

PUBLIC NOTICE

18 July 2022

United States Army
Corps of Engineers
New Orleans District
Regulatory, Eastern Evaluation Branch (RGE)
7400 Leake Avenue
New Orleans, Louisiana 70118

Permit Application Number:
MVN-2022-0128-EPP
Project Manager:
Stephanie Castaing
(504) 862-1564
Stephanie.L.Castaing@usace.army.mil

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).

LAKE PONCHARTRAIN SHORELINE PROTECTION IN ST. JOHN THE BAPTIST PARISH.

NAME OF APPLICANT: St. John the Baptist Parish, c/o HDR Engineering, Inc., Attention: Amber Robinson, 5750 Johnson Street, Suite 105, Lafayette, Louisiana 70503.

LOCATION OF WORK: Located along and within Lake Pontchartrain, in St. John the Baptist Parish, as shown on the attached drawings.

North Reach-

POB: Latitude: 30.280389 Longitude: -90.325161
POE: Latitude: 30.291469 Longitude: -90.309125

South Reach-

POB: Latitude: 30.081103 Longitude: -90.407861
POE: Latitude: 30.105447 Longitude: -90.4325

Hydrologic Unit Codes: 08070204, Lower Mississippi-Lake Maurepas

CHARACTER OF WORK: Construction of shoreline protection breakwaters along two (2) reaches of Lake Pontchartrain. The project as proposed would directly impact approximately 28 acres of wetlands and/or waterbottoms. Project implementation would require the excavation/fill of 464, 600 cubic yards of native material and deposition of 103, 000 cubic yards of rock. The applicant has stated, the proposed project will result in a net benefit to the aquatic environment; therefore, compensatory mitigation has not been proposed.

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

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 has determined that additional information is required for NHPA compliance review. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

The New Orleans District has determined that the proposed activity is not likely to adversely affect the Gulf Sturgeon and West Indian Manatee with the inclusion of the Standard Manatee Conditions for In-Water Activities, based on the Information & Planning Consultation for Endangered Species in Louisiana (IPaC), dated January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office.

Our 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.

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 **28.0** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would have no 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, Water Quality Certifications, before a permit is issued.

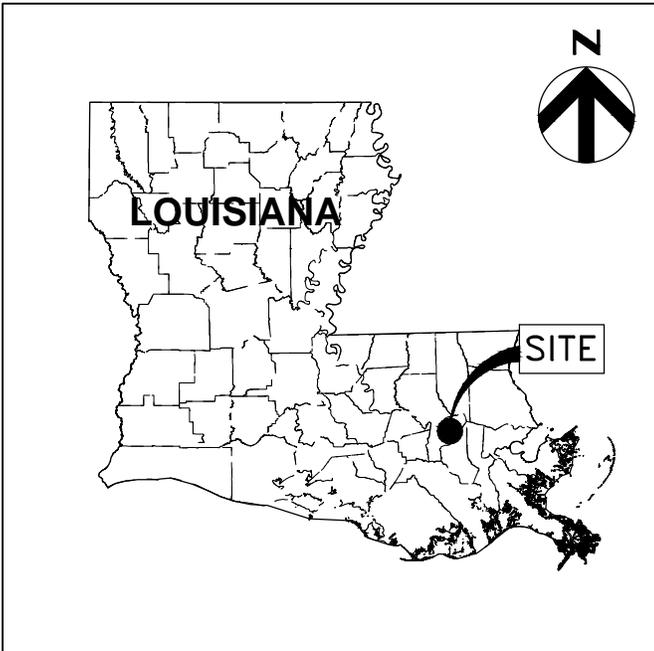
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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.

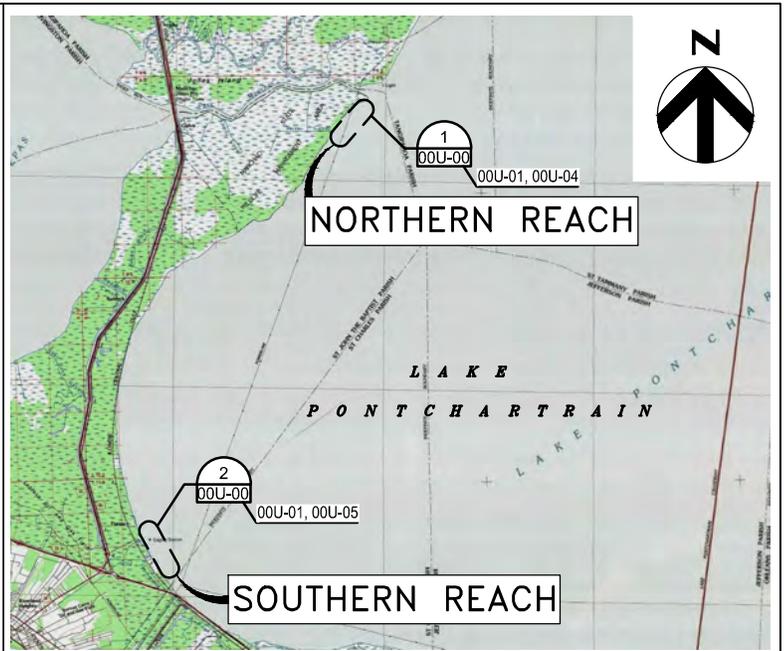
You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Michael V. Farabee
Chief, Eastern Evaluation Branch

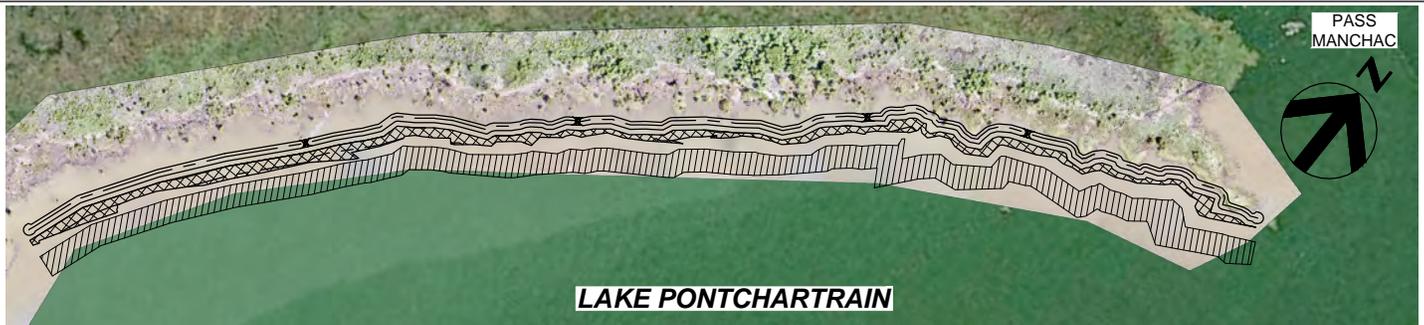
Enclosure



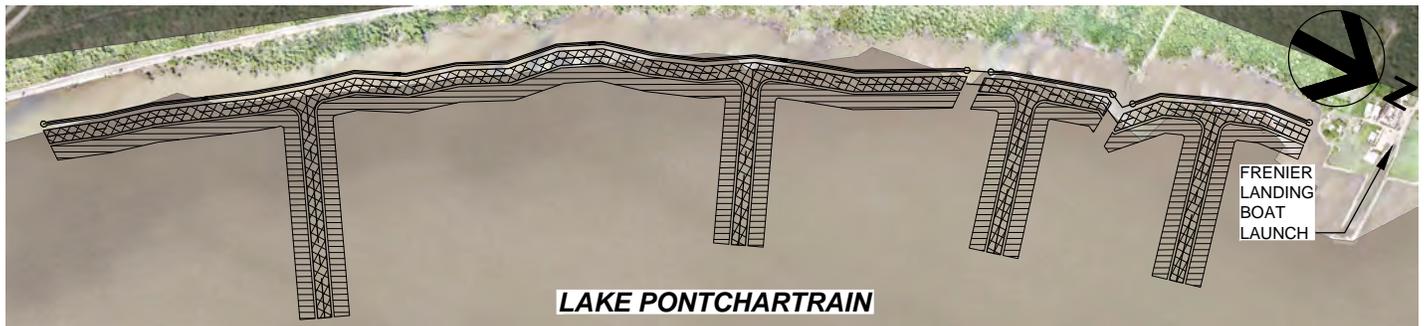
LOCATION MAP



VICINITY MAP



NORTHERN REACH



SOUTHERN REACH

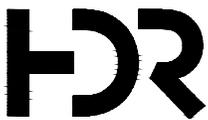
FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NOTES:

1. THE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT INCLUDES THE CONSTRUCTION OF NEW BREAKWATER SEGMENTS. THE NORTHERN REACH IS LOCATED ADJACENT TO THE LAKE PONTCHARTRAIN SHORELINE NEAR PASS MANCHAC. THE SOUTHERN REACH IS LOCATED ADJACENT TO THE LAKE PONTCHARTRAIN SHORELINE NEAR FRENIER LANDING BOAT LAUNCH.



HDR ENGINEERING, INC.

PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE KEY MAP

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

REFERENCE SHEET

PERMIT NUMBER

P20210912

SHEET NUMBER

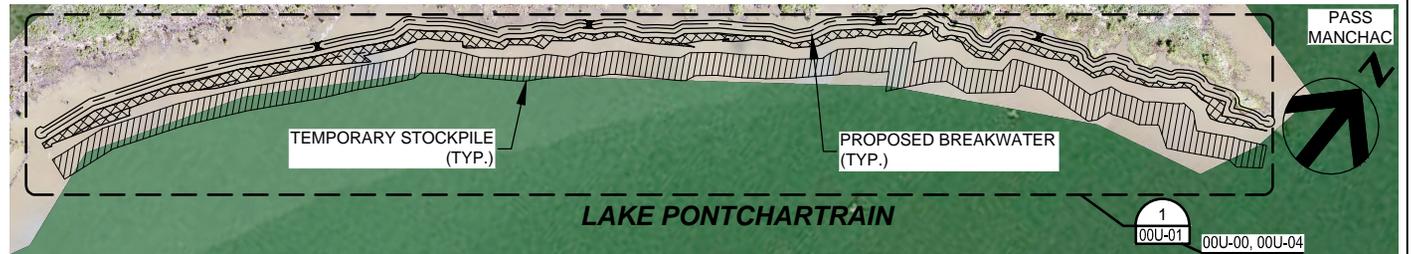
00U-00

NOTES:

- PROJECT SITES ARE NOT ACCESSIBLE BY LAND. ACCESS TO THE PROJECT SITES WILL BE FROM A NAVIGABLE WATERBODY. DREDGING FOR SITE ACCESS SHALL BE LIMITED TO THE LIMITS SHOWN FOR THE TEMPORARY FLOTATION AND ACCESS CHANNELS IN THESE DRAWINGS. FLOATING EQUIPMENT AND BARGES WILL BE REQUIRED TO LIMIT DRAFT TO REMAIN FLOATING AT ALL TIMES.
- AERIAL IMAGE OF PROJECT AREA SHOWN ON THIS SHEET WAS PROVIDED BY 360 RAIL SERVICES, OBTAINED ON MAY 26 AND 27, 2021. OTHER BACKGROUND IMAGERY WAS OBTAINED FROM BING 2020 MAXAR CNES (2020) DISTRIBUTION AIRBUS DS DATED 2020 THROUGH AUTOCAD 2018 GEOMAP.
- LAYOUT AND COORDINATES SHOWN ARE BASED ON SURVEY DATA COLLECTED BY C.H. FENSTERMAKER IN FEBRUARY AND MARCH 2020 AND JANUARY 2021. DUE TO ONGOING COASTAL EROSION AND MARSH RETREAT, LAYOUT AND COORDINATES WILL BE UPDATED BASED ON SURVEY DATA TO BE COLLECTED AFTER CONSTRUCTION CONTRACT HAS BEEN AWARDED.
- PROPOSED PLACEMENT AREA INDICATES MAXIMUM EXTENTS.
- ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) GEOID 12B IN U.S. SURVEY FEET (FEET). ALL HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), LOUISIANA STATE PLANE GRID COORDINATE SYSTEM, SOUTH ZONE, IN FEET.

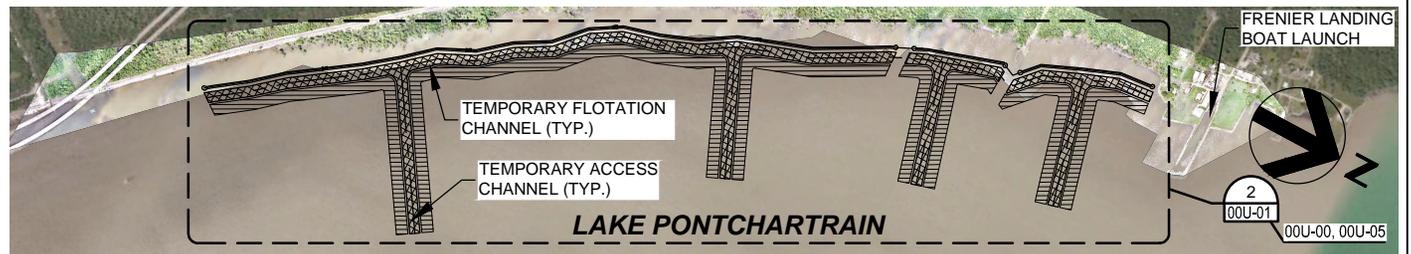
LEGEND:

-  PROPOSED BREAKWATER FOOTPRINT
-  ARMOR STONE/ROCK RIPRAP
-  LIGHTWEIGHT AGGREGATE CORE
-  SEDIMENT FILL
-  FLOTATION CHANNEL
-  TEMPORARY STOCKPILE



TIDAL DATUMS

DATUM	CRMS 0030 ELEVATION (FT NAVD 88)	CRMS 6299 ELEVATION (FT NAVD 88)
MEAN HIGH WATER (MHW)	+0.99	+1.03
MEAN TIDE LEVEL (MTL)	+0.73	+0.88
MEAN LOW WATER (MLW)	+0.46	+0.73



FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE **GENERAL NOTES AND PLAN VIEW**

PROJECT NUMBER
10206120
PROJECT MANAGER
E. ROONEY
DATE
01/27/2022

REFERENCE SHEET
PERMIT NUMBER
P20210912
SHEET NUMBER
00U-01

LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT NORTHERN REACH

NORTHERN REACH ITEM	QUANTITY (APPROXIMATE)	UNIT OF MEASUREMENT	PRELIMINARY WOTUS
PERMANENT FILL LIGHTWEIGHT AGGREGATE *IMPACTED ACREAGE IS WITHIN PERMANENT FILL GRADED RIPRAP ACREAGE	16,400	CUBIC YARDS	WATER BOTTOM
PERMANENT FILL GRADED RIPRAP	76,000	CUBIC YARDS	align="center">WATER BOTTOM
	6	ACRES	
PERMANENT EXCAVATION *PERMANENT EXCAVATION VOLUME IS SAME VOLUME AS PERMANENT SEDIMENT FILL *EXCAVATED ACREAGE OVERLAPS WITH PERMANENT FILL GRADED RIPRAP ACREAGE	33,900	CUBIC YARDS	align="center">WATER BOTTOM
	6	ACRES	
PERMANENT SEDIMENT FILL	33,900	CUBIC YARDS	align="center">WATER BOTTOM
	15	ACRES	
TEMPORARY FLOTATION CHANNEL/STOCKPILE (DREDGE/FILL)	20,000	CUBIC YARDS	align="center">WATER BOTTOM
	12	ACRES	
TEMPORARY IMPACT (STOCKPILE OF FLOTATION CHANNEL)	7	ACRES	WATER BOTTOM

NOTES:

- TEMPORARY IMPACTS TO WATER BOTTOMS AS A RESULT OF CONSTRUCTION ACTIVITIES TO BE RESTORED TO PRE-CONSTRUCTION ELEVATIONS FOLLOWING CONSTRUCTION.

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NORTHERN REACH QUANTITIES TABLES



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE
**NORTHERN REACH
 QUANTITIES TABLE**

PROJECT NUMBER
 10206120

PROJECT MANAGER
 E. ROONEY

DATE
 01/27/2022

REFERENCE SHEET

PERMIT NUMBER
 P20210912

SHEET NUMBER
 00U-02

LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT SOUTHERN REACH			
SOUTHERN REACH ITEM	QUANTITY (APPROXIMATE)	UNIT OF MEASUREMENT	PRELIMINARY WOTUS
PERMANENT FILL GRADED RIPRAP	27,000	CUBIC YARDS	WATER BOTTOM
	7	ACRES	WATER BOTTOM
TEMPORARY FLOTATION AND ACCESS CHANNELS (DREDGE/FILL)	410,700	CUBIC YARDS	WATER BOTTOM
	40	ACRES	WATER BOTTOM
TEMPORARY IMPACT (STOCKPILE OF FLOTATION/ACCESS CHANNEL)	53	ACRES	WATER BOTTOM

NOTES:

1. NO ACRES OF PERMANENT FILL WILL BE PLACED IN VEGETATED WETLANDS.
2. TEMPORARY IMPACTS TO WATER BOTTOMS AS A RESULT OF CONSTRUCTION ACTIVITIES TO BE RESTORED TO PRE-CONSTRUCTION ELEVATIONS FOLLOWING CONSTRUCTION.

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

SOUTHERN REACH QUANTITIES TABLES

PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE
**SOUTHERN REACH
 QUANTITIES TABLE**

PROJECT NUMBER
 10206120

PROJECT MANAGER
 E. ROONEY

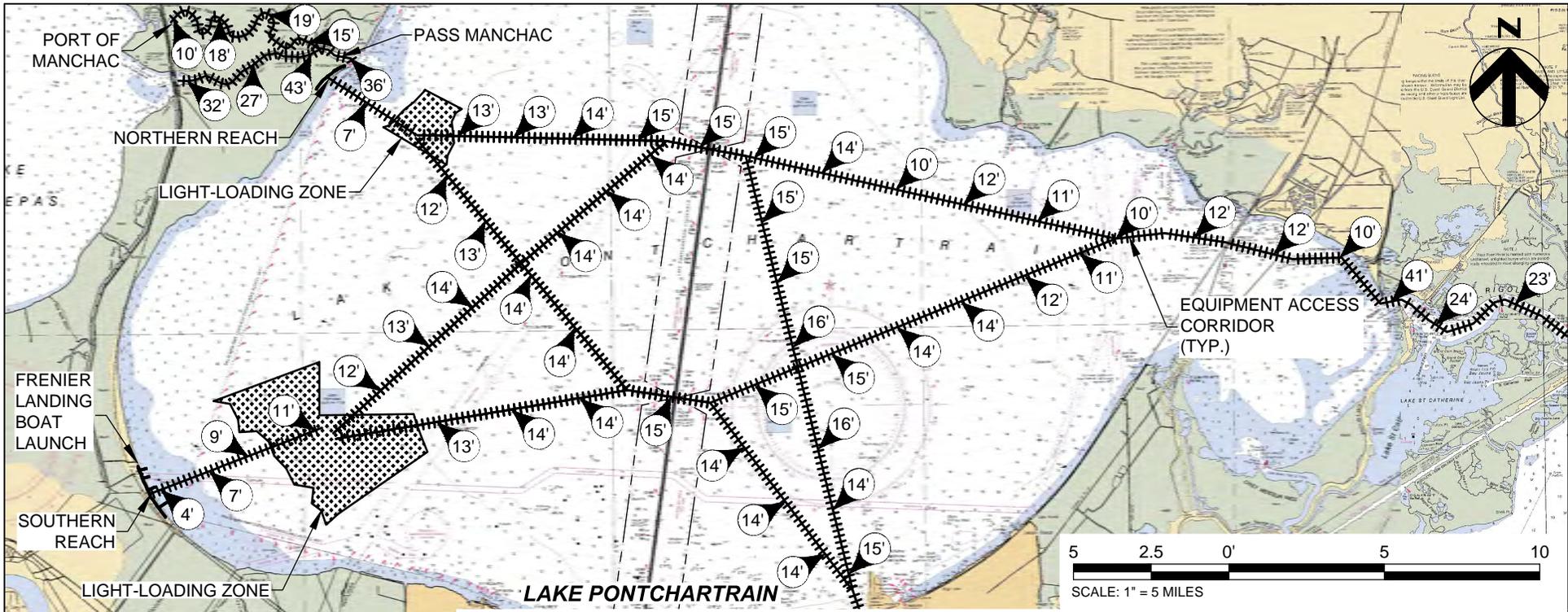
DATE
 01/27/2022

REFERENCE SHEET

PERMIT NUMBER
 P20210912

SHEET NUMBER
 00U-03





NOTES:

1. NAUTICAL CHART IMAGE WAS OBTAINED FROM NOAA OFFICE OF COAST SURVEY. THE NAUTICAL CHART SHOWN IS THE 48TH ED., JUNE 2012. LAST CORRECTION 11/30/2021.
2. CONSTRUCTION EQUIPMENT WILL HAVE A MAXIMUM DRAFT OF 10' IN ROUTE TO LIGHT-LOADING ZONES EXCEPT BETWEEN PORT OF MANCHAC AND LAKE PONTCHARTRAIN THAT WILL HAVE A MAXIMUM DRAFT OF 9'.
3. CONSTRUCTION EQUIPMENT TRAVERSING BETWEEN THE DESIGNATED LIGHT-LOADING AREAS AND PROJECT SITES WILL HAVE A MAXIMUM DRAFT OF 7'.
4. BATHYMETRY IN NORTH MANCHAC WAS OBTAINED FROM PLANS FOR THE CHANNEL PROFILE OF NORTH PASS FROM LAKE PONTCHARTRAIN TO THE PORT OF MANCHAC, TANGIPAHOA PARISH, LOUISIANA, DATED 1/17/2010, PROVIDED BY PORT OF MANCHAC.
5. PROPOSED ACCESS ROUTES WILL MEET WITH THE PROPOSED TEMPORARY FLOTATION AND ACCESS CHANNELS. ANY WATER BOTTOM SHALLOWER THAN 7' IS WITHIN THE TEMPORARY FLOTATION AND ACCESS CHANNELS AND PROPOSED TO BE DREDGED FOR ACCESS.

LEGEND

-  APPROXIMATE WATER DEPTHS ALONG PROPOSED ACCESS ROUTE (M.L.W.)
-  PROPOSED ACCESS ROUTE

FOR PERMITTING ONLY
 THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.
 ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

EQUIPMENT ACCESS ROUTE

PROJECT NUMBER
10206120

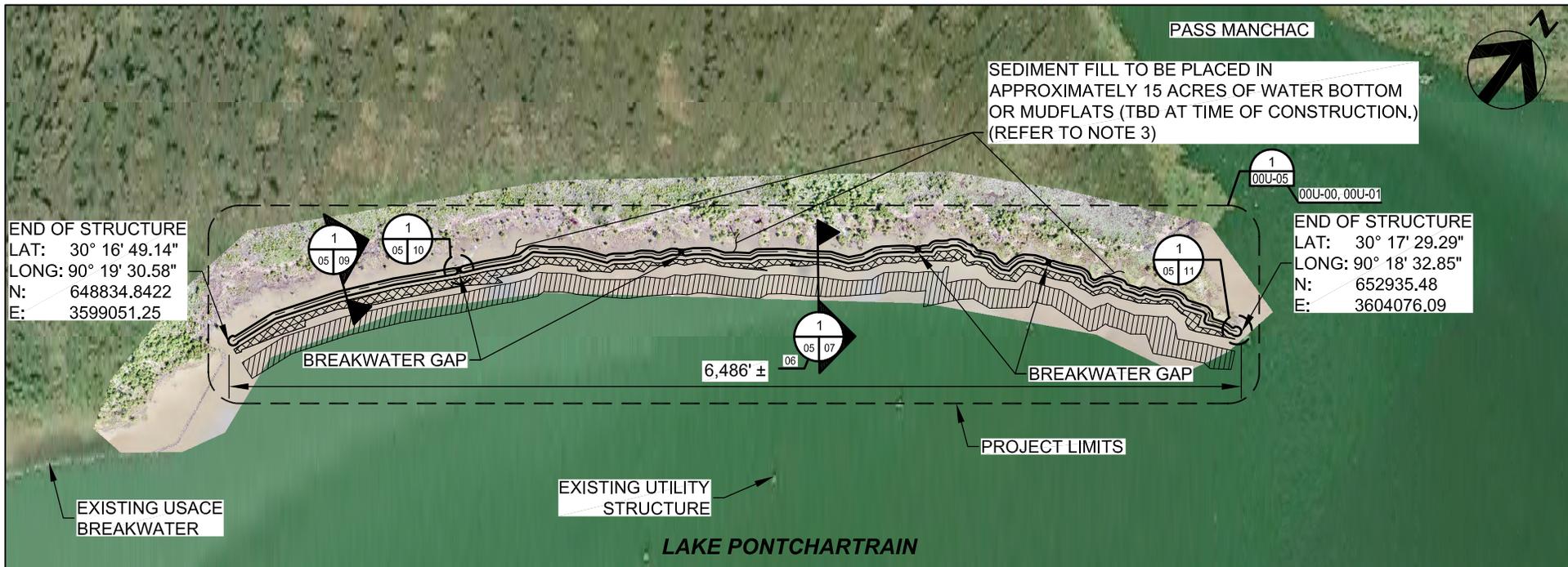
PROJECT MANAGER
E. ROONEY

DATE
01/27/2022

REFERENCE SHEET

PERMIT NUMBER
P20210912

SHEET NUMBER
00U-04



ENLARGED PLAN VIEW - NORTHERN REACH

SCALE: 1" = 1,000'



NOTES:

1. AERIAL IMAGE OF PROJECT AREA SHOWN ON THIS SHEET WAS PROVIDED BY 360 RAIL SERVICES, OBTAINED ON MAY 26 AND 27, 2021. OTHER BACKGROUND IMAGERY WAS OBTAINED FROM BING 2020 MAXAR CNES (2020) DISTRIBUTION AIRBUS DS DATED 2020 THROUGH AUTOCAD 2018 GEOMAP.
2. HORIZONTAL COORDINATES SHOWN ARE LA. STATE PLANE, SOUTH ZONE, (NAD 83).
3. 6 ACRES OF PERMANENT SEDIMENT FILL TO BE PLACED IN APPROXIMATELY 15 ACRES OF WATERBOTTOM OR MUDFLATS. DUE TO CONSTANT SHORELINE CHANGE AT THE PROJECT SITE, THE EXTENTS AND LOCATIONS OF MUDFLATS WHERE SEDIMENT FILL MATERIAL WILL BE PLACED CANNOT BE DEFINITELY IDENTIFIED UNTIL CONSTRUCTION BEGINS. MUDFLATS WILL BE LOCATED IN THE FIELD PRIOR TO FILL PLACEMENT.

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

**ENLARGED PLAN VIEW -
NORTH PROJECT AREA**

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

REFERENCE SHEET

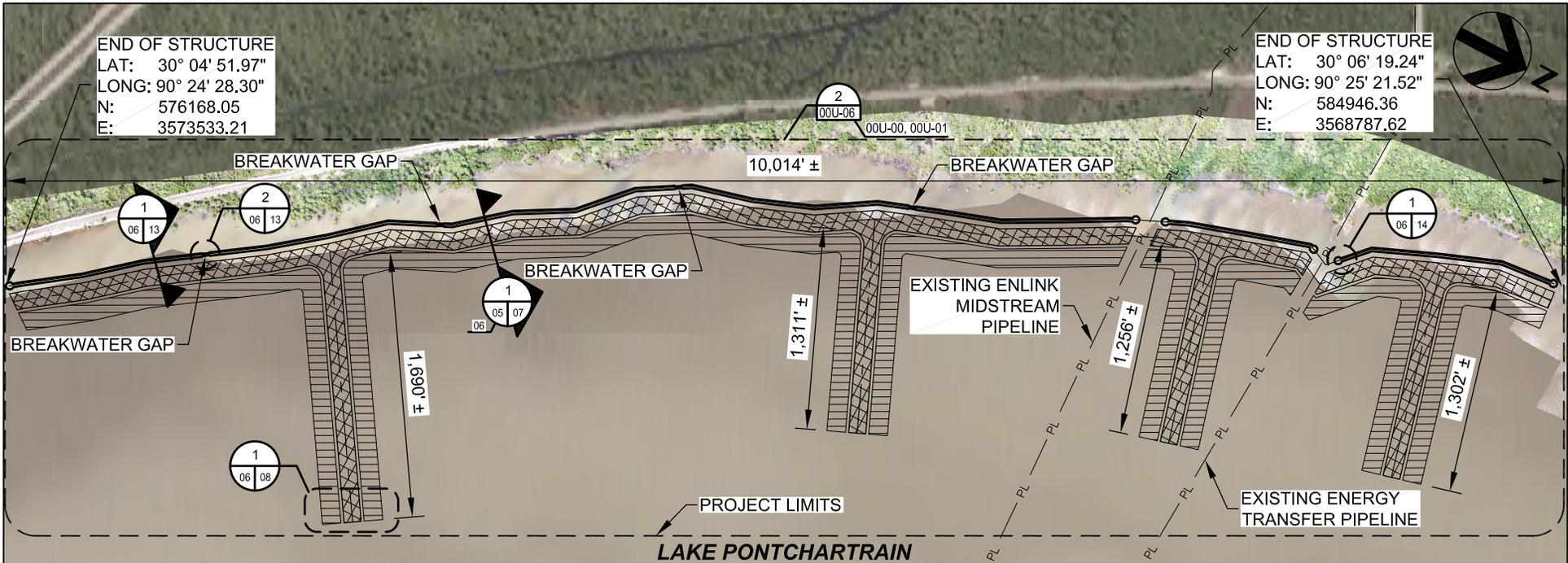
PERMIT NUMBER

P20210912

SHEET NUMBER

00U-05





ENLARGED PLAN VIEW - SOUTHERN REACH

SCALE: 1" = 1,000'



NOTES:

1. AERIAL IMAGE OF PROJECT AREA SHOWN ON THIS SHEET WAS PROVIDED BY 360 RAIL SERVICES, OBTAINED ON MAY 26 AND 27, 2021. OTHER BACKGROUND IMAGERY WAS OBTAINED FROM BING 2020 MAXAR CNES (2020) DISTRIBUTION AIRBUS DS DATED 2020 THROUGH AUTOCAD 2018 GEOMAP.
2. HORIZONTAL COORDINATES SHOWN ARE LA. STATE PLANE, SOUTH ZONE, (NAD 83).

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

ENLARGED PLAN VIEW - SOUTH PROJECT AREA

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

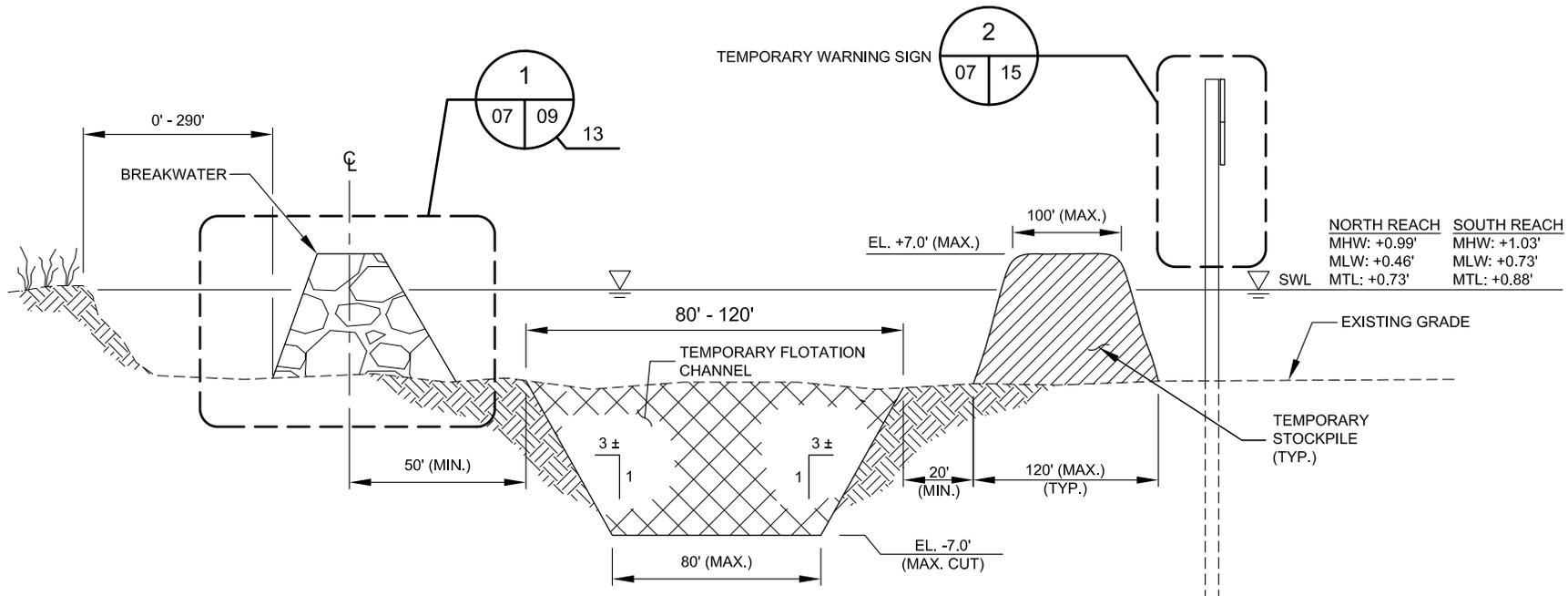
REFERENCE SHEET

PERMIT NUMBER

P20210912

SHEET NUMBER

00U-06



1
06 05 07
TYPICAL SECTION
NOT TO SCALE

BREAKWATER AND TEMPORARY FLOTATION CHANNEL

SCALE: NTS

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196

FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

**TYPICAL SECTIONS AND DETAILS -
BREAKWATER AND TEMPORARY FLOTATION CHANNEL**

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

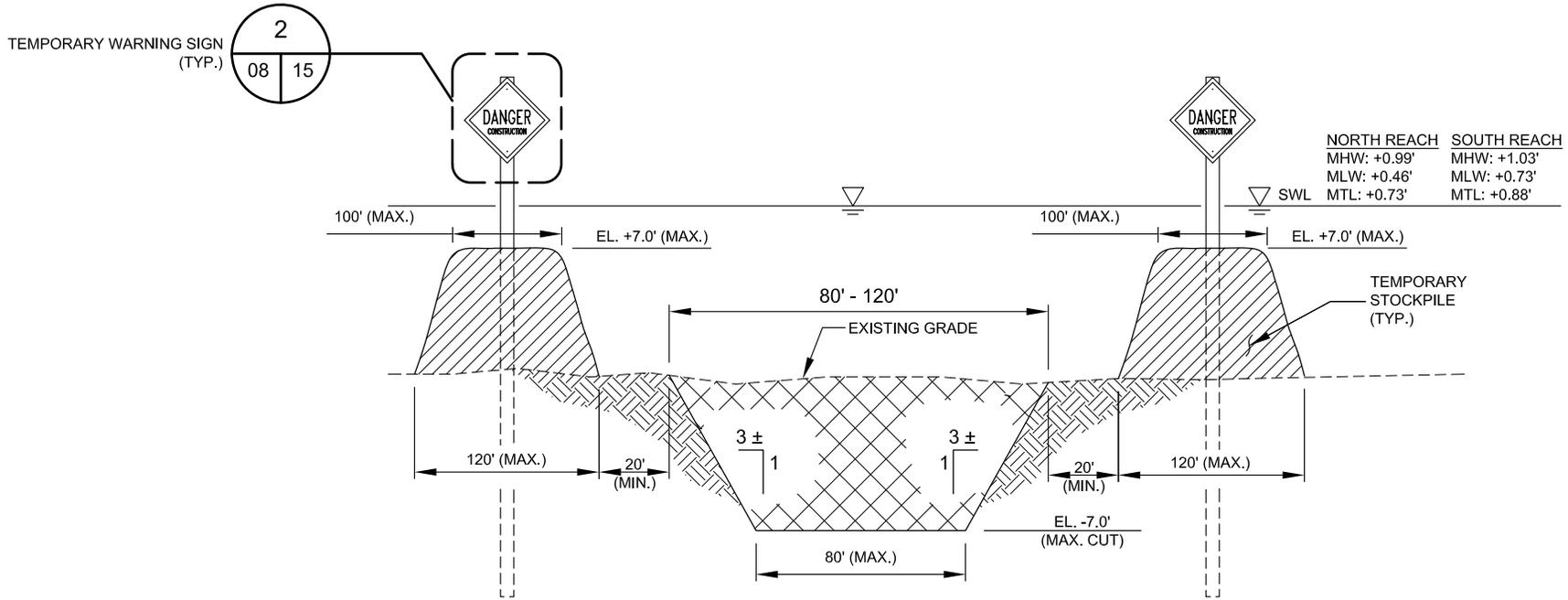
REFERENCE SHEET

PERMIT NUMBER

P20210912

SHEET NUMBER

00U-07



NORTH REACH	SOUTH REACH
MHW: +0.99'	MHW: +1.03'
MLW: +0.46'	MLW: +0.73'
MTL: +0.73'	MTL: +0.88'

1 TYPICAL SECTION
06 | 08 NOT TO SCALE

TEMPORARY ACCESS CHANNEL
SCALE: NTS

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

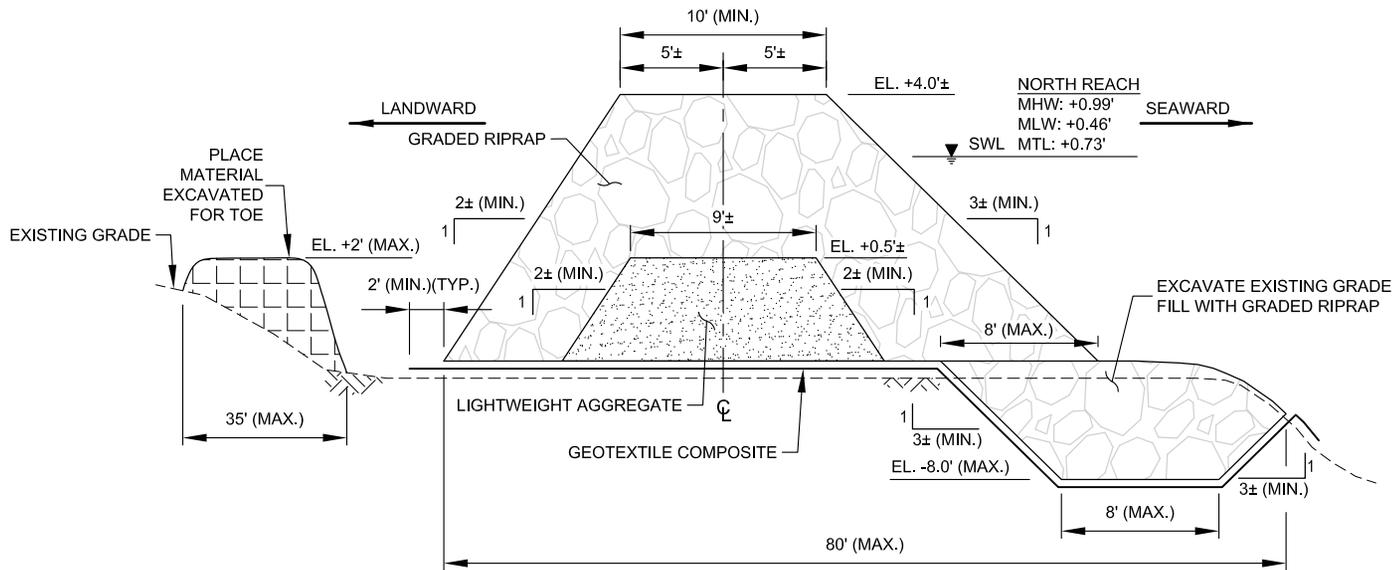


PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE
**TYPICAL SECTION -
TEMPORARY ACCESS CHANNEL**

PROJECT NUMBER
10206120
PROJECT MANAGER
E. ROONEY
DATE
01/27/2022

REFERENCE SHEET
PERMIT NUMBER
P20210912
SHEET NUMBER
00U-08



1 TYPICAL SECTION
06 05 09

NORTHERN REACH BREAKWATER

SCALE: NTS

NOTES:

1. GEOTEXTILE COMPOSITE/FABRIC WILL CONSIST OF GEOTEXTILE FABRIC AND/OR GEOGRID.
2. LIGHTWEIGHT AGGREGATE CORE WILL BE ENCAPSULATED WITHIN GEOTEXTILE FABRIC.
3. LIMITS SHOWN FOR PROPOSED PLACEMENT AREA ARE MAXIMUMS.
4. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1988 (NAVD88) GEOID 12B IN U.S. SURVEY FEET (FEET).

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196

FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

TYPICAL SECTION -
NORTHERN REACH BREAKWATER

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

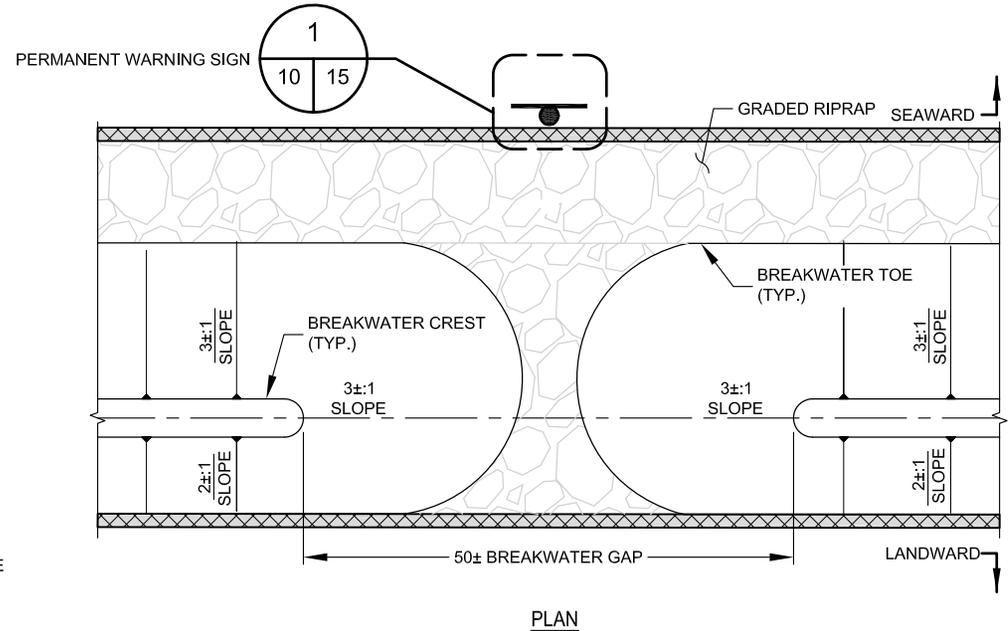
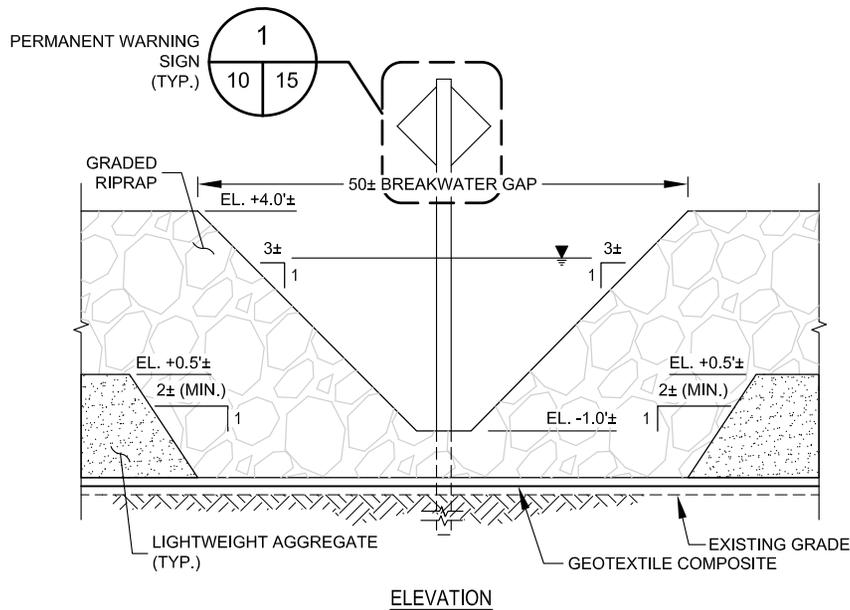
REFERENCE SHEET

PERMIT NUMBER

P20210912

SHEET NUMBER

00U-09



1
05 | 10

TYPICAL SECTION AND DETAILS

NORTHERN REACH BREAKWATER GAP
SCALE: NTS

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NOTES:

- SEE NOTES ON SHEET 00U-08.



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

**TYPICAL SECTION AND DETAILS -
NORTHERN REACH BREAKWATER GAP**

PROJECT NUMBER
10206120

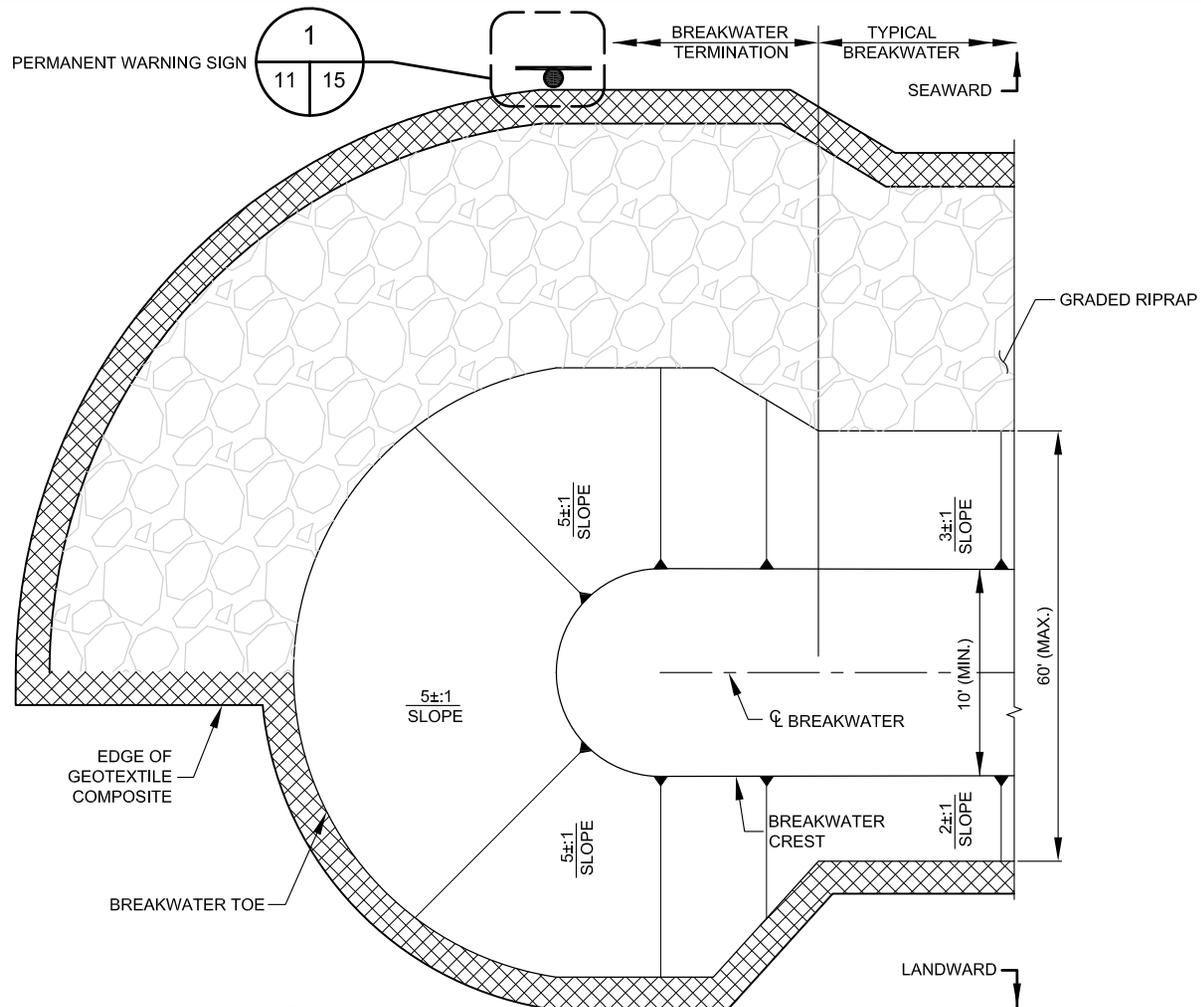
PROJECT MANAGER
E. ROONEY

DATE
01/27/2022

REFERENCE SHEET

PERMIT NUMBER
P20210912

SHEET NUMBER
00U-10



1 PLAN - BREAKWATER TERMINAL
05 11

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NORTHERN REACH TERMINAL

SCALE: NTS

NOTES:

- SEE NOTES ON SHEET 00U-08.



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

**TYPICAL DETAILS -
NORTHERN REACH TERMINAL**

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

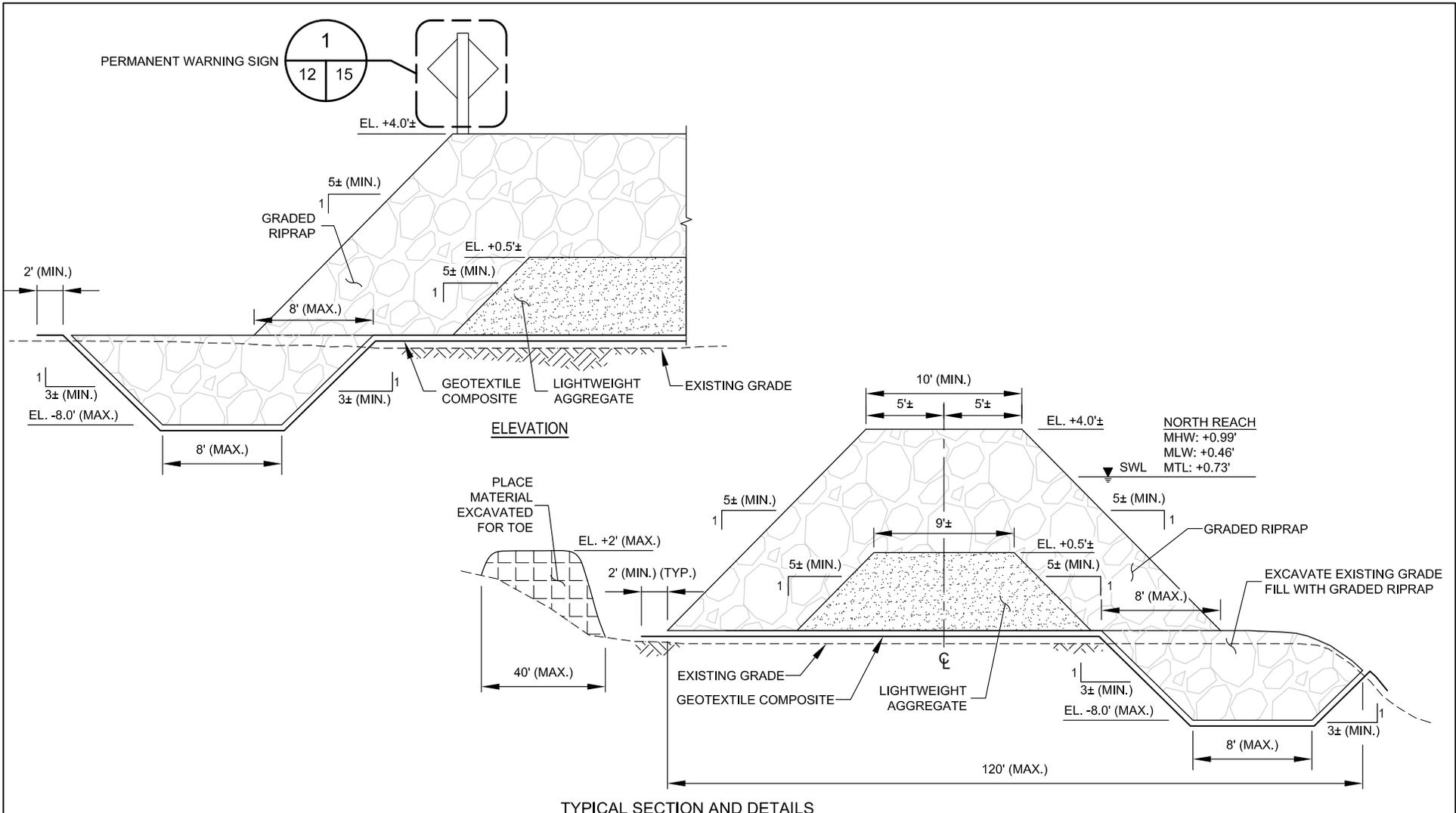
REFERENCE SHEET

PERMIT NUMBER

P20210912

SHEET NUMBER

00U-11



ELEVATION

TYPICAL SECTION AND DETAILS

NORTHERN REACH TERMINAL

SCALE: NTS

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NOTES:

- 1. SEE NOTES ON SHEET 00U-08.

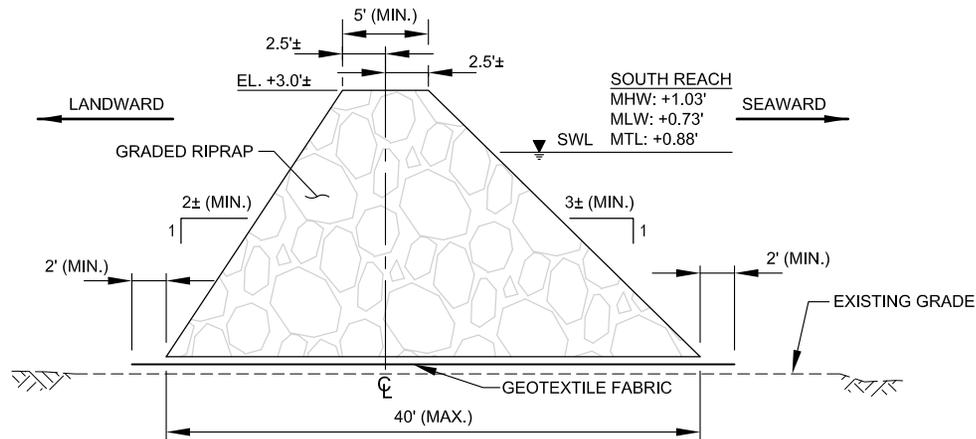


PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

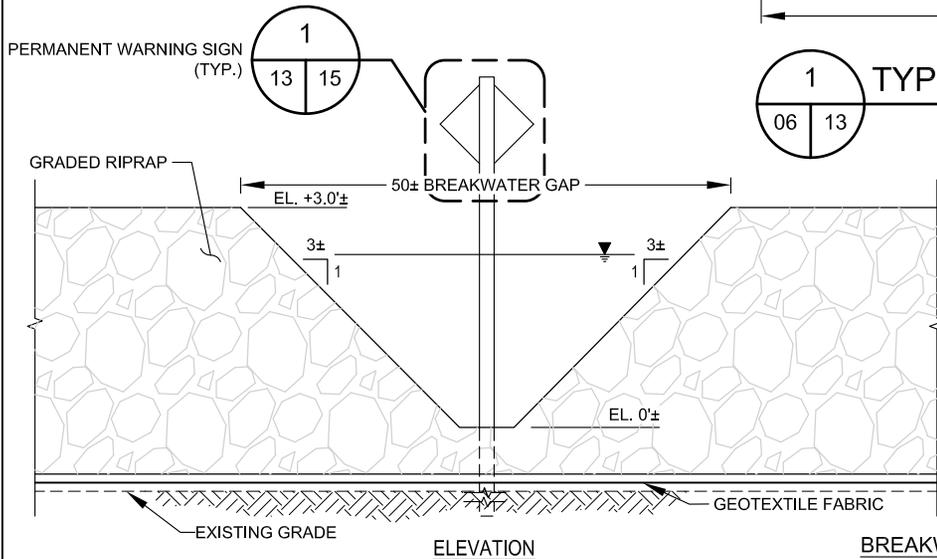
SHEET TITLE
**TYPICAL SECTIONS AND DETAILS -
 NORTHERN REACH TERMINAL**

PROJECT NUMBER
10206120
 PROJECT MANAGER
E. ROONEY
 DATE
01/27/2022

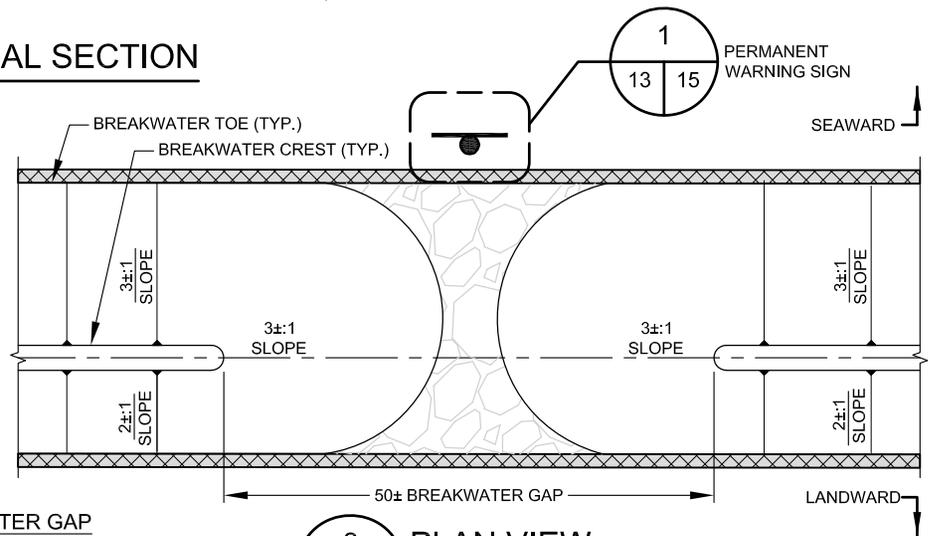
REFERENCE SHEET
 PERMIT NUMBER
P20210912
 SHEET NUMBER
00U-12



1 TYPICAL SECTION



ELEVATION



2 PLAN VIEW

BREAKWATER GAP

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

SOUTHERN REACH BREAKWATER

SCALE: NTS

NOTES:

- 1. SEE NOTES ON SHEET 00U-08.



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

TYPICAL SECTIONS AND DETAILS - SOUTHERN REACH BREAKWATER

PROJECT NUMBER

10206120

PROJECT MANAGER

E. ROONEY

DATE

01/27/2022

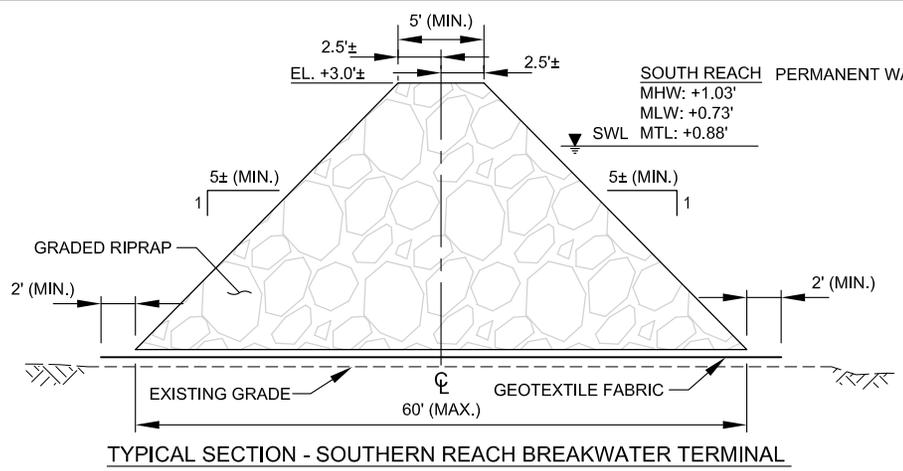
REFERENCE SHEET

PERMIT NUMBER

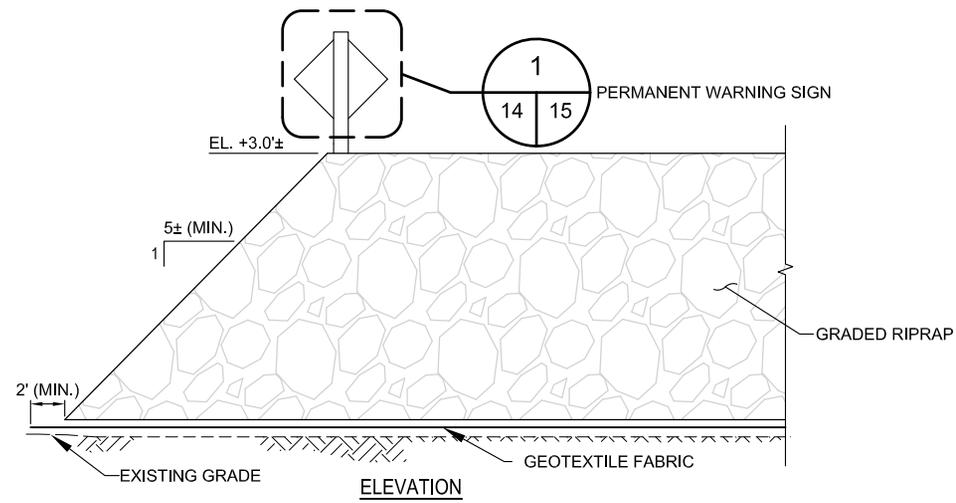
P20210912

SHEET NUMBER

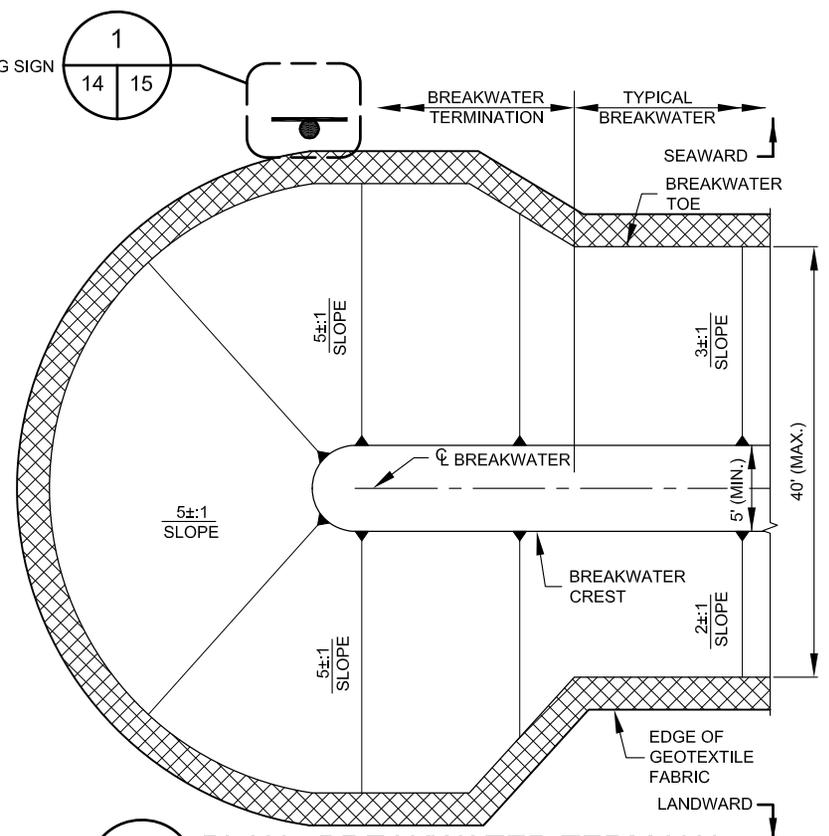
00U-13



TYPICAL SECTION - SOUTHERN REACH BREAKWATER TERMINAL



ELEVATION



PLAN - BREAKWATER TERMINAL

SOUTHERN REACH TERMINAL
SCALE: NTS

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021

NOTES:

- SEE NOTES ON SHEET 00U-08.

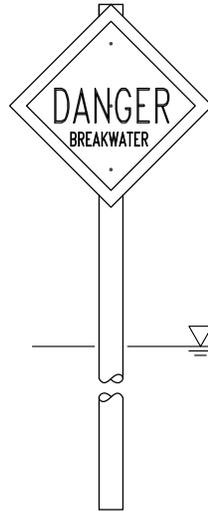


PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

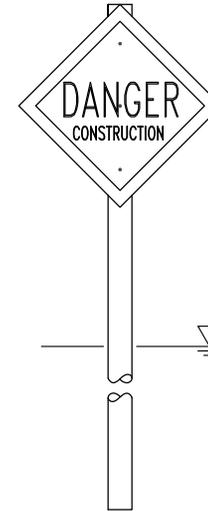
SHEET TITLE
TYPICAL SECTIONS AND DETAILS - SOUTHERN REACH TERMINAL

PROJECT NUMBER
10206120
PROJECT MANAGER
E. ROONEY
DATE
01/27/2022

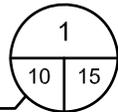
REFERENCE SHEET
PERMIT NUMBER
P20210912
SHEET NUMBER
00U-14



NORTH REACH	SOUTH REACH
MHW: +0.99'	MHW: +1.03'
MLW: +0.46'	MLW: +0.73'
MTL: +0.73'	MTL: +0.88'



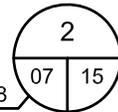
NORTH REACH	SOUTH REACH
MHW: +0.99'	MHW: +1.03'
MLW: +0.46'	MLW: +0.73'
MTL: +0.73'	MTL: +0.88'



DETAIL - PERMANENT WARNING SIGN

14,13,12,11

NOT TO SCALE



DETAIL - TEMPORARY WARNING SIGN

08

NOT TO SCALE

PERMANENT WARNING SIGN AND TEMPORARY WARNING SIGN

SCALE: NTS

NOTES:

1. PERMANENT WARNING SIGN MAY INCLUDE LIGHTED DAYBEACON.
2. WARNING SIGN DETAILS AND LOCATIONS WILL BE COORDINATED WITH REQUIREMENTS FROM THE U.S. COAST GUARD FOR PRIVATE AIDS TO NAVIGATION.

FOR PERMITTING ONLY

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

ENGINEER: ERIN A. ROONEY LICENSE NO: 39196
 FIRM: HDR ENGINEERING, INC. DATE: 12/22/2021



PROJECT TITLE LAKE PONTCHARTRAIN SHORELINE PROTECTION PROJECT

SHEET TITLE

**TYPICAL DETAILS -
 PERMANENT WARNING SIGN AND TEMPORARY WARNING SIGN**

PROJECT NUMBER
 10206120

PROJECT MANAGER
 E. ROONEY

DATE
 01/27/2022

REFERENCE SHEET

PERMIT NUMBER
 P20210912

SHEET NUMBER
 00U-15