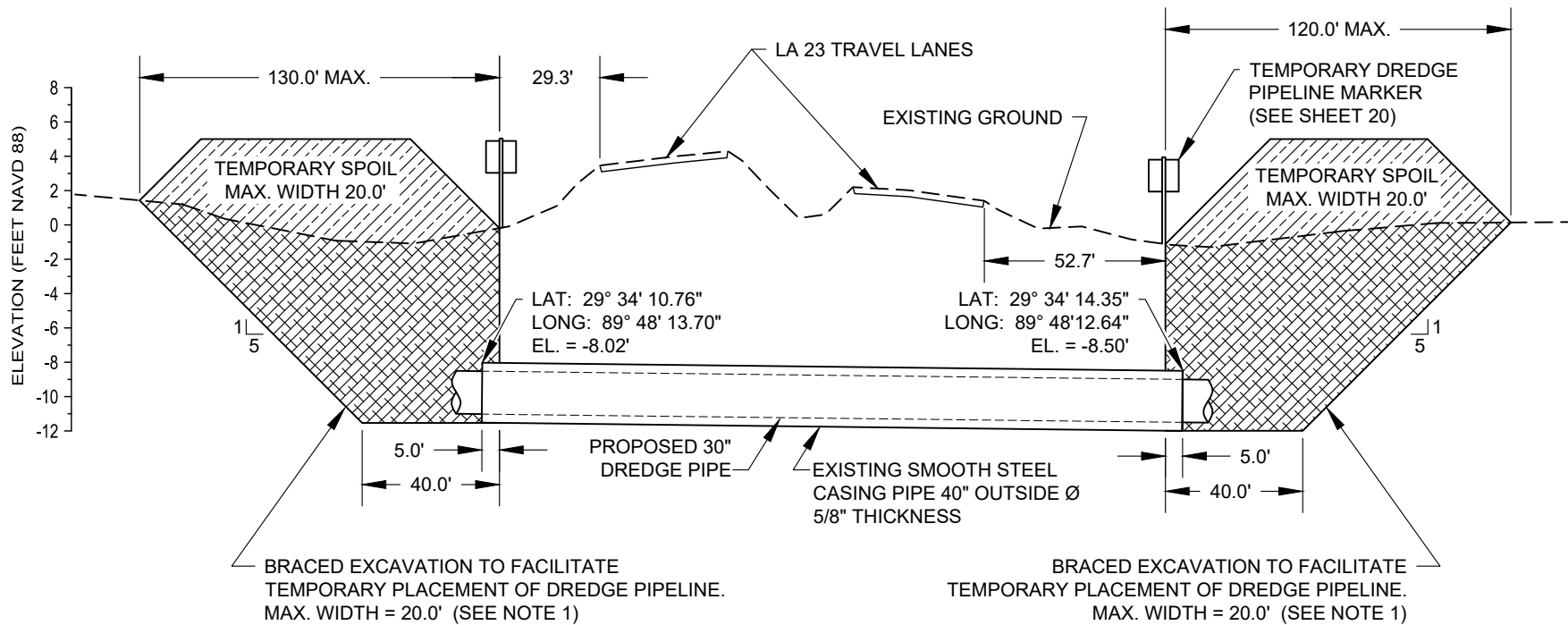


RD2
14 **LIMESTONE ROAD CROSSING PROFILE**
NOT TO SCALE

NOTES:

1. THE EXISTING LIMESTONE ROAD SHALL BE REMOVED FOR EASE OF CONSTRUCTION. AFTER THE REMOVAL OF DREDGE PIPE, THE ROAD SHALL BE REBUILT TO PRIOR CONDITION.
2. THE CROWN RAMP OVER THE DREDGE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LADOTD 2006 STANDARD SPECIFICATION 1003.04 (a).
3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	LIMESTONE ROAD CROSSING DETAILS
		STATE PROJECT NUMBER: BA-0240	DATE: AUGUST 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 15 OF 20

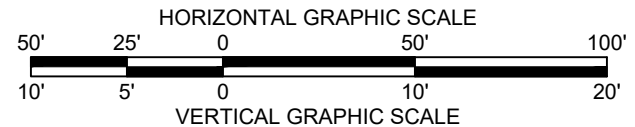


HC
5
**HIGHWAY CROSSING
TYPICAL SECTION**

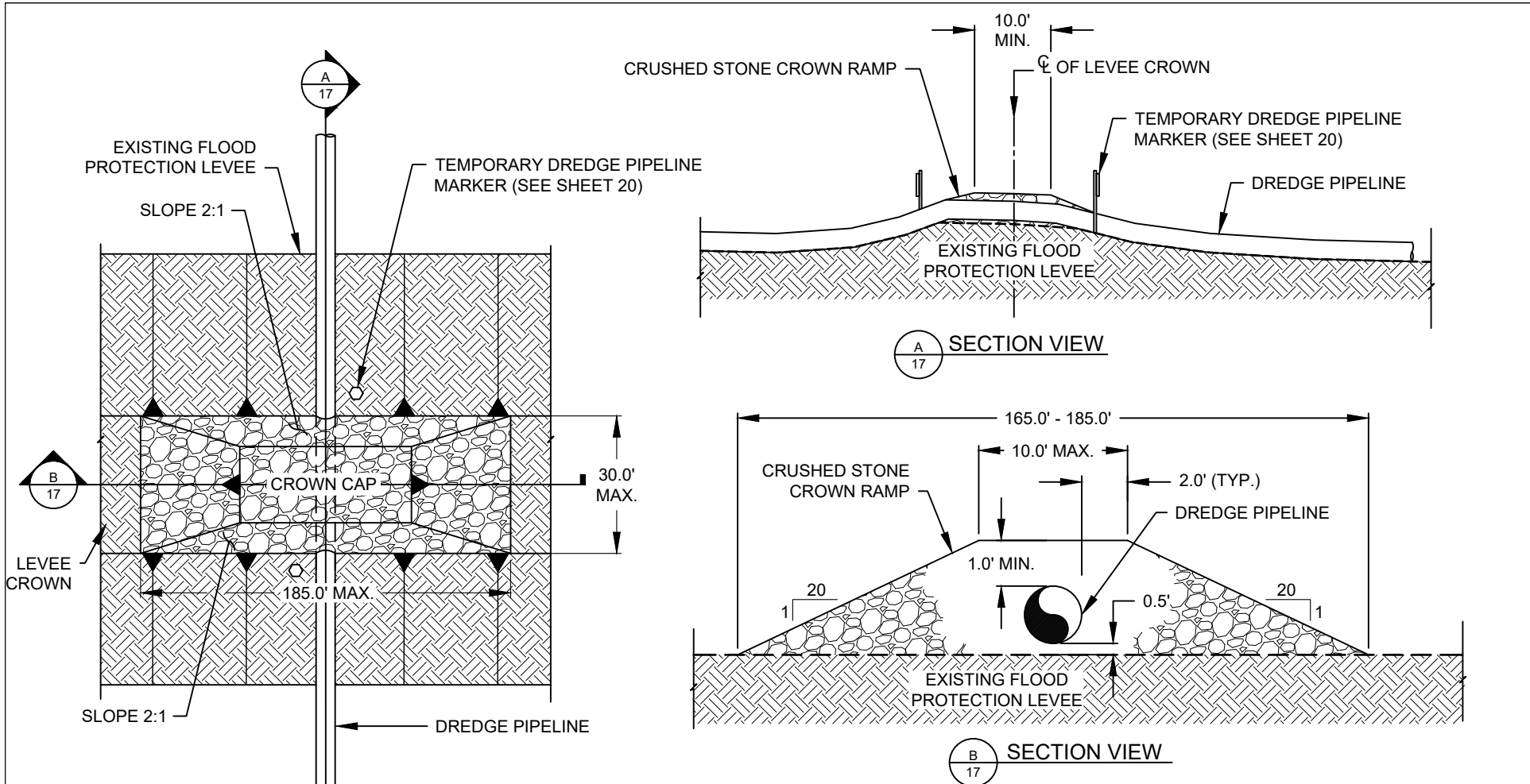
LEGEND	
	EXCAVATION
	TEMPORARY SPOIL
	EXISTING GROUND

NOTES:

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE BRACED EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO THE EXCAVATION.



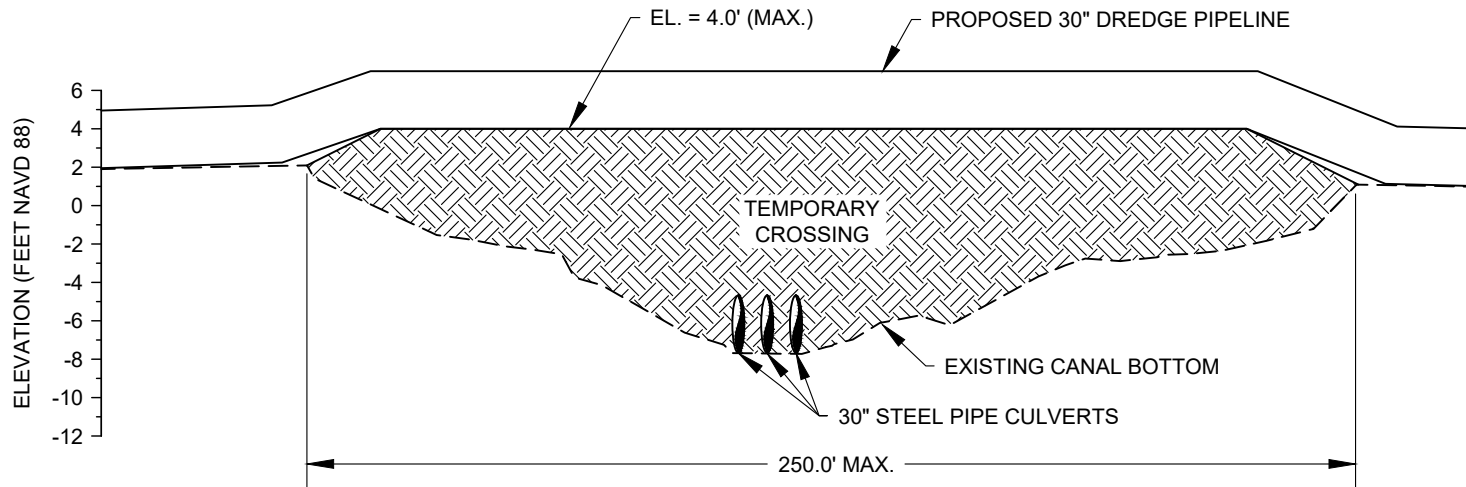
APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	HIGHWAY CROSSING SECTION
DRAWN BY: K. CANTU		DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
		FEDERAL PROJECT NUMBER:	SHEET 16 OF 20



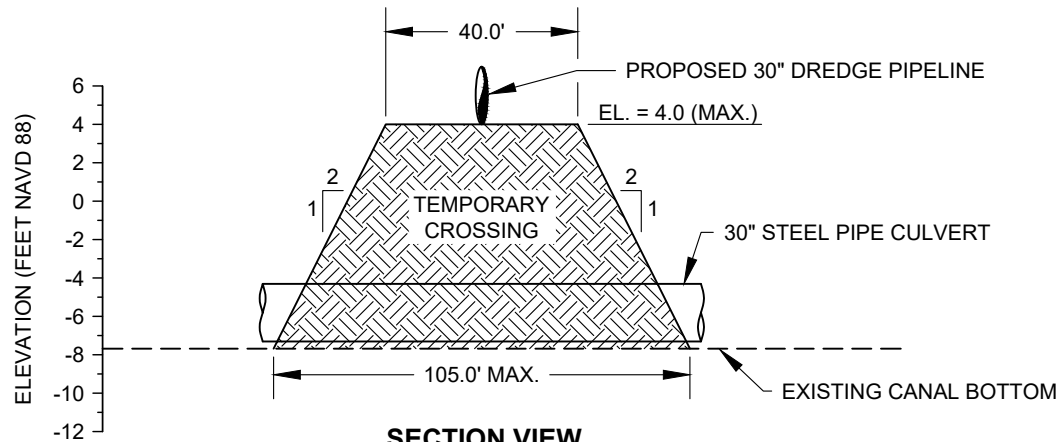
- NOTES:
1. THE CROWN RAMP OVER THE DREDGE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO LA DOTD SPECIFICATION 1003.04 (a) OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.

FPL 5 DREDGE PIPELINE FLOOD PROTECTION LEVEE CROSSING DETAIL
NOT TO SCALE

APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	FLOOD PROTECTION LEVEE CROSSING DETAIL
DRAWN BY: K. CANTU		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER:	SHEET 17 OF 20



PROFILE VIEW



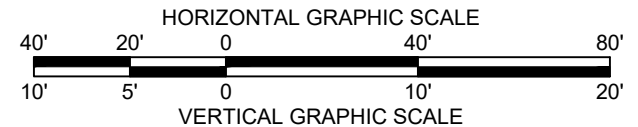
SECTION VIEW

NOTES:

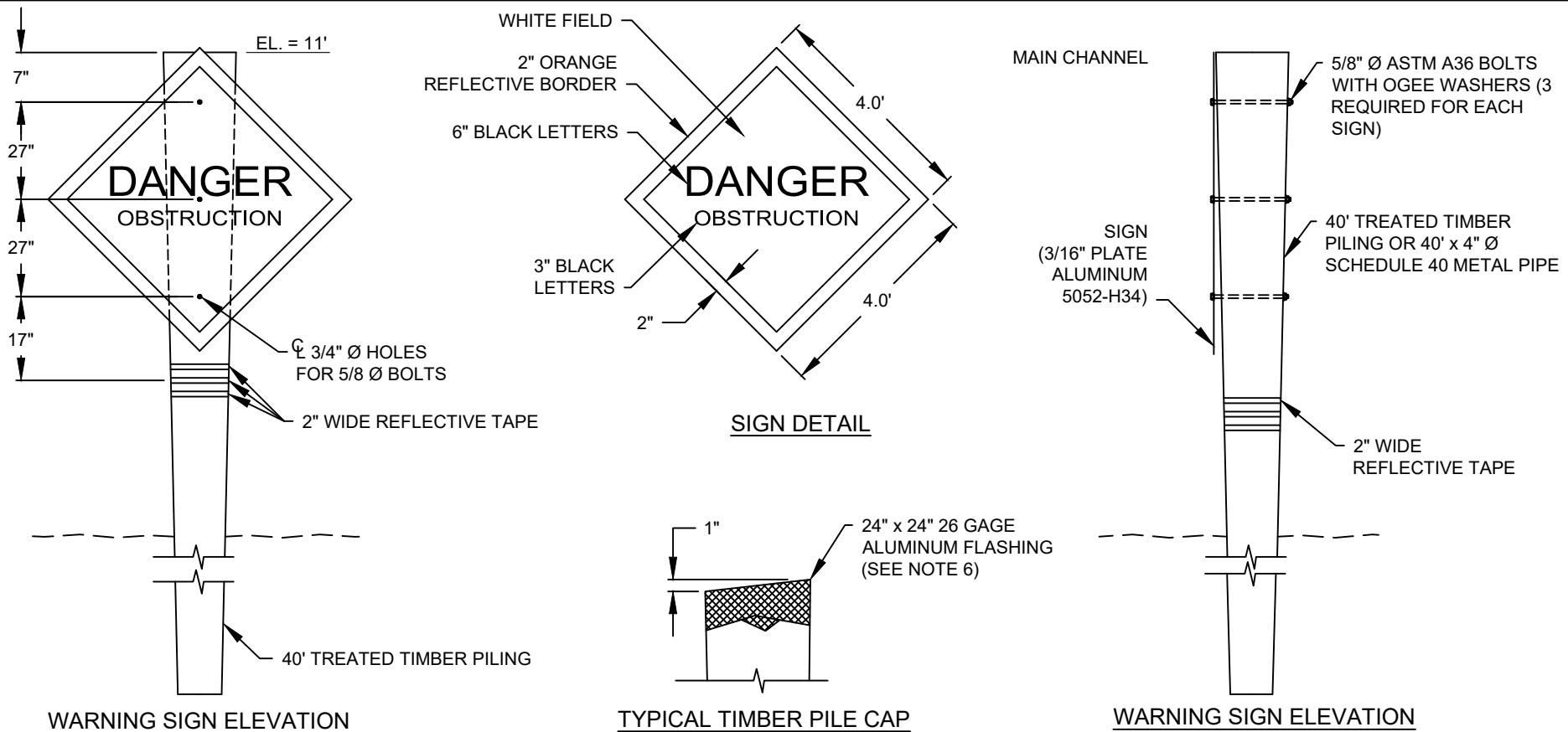
1. THE TEMPORARY CANAL CROSSINGS SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.



TEMPORARY CANAL CROSSING



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	TEMPORARY CANAL CROSSING DETAIL
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	STATE PROJECT NUMBER: BA-0240
FEDERAL PROJECT NUMBER:			DATE: MARCH 2020
			SHEET 18 OF 20

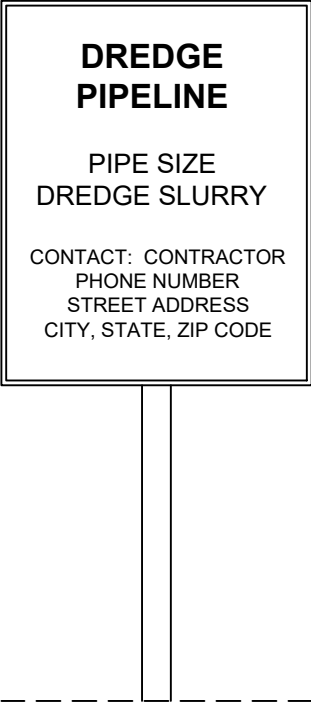


WS
11
TEMPORARY WARNING SIGN DETAIL
 NOT TO SCALE

NOTES:

1. TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS AND BE IN ACCORDANCE WITH 33 CFR §66--PRIVATE AIDS TO NAVIGATION.
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
5. TIMBER PILINGS SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

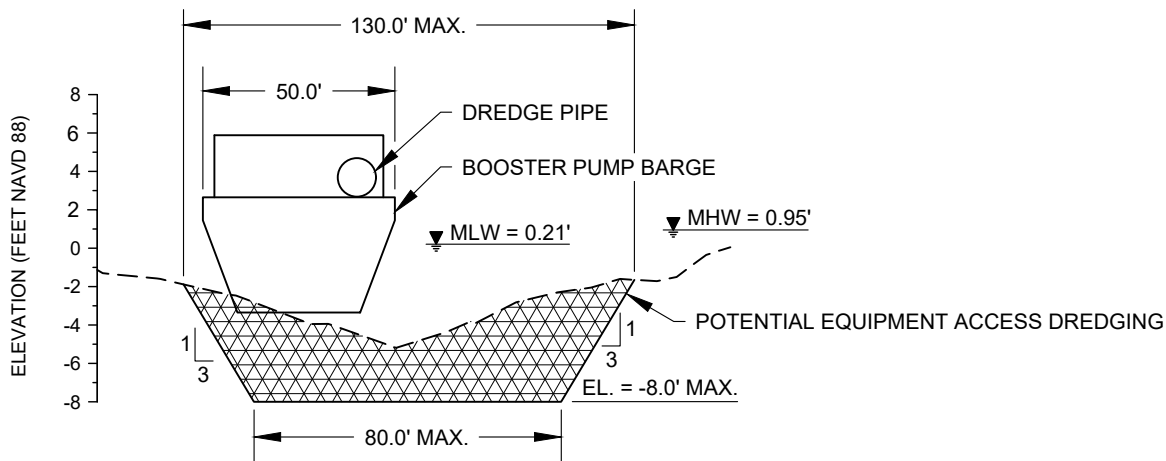
APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	MARSH CREATION PROJECT	TEMPORARY WARNING SIGN DETAIL
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 19 OF 20



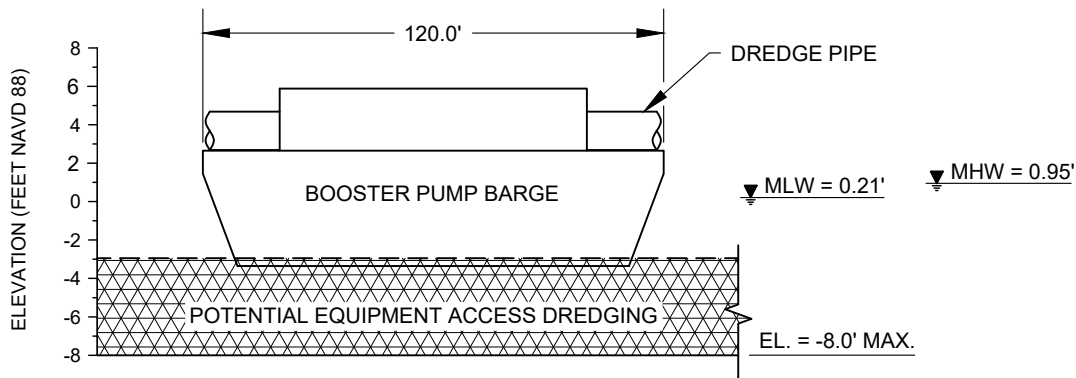
DPM
13,14,16,17
**TEMPORARY DREDGE PIPELINE
MARKER TYPICAL DETAIL**
 NOT TO SCALE

- NOTES:
1. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTION 729 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LADOTD, LATEST EDITION.
 2. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE MARKERS.
 3. MARKERS SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE DREDGE PIPELINE AND REMOVED AFTER THE REMOVAL OF THE DREDGE PIPELINE.
 4. MARKERS SHALL BE INSTALLED ON BOTH SIDES OF THE CROSSING.



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	TEMPORARY DREDGE PIPELINE MARKER DETAIL
		STATE PROJECT NUMBER: BA-0240	DATE: MARCH 2020
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	FEDERAL PROJECT NUMBER: SHEET 20 OF 20

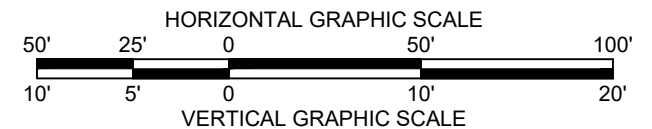


**BOOSTER PUMP
TYPICAL SECTION**



**BOOSTER PUMP
TYPICAL PROFILE**

LEGEND	
	POTENTIAL EQUIPMENT ACCESS DREDGING
	EXISTING WATER BOTTOM



APPLICATION BY: CPRA P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	BOOSTER PUMP TYPICAL SECTION AND PROFILE	
DRAWN BY: K. CANTU	DESIGNED BY: A. LINSON, E.I.	APPROVED BY: R. JOFFRION, P.E. 27661	STATE PROJECT NUMBER: BA-0240 FEDERAL PROJECT NUMBER:	DATE: JUNE 2020 SHEET 21 OF 21

BA-0240 Grande Cheniere Ridge Marsh Creation

10 a. PERMITTED EXCAVATIONS				
Construction Feature	Area (acre)	Total Volume (CY)	Habitat Type	Area (acre)
Mississippi River Marsh Creation Borrow - Pointe Celeste Borrow Area	226.0	9,187,700	Wetland	0.0
			Non-Vegetated Water Bottoms	226.0
			Land/Non-Wetlands	0.0
Mississippi River Marsh Creation Borrow - Magnolia Anchorage Borrow Area	197.0	6,942,100	Wetland	0.0
			Non-Vegetated Water Bottoms	197.0
			Land/Non-Wetlands	0.0
Hwy 23 Crossing	0.12	850	Wetland	0.0
			Non-Vegetated Water Bottoms	0.0
			Land/Non-Wetlands	0.12
Access Dredging	205.5	1,058,200	Wetland	0.0
			Non-Vegetated Water Bottoms	205.5
			Land/Non-Wetlands	0.0
Earthen Containment Dike Borrow	82.0	767,800	Wetland	48.0
			Non-Vegetated Water Bottoms	34.0
			Land/Non-Wetlands	0.0
Total Permitted Excavations	711	17,956,650		

10 b. FILLS				
Construction Feature	Area (acre)	Total Volume (CY)	Habitat Type	Area (acre)
Marsh Fill	1,080.00	10,114,500	Wetland	148
			Non-Vegetated Water Bottoms	932.0
			Land/Non-Wetlands	0.0
Earthen Ridge	20.00	207,500	Wetland	8.0
			Non-Vegetated Water Bottoms	12.0
			Land/Non-Wetlands	0.0
Earthen Containment Dikes	62.00	533,125	Wetland	33.0
			Non-Vegetated Water Bottoms	29.0
			Land/Non-Wetlands	0.0
Temporary Placement of Access Dredged Fill	120.00	818,900	Wetland	14.0
			Non-Vegetated Water Bottoms	106.0
			Land/Non-Wetlands	0.0
Gravel Road Crossings	0.05	225	Wetland	0.0
			Non-Vegetated Water Bottoms	0.0
			Land/Non-Wetlands	0.15
Highway 23 Crossing	0.12	850	Wetland	0.0
			Non-Vegetated Water Bottoms	0.0
			Land/Non-Wetlands	0.12
Total Fills	1,282	11,675,100		

CONSTRUCTION EXCAVATIONS				
Construction Feature	Area (acre)	Total Volume (CY)	Habitat Type	Area (acre)
Mississippi River Borrow Area (req'd)		10,153,300		
Earthen Ridge Borrow Area (req'd)		173,100		
Containment Dikes Borrow Area (req'd)		501,025		
Access Dredging		846,600		
Highway 23 Crossing		850		
Total Construction Excavations		11,674,875		