

PUBLIC NOTICE

January 18, 2021

United States Army Corps of Engineers
New Orleans District
Regulatory Branch
7400 Leake Avenue
New Orleans, Louisiana 70118

(504) 862-1577
Project Manager
Patricia Clune
Patricia.R.Clune@usace.army.mil
MVN 2014-02026-CE

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).

**PROPOSED PERMIT MODIFICATION FOR THE CAMINADA HEADLANDS
BACK BARRIER MARSH CREATION PROJECT BA-171 AND BA-193 IN
LAFOURCHE PARISH**

NAME OF APPLICANT: Louisiana Coastal Protection and Restoration Authority, P.O. Box 44027, Baton Rouge, Louisiana 70804.

LOCATION OF WORK: In back marsh along the Caminada headlands (Latitude: 29.127317, Longitude: -90.154439) near Port Fourchon in Lafourche Parish, within the East Central Louisiana Coastal basin in hydrological unit (HUC 08090301), as shown on the attached drawings.

CHARACTER OF WORK: The applicant has requested a Department of the Army permit modification for the previously issued Caminada Headlands Back Barrier Marsh Creation Project (BA-171) and Caminada Headland Back Barrier Marsh Creation Increment 1 Project (BA-193). Due to impacts from Hurricane Zeta, the proposed modification will require the construction of an exterior containment dike along the north side of the project area and partial restoration of dunes along the south side to facilitate the previously permitted marsh creation projects. The additional work will require 175 acres of impacts and the excavation of 367,239 cubic yards of material.

The applicant has stated that the project is intended to restore existing dunes and create a platform upon which the beach and dune can migrate, reducing the likelihood of breaching, improving the longevity of the barrier shoreline, and protecting wetlands and infrastructure to the north and west. The project has been designed to restore the geomorphic and ecologic form and function of the barrier island features at

the Caminada Headlands to provide and protect marsh habitats. The project proposes to add sand material in areas most susceptible to breaching and provide benefits through the restoration and nourishment of important coastal habitats. In total, approximately 428 acres (7,009,366 cubic yards) of native waterbottom material will be dredged and placed as fill to create 1,061 acres of marsh habitat. The applicant has claimed that the project has been designed to avoid and minimize direct and secondary adverse wetland impacts to the maximum extent practicable. The applicant is proposing that the project derived benefits and habitat creation would outweigh any detrimental impacts to wetland losses as a result of project implementation and would enhance the coastal ecosystem and provide for longer sustainability. Therefore, compensatory mitigation requirements are not anticipated.

The comment period for the Department of the Army Permit modification will close **20 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 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 modification 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. 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 Section 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.

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.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Interior. The New Orleans District has determined that the proposed project is located in waters known to be utilized by the West Indian Manatee (*Trichechus manatus*). Utilizing Louisiana DKey within the Information for Planning and Consultation (IPaC) system, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has determined that with the inclusion of the Standard Manatee Conditions for In-Water Activities, proposed work is not likely to adversely affect the West Indian Manatee. Additionally, the proposed work has been determined not likely to adversely affect the Kemp's Ridley (*Lepidochelys kempii*), the Loggerhead Sea Turtle (*Caretta caretta*), the piping plover (*Charadrius melodus*) or the Red Knot (*Calidris canutus rufa*).

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 up to 1,061 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 has been issued from the Department of Environmental Quality, under permit number

WQC-180822-01

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.

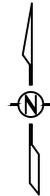
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program (Louisiana Coastal Zone Application P20201107). The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

John M Herman
Chief, Central Evaluation Section
Regulatory Branch

Enclosure

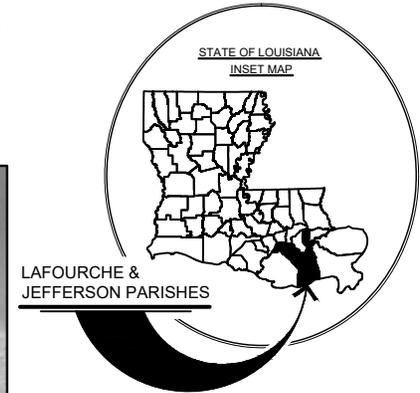
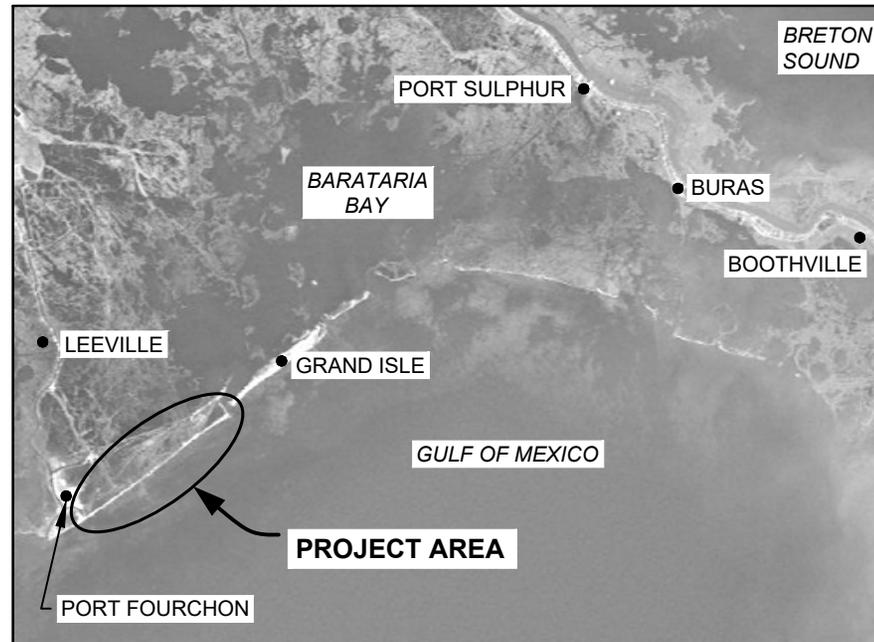
INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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2	PROJECT LAYOUT
3	BORROW AREA LAYOUT
4 - 4A	MARSH CREATION AREA LAYOUT
5	BORROW AREA TYPICAL SECTIONS
6 - 6A	MARSH CREATION AREA TYPICAL SECTIONS
7	DEWATERING AREA TYPICAL SECTION & GEOTEXTILE DETAILS
8	PIPELINE CROSSING DETAIL
9	SETTLEMENT PLATE DETAILS
10	NOTES



STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

**CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT**
BA-0171
LAFOURCHE AND JEFFERSON PARISH, LOUISIANA



PERMIT MODIFICATION

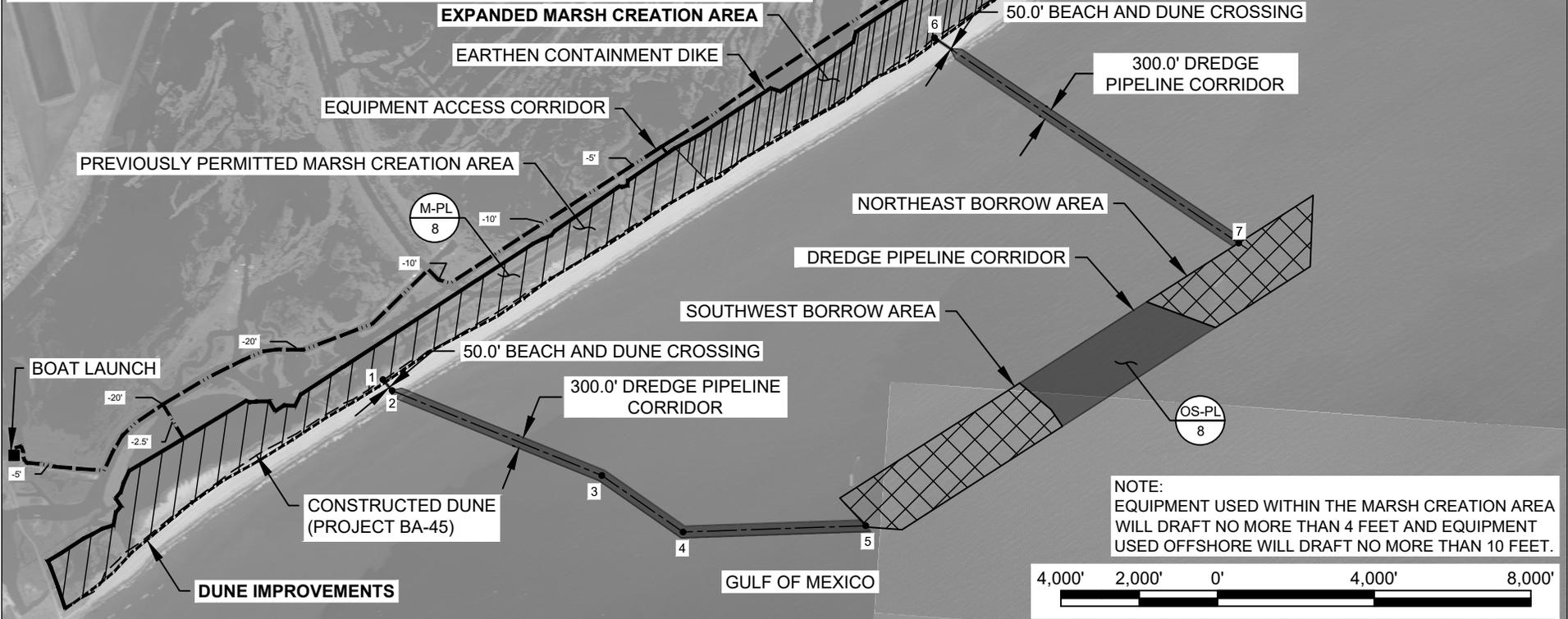
- ADDED SHEETS 4A AND 6A TO THE SHEET INDEX.

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	<p style="text-align: center;">COASTAL PROTECTION AND RESTORATION AUTHORITY</p> <p style="text-align: center;">150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</p>	<p style="text-align: center;">CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT</p>	<p style="text-align: center;">TITLE SHEET</p>
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	STATE PROJECT NUMBER: BA-0171 APPROVED BY: S. HAYNES, P.E.	DATE: JUNE 2018 (REV. 4.2019) SHEET 1 OF 10

EQUIPMENT ACCESS CORRIDOR CENTERLINE COORDINATES		
	LATITUDE	LONGITUDE
1	29° 07' 18.49"	90° 09' 43.44"
2	29° 07' 15.85"	90° 09' 40.60"
3	29° 06' 57.59"	90° 08' 38.87"
4	29° 06' 44.53"	90° 08' 14.59"
5	29° 06' 48.86"	90° 07' 22.24"
6	29° 08' 52.98"	90° 07' 10.76"
7	29° 08' 05.77"	90° 05' 39.83"

LEGEND	
	PREVIOUSLY PERMITTED MARSH CREATION AREA
	EXPANDED MARSH CREATION AREA
	DEWATERING AREA
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	DREDGE PIPELINE CORRIDOR CENTERLINE
	EQUIPMENT ACCESS CORRIDOR
	EARTHEN CONTAINMENT DIKE
	CONSTRUCTED DUNE (BA-45)
	DUNE IMPROVEMENTS (1/2021 PERMIT MOD.)

- 1/2021 PERMIT MODIFICATION**
- PORTIONS OF THE BA-45 DUNE WILL BE IMPROVED DUE TO DAMAGE SUSTAINED FROM HURRICANE ZETA IN ORDER TO SERVE AS CONTAINMENT FOR MARSH FILL.
- 4/2019 PERMIT MODIFICATION**
- EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
 - RELOCATED THE DEWATERING AREA TO THE EAST.
 - MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.



NOTE:
EQUIPMENT USED WITHIN THE MARSH CREATION AREA
WILL DRAFT NO MORE THAN 4 FEET AND EQUIPMENT
USED OFFSHORE WILL DRAFT NO MORE THAN 10 FEET.

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
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. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT

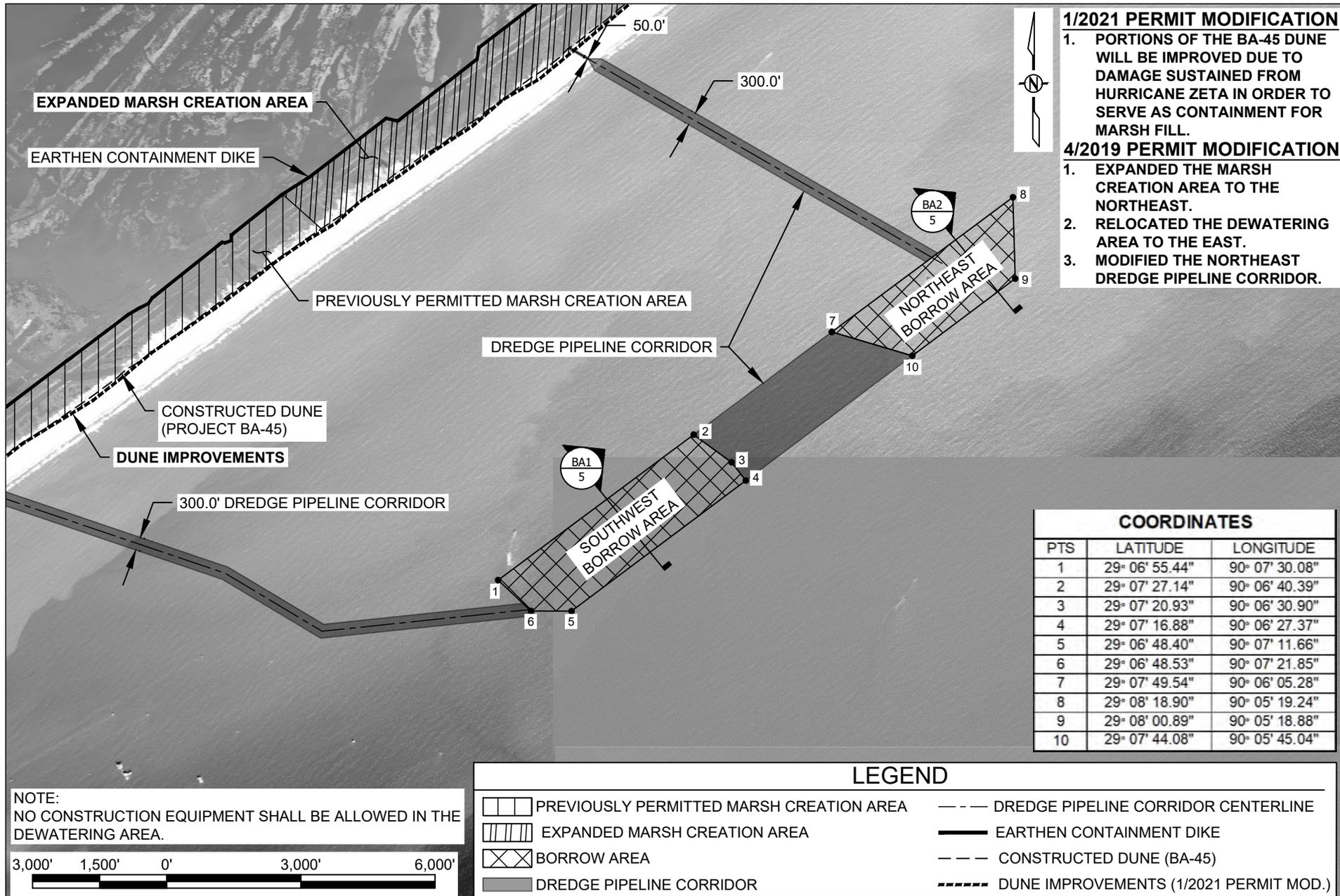
STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

PROJECT LAYOUT

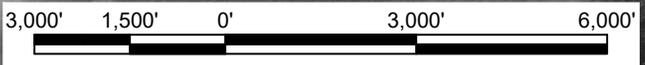
DATE: JUNE 2018 (REV. 4.2019 & 1.2021)

SHEET 2 OF 10



COORDINATES		
PTS	LATITUDE	LONGITUDE
1	29° 06' 55.44"	90° 07' 30.08"
2	29° 07' 27.14"	90° 06' 40.39"
3	29° 07' 20.93"	90° 06' 30.90"
4	29° 07' 16.88"	90° 06' 27.37"
5	29° 06' 48.40"	90° 07' 11.66"
6	29° 06' 48.53"	90° 07' 21.85"
7	29° 07' 49.54"	90° 06' 05.28"
8	29° 08' 18.90"	90° 05' 19.24"
9	29° 08' 00.89"	90° 05' 18.88"
10	29° 07' 44.08"	90° 05' 45.04"

NOTE:
NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED IN THE DEWATERING AREA.



LEGEND	
	PREVIOUSLY PERMITTED MARSH CREATION AREA
	EXPANDED MARSH CREATION AREA
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	DREDGE PIPELINE CORRIDOR CENTERLINE
	EARTHEN CONTAINMENT DIKE
	CONSTRUCTED DUNE (BA-45)
	DUNE IMPROVEMENTS (1/2021 PERMIT MOD.)

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
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. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

BORROW AREA LAYOUT

DATE: JUNE 2018 (REV. 4.2019 & 1.2021)

SHEET 3 OF 10

LEGEND

-  PREVIOUSLY PERMITTED MARSH CREATION AREA
-  EXPANDED MARSH CREATION AREA
-  DREDGE PIPELINE ALIGNMENT
-  CONSTRUCTED DUNE (BA-45)
-  DUNE IMPROVEMENTS (1/2021 PERMIT MOD.)
-  DREDGE PIPELINE ALIGNMENT CENTERLINE
-  EARTHEN CONTAINMENT DIKE WITHOUT GEOTEXTILE FABRIC
-  EARTHEN CONTAINMENT DIKE WITH GEOTEXTILE FABRIC
-  EARTHEN CONTAINMENT DIKE BORROW AREA
-  EQUIPMENT ACCESS CORRIDOR

1/2021 PERMIT MODIFICATION

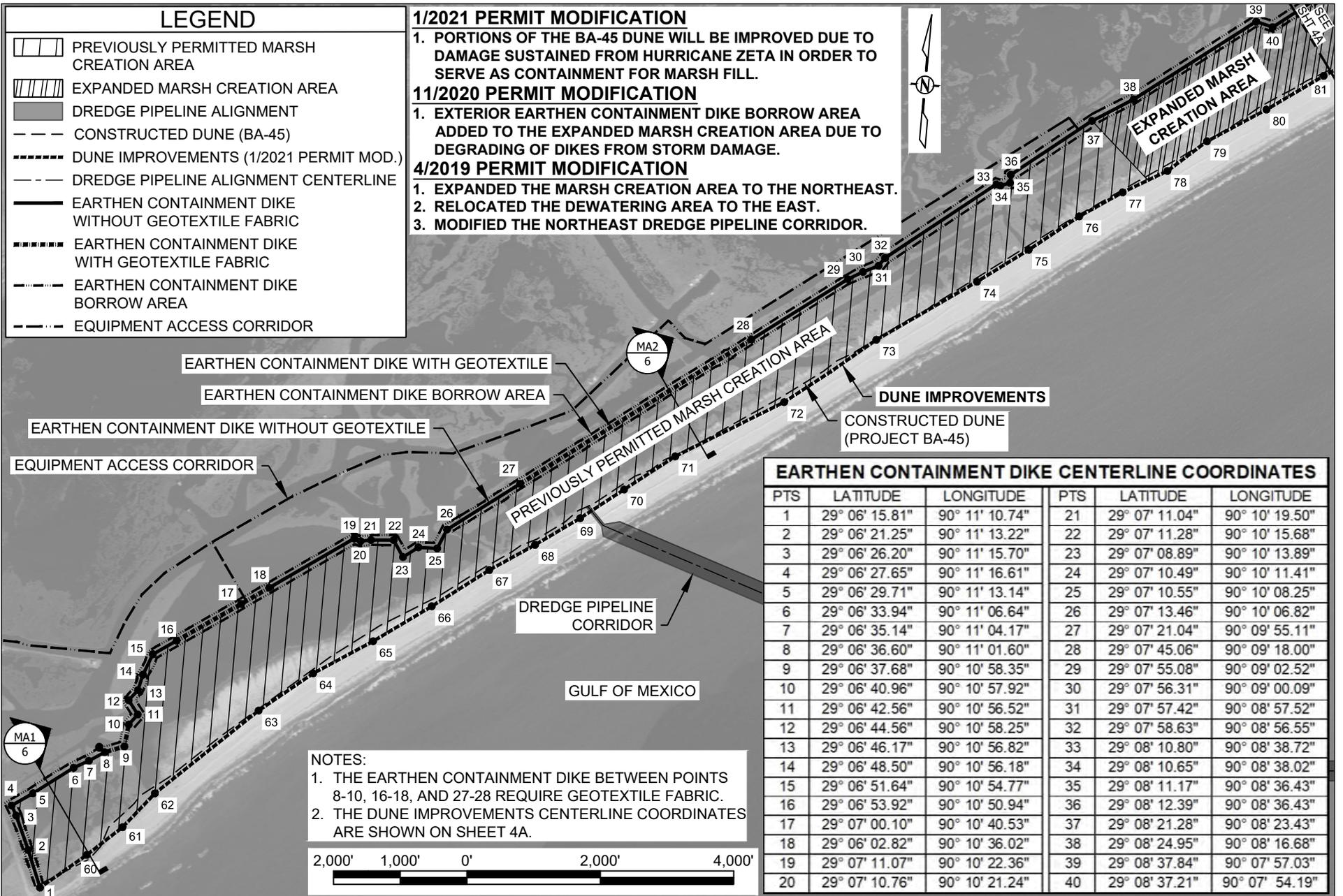
1. PORTIONS OF THE BA-45 DUNE WILL BE IMPROVED DUE TO DAMAGE SUSTAINED FROM HURRICANE ZETA IN ORDER TO SERVE AS CONTAINMENT FOR MARSH FILL.

11/2020 PERMIT MODIFICATION

1. EXTERIOR EARTHEN CONTAINMENT DIKE BORROW AREA ADDED TO THE EXPANDED MARSH CREATION AREA DUE TO DEGRADING OF DIKES FROM STORM DAMAGE.

4/2019 PERMIT MODIFICATION

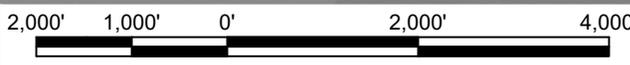
1. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
2. RELOCATED THE DEWATERING AREA TO THE EAST.
3. MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.



EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES

PTS	LATITUDE	LONGITUDE	PTS	LATITUDE	LONGITUDE
1	29° 06' 15.81"	90° 11' 10.74"	21	29° 07' 11.04"	90° 10' 19.50"
2	29° 06' 21.25"	90° 11' 13.22"	22	29° 07' 11.28"	90° 10' 15.68"
3	29° 06' 26.20"	90° 11' 15.70"	23	29° 07' 08.89"	90° 10' 13.89"
4	29° 06' 27.65"	90° 11' 16.61"	24	29° 07' 10.49"	90° 10' 11.41"
5	29° 06' 29.71"	90° 11' 13.14"	25	29° 07' 10.55"	90° 10' 08.25"
6	29° 06' 33.94"	90° 11' 06.64"	26	29° 07' 13.46"	90° 10' 06.82"
7	29° 06' 35.14"	90° 11' 04.17"	27	29° 07' 21.04"	90° 09' 55.11"
8	29° 06' 36.60"	90° 11' 01.60"	28	29° 07' 45.06"	90° 09' 18.00"
9	29° 06' 37.68"	90° 10' 58.35"	29	29° 07' 55.08"	90° 09' 02.52"
10	29° 06' 40.96"	90° 10' 57.92"	30	29° 07' 56.31"	90° 09' 00.09"
11	29° 06' 42.56"	90° 10' 56.52"	31	29° 07' 57.42"	90° 08' 57.52"
12	29° 06' 44.56"	90° 10' 58.25"	32	29° 07' 58.63"	90° 08' 56.55"
13	29° 06' 46.17"	90° 10' 56.82"	33	29° 08' 10.80"	90° 08' 38.72"
14	29° 06' 48.50"	90° 10' 56.18"	34	29° 08' 10.65"	90° 08' 38.02"
15	29° 06' 51.64"	90° 10' 54.77"	35	29° 08' 11.17"	90° 08' 36.43"
16	29° 06' 53.92"	90° 10' 50.94"	36	29° 08' 12.39"	90° 08' 36.43"
17	29° 07' 00.10"	90° 10' 40.53"	37	29° 08' 21.28"	90° 08' 23.43"
18	29° 06' 02.82"	90° 10' 36.02"	38	29° 08' 24.95"	90° 08' 16.68"
19	29° 07' 11.07"	90° 10' 22.36"	39	29° 08' 37.84"	90° 07' 57.03"
20	29° 07' 10.76"	90° 10' 21.24"	40	29° 08' 37.21"	90° 07' 54.19"

NOTES:
 1. THE EARTHEN CONTAINMENT DIKE BETWEEN POINTS 8-10, 16-18, AND 27-28 REQUIRE GEOTEXTILE FABRIC.
 2. THE DUNE IMPROVEMENTS CENTERLINE COORDINATES ARE SHOWN ON SHEET 4A.



APPLICATION BY:
 COASTAL PROTECTION & RESTORATION AUTHORITY
 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. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

MARSH CREATION AREA LAYOUT

DATE: JUNE 2018
 REV. 4/2019, 11/2020 & 1/2021

SHEET 4 OF 10

DUNE IMPROVEMENTS CENTERLINE COORDINATES					
PTS	LATITUDE	LONGITUDE	PTS	LATITUDE	LONGITUDE
1	29° 06' 15.81"	90° 11' 10.74"	81	29° 08' 30.58"	90° 07' 44.96"
60	29° 06' 21.19"	90° 11' 03.30"	82	29° 08' 35.85"	90° 07' 35.39"
61	29° 06' 25.70"	90° 10' 57.63"	83	29° 08' 41.75"	90° 07' 27.48"
62	29° 06' 31.07"	90° 10' 52.62"	84	29° 08' 46.12"	90° 07' 18.41"
63	29° 06' 44.51"	90° 10' 36.22"	85	29° 08' 51.81"	90° 07' 10.40"
64	29° 06' 50.64"	90° 10' 27.52"	86	29° 09' 03.33"	90° 06' 54.34"
65	29° 06' 56.08"	90° 10' 17.82"	87	29° 09' 09.21"	90° 06' 46.41"
66	29° 07' 01.92"	90° 10' 08.40"	88	29° 09' 13.17"	90° 06' 39.22"
67	29° 07' 07.94"	90° 09' 59.18"	89	29° 09' 17.43"	90° 06' 32.32"
68	29° 07' 12.20"	90° 09' 51.79"	90	29° 09' 21.56"	90° 06' 25.28"
69	29° 07' 16.66"	90° 09' 44.54"	91	29° 09' 27.09"	90° 06' 17.10"
70	29° 07' 21.40"	90° 09' 37.51"	92	29° 09' 32.90"	90° 06' 09.13"
71	29° 07' 26.89"	90° 09' 29.32"	93	29° 09' 38.86"	90° 06' 01.29"
72	29° 07' 36.16"	90° 09' 11.67"	94	29° 09' 43.40"	90° 05' 52.31"
73	29° 07' 46.44"	90° 08' 56.93"	95	29° 09' 49.13"	90° 05' 44.22"
74	29° 07' 56.18"	90° 08' 40.73"	96	29° 09' 53.80"	90° 05' 35.35"
75	29° 08' 01.48"	90° 08' 32.43"	97	29° 09' 59.38"	90° 05' 28.33"
76	29° 08' 06.99"	90° 08' 24.35"	98	29° 10' 04.03"	90° 05' 20.50"
77	29° 08' 11.05"	90° 08' 17.35"	99	29° 10' 08.04"	90° 05' 12.30"
78	29° 08' 14.74"	90° 08' 10.06"	100	29° 10' 12.23"	90° 05' 07.56"
79	29° 08' 19.56"	90° 08' 03.79"	101	29° 10' 15.52"	90° 05' 02.11"
80	29° 08' 24.94"	90° 07' 54.18"	59	29° 10' 20.06"	90° 04' 57.59"

1/2021 PERMIT MODIFICATION

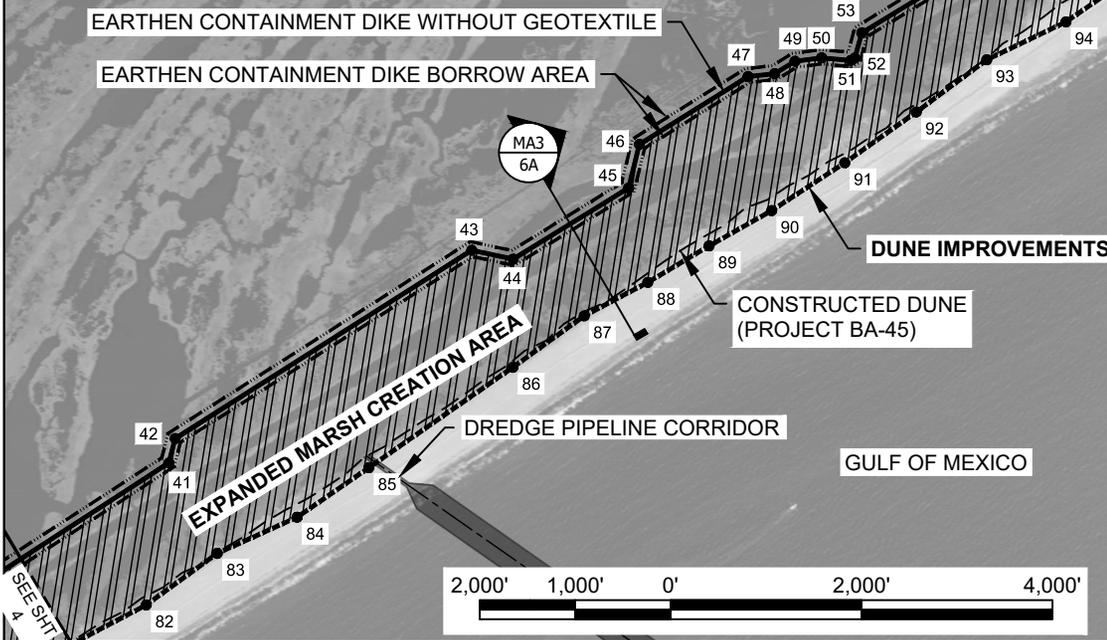
1. PORTIONS OF THE BA-45 DUNE WILL BE IMPROVED DUE TO DAMAGE SUSTAINED FROM HURRICANE ZETA IN ORDER TO SERVE AS CONTAINMENT FOR MARSH FILL.

11/2020 PERMIT MODIFICATION

2. EXTERIOR EARTHEN CONTAINMENT DIKE BORROW AREA ADDED TO THE EXPANDED MARSH CREATION AREA DUE TO DEGRADING OF DIKES FROM STORM DAMAGE.

4/2019 PERMIT MODIFICATION

3. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
4. RELOCATED THE DEWATERING AREA TO THE EAST.
5. MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.



EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES

PTS	LATITUDE	LONGITUDE	PTS	LATITUDE	LONGITUDE
41	29° 08' 50.71"	90° 07' 34.01"	51	29° 09' 37.71"	90° 06' 17.31"
42	29° 08' 53.28"	90° 07' 33.48"	52	29° 09' 38.00"	90° 06' 16.87"
43	29° 09' 15.09"	90° 07' 00.24"	53	29° 09' 40.66"	90° 06' 16.26"
44	29° 09' 14.50"	90° 06' 55.29"	54	29° 09' 47.84"	90° 06' 04.85"
45	29° 09' 22.77"	90° 06' 42.33"	55	29° 09' 51.40"	90° 06' 04.20"
46	29° 09' 27.37"	90° 06' 41.46"	56	29° 10' 24.74"	90° 05' 12.51"
47	29° 09' 35.23"	90° 06' 29.27"	57	29° 10' 25.42"	90° 05' 07.05"
48	29° 09' 35.74"	90° 06' 26.17"	58	29° 10' 27.31"	90° 05' 03.46"
49	29° 09' 37.19"	90° 06' 23.88"	59	29° 10' 20.06"	90° 04' 57.59"
50	29° 09' 37.75"	90° 06' 20.77"			

LEGEND

- EXPANDED MARSH CREATION AREA
- DEWATERING AREA
- DREDGE PIPELINE ALIGNMENT
- CONSTRUCTED DUNE (BA-45)
- DUNE IMPROVEMENTS (1/2021 PERMIT MOD.)
- DREDGE PIPELINE ALIGNMENT CENTERLINE
- EARTHEN CONTAINMENT DIKE WITHOUT GEOTEXTILE FABRIC
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EQUIPMENT ACCESS CORRIDOR

APPLICATION BY:
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COASTAL PROTECTION AND RESTORATION AUTHORITY
 150 TERRACE AVENUE
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DESIGNED BY: A. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

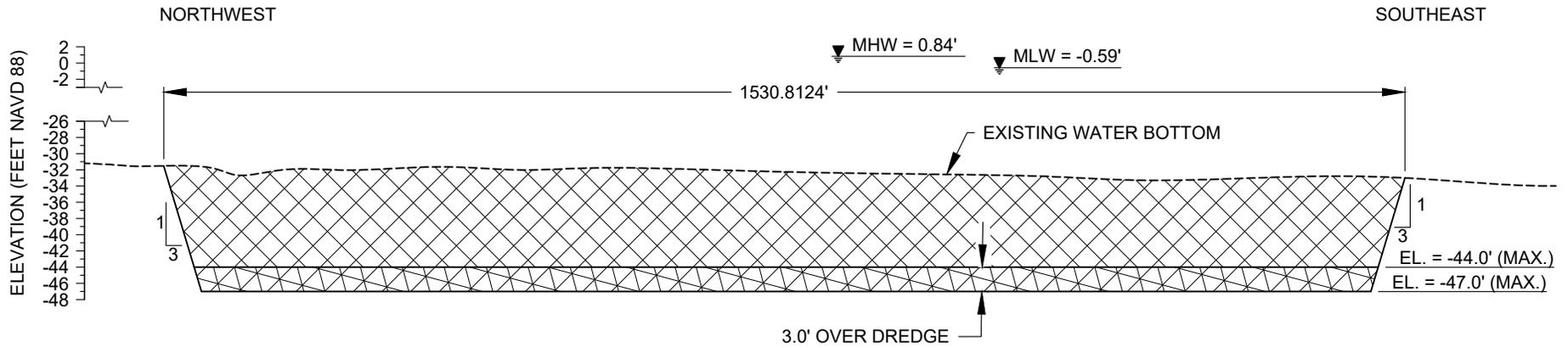
STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

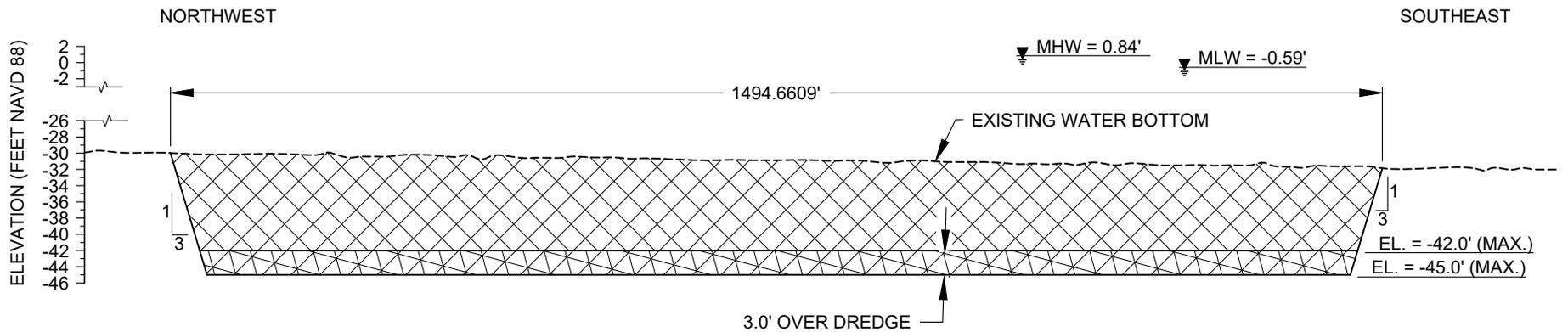
MARSH CREATION AREA LAYOUT

DATE: APRIL 2019 (REV. 11/20 & 1/21)

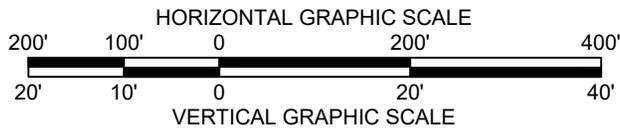
SHEET 4A OF 10



BA1
3 **TYPICAL SECTION - BORROW AREA**

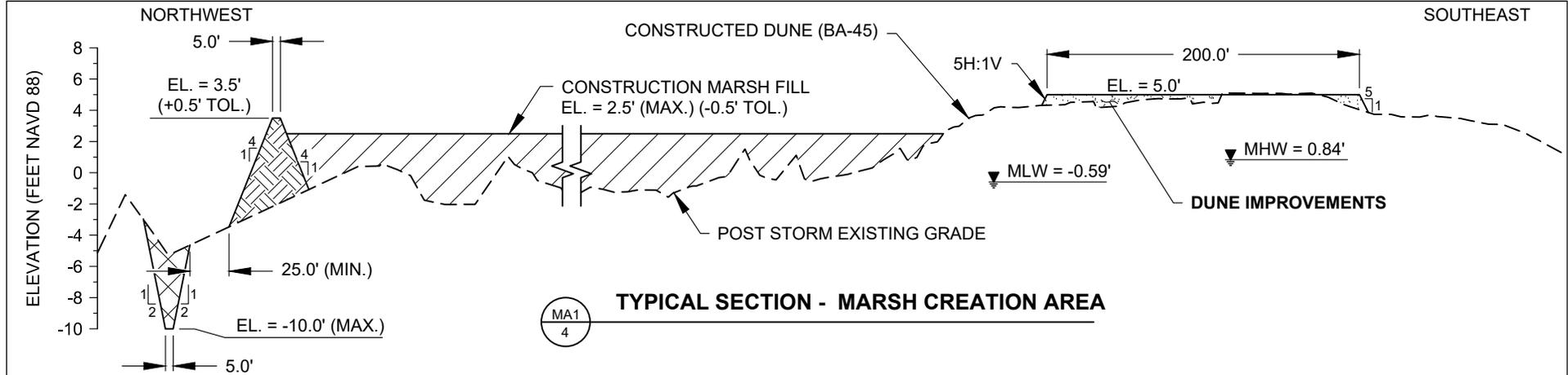


BA2
3 **TYPICAL SECTION - BORROW AREA**

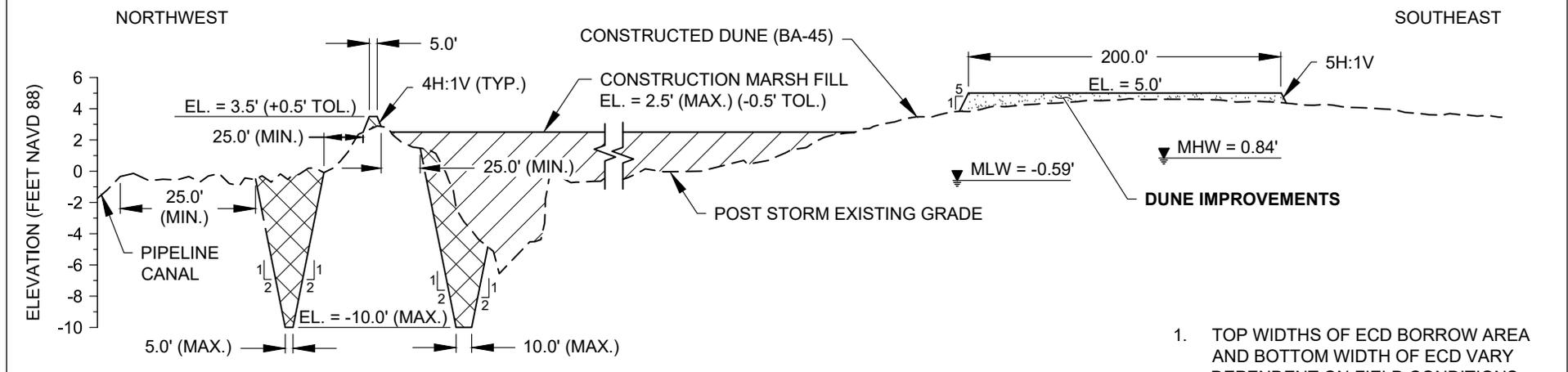


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	BORROW AREA TYPICAL SECTIONS
		STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 5 OF 10



TYPICAL SECTION - MARSH CREATION AREA
 MA1
 4



TYPICAL SECTION - MARSH CREATION AREA
 MA2
 4

1. TOP WIDTHS OF ECD BORROW AREA AND BOTTOM WIDTH OF ECD VARY DEPENDENT ON FIELD CONDITIONS.

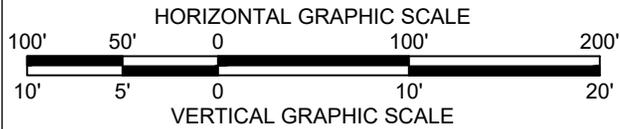
LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	DUNE IMPROVEMENTS (1/2021 MOD.)
	GEOTEXTILE FABRIC
	EXISTING GROUND

1/2021 PERMIT MODIFICATION

- PORTIONS OF THE BA-45 DUNE WILL BE IMPROVED DUE TO DAMAGE SUSTAINED FROM HURRICANE ZETA IN ORDER TO SERVE AS CONTAINMENT FOR MARSH FILL. SAND DISPLACED LANDWARD OF THE DUNE WILL BE UTILIZED TO IMPROVE THE DUNE.

4/2019 PERMIT MODIFICATION

- REVISED EARTHEN CONTAINMENT DIKE CROWN ELEVATION TO 3.5'.
- REVISED CONSTRUCTION MARSH FILL ELEVATION TO 2.5'.



APPLICATION BY:
 COASTAL PROTECTION & RESTORATION AUTHORITY
 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. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

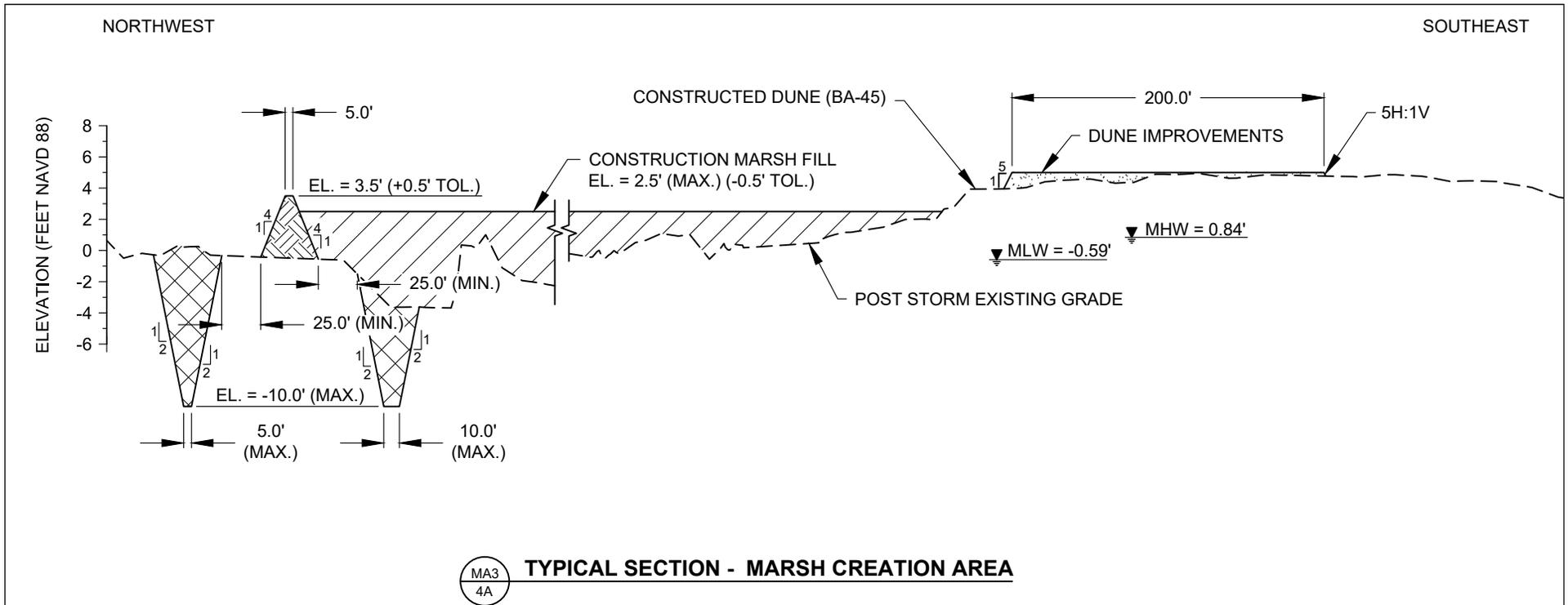
STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

MARSH CREATION AREA TYPICAL SECTIONS

DATE: JUNE 2018 (REV. 4/2019 & 1/2021)

SHEET 6 OF 10



MA3 4A **TYPICAL SECTION - MARSH CREATION AREA**

1/2021 PERMIT MODIFICATION

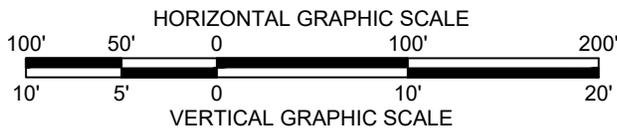
- PORTIONS OF THE BA-45 DUNE WILL BE IMPROVED DUE TO DAMAGE SUSTAINED FROM HURRICANE ZETA IN ORDER TO SERVE AS CONTAINMENT FOR MARSH FILL. SAND DISPLACED LANDWARD OF THE DUNE WILL BE UTILIZED TO IMPROVE THE DUNE.

11/2020 PERMIT MODIFICATION

- EXTERIOR EARTHEN CONTAINMENT DIKE BORROW AREA ADDED TO THE EXPANDED MARSH CREATION AREA DUE TO DEGRADING OF DIKES FROM STORM DAMAGE.

4/2019 PERMIT MODIFICATION

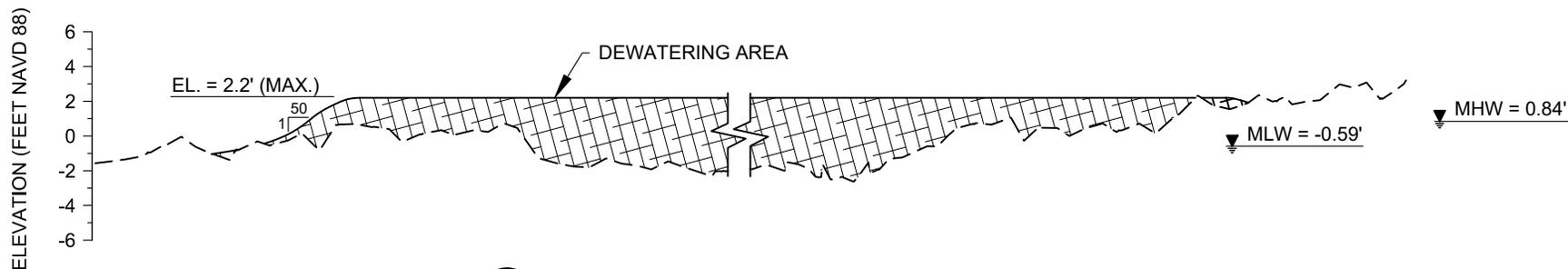
- TYPICAL SECTION FOR THE EXPANDED PORTION OF THE MARSH CREATION AREA.



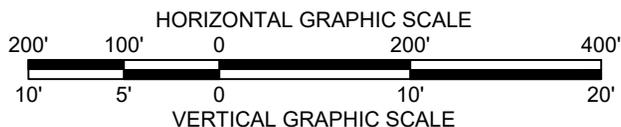
- TOP WIDTHS OF ECD BORROW AREA AND BOTTOM WIDTH OF ECD VARY DEPENDENT ON FIELD CONDITIONS.

LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	DUNE IMPROVEMENTS (1/2021 MOD.)
	GEOTEXTILE FABRIC
	EXISTING GROUND

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT STATE PROJECT NUMBER: BA-0171	MARSH CREATION AREA TYPICAL SECTIONS DATE: APRIL 2019 (REV. 11/2020 & 1/2021)
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 6A OF 10

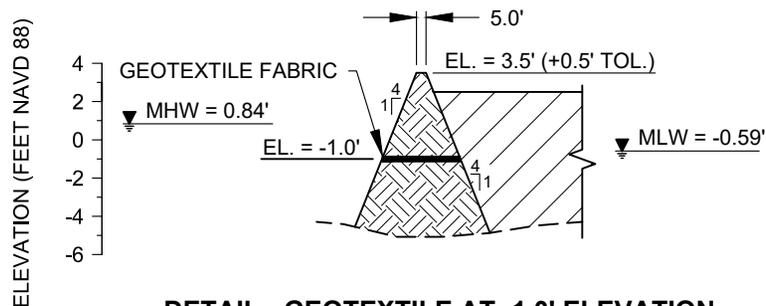


TYPICAL SECTION - DEWATERING AREA

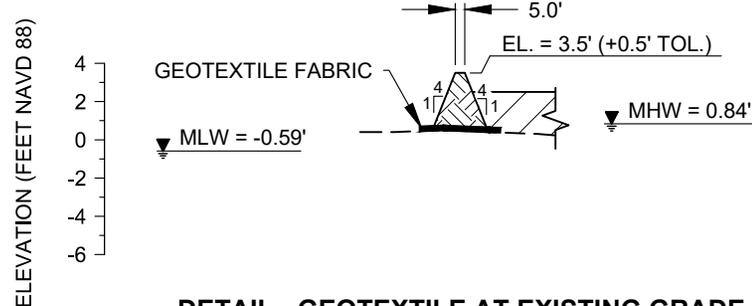


NOTE:

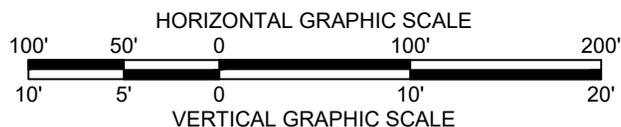
1. THE DEWATERING AREA SHALL BE PRIMARILY USED FOR DECANTING WATER FROM THE MCA. NO CONSTRUCTION SHALL DIRECTLY OCCUR WITHIN THIS AREA.



DETAIL - GEOTEXTILE AT -1.0' ELEVATION



DETAIL - GEOTEXTILE AT EXISTING GRADE



PERMIT MODIFICATION

1. REVISED EARTHEN CONTAINMENT DIKE CROWN ELEVATION TO 3.5'.
2. REVISED CONSTRUCTION MARSH FILL ELEVATION TO 2.5'.

LEGEND	
	DEWATERING AREA
	MARSH CREATION FILL
	EARTHEN CONTAINMENT DIKE
	GEOTEXTILE FABRIC
	EXISTING GROUND

APPLICATION BY:
 COASTAL PROTECTION & RESTORATION AUTHORITY
 P.O. BOX 44027
 BATON ROUGE, LA 70804

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

CAMINADA HEADLAND BACK
 BARRIER MARSH CREATION PROJECT

DEWATERING AREA
 TYPICAL SECTION AND
 GEOTEXTILE DETAILS

STATE PROJECT NUMBER: BA-0171

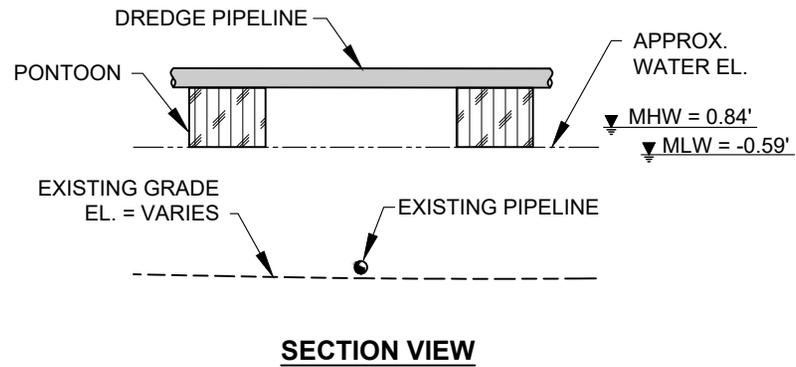
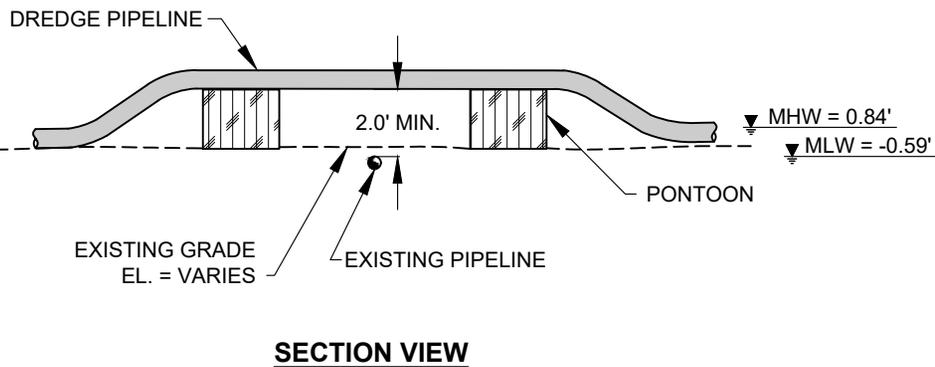
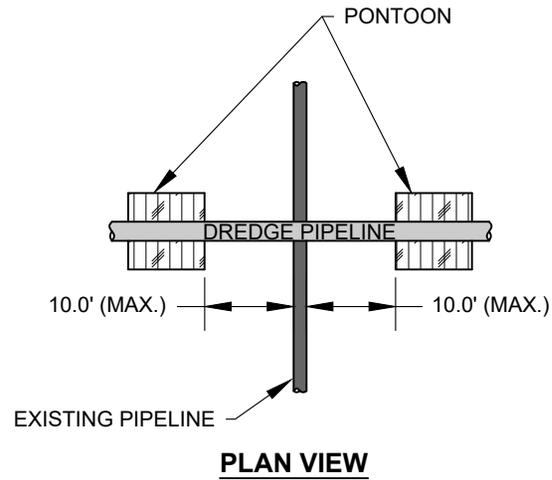
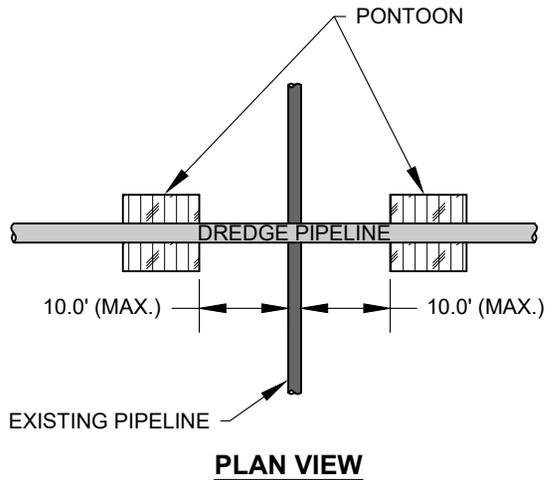
DATE: JUNE 2018 (REV. 4.2019)

DRAWN BY: K. CANTU

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

SHEET 7 OF 10



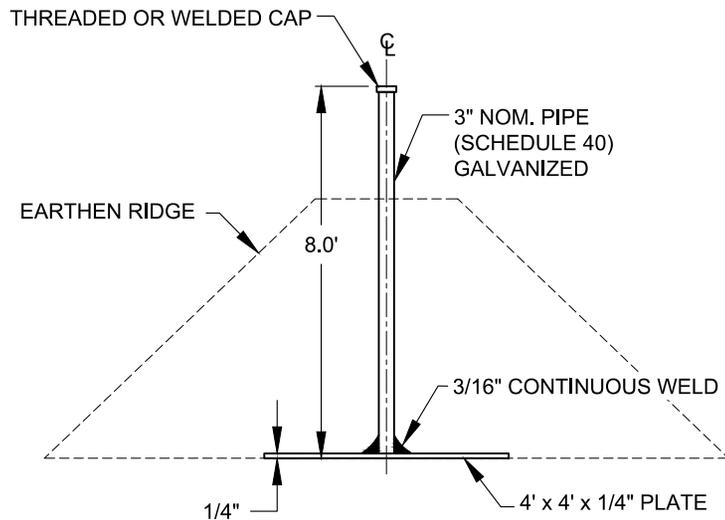
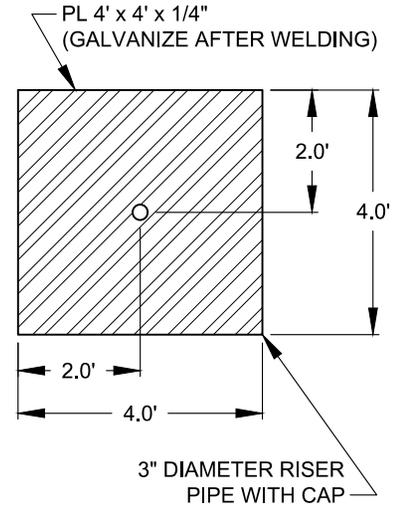
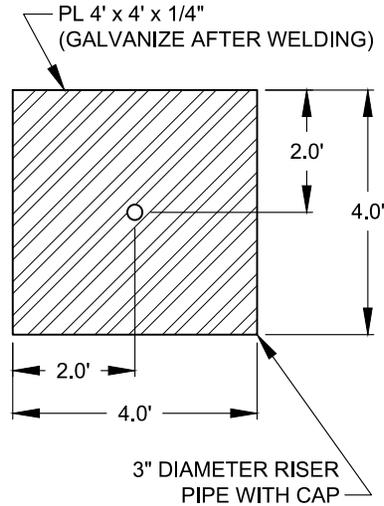
(M-PL 2) **MARSH PIPELINE CROSSING DETAIL**
N.T.S

(OS-PL 2) **OFFSHORE PIPELINE CROSSING DETAIL**
N.T.S

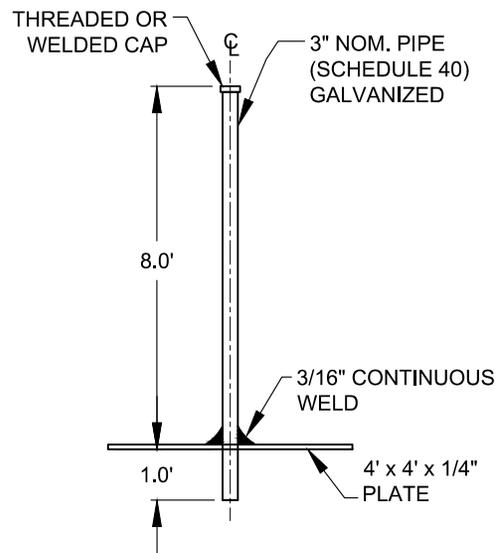
NOTES:
 PONTOONS SHALL BE MOBILIZED TO MARSH FILL AREA VIA THE EQUIPMENT ACCESS ROUTES AND SHALL REMAIN FLOATING AT ALL TIMES WHILE EXTERIOR TO THE MARSH FILL AREA. THE PONTOONS SHALL NOT BE PLACED ON EXISTING WETLANDS EXTERIOR TO THE MARSH FILL AREA.

LEGEND	
	DREDGE PIPELINE
	PONTON SUPPORT
	EXISTING GROUND

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	PIPELINE CROSSING DETAIL
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018
APPROVED BY: S. HAYNES, P.E.		SHEET 8 OF 10	



**EARTHEN DIKE
SETTLEMENT PLATE**
NOT TO SCALE



**MARSH CREATION
SETTLEMENT PLATE**
NOT TO SCALE

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	SETTLEMENT PLATE DETAILS
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018
APPROVED BY: S. HAYNES, P.E.		SHEET 9 OF 10	

1. 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.
2. 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.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
4. 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.
5. TRACKED EQUIPMENT SHALL HAVE A MAXIMUM DIMENSION OF 34 FEET LONG AND 15 FEET WIDE.
6. THE CONTRACTOR SHALL DECANT SUPERNATANT WATER INTO THE DEWATERING AREA USING STRUCTURES SUCH AS WEIRS OR SPILL BOXES. THE LOSS OF FINE-GRAINED MATERIAL MAY BE FURTHER REDUCED THROUGH THE USE OF INTERNAL TRAINING DIKES, HAY BALES, OR SILT FENCES.

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	<p style="text-align: center;">COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</p>	<p style="text-align: center;">CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT</p>	<p style="text-align: center;">NOTES</p>
DRAWN BY: K. CANTU			
DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 10 OF 10	