

# 2024 CPRA COASTAL INDUSTRY BRIEFING AND CONSTRUCTION PROJECT FORECAST

BATON ROUGE, LOUISIANA



# AGENDA

## ITEM I

### Opening Remarks

*Rudy Simoneaux, CPRA*



### 2024 CPRA Coastal Industry Week Coastal Industry Briefing and Construction Project Forecast – CPRA Led

March 25<sup>th</sup>, 2024  
3:00pm – 4:30pm CST

*Combined In-Person and Virtual Meeting*

LaSalle Building  
LaBelle Room  
617 North Third Street  
Baton Rouge, LA 70802

Zoom URL: <https://us06web.zoom.us/j/85348112108>  
Meeting ID: 853 4811 2108  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836



- I. **Opening Remarks (3:00 pm – 3:05 pm):** *Rudy Simoneaux, CPRA*
- II. **Louisiana Workforce Commission Presentation (3:05 – 3:10):** *Lisa Williams, LWC*
- III. **Upcoming Projects to be Bid for Construction (3:10 pm – 4:20 pm)**
  - a. BS-0038 Breton Landbridge Marsh Creation West: *Alex Holston, CPRA*
  - b. BS-0037 East Delacroix Marsh Creation and Terracing: *Alex Holston, CPRA*
  - c. AT-0022 East Grand Lake Upper Hydrologic Restoration: *Kevin Rizzo, Delta Coast Consultants, LLC*
  - d. TE-0043 GIWW Bank Rest. of Critical Project Areas (maintenance): *Kevin Rizzo, Delta Coast Consultants, LLC*
  - e. TE-0176 West Belle Headland Repair: *Steve Dartez, Coastal Engineering Consultants, Inc.*
  - f. TE-0170 Bayou Dularge Ridge and Marsh Creation: *Dylan Ohlsen, CPRA*
  - g. PO-0181 Bayou Cane Marsh Creation: *Adam Linson, CPRA*
  - h. CS-0087 Calcasieu-Sabine Large Scale Marsh and Hydrologic Restoration: *Adam Linson, CPRA*
  - i. PO-0179 St. Catherine Island Marsh Creation and Shoreline Protection: *Olivia LaHaye, CPRA*
  - j. BS-0043 Reggio Marsh Creation: *Erol Knaus, CPRA*
  - k. TE-0134 West Fourchon Marsh Creation and Nourishment: *Kyle Galloway, GIS Engineering, LLC*
- IV. **IDIQ Contracting Update (4:20 pm – 4:30 pm):** *Rudy Simoneaux, CPRA*
- V. **Additional Questions and Discussion**
- VI. **Adjourn**

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## ITEM II

### Louisiana Workforce Commission Presentation

*Lisa Williams, LWC*



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# COASTAL WORKFORCE

# DEVELOPMENT

*Louisiana*



# COASTAL INDUSTRY SECTOR

LWC'S seeks engagement with Coastal stakeholders  
to better understand Coastal workforce challenges  
and  
provide solutions for workforce development  
within the Coastal workforce industry



# Coastal Partnerships/Stakeholders

Coastal Protection and Restoration  
Authority (CPRA)  
LWC/CPRA Memorandum of  
Understanding (MOU)  
LWC/Coursera Partnership  
Coastal Technical Assistance Center  
(CTAC)

Local American Job Centers/Workforce  
Development Boards  
Louisiana Community Colleges and  
Technical Systems  
Coastal Companies and Contractors  
Louisiana  
Coastal Zone Residents



# LOUISIANA FIRST HIRING ACT

Coastal businesses are required to conduct certain activities to recruit and hire Coastal Zone residents

The Act positions Coastal resident job seekers to apply for jobs relative to CPRA coastal and related projects

LA First Hiring Act was enacted legislatively in 2012 to strengthen the coastal economy

LWC assists Coastal employers or contractors create and post jobs in the HiRE system

<https://ogletree.com/insights-resources/blog-posts/louisiana-first-hiring-act/>

LOUISIANA  
WORKFORCE  
COMMISSION



# COASTAL PROJECTS OVERVIEW

## Coastal Projects Hotlist

<https://coastal.la.gov/resources/rfps-rsiqs-contracts/resourcesrfps-rsiqs-contractsprojects-hotlist/>

41 Projects Currently Underway

11 Projects scheduled for bid in the next 6 months



# COASTAL HIRING CHALLENGES

## Contractor Compliance

Engaging existing Coastal Contractors to actively seek LA residents beyond the initial project hiring stage

## Limited Workforce

Disasters causing relocation and population shift within Coastal Zones; lessening the skilled workforce pool



# LWC COASTAL INDUSTRY ENGAGEMENT

LWC & CPRA QUARTERLY MEETINGS

COASTAL INDUSTRY CONVENING  
(STAKEHOLDERS/CONTRACTOR'S) QUARTERLY MEETINGS /  
LOCATION: TBD



**LISA M. WILLIAMS**  
**WORKFORCE DEVELOPMENT ADMINISTRATOR**  
**OFFICE OF WORKFORCE DEVELOPMENT**

**LOUISIANA WORKFORCE COMMISSION**

**1001 N. 23RD STREET**

**BATON ROUGE, LA 70802**

**OFFICE: (225) 342-6451**

**MOBILE: (225) 481-9438**

**EMAIL: [LWILLIAMS4@LWC.LA.GOV](mailto:LWILLIAMS4@LWC.LA.GOV)**

# AGENDA

## ITEM III

### Upcoming Projects to be Bid for Construction

CPRA



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# Breton Landbridge Marsh Creation West (BS-0038)

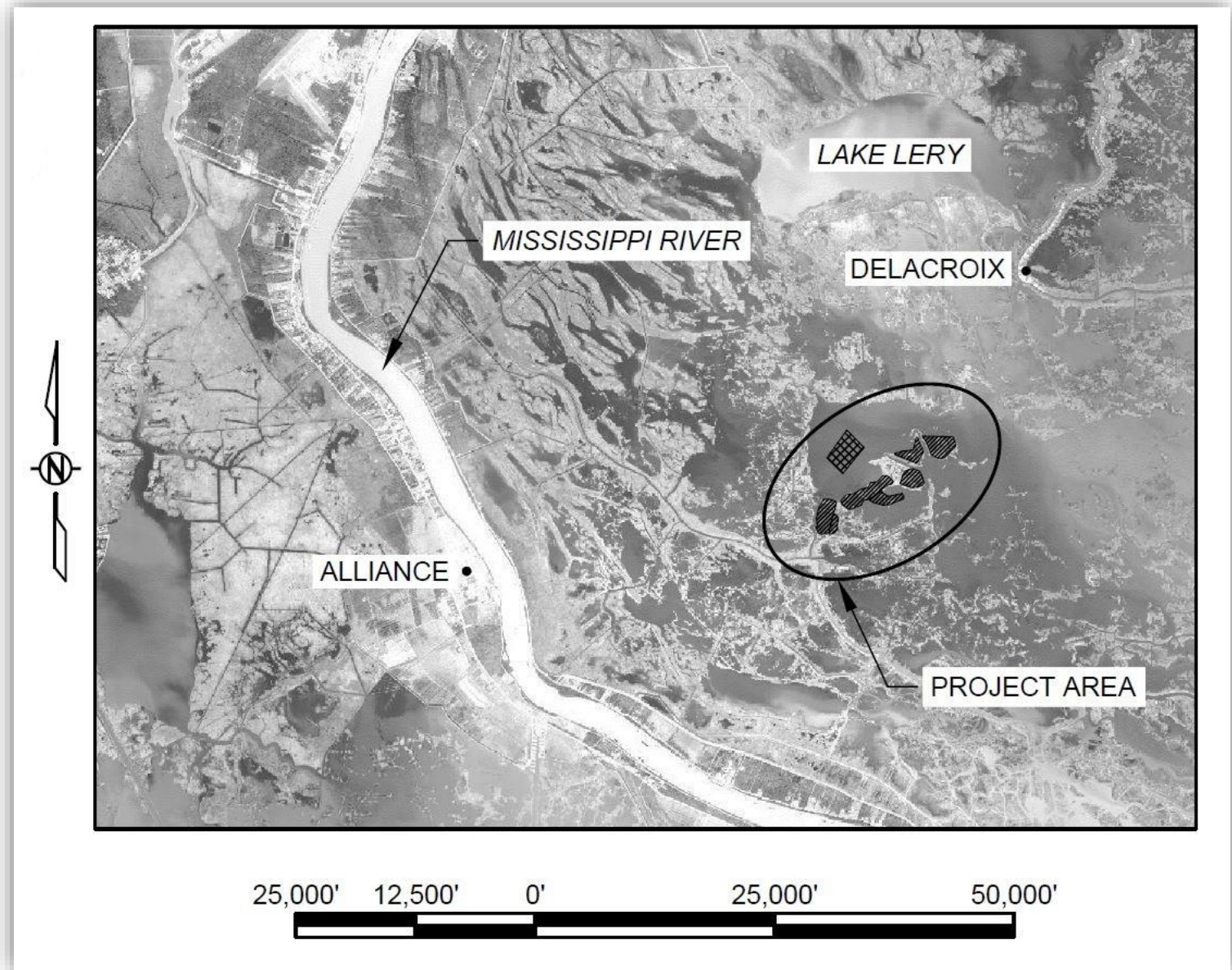
PLAQUEMINES PARISH, LOUISIANA

ALEX HOLSTON, E.I.



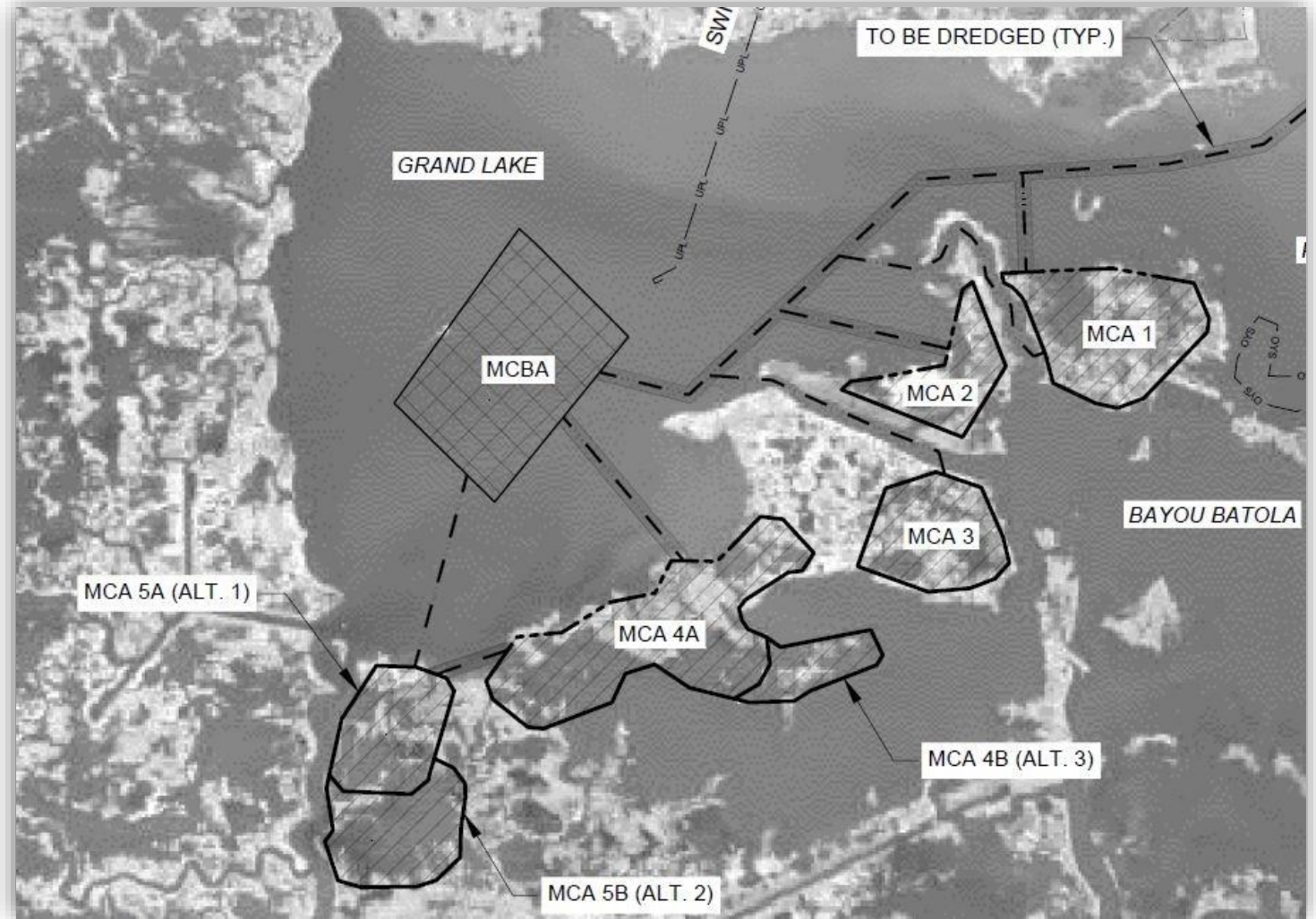
# Project Overview

- CWPPRA PPL 28
- Federal Sponsor: NOAA/NMFS
- Plaquemines Parish



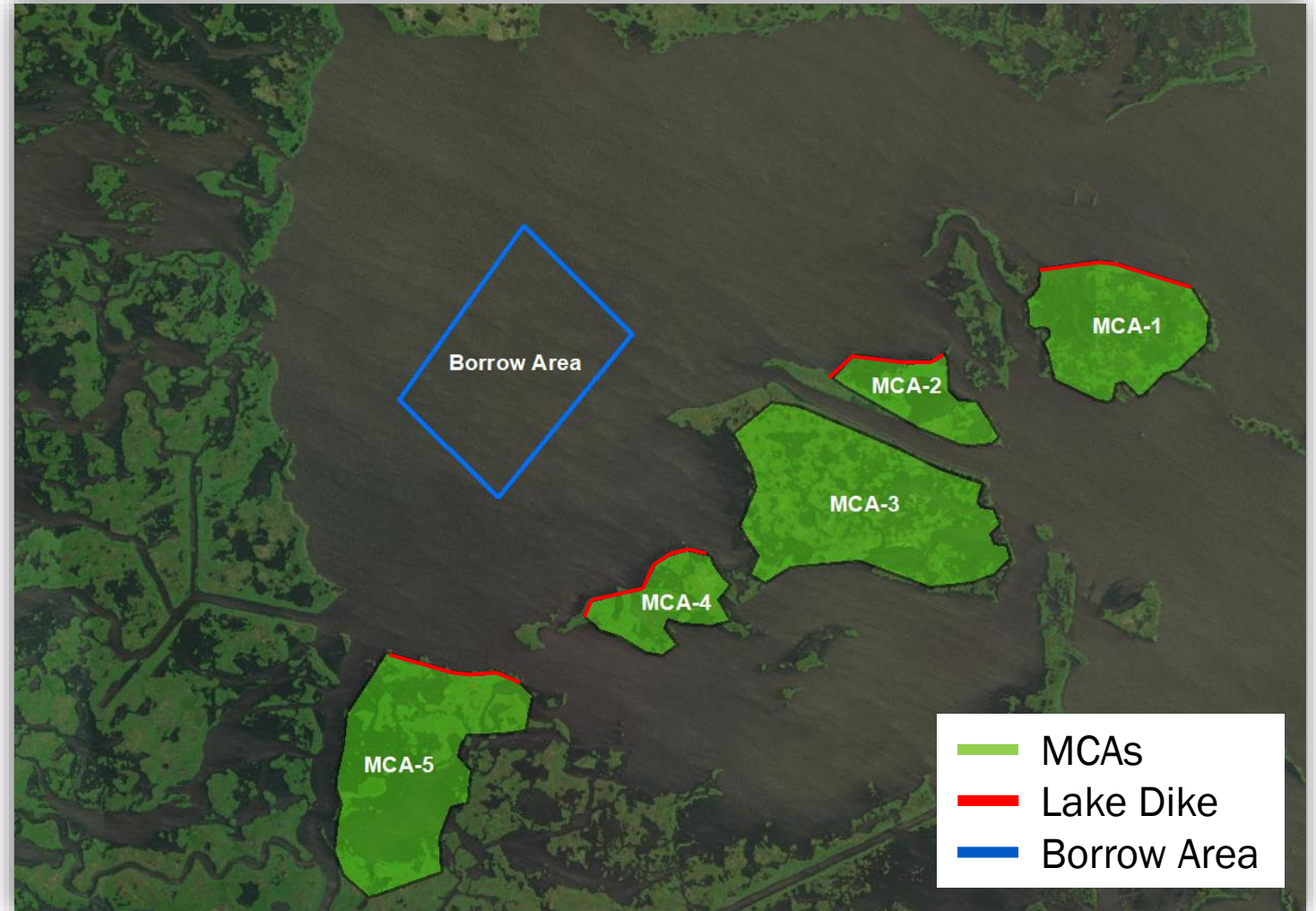
# Project Overview: 2023

- Marsh Creation (446 acres)
- 12,200 LF of Lake Dike
- 1 Mile Avg. Pump Distance (Grand Lake)
- 3 Alternates



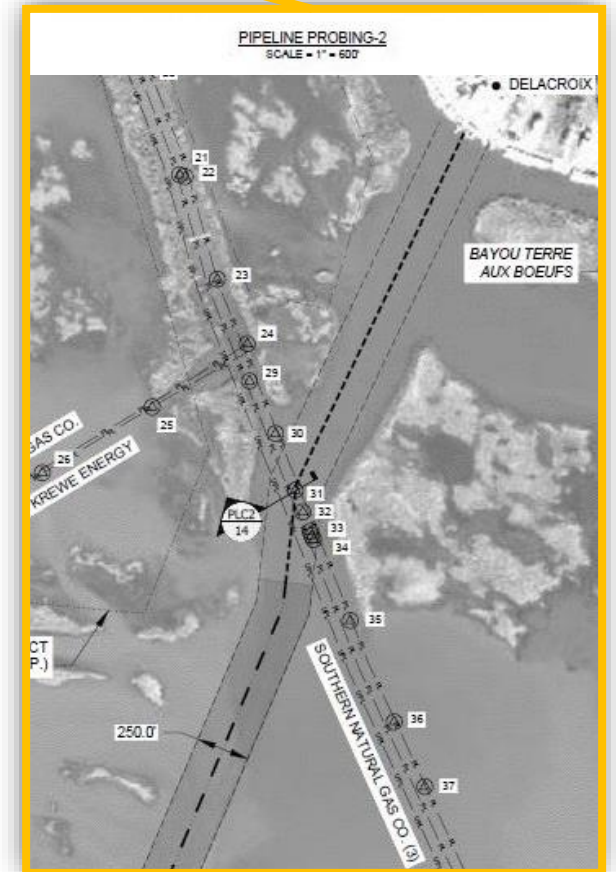
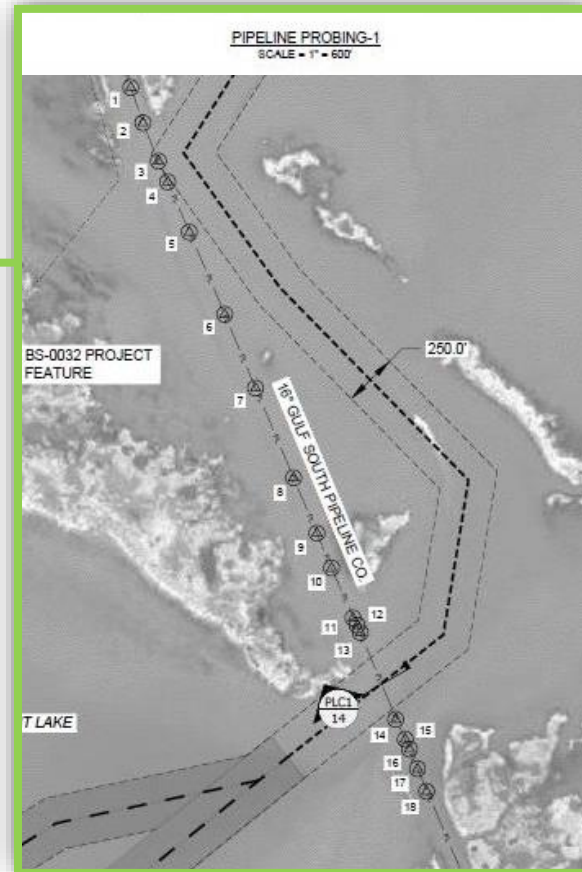
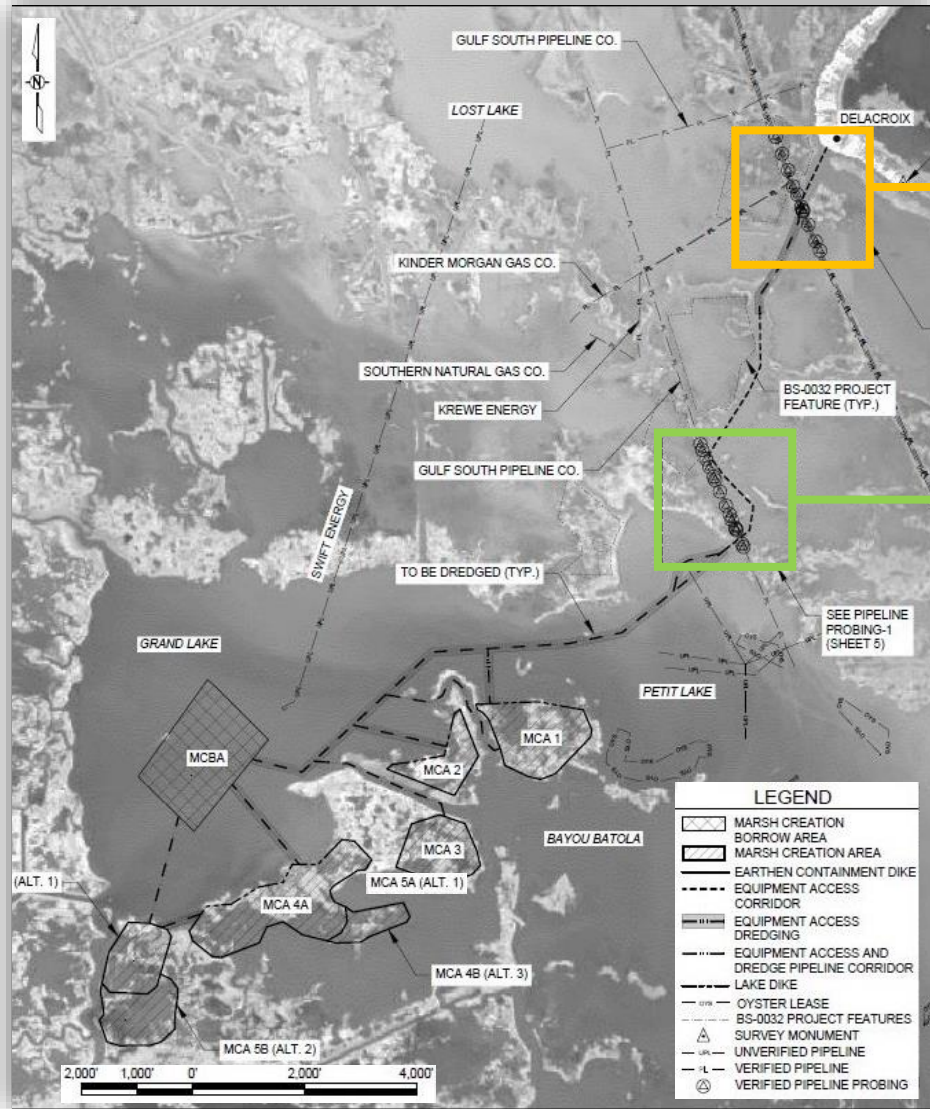
# Project Overview: Current

- Fall 2024 Resurvey
- Marsh Creation (609 acres)
  - 2.5 MCY
- 9,900 LF of Lake Dike
- 1 Mile Avg. Pump Distance (Grand Lake)

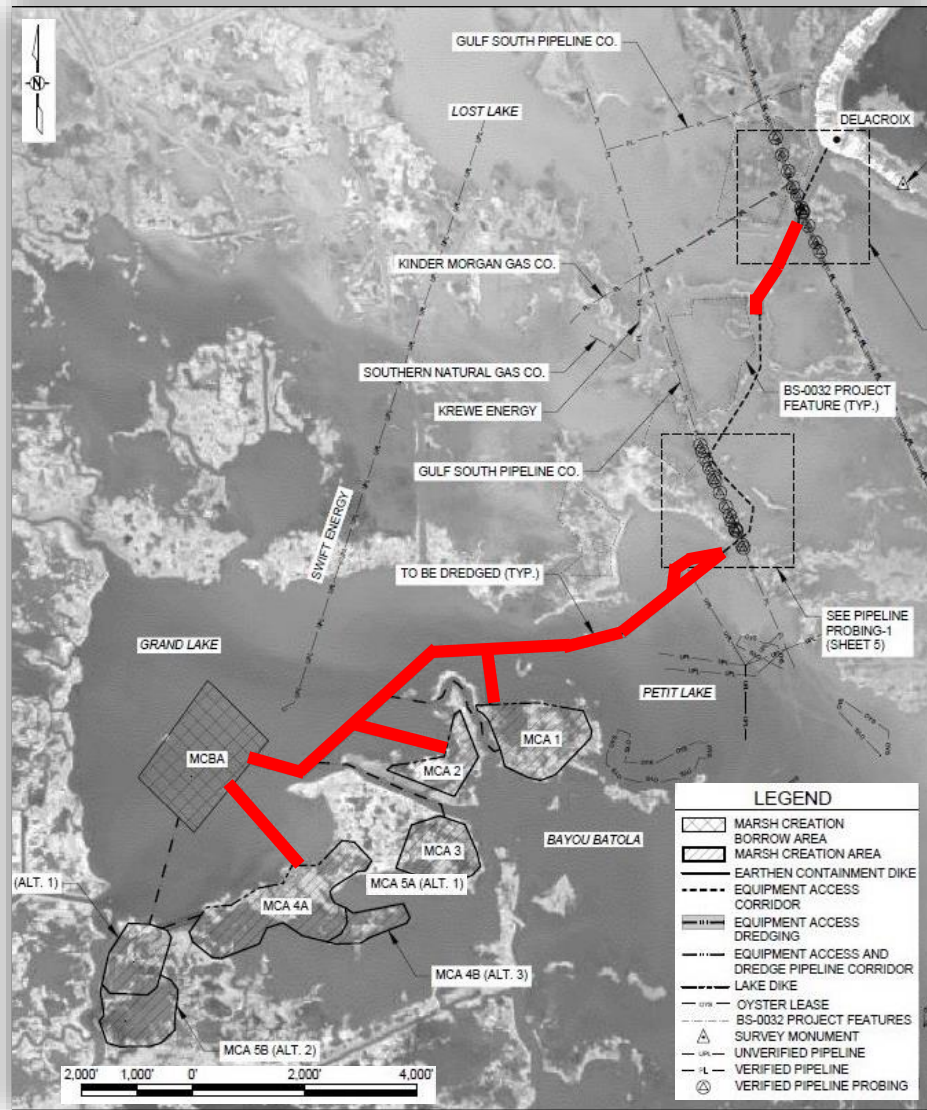




# Existing Infrastructure, Dredge Pipeline & Equipment Access Route



# Existing Infrastructure, Dredge Pipeline & Equipment Access Route



# Equipment Access Route

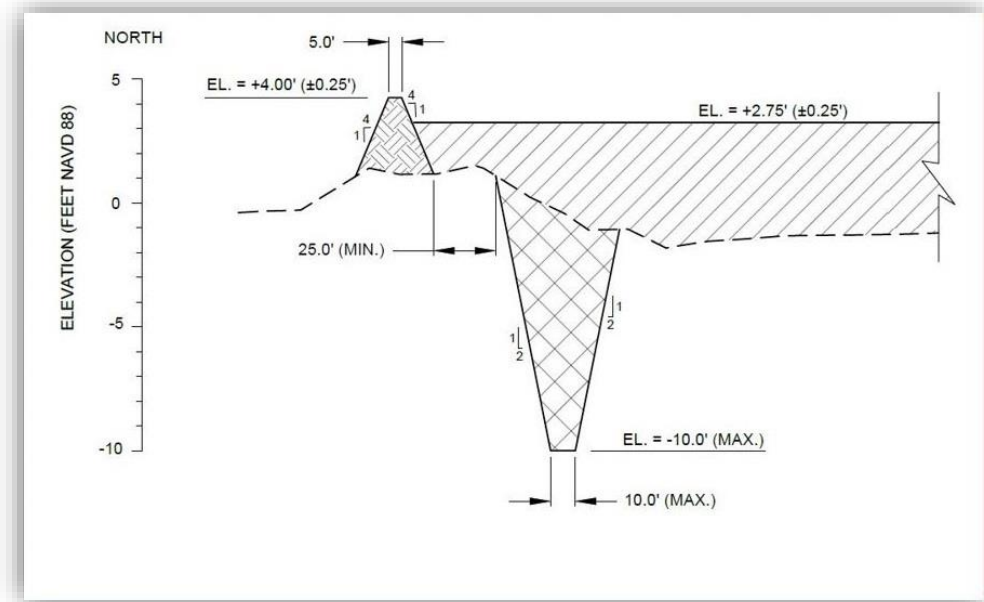
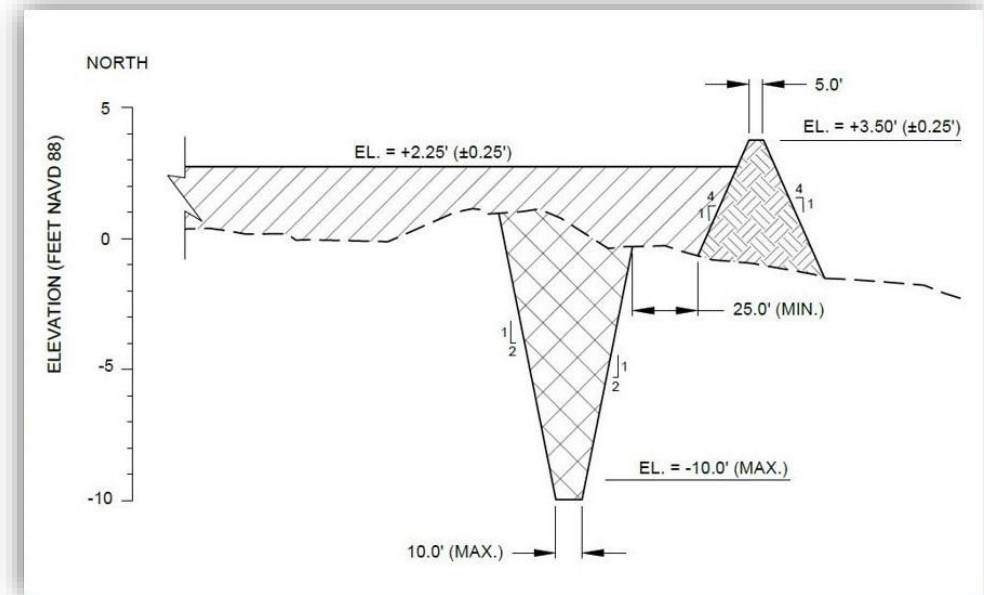
## Access Dredging

- Elevation: -6' NAVD88
- Width: 60'
- Length: 27,000 LF
- Volume: 124,000 CY

# Project Features

## Earthen Containment Dikes & CMFE

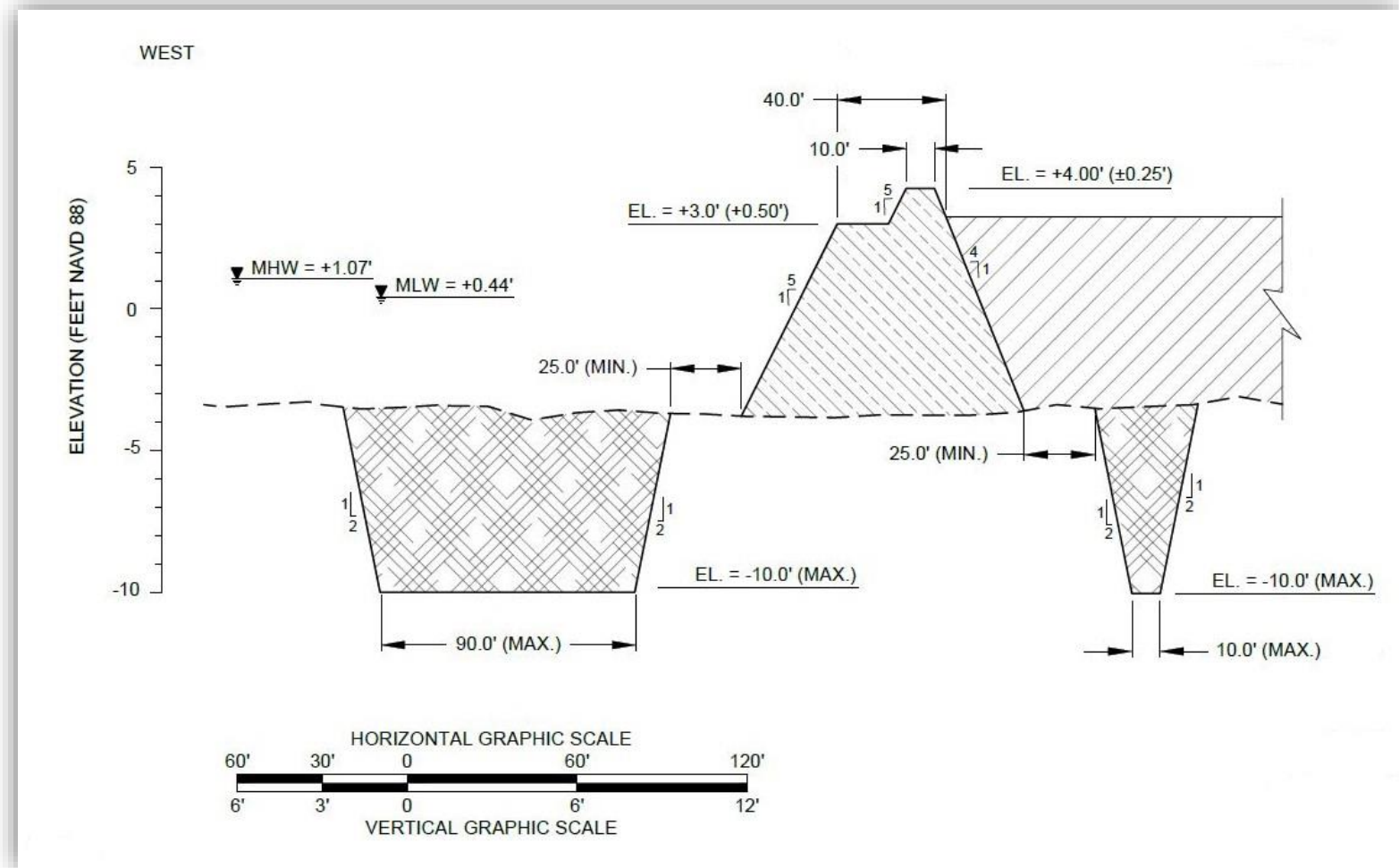
- Crown Elevation: +4.0' ( $\pm 0.25'$ )
- Crown Width: 5.0'
- Side Slopes: 4H:1V
- Total ECD Length: 39,800 LF
- Interior Borrow
- MCA CMFE
  - MCA 1 = +2.25' ( $\pm 0.25'$ )
  - MCA 2-5 = +2.75' ( $\pm 0.25'$ )



# Project Features

## Lake Dike

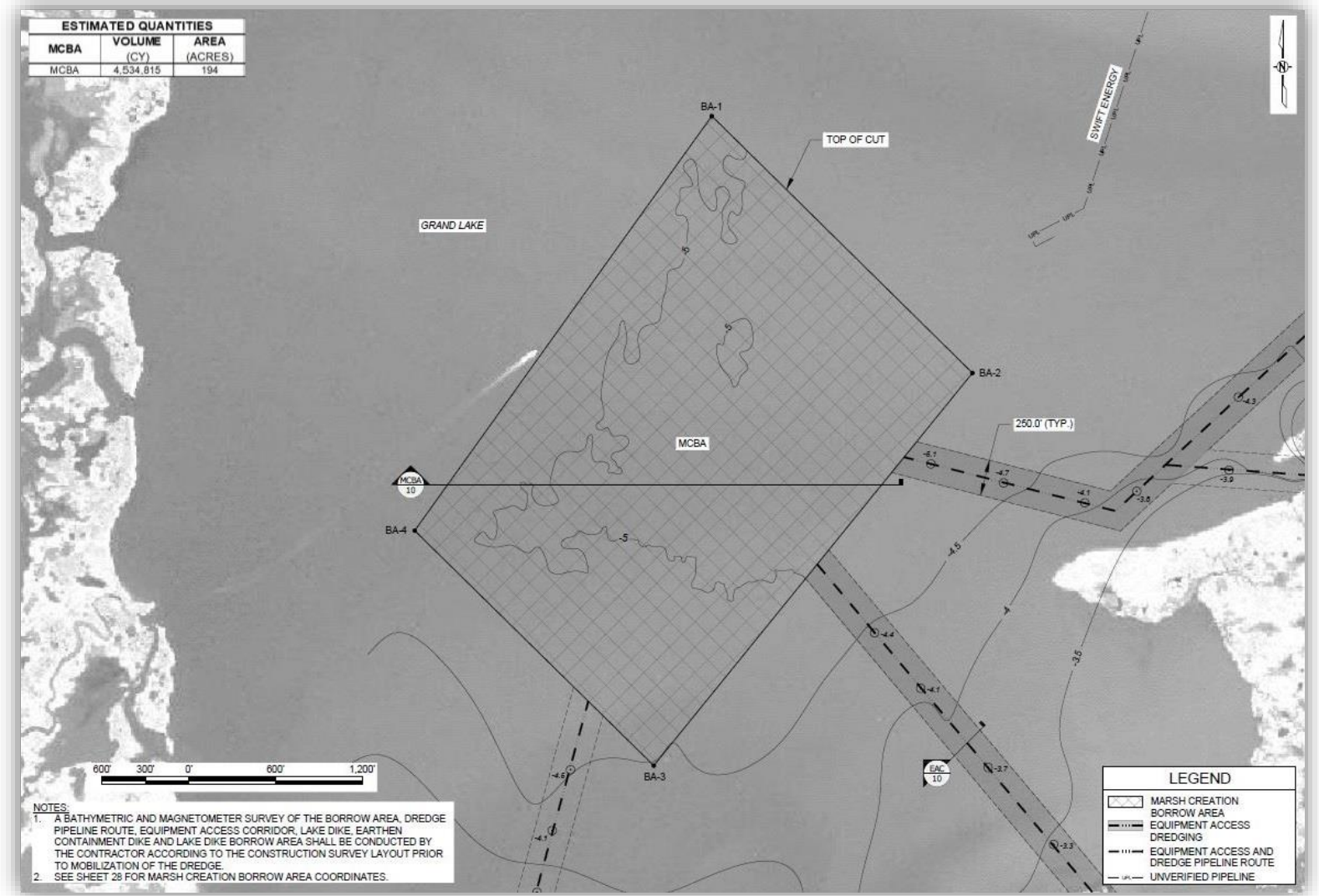
- MCAs 1, 2, and 4
  - Crown Elevation: +3.0' (+0.5')
  - Crown Width: 40'
  - Slope: Lake Side = 5H:1V;  
Marsh Side = 4H:1V
  - Total LF: 7,300
- MCA 5
  - Crown Elevation: 4.0' ( $\pm 0.25'$ )
  - Crown Width: 15'
  - Total LF: 2,600



# Project Features

## Borrow Area (Grand Lake)

- 5 Miles Southwest of Delacroix Island
- Mudline EL.: -5.0'
- 15' Cut Depth
- Primarily layers of lean and fat clays mixed with silt layer
- Approx. 4.5M CY Available (194 Acres)



# Summary of Estimated Quantities

- 2.5 MCY of Hydraulic Dredging and Marsh Creation
- 39,800 LF Earthen Containment Dikes
- 9,900 LF Lake Dikes
- 27,000 LF Access Dredging

# Schedule

- **Phase 2 Approval: January 2022**
- **Construction Permit: Received January 2023**
- **Anticipated Bid Advertisement: Fall 2024**
- **Construction Duration: 570 days**

# East Delacroix Marsh Creation and Terracing Project (BS-0037)

ST. BERNARD PARISH, LOUISIANA

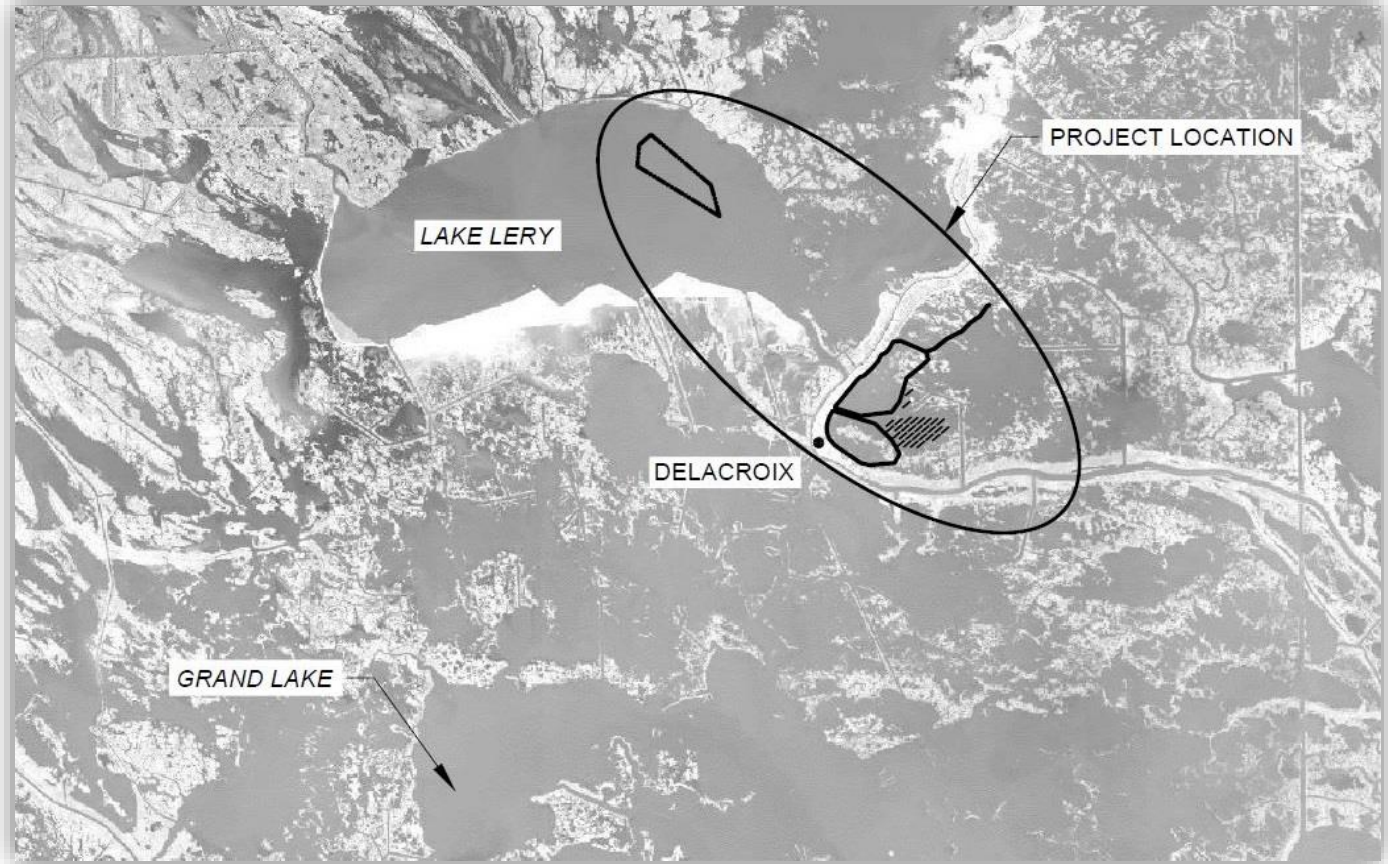
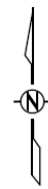
ALEX HOLSTON, E.I.





# Project Overview

- CWPPRA PPL 28
- Federal Sponsor: NOAA/NMFS
- St. Bernard Parish
- 412 acres of marsh creation
  - Lake Lery borrow area
  - Cut volume = 2,600,000 CY
- 19,360 LF of earthen terracing



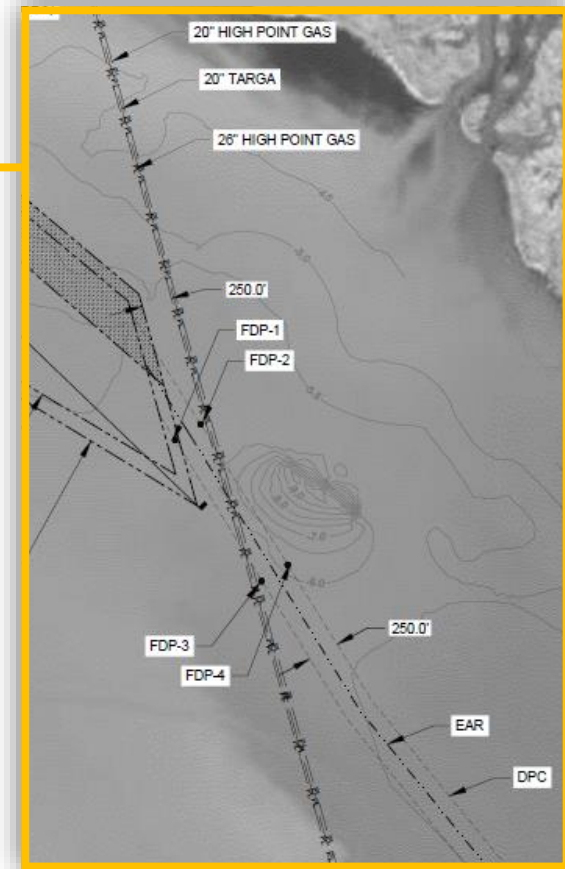
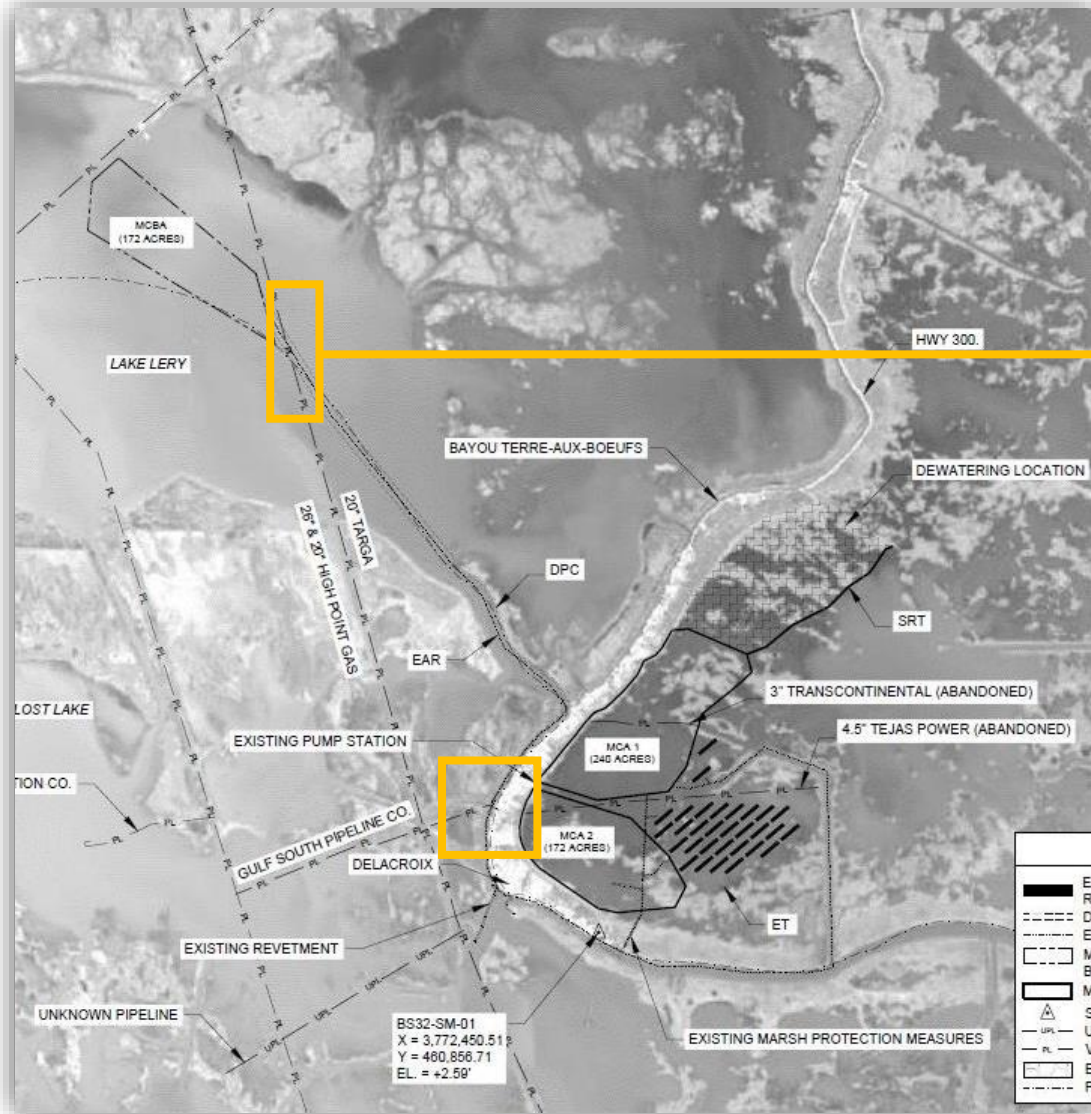
# Infrastructure, Dredge Pipeline, and Equipment Access: Pump Station



## Access: Pump Station



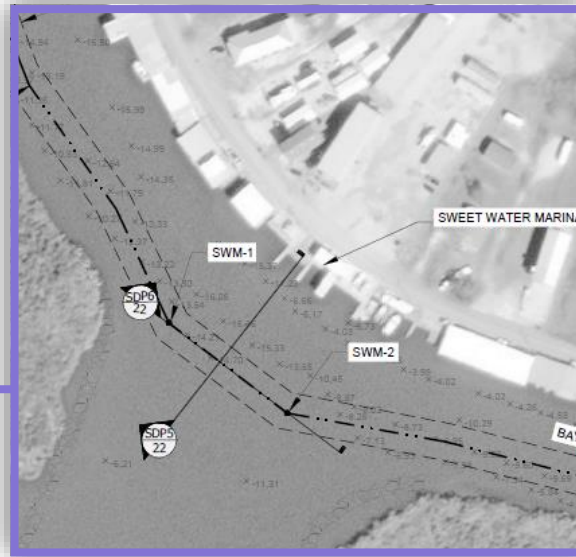
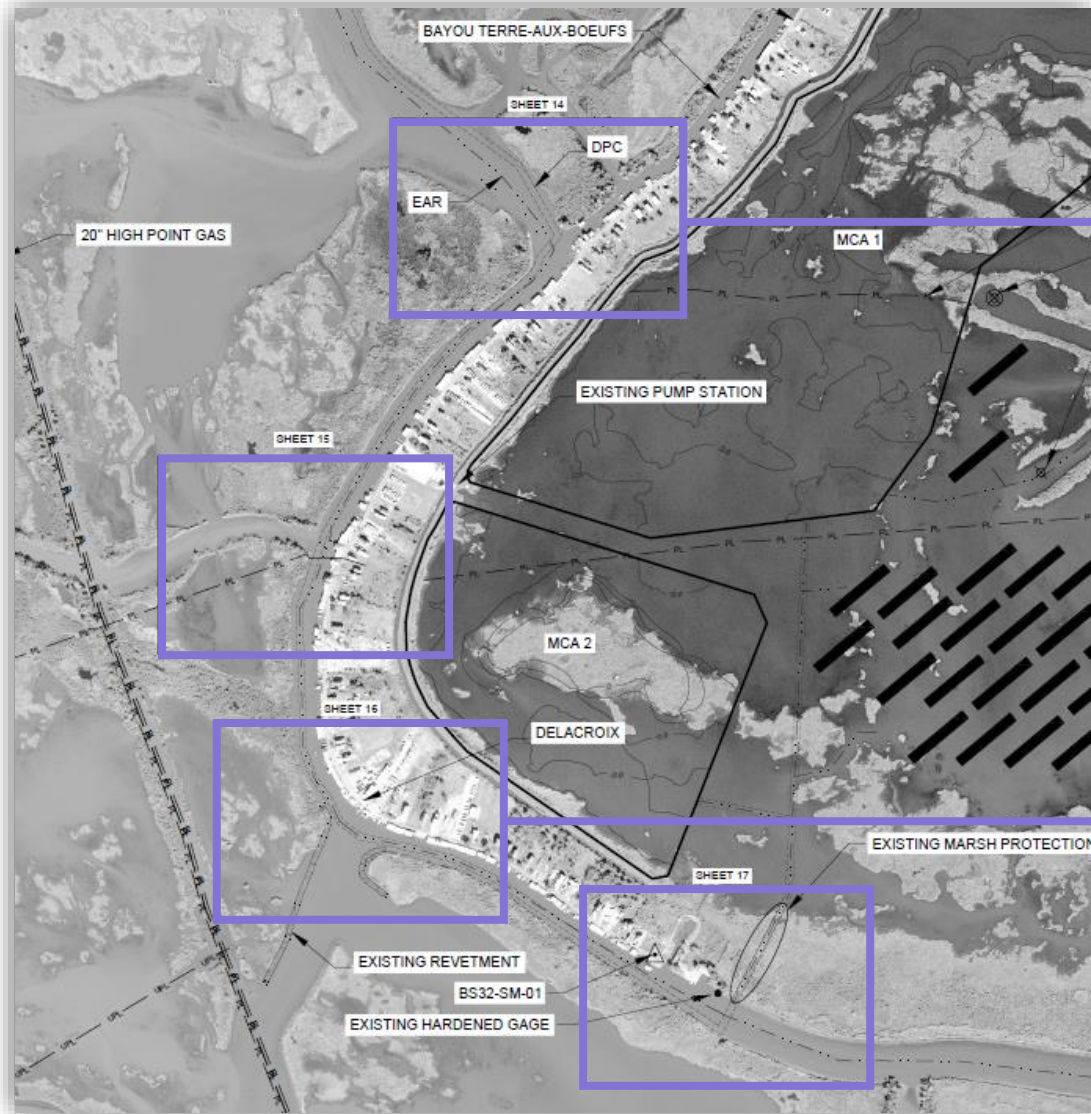
# Infrastructure, Dredge Pipeline, and Equipment Access: Pipelines



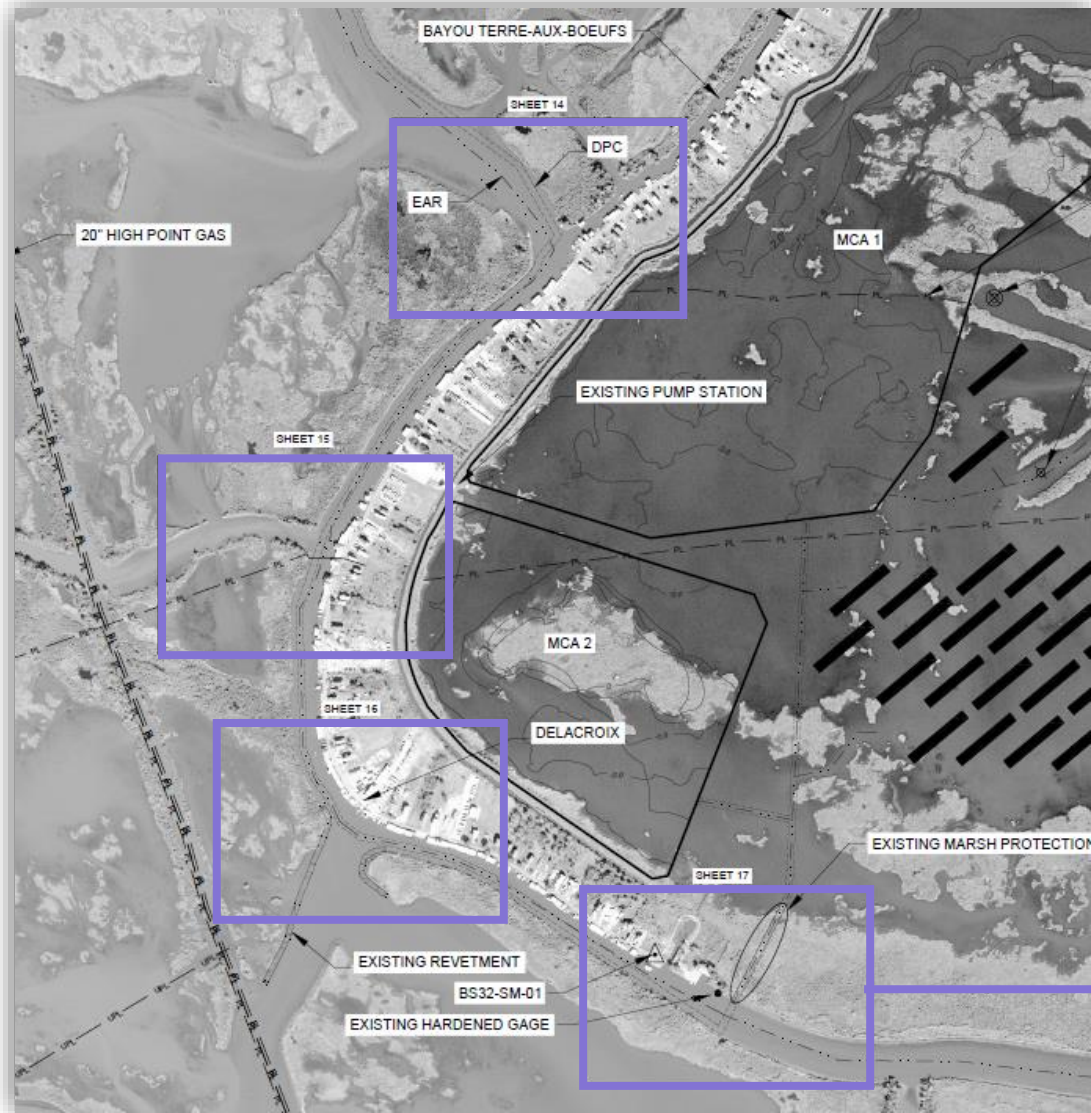
# Infrastructure, Dredge Pipeline, and Equipment Access: Pipeline, Crossing



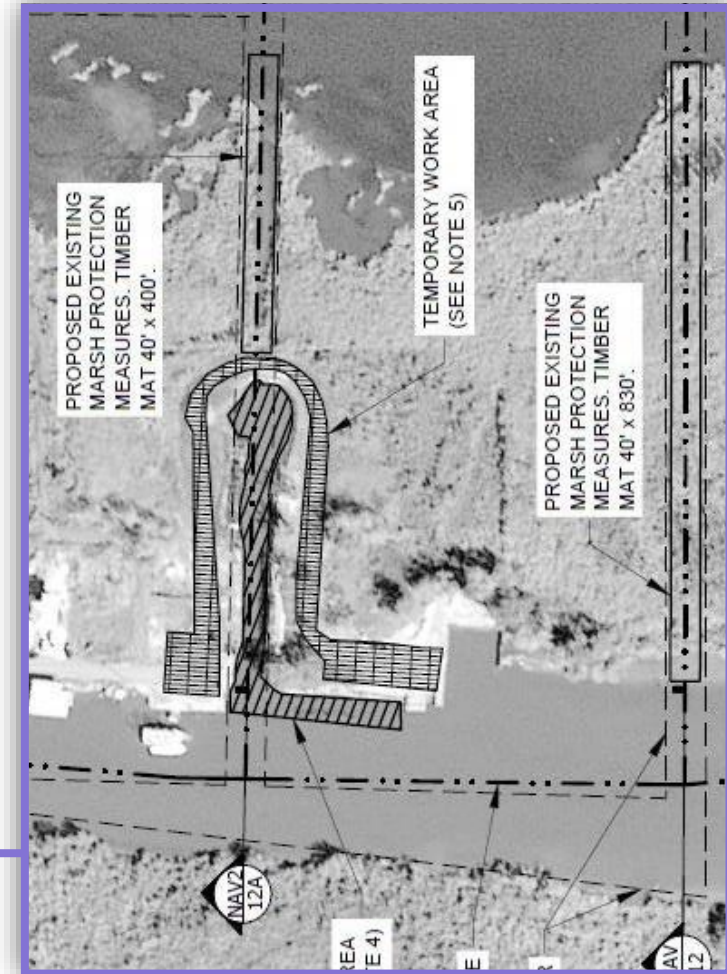
# Infrastructure, Dredge Pipeline, and Equipment Access: Crossings



# Infrastructure, Dredge Pipeline, and Equipment Access: Crossing, Slip



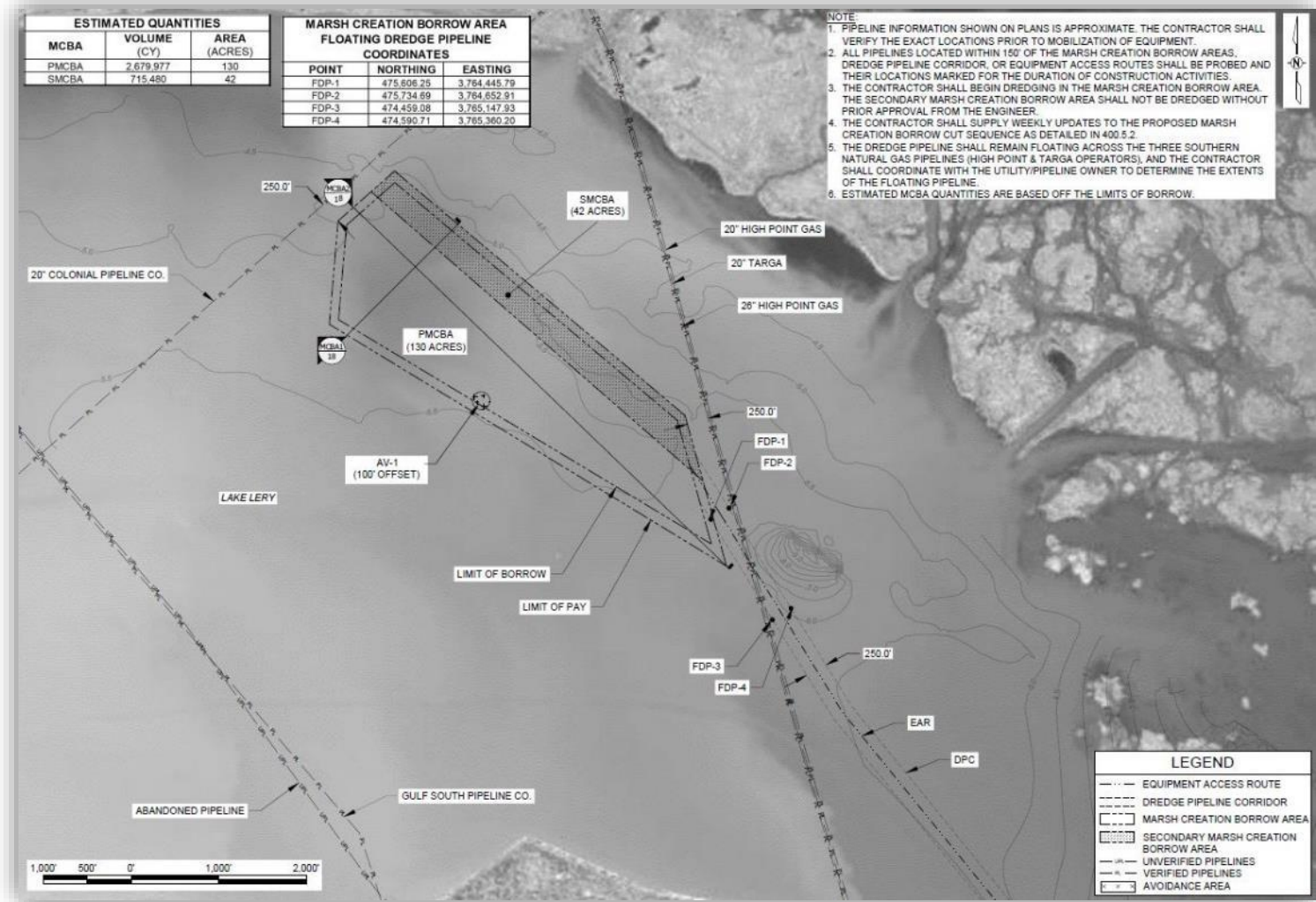
## Access: Crossing, Slip



# Project Features

## Borrow Area

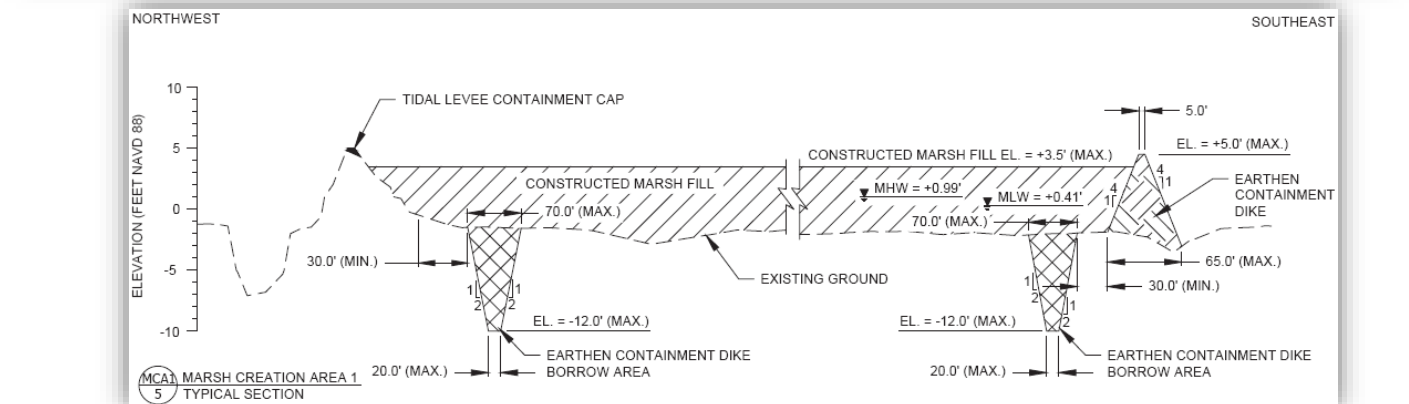
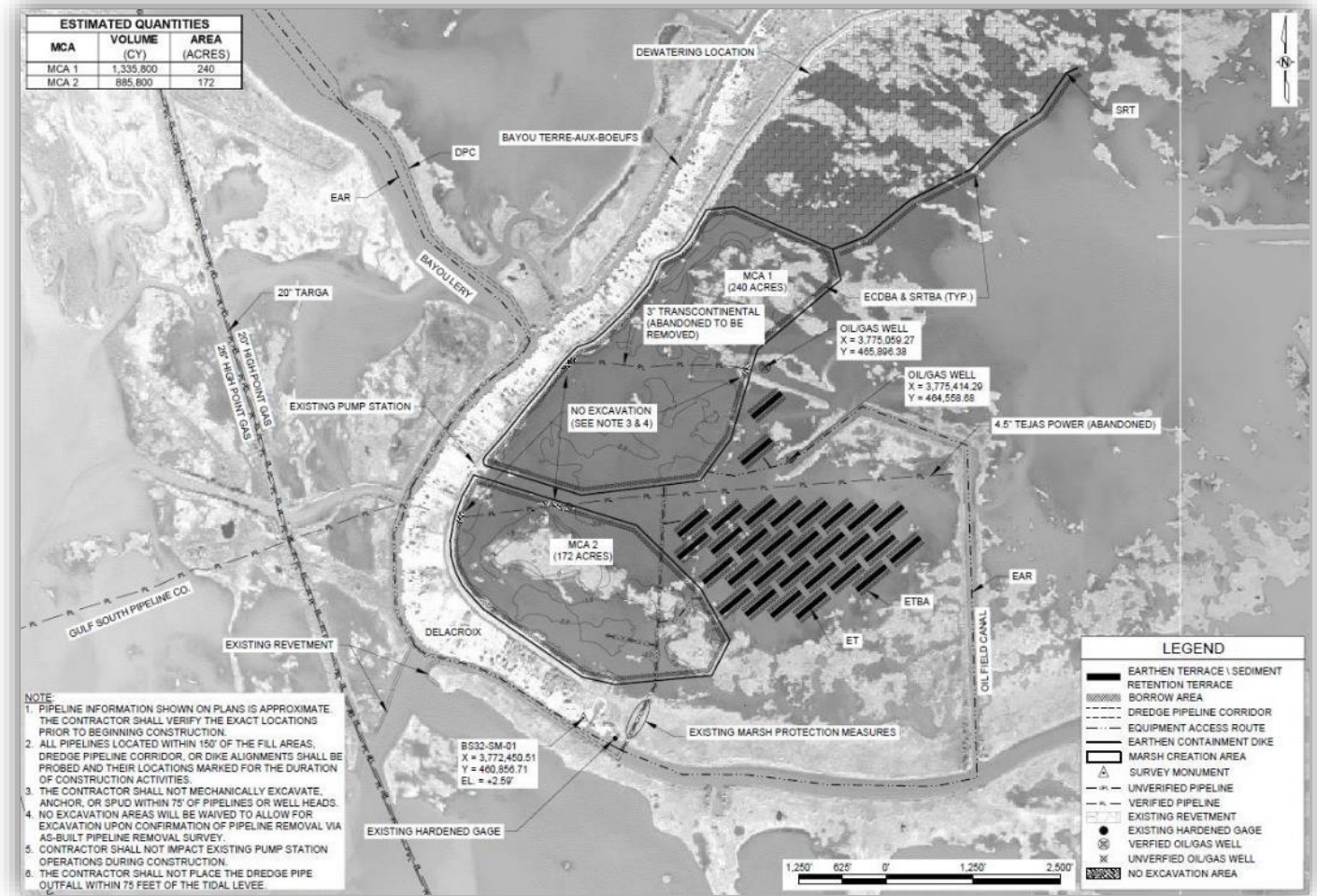
- Lake Lery (6 miles)
- Existing elevation = -5.0' NAVD88
- Cut elevation = -20.0' NAVD88
- Majority fat clay
- 1 avoidance area
- Approx. 3.4M CY available (172 Acres)
  - Primary Borrow Area ~ 2.7M CY
  - Secondary Borrow Area ~ 700k CY
  - (requires full exhaustion of primary BA)



# Project Features

## Marsh Creation Areas

- Total 412 acres
- CMFE: +3.25' NAVD88 ( $\pm 0.25'$ )
- MCA-1
  - 240 acres
  - Cut volume: 1.6 MCY
- MCA-2
  - 172 acres
  - Cut volume: 1.0 MCY

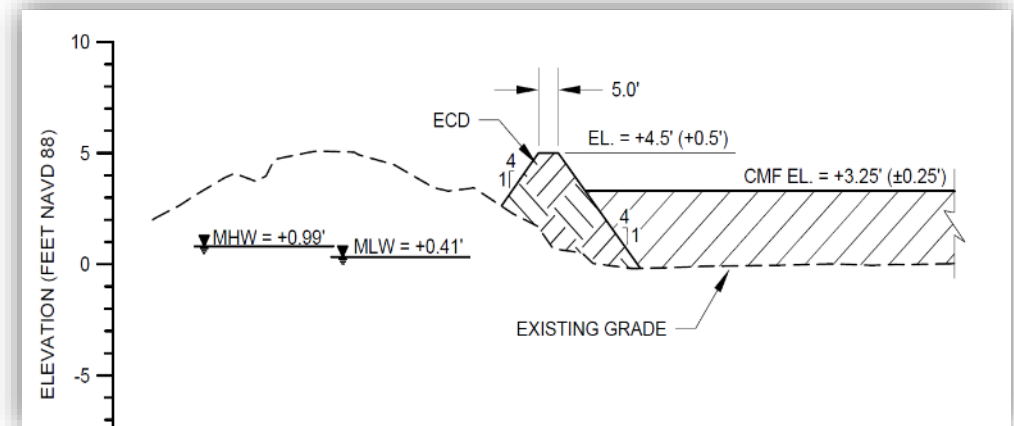
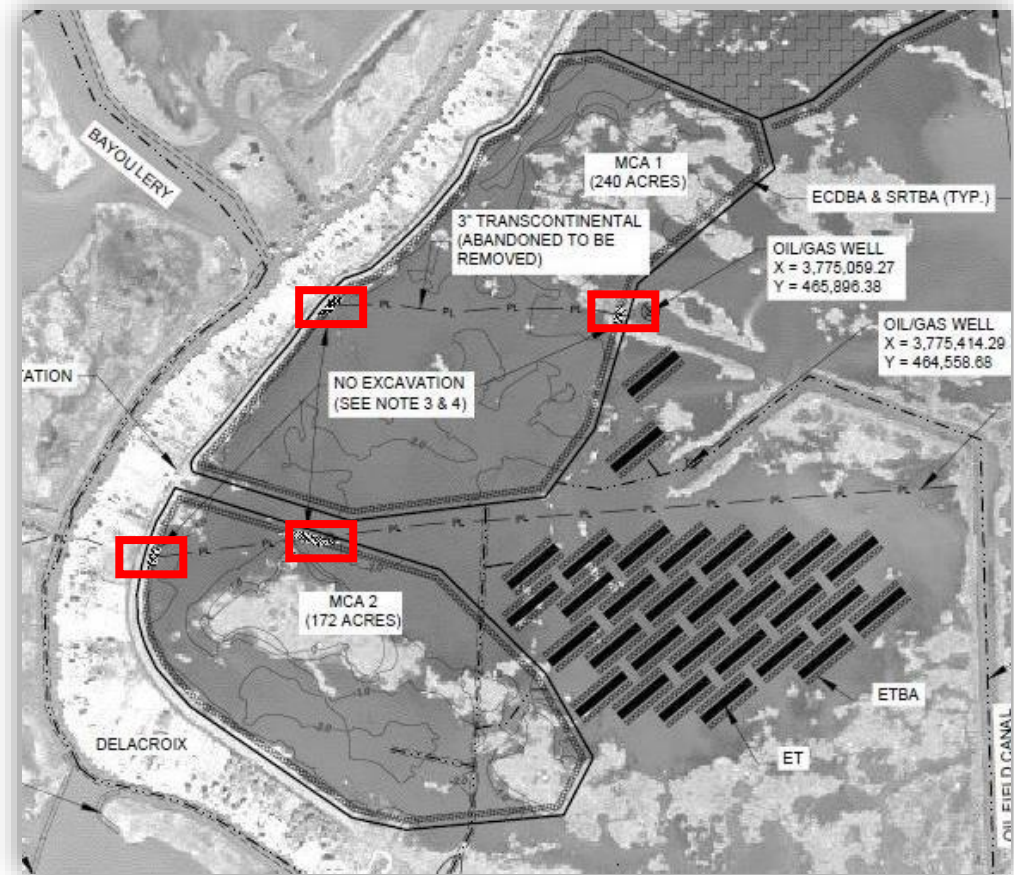




# Project Features

## Earthen Containment Dikes

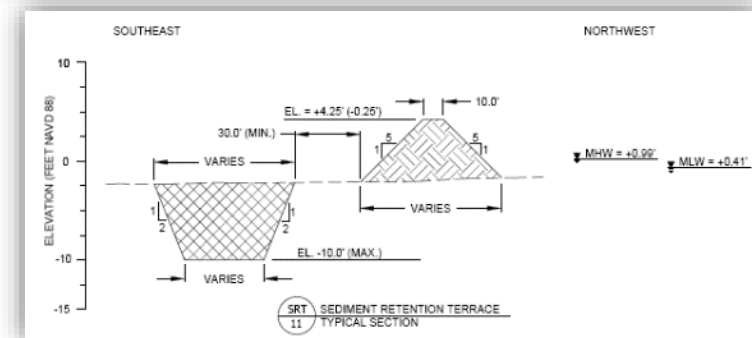
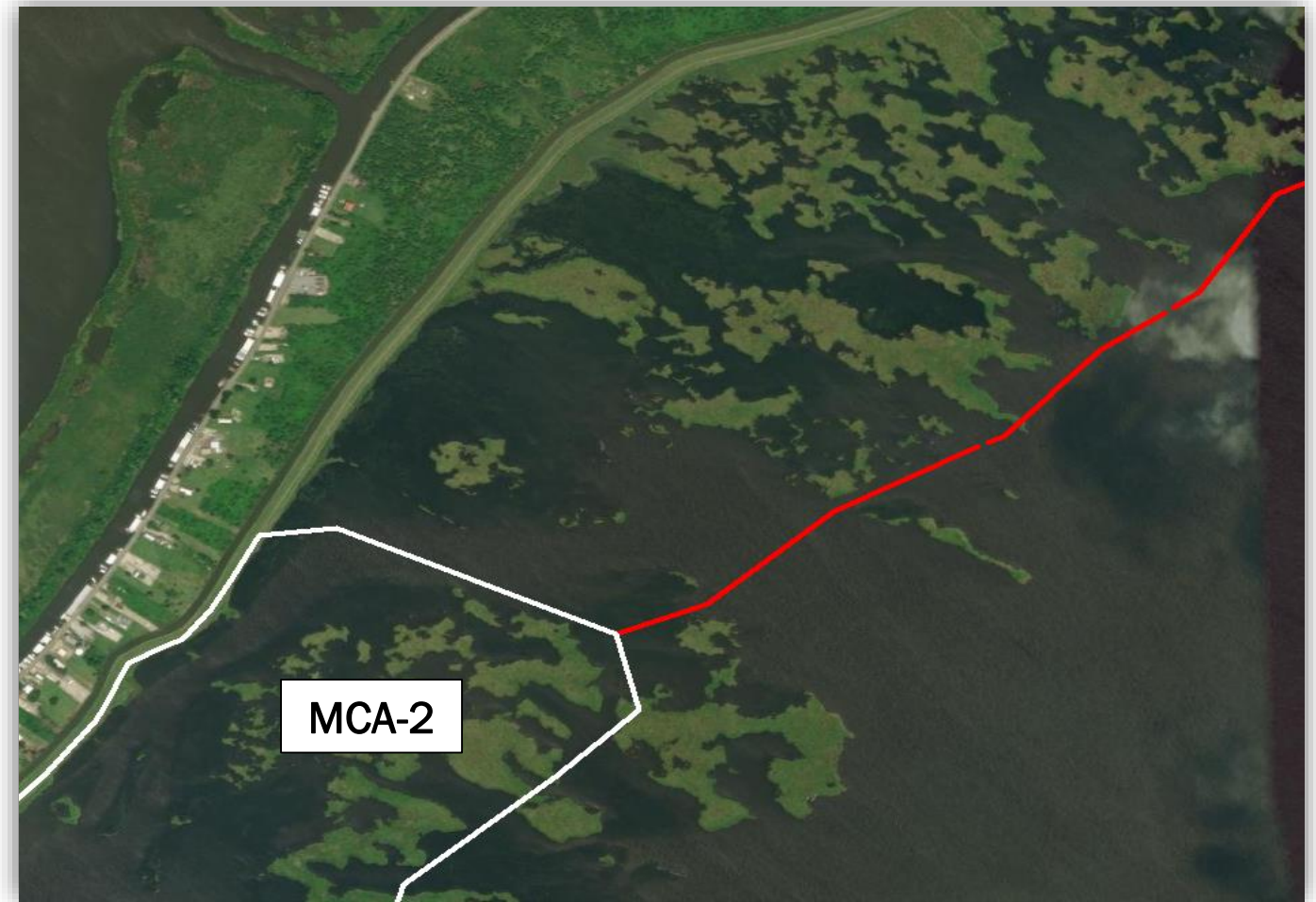
- Crown elevation: +5.0' NAVD88
- Crown width: 5'
- Side slopes: 4H:1V
- Total ECD length: 16,000 LF
- Interior borrow
- Existing levee
- No-excavation areas
- Up to 20% of total LF of dikes to be degraded to CMFE after Acceptance of MCA's



# Project Features

## Sediment Retention Terrace

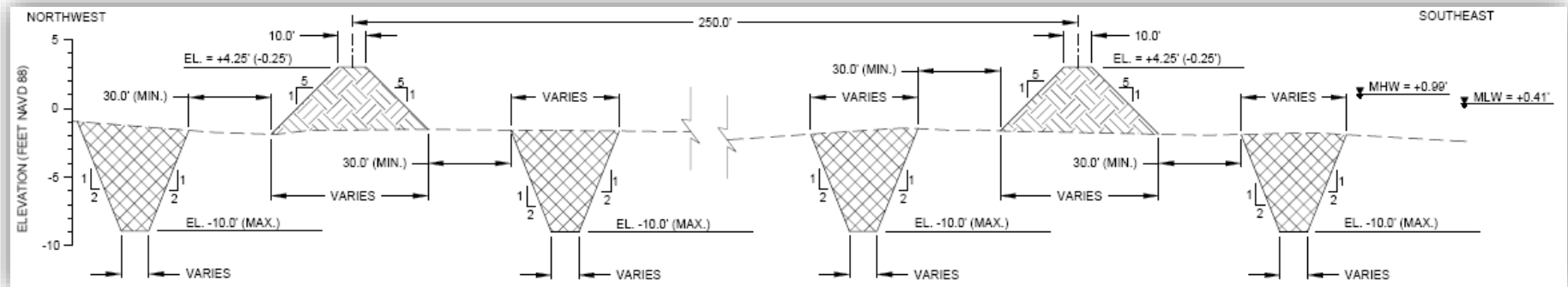
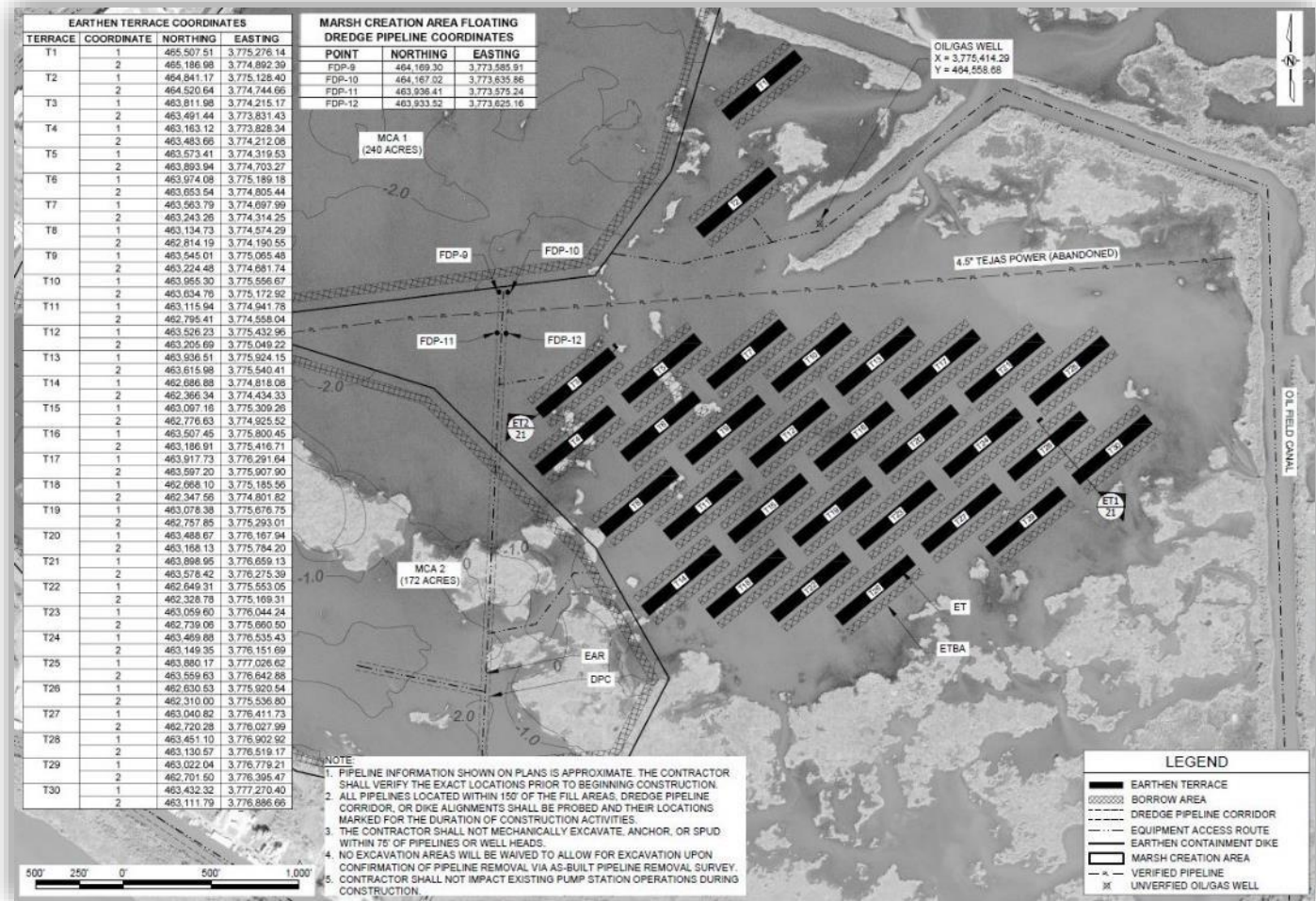
- Crown elevation: +4.25' NAVD88 (-0.25')
- Crown width: 10'
- Side slopes: 5H:1V
- Total length: 4,360 LF



# Project Features

## Terrace Field

- 30 terraces
- Crown elevation: +4.25' NAVD88 (-0.25')
- Crown width: 10'
- Side slopes: 5H:1V
- Terrace length: 500 LF each
- Total length: 15,000 LF
- Spacing: 250' CL to CL



# Summary of Estimated Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization/Demobilization	1	LS
2	Construction Surveys	1	LS
3	Grade Stakes	28	EA
4	Settlement Plates	8	EA
5	Earthen Containment Dike	16,000	LF
6	Tidal Levee Containment Cap	1	LS
7	Earthen Terraces	15,000	LF
8	Sediment Retention Terrace	4,360	LF
9	Hydraulic Dredging (MCA-1)	1,600,000	CY
10	Hydraulic Dredging (MCA-2)	1,000,000	CY

# Schedule

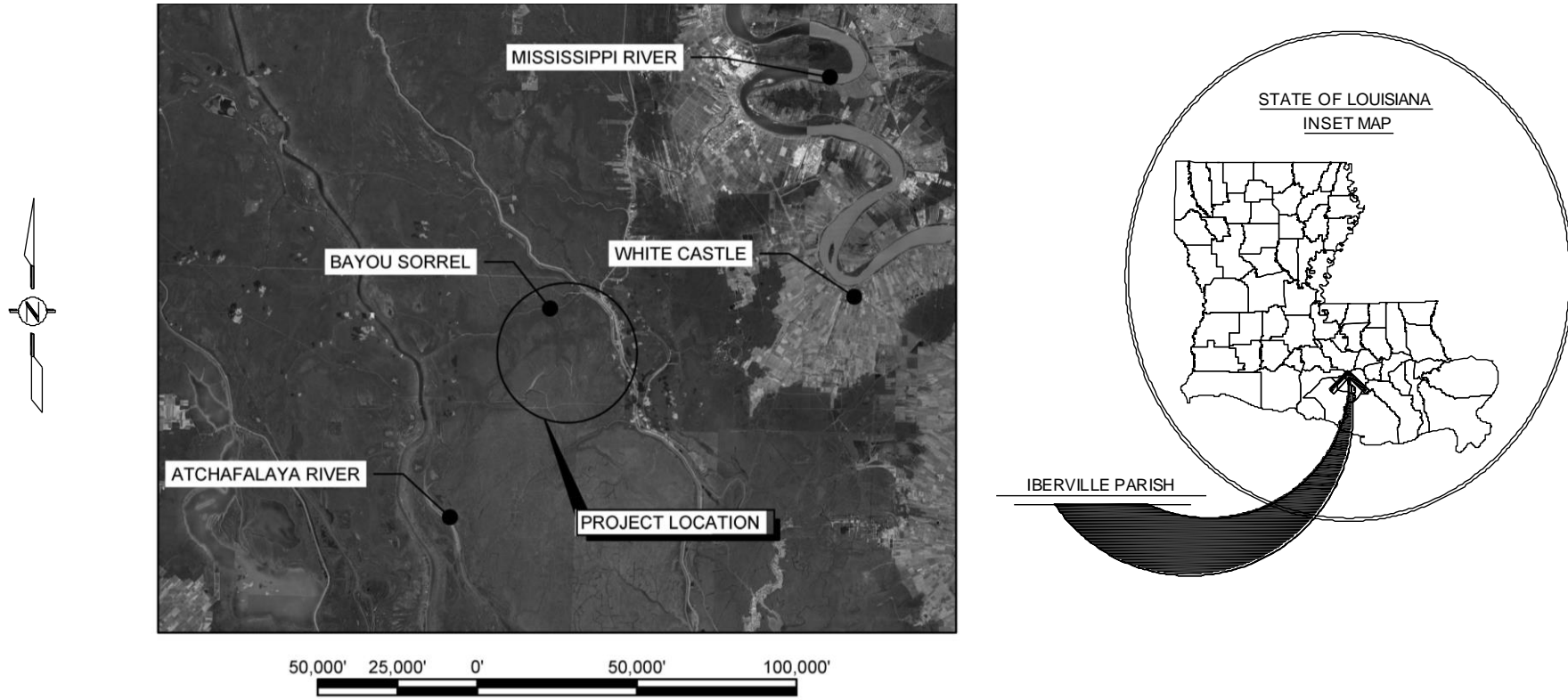
- Phase 2 Approval: Q1 2023
- Construction Permit: Received Q3 2023
- Anticipated Bid Advertisement: Q3-Q4 2024
- Construction Duration: 550 days

# East Grand Lake Hydrologic Restoration Project (AT-0022)

IBERVILLE PARISH, LOUISIANA

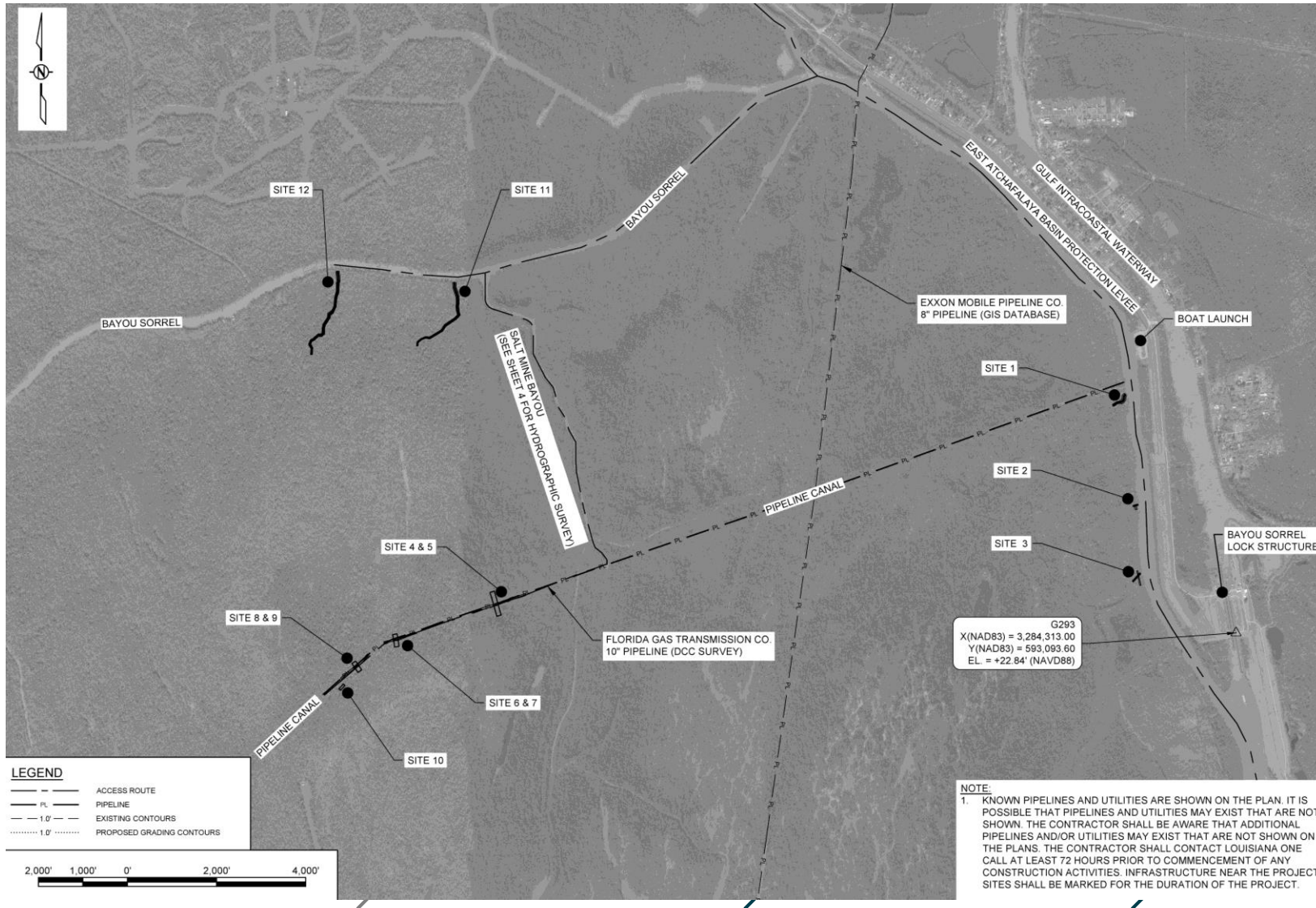


# General Project Information and Vicinity



INFO	DESCRIPTION
LOCATION	Atchafalaya Basin, Iberville Parish
FUNDING	CPRA Capital Project State Surplus Funds
PROJECT TYPE	Hydrologic Restoration Project

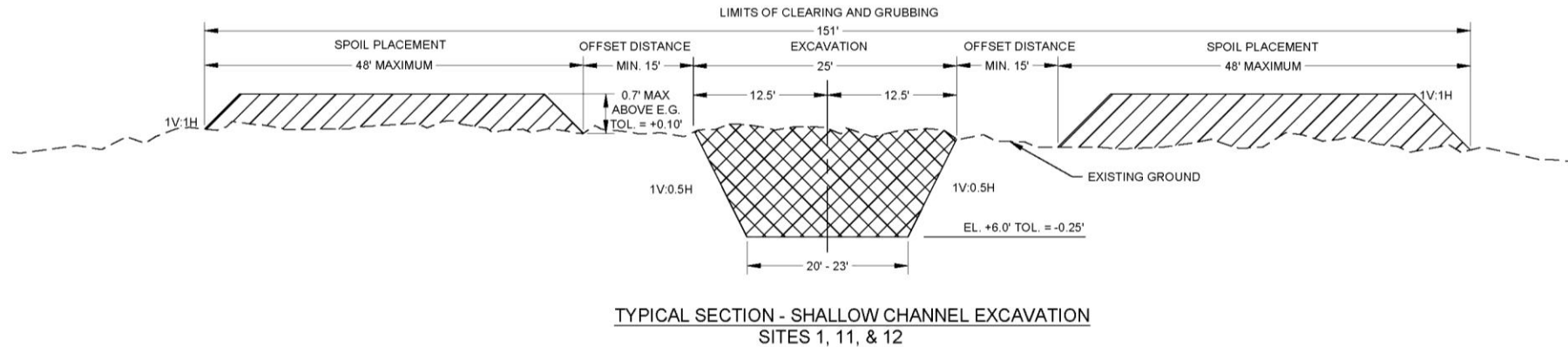
# Project Layout



- Excavation of approximately 20,150 CY material from 12 sites to improve hydrology and water movement to southern basin.
- Recommended access to the project sites is through EABPL Canal, Bayou Sorrel, Salt Mine Bayou, and the pipeline canal.

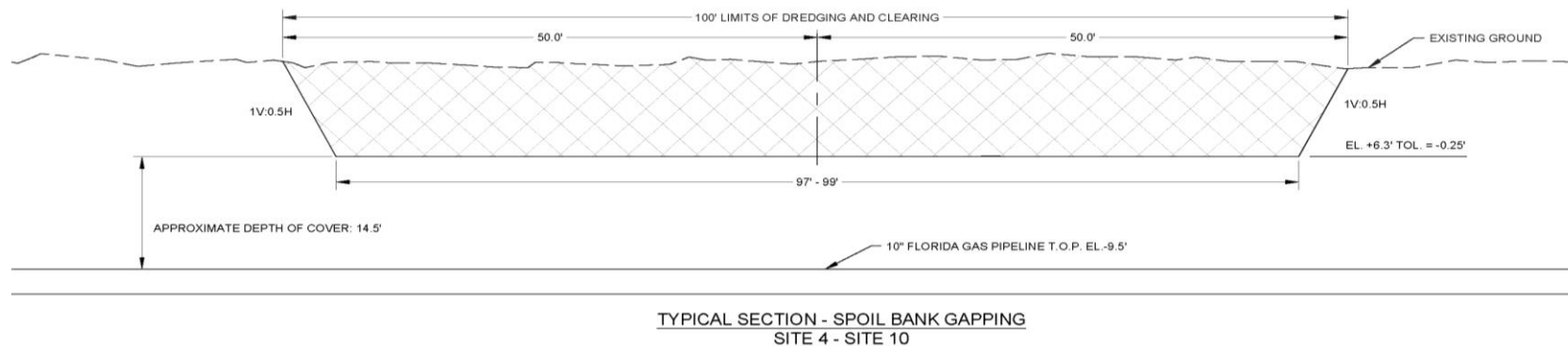
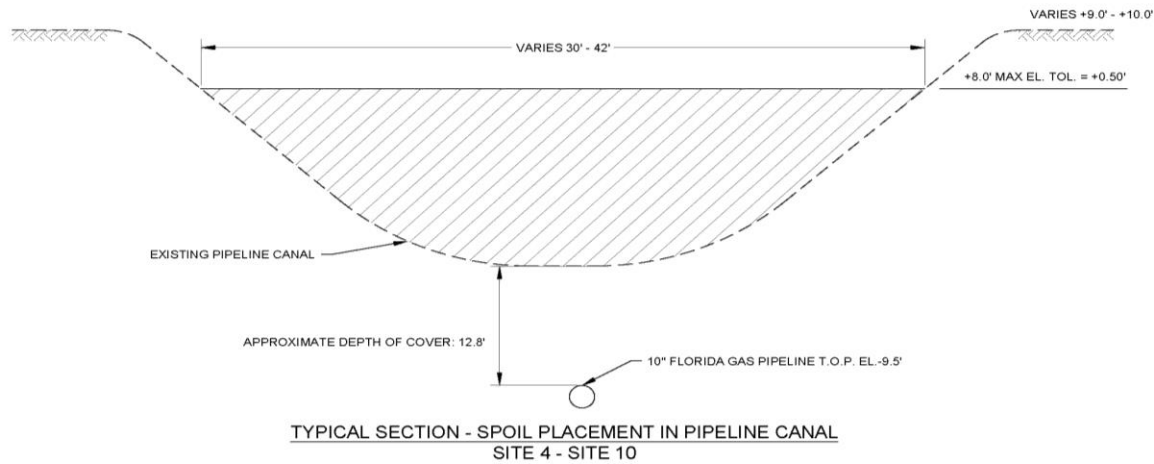


# Typical Sections-Shallow Channel Excavation



- Typical section for Site 1, Site 11, & Site 12
- Channel excavation width is 25-ft. and 20-ft.
- Side slopes are 1H:1V.
- Material is placed adjacent to excavation with 15-ft. buffer.
- Maximum placement depth is 8 inches for nourishment.

# Typical Sections-Spoil Bank Gapping Pipeline Canal

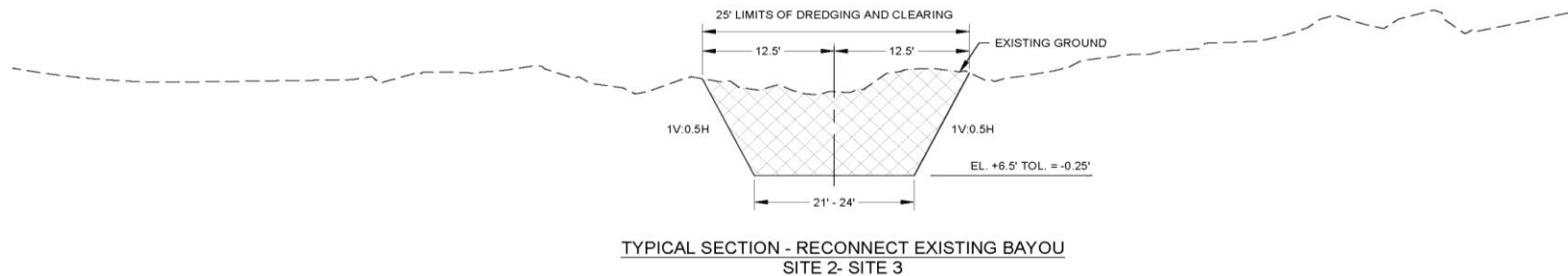
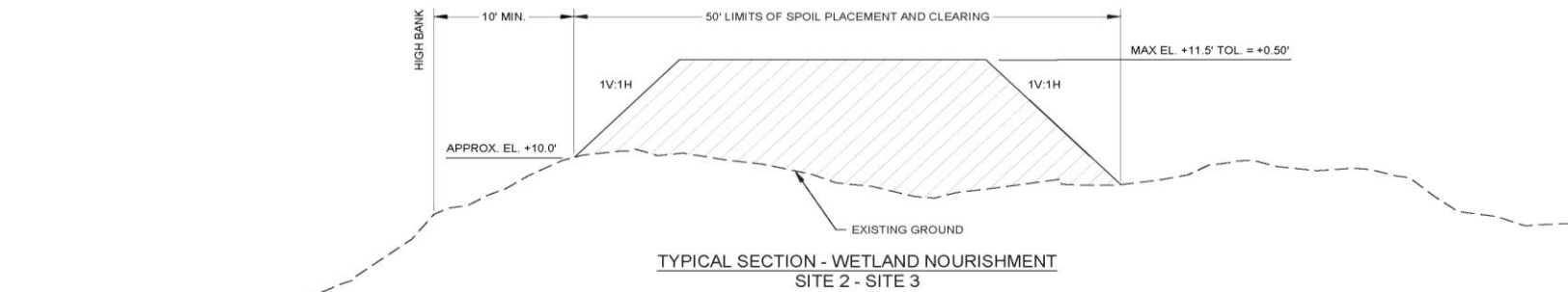


LEGEND	
	EXCAVATION AREA
	SPOIL PLACEMENT AREA
	EXCAVATION BOTTOM CENTERLINE

NOTE: THE TOP OF PIPE ELEVATION SHOWN FOR THE FLORIDA GAS PIPELINE IS BASED ON THE NEAREST DATA POINT FOR THE PIPELINE SHOWN ON SHEET 5. THE CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS AT ALL ACCESS ROUTE CROSSINGS AND ALL EXCAVATION AREAS PRIOR TO CONSTRUCTION.

- Typical section applies to Site 4 through Site 10
- Channel excavation width varies (100-ft. & 50-ft.)
- Side slopes are 1H:1V.
- Material is placed on existing spoil bank or in pipeline canal.
- Placement depth varies based on existing terrain.

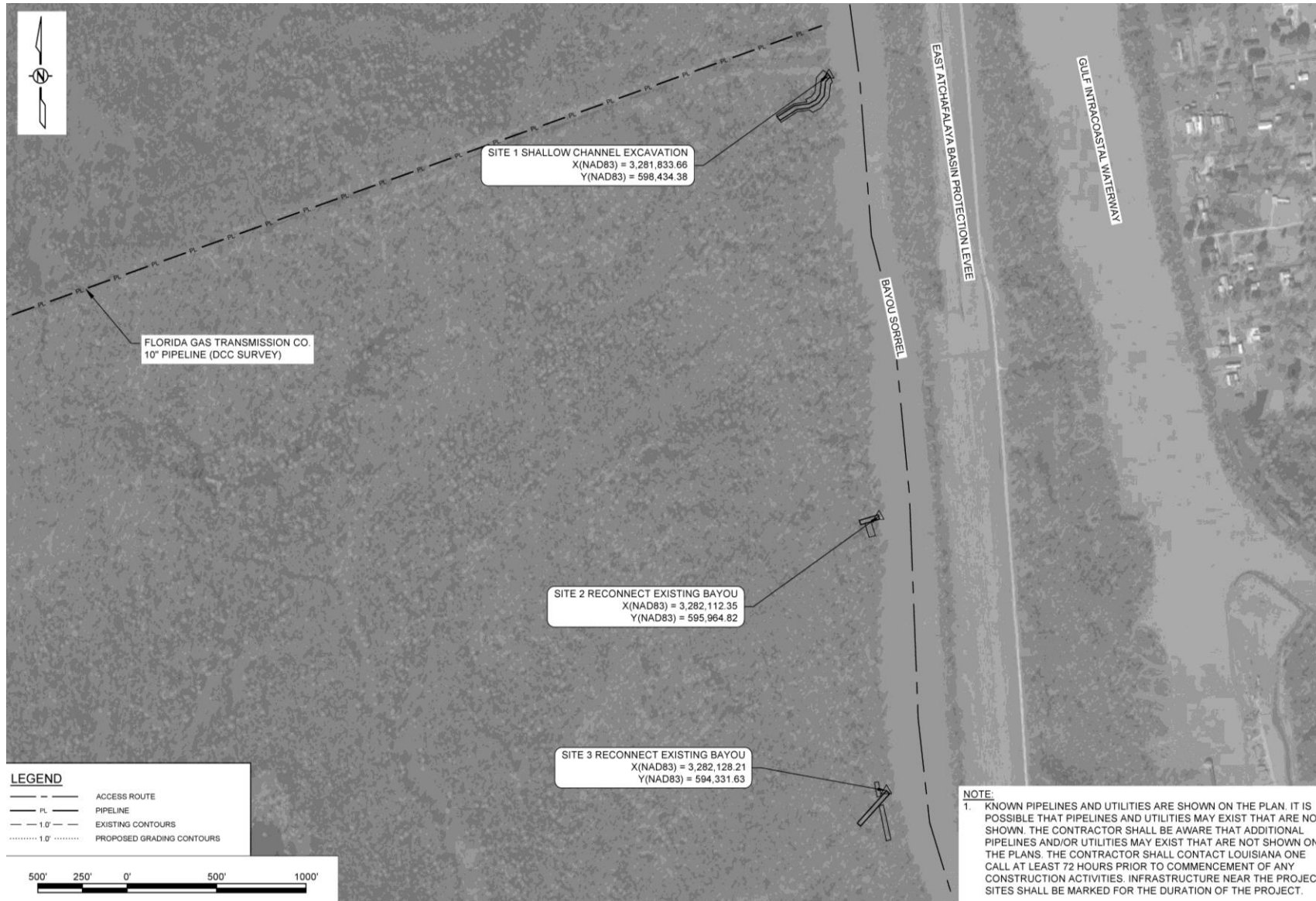
# Typical Sections-Spoil Bank Gapping EABPL Canal



LEGEND	
	EXCAVATION AREA
	SPOIL PLACEMENT AREA
	EXCAVATION BOTTOM CENTERLINE

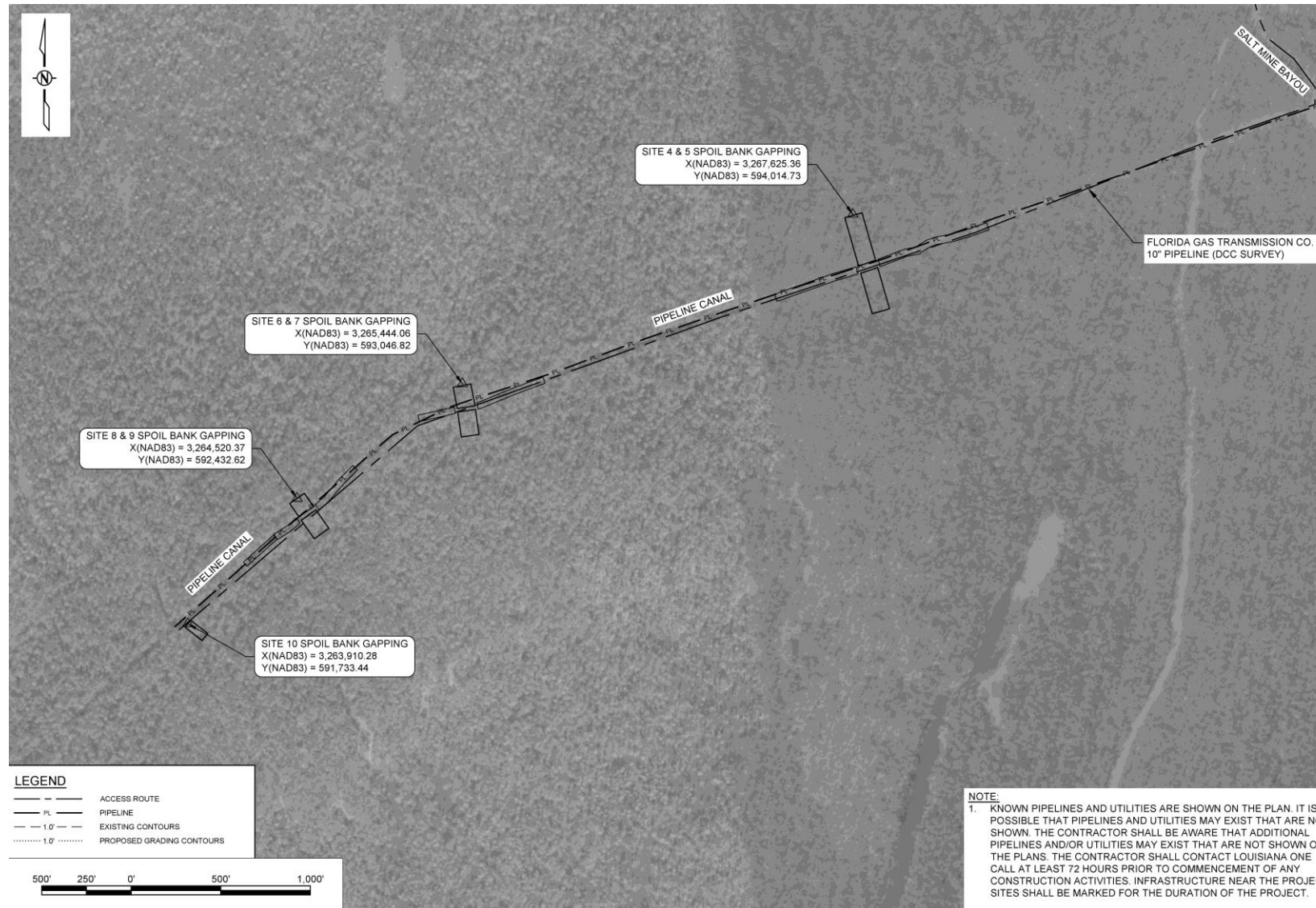
- Typical section applies to Site 2 and Site 3
- Channel excavation width 25-ft.
- Side slopes are 1H:1V.
- Material is placed on existing spoil bank or in pipeline canal.
- Placement depth varies based on existing terrain.

# Plan View–Sites 1, 2, & 3 EABPL Canal



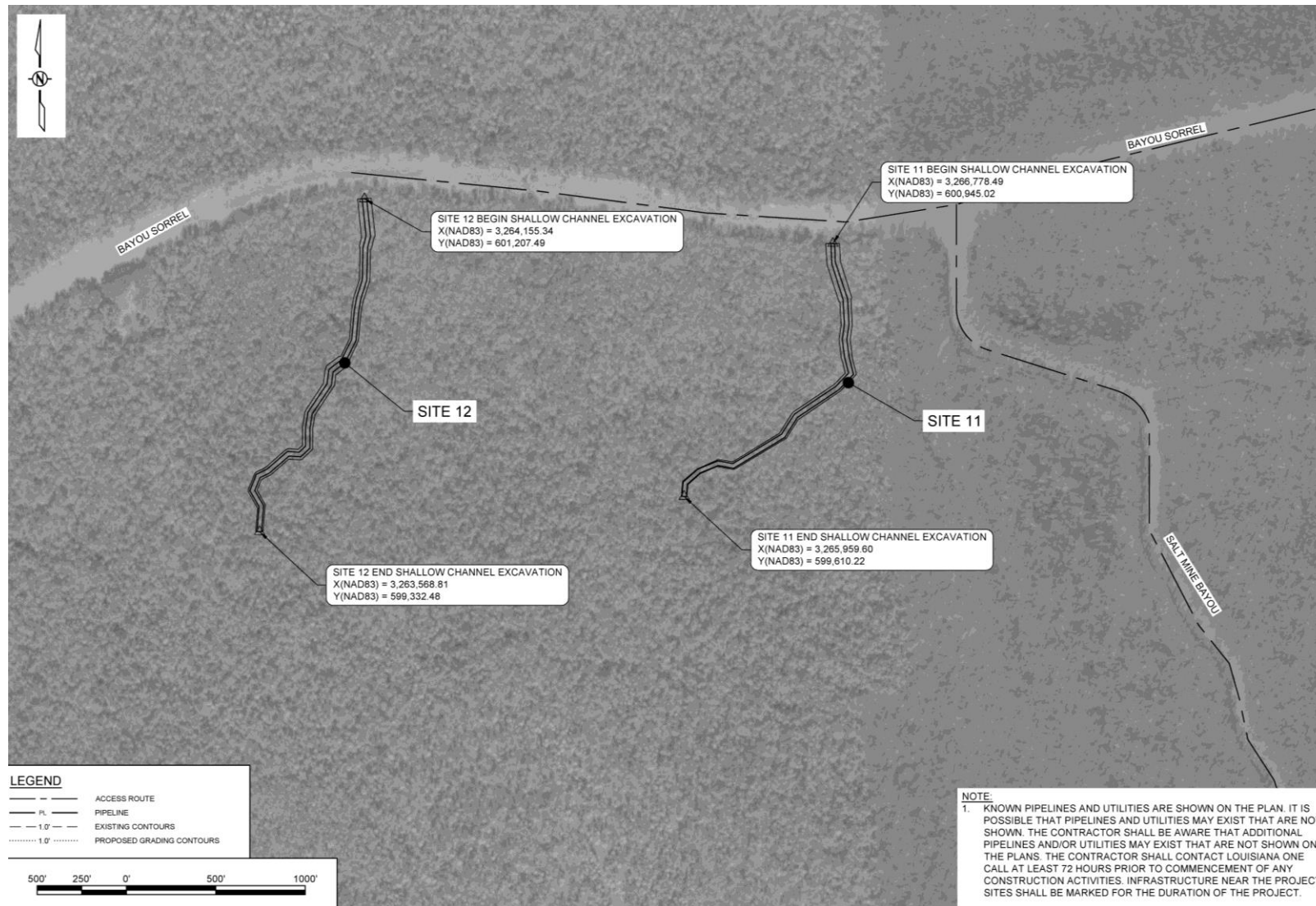
- Access through EABPL Borrow Canal.
- Site 1 – 410 LF channel 25-ft. wide. Adjacent material placement.
- Site 2 - 110 LF spoil bank 25-ft. wide. Material placed on spoil bank
- Site 3 - 250 LF spoil bank 25-ft. wide. Material placed on spoil bank.

# Plan View – Sites 4 -10 Pipeline Canal



- Access through Bayou Sorrel and Pipeline Canal.
- Active pipeline in area. Magnetometer survey and probing required.
- Site 4&5 – 520 LF  
Site 6&7 230 LF  
Site 8&9 240 LF  
All 100-ft wide.
- Site 10 120 LF  
50-ft wide.
- Material placed in pipeline canal.

# Plan View – Sites 11 & 12 Bayou Sorrel



- Access through Bayou Sorrel
- No evidence of existing pipeline found in the project sites.
- Site 11 – 1900 LF channel 20-ft. wide. Adjacent material placement.
- Site 12 – 2170 LF channel 20-ft. wide. Adjacent material placement.

# Project Quantities

Item No.	Work or Material	Quantity	Unit
<b>BASE BID</b>			
1	Mobilization or Demobilization (TS-100)	1	LUMP SUM
2	Surveys (TS-210)	1	LUMP SUM
3	Clear & Grub (TS-330)	1	LUMP SUM
4	Tree Removal and Disposal (TS-335)	1	LUMP SUM
5	Excavation and Placement (TS-336)	16,600	CUBIC YARD

# Project Schedule

February 2022 - Regulatory Permits Submitted

December 2023 – Regulatory Permits Received

\*March 2024 – Final Plans Completed

\*May 2024 – Construction Documents Completed

\*July 2024 - Advertise for Construction Bids (CPRA TO CONFIRM)

\*November 2024 - Issuance of NTP (CPRA TO CONFIRM)

\*180 days – Approximate Construction Duration

\*Estimated



# Questions?

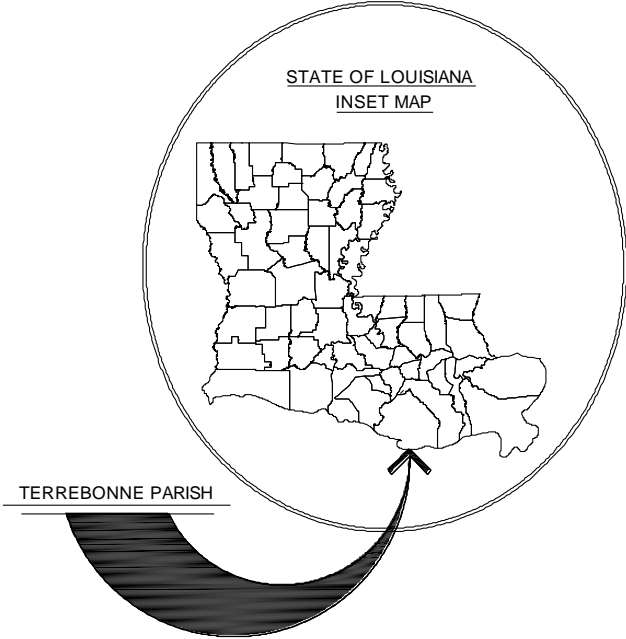
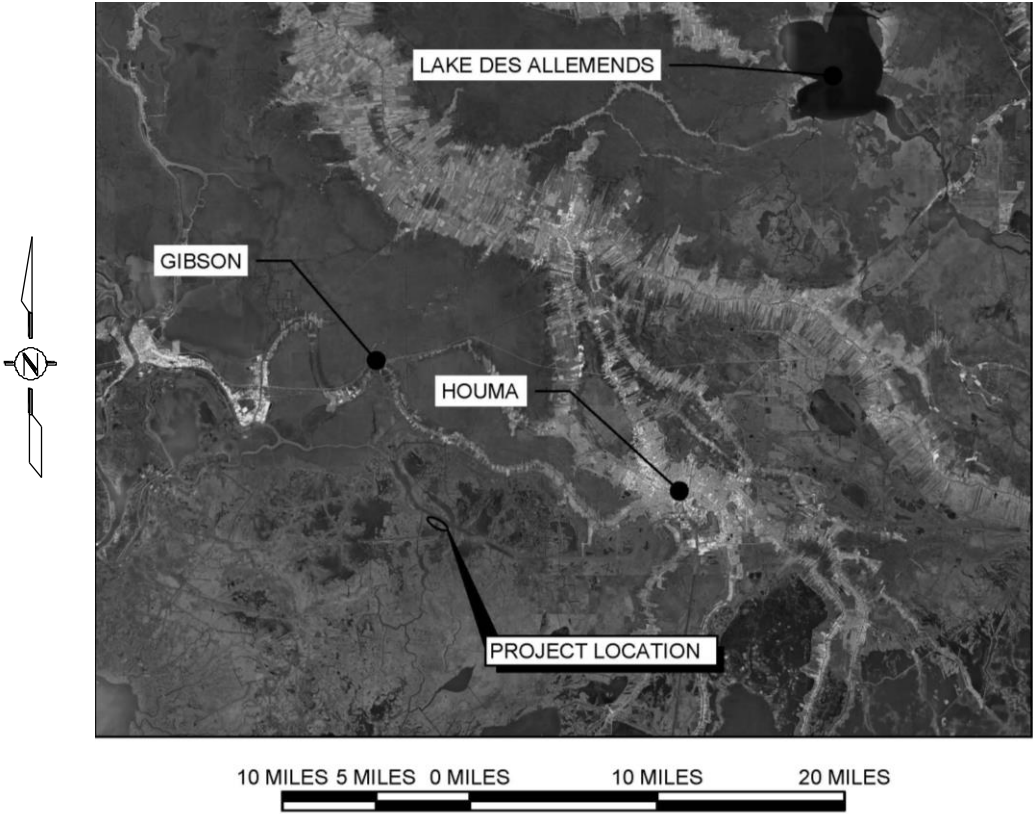


# GIWW Bank Restoration of Critical Areas-Segment 4 (TE-43) Maintenance Event

TERREBONNE PARISH, LOUISIANA

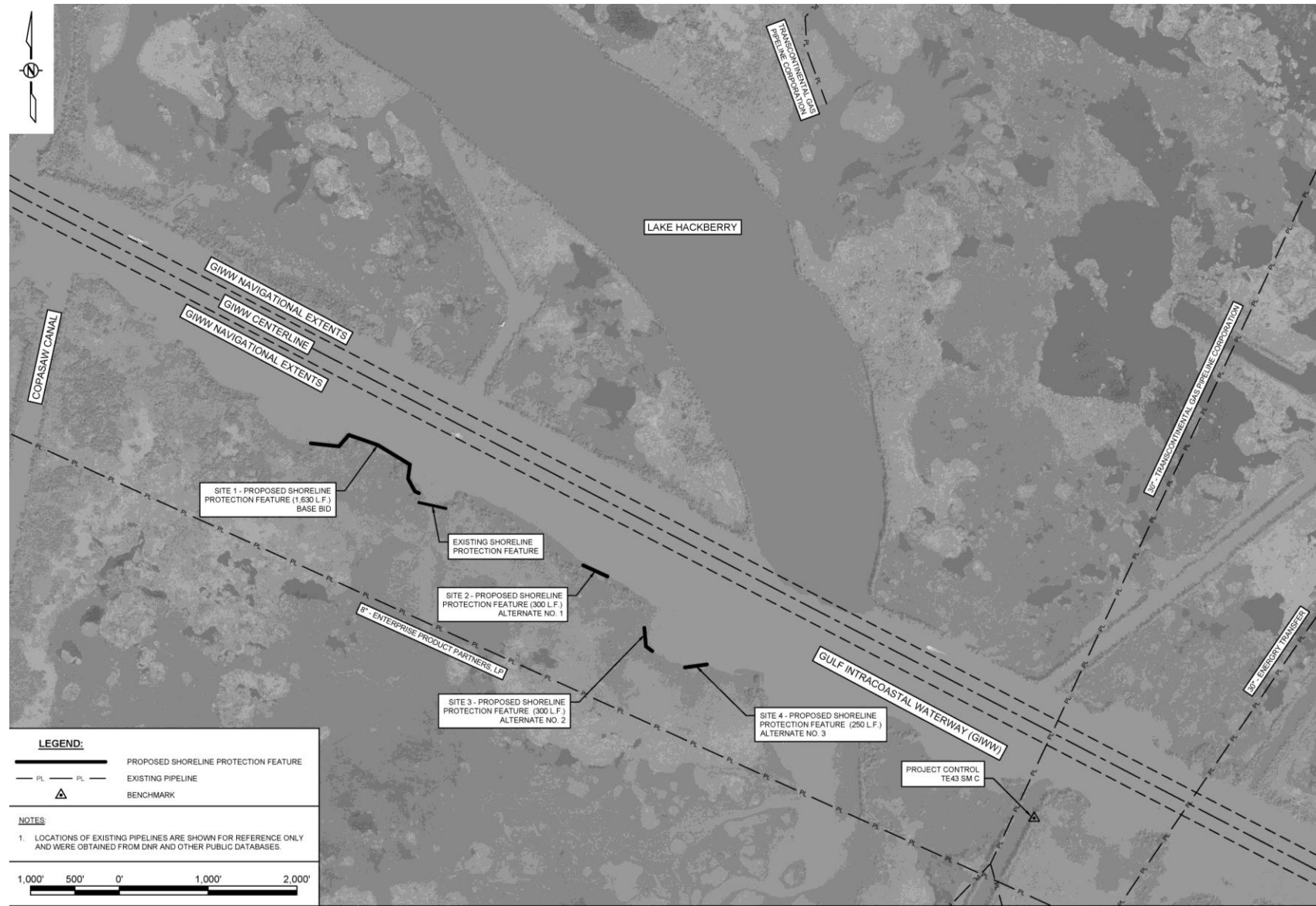


# General Project Information



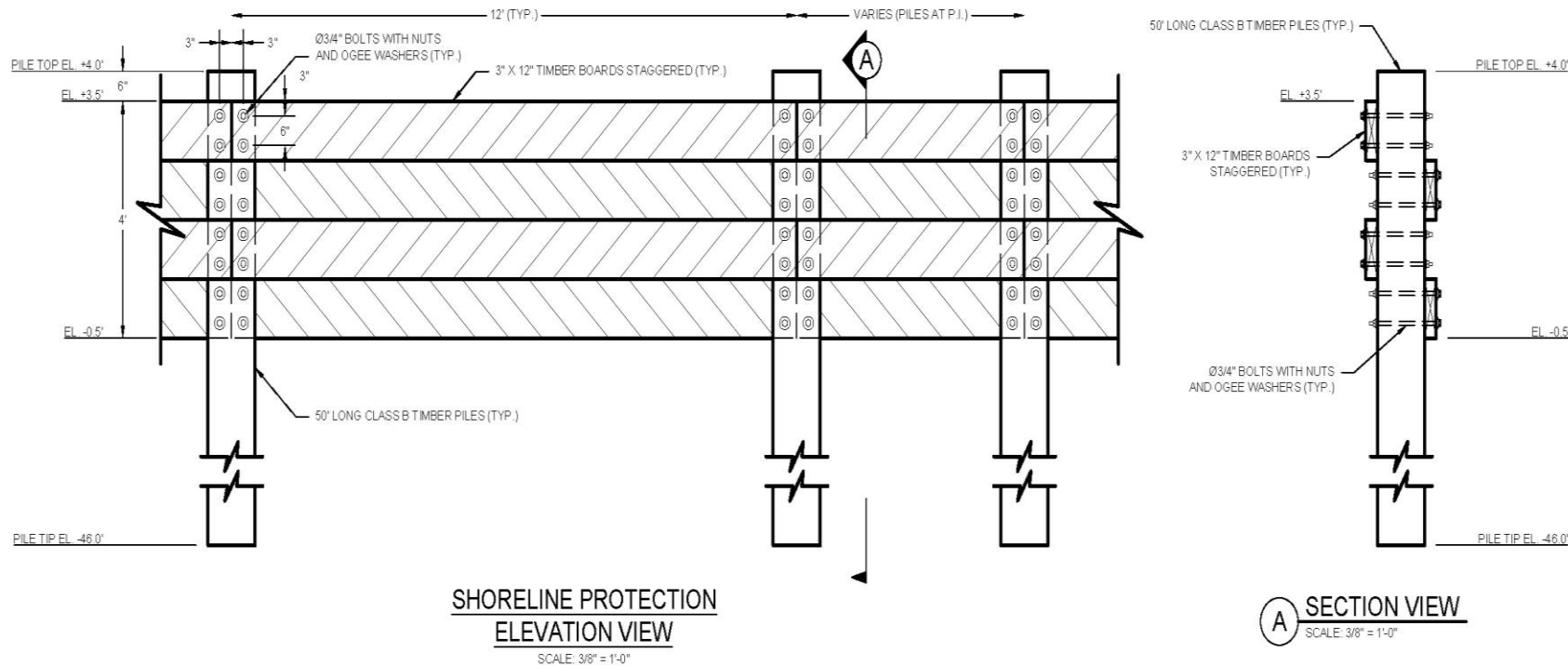
INFO	DESCRIPTION
LOCATION	Terrebonne Basin, Terrebonne Parish
FUNDING	CWPPRA O&M Project
PROJECT TYPE	Shoreline Protection Project

# Project Layout



- This project will construct approximately 2,480 linear feet of shoreline protection on the south bank of the GIWW.
- Access to the project site is from the east or west via the GIWW.
- Magnetometer survey required.

# Typical Sections-Shoreline Protection Units



SHORELINE PROTECTION  
ELEVATION VIEW

SCALE: 3/8" = 1'-0"

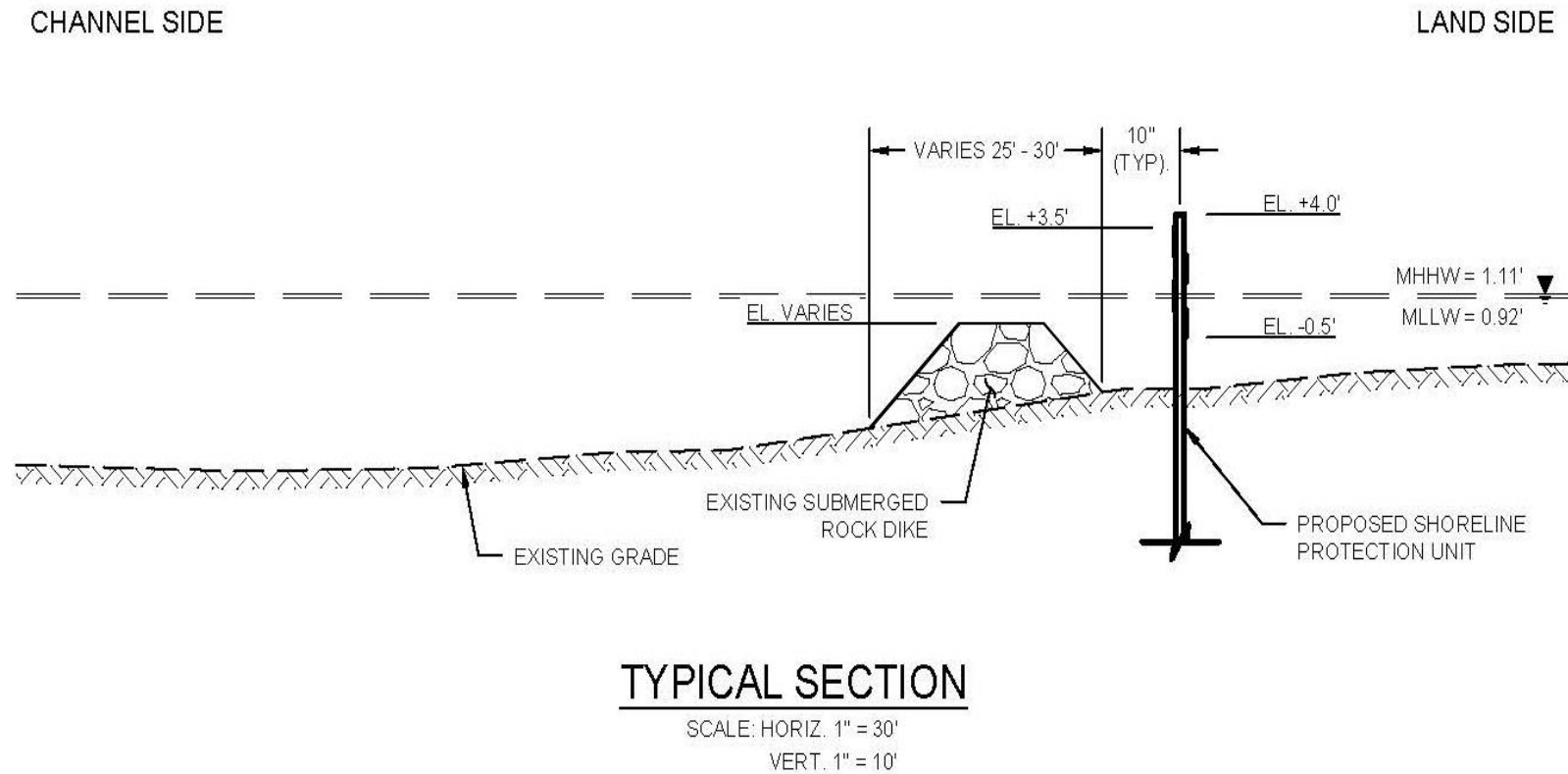
A SECTION VIEW  
SCALE: 3/8" = 1'-0"

## NOTES

1. BOLTS AND NUTS SHALL CONFORM TO ASTM A307 AND BE OF THE SIZE AND TYPE INDICATED ON THE PLANS. PROVIDE CAST-IRON OEGEE, MALLEABLE IRON WASHERS, OR PLATE OR CUT WASHERS WHERE INDICATED. PROVIDE BOLTS WITH WASHERS UNDER NUT AND HEAD.
2. INSTALLATION REQUIREMENTS APPLIED TO STEEL WIRE NAILS AND SPIKES, BOX NAILS, AND THREADED STEEL NAILS SHALL MEET REQUIREMENTS AS IN ASTM F1867. NAIL SPECIFICATIONS SHALL INCLUDE THE MINIMUM LENGTHS AND DIAMETER FOR THE NAILS AND SPIKES.
3. TIMBER CONNECTORS, EXCEPT THOSE MALLEABLE IRON, AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123/A123M OR ASTM A153/A153M AS APPLICABLE. MINIMUM COATING SHALL BE 2 OUNCES PER SQUARE FOOT.

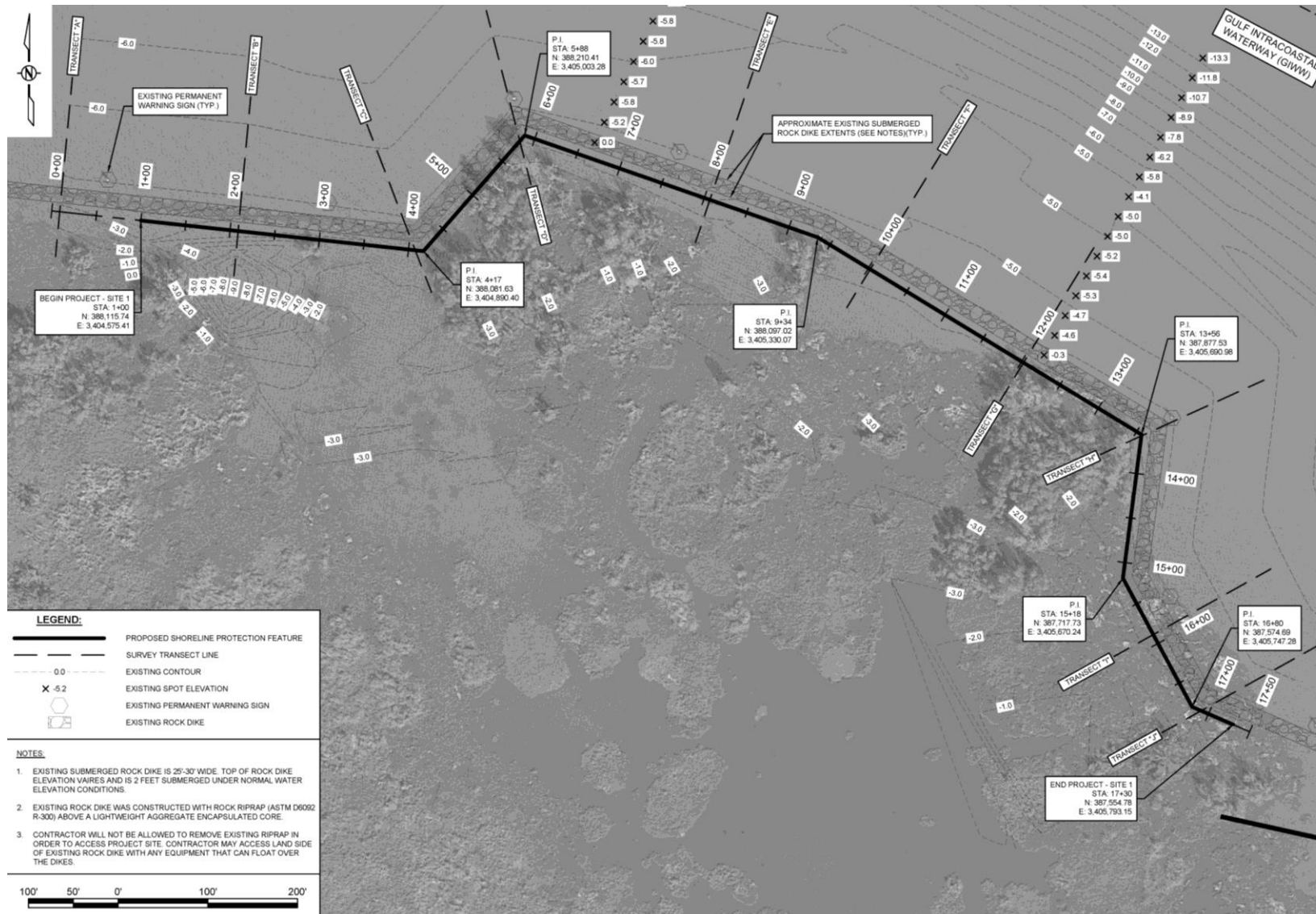
- Timber shoreline protection feature.
- 50-ft long Class B timber piles with 4 rows of staggered 3"x 12" timber horizontal "fencing".
- The top elevation, of horizontal timbers is +3.5' and the bottom elevation is -0.5'.
- Piles and timbers installed behind existing submerged rock dike.

# Typical Sections-Shoreline Protection Units



- Shoreline protection units located on land side of the existing submerged rock dike.
- No heavy equipment access across rock dikes.
- Small vessel access is allowed across rock dikes.

# Plan View-Site 1



- Approximately 1,630 linear feet of shoreline protection.
- Alignment roughly follows existing rock dike.
- Location chosen based on broken and eroded marsh.
- Average contour on channel site is -5.0'.
- Average contour along alignment is -2.5'.

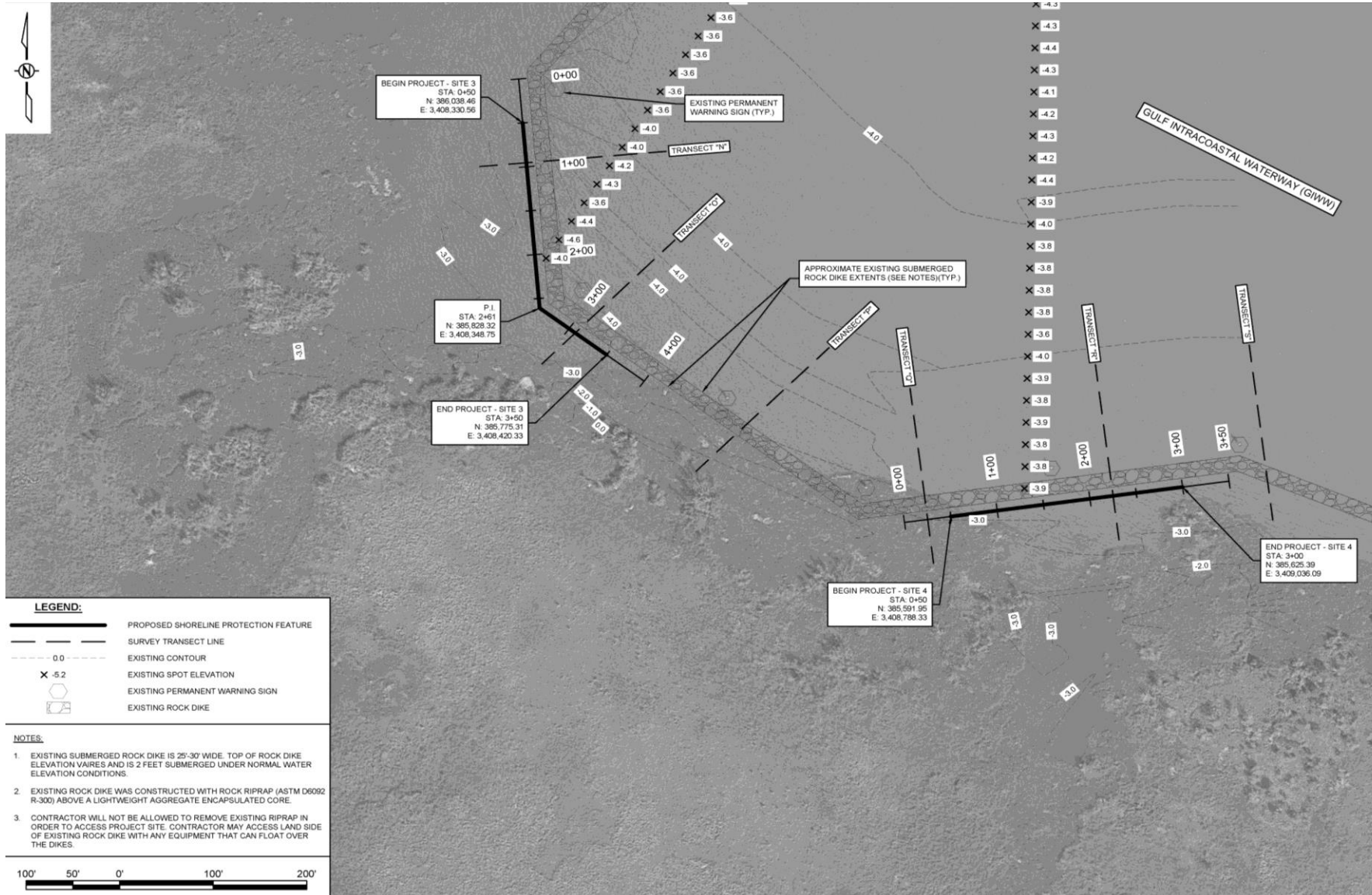
# Plan View – Site 2



- Approximately 300 linear feet of shoreline protection.
- Alignment roughly follows existing rock dike.
- Location chosen based on broken and eroded marsh.
- Average contour on channel site is -5.0'.
- Average contour along alignment is -3.0'.



# Plan View – Site 3 and Site 4



- Approximately 300 LF and 250LF of shoreline protection.
- Alignment roughly follows existing rock dike.
- Location chosen based on broken and eroded marsh.
- Average contour on channel site is -4.5'.
- Average contour along alignment is -3.0'.

# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization and Demobilization	1	LUMP SUM
2	Surveys	1	LUMP SUM
3	Pilings	216	EACH
4	Timberwork	29.76	MFBM

# Project Schedule

January 2024 - Construction Funding Authorized

January 2024 - Regulatory Permits Submitted

March 2024 – Construction Documents Completed

\*July 2024 – Receive Regulatory Permits

\*August 2024 - Advertise for Construction Bids

\*November 2024 - Issuance of NTP

\*60 days – Approximate Construction Duration

\*Estimated

# Questions?



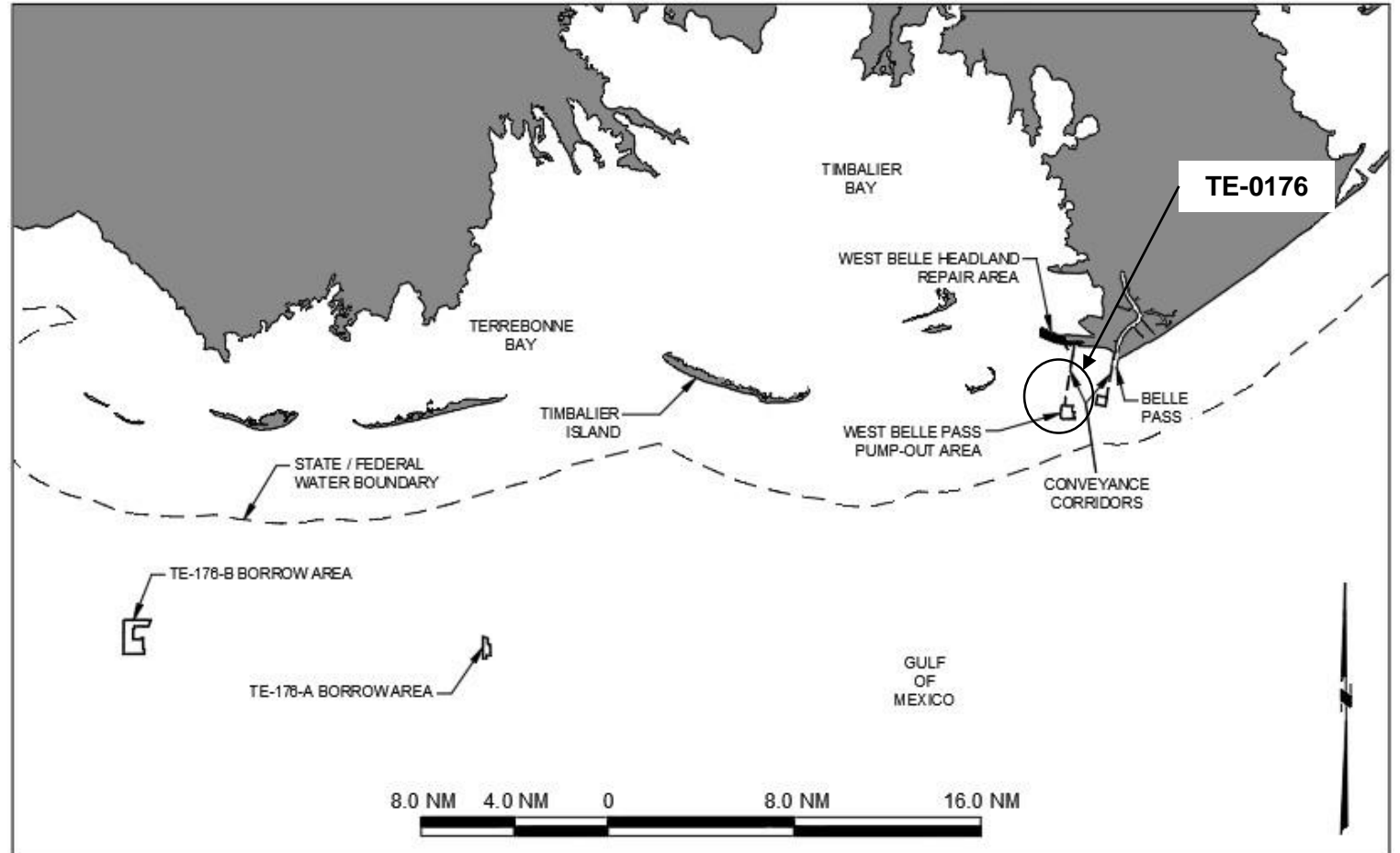
# West Belle Headland Repair

TE-0176



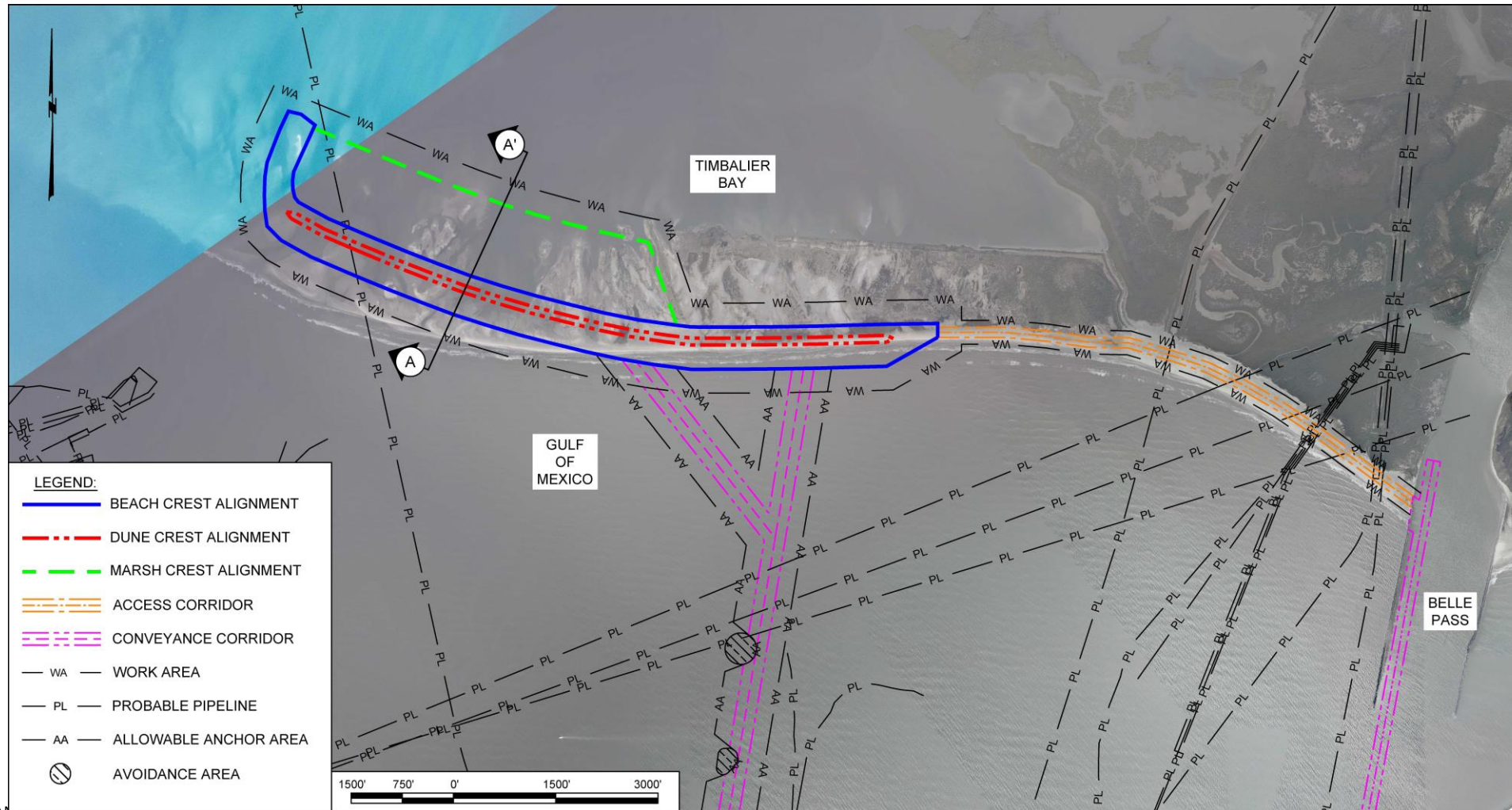
# Project Vicinity and General Notes

- Located in Lafourche Parish
- Reconstruction of the TE-0143 project impacted by Hurricane Zeta.
- Borrow Areas adjacent to the TE-0143 Ship Shoal and the TE-0100 Ship Shoal Block 88 borrow areas.
- Two Pump-Out Areas and Conveyance Corridors
- FEMA Public Assistance Funding

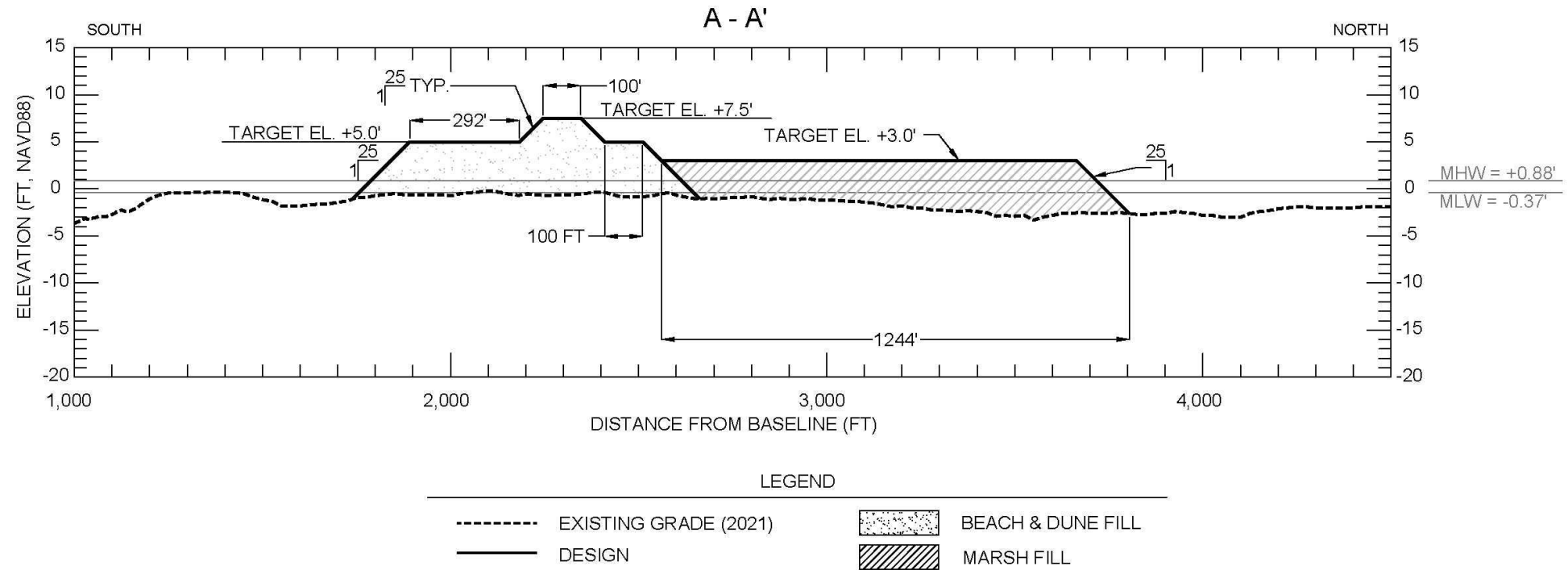


# Project Repair Features

- Constructed with Sand Only.
- No Required Containment.
- Equipment Access via Belle Pass or Gulf Shoreline.
- Volume: Est. 2.6 MCY.



# Project Fill Area Typical Section

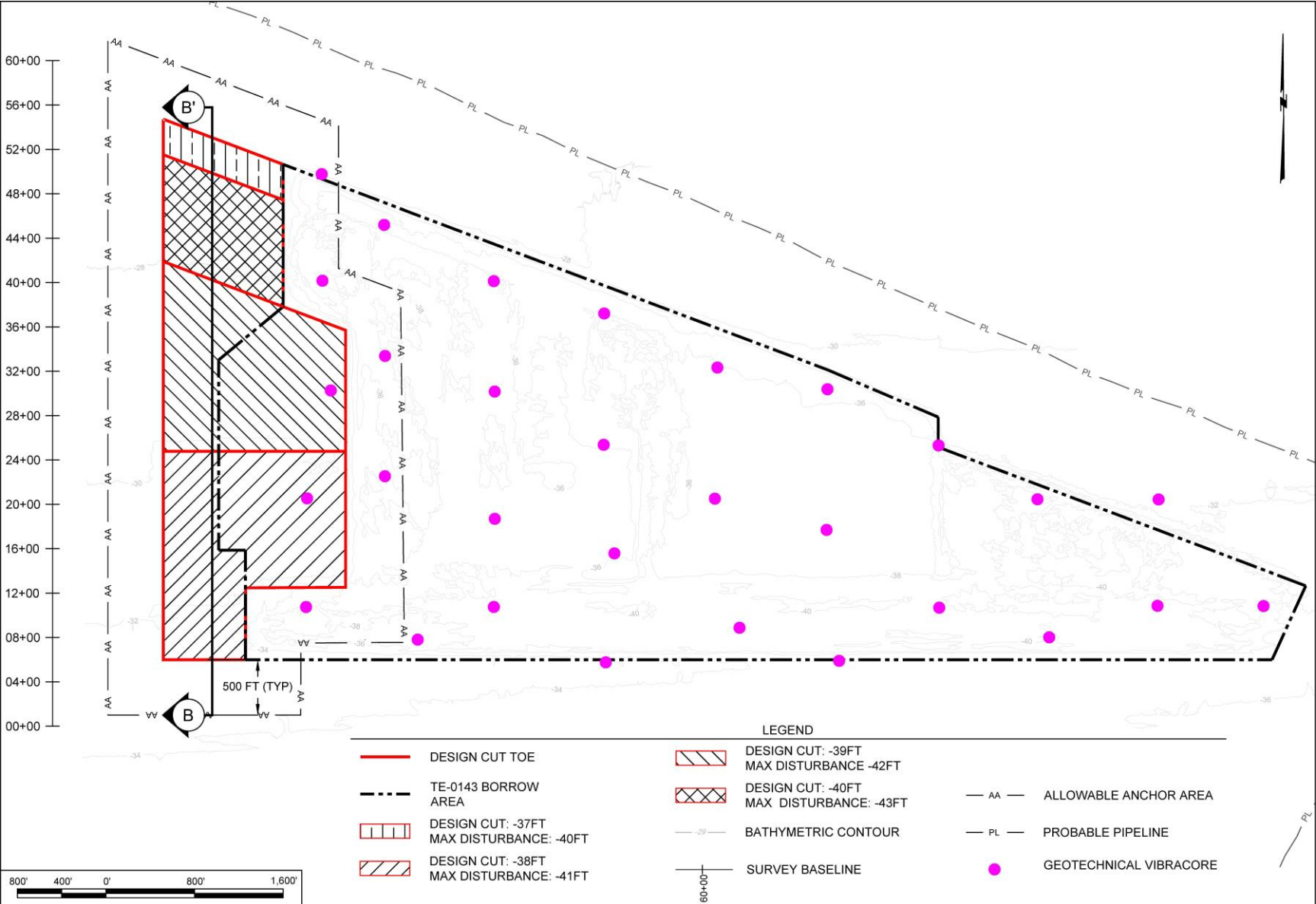


- Beach Target Elevation: +5.0 ft NAVD88
- Dune Target Elevation: +7.5 ft NAVD88
- Marsh Target Elevation: +3.0 ft NAVD88
- All Slopes 1V:25H
- Construction Tolerance: +1.0ft

Note: Headland Update Surveys to be Conducted Spring 2024

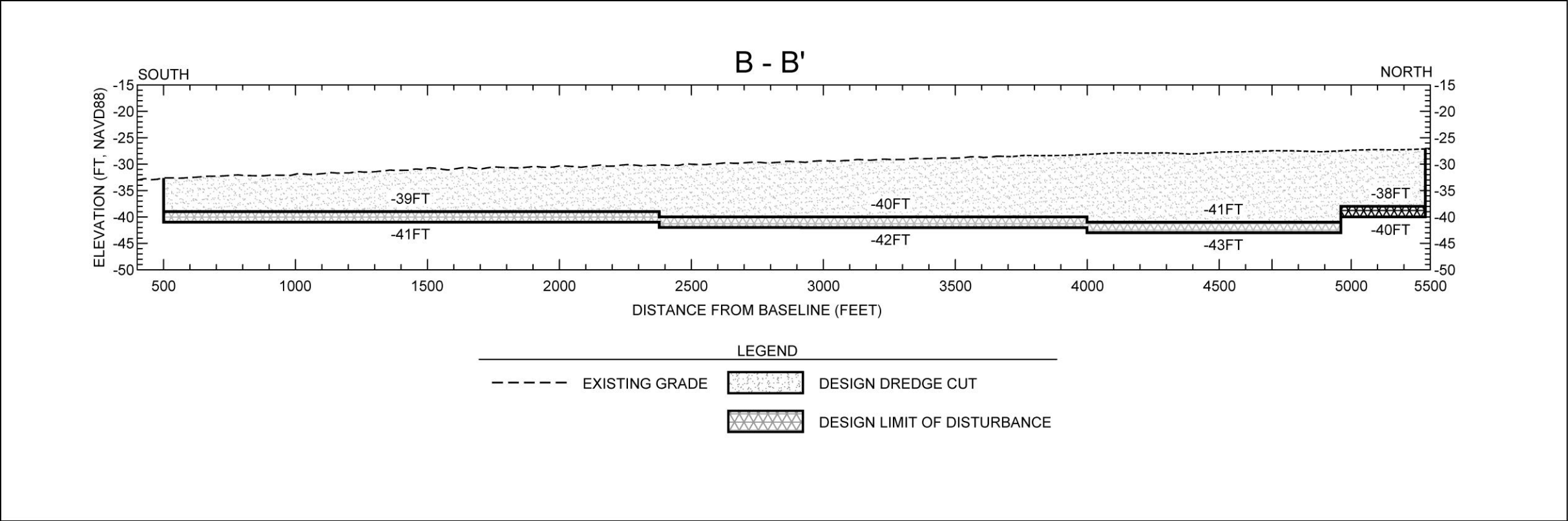


# Project Borrow Area TE-176-A Plan View

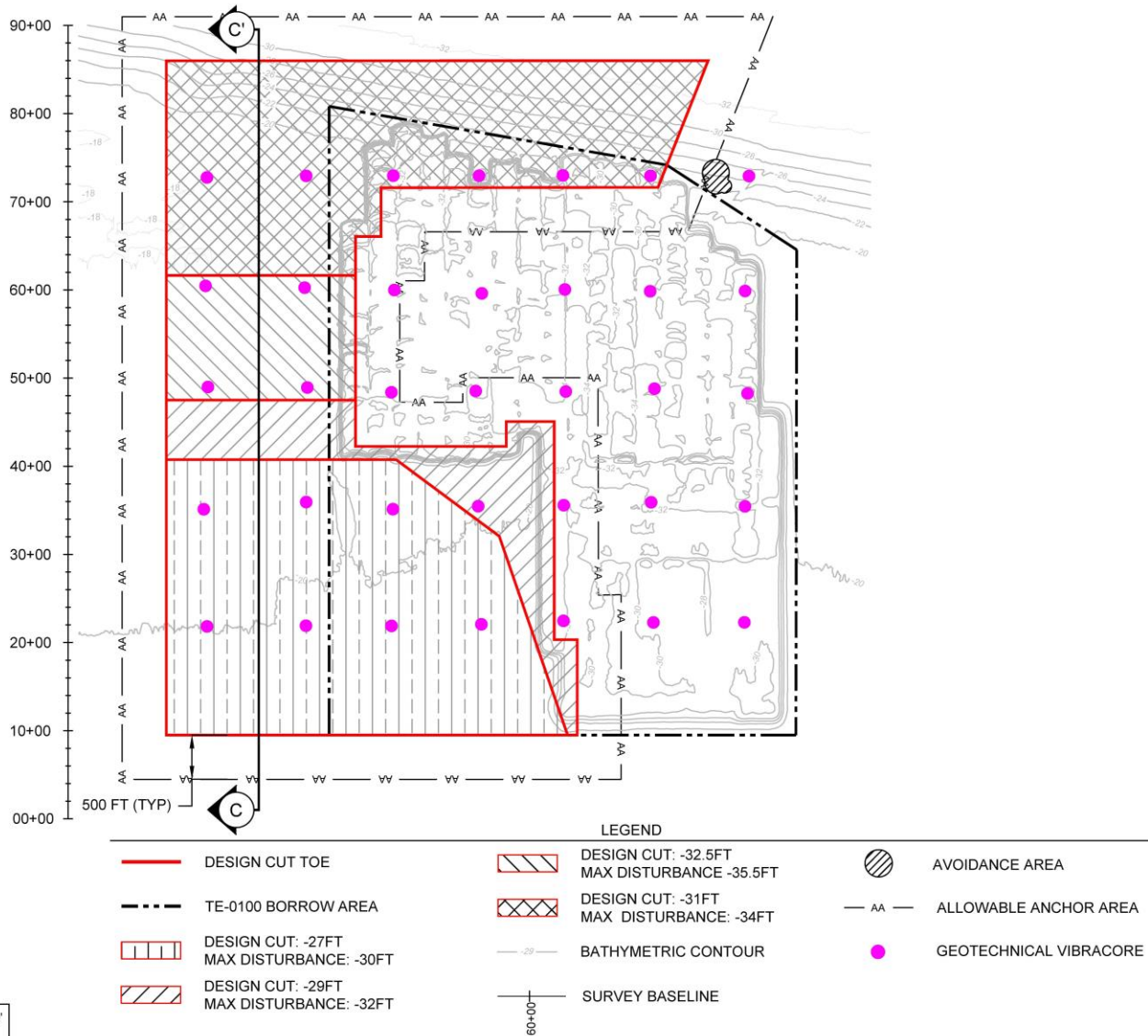


- Extension of the TE-143 Ship Shoal Borrow Area.
- Volume Available Est.: 2.07 MCY (Hopper Dredge).
- Volume Available: Est.: 1.37 MCY (Cutterhead Dredge).
- Distance to West Belle Pump-Out Area: 22.9 NM.

# Project Borrow Area TE-176-A Typical Section

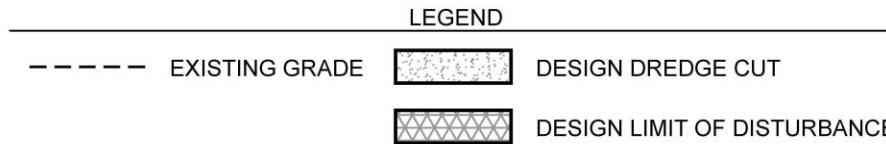
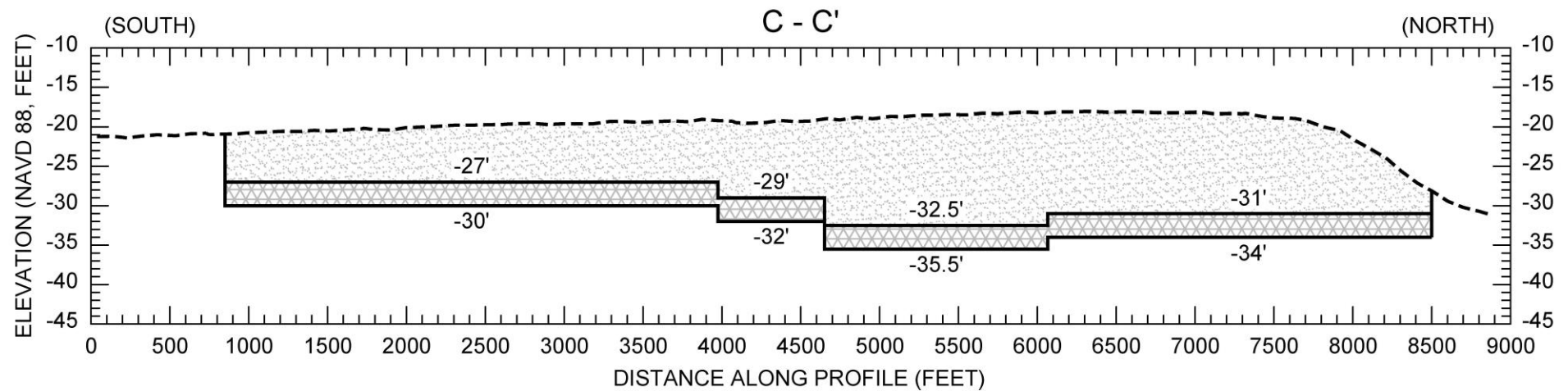


# Project Borrow Area TE-176-B Plan View

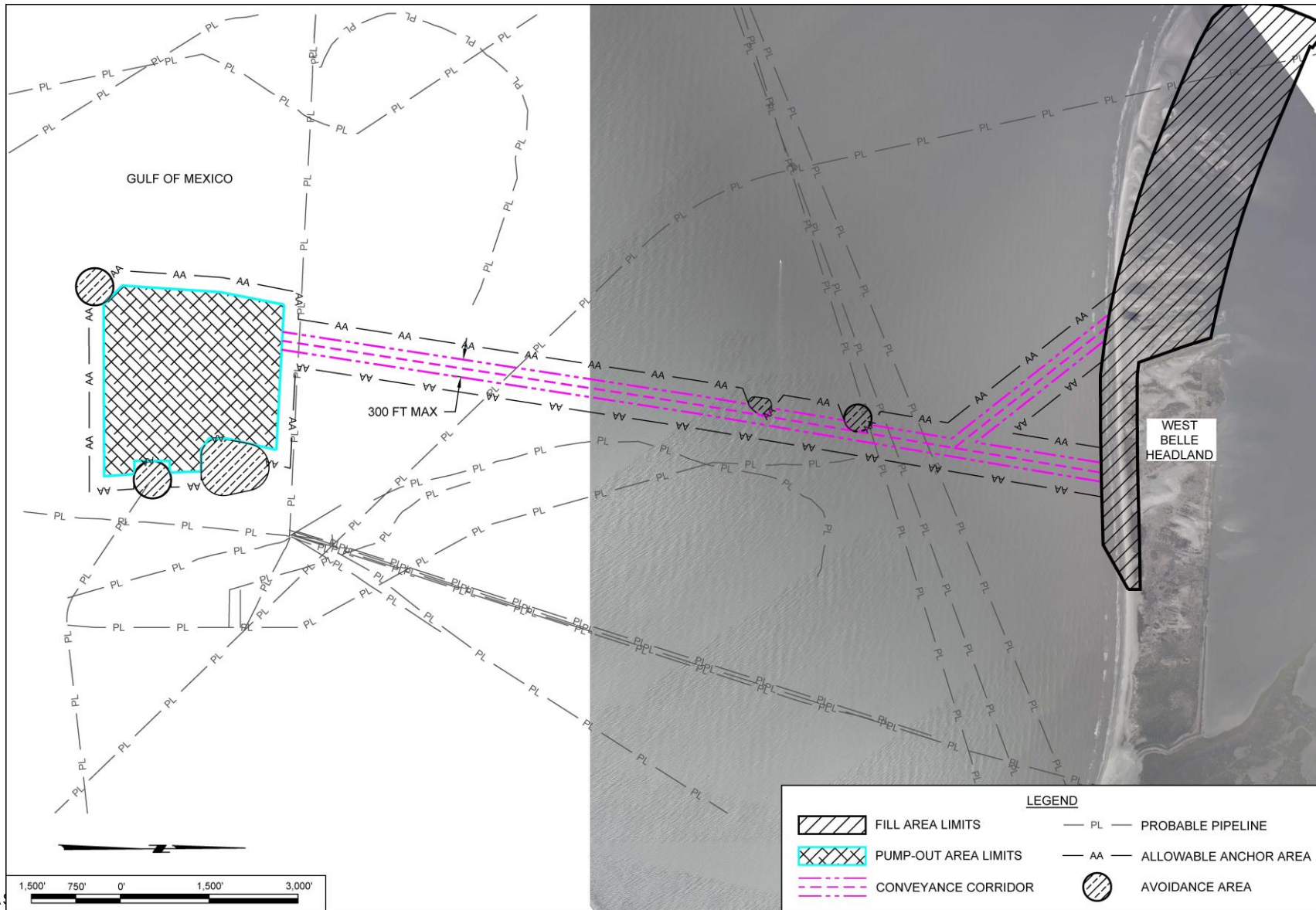


- Extension of the TE-100 Ship Shoal Block 88 Borrow Area.
- Volume Available Est.: 8.14 MCY (Hopper Dredge).
- Volume Available: Est.: 6.19 MCY (Cutterhead Dredge)
- Distance to West Belle Pump-Out Area: 35.2 NM.

# Project Borrow Area TE-176-B Typical Section

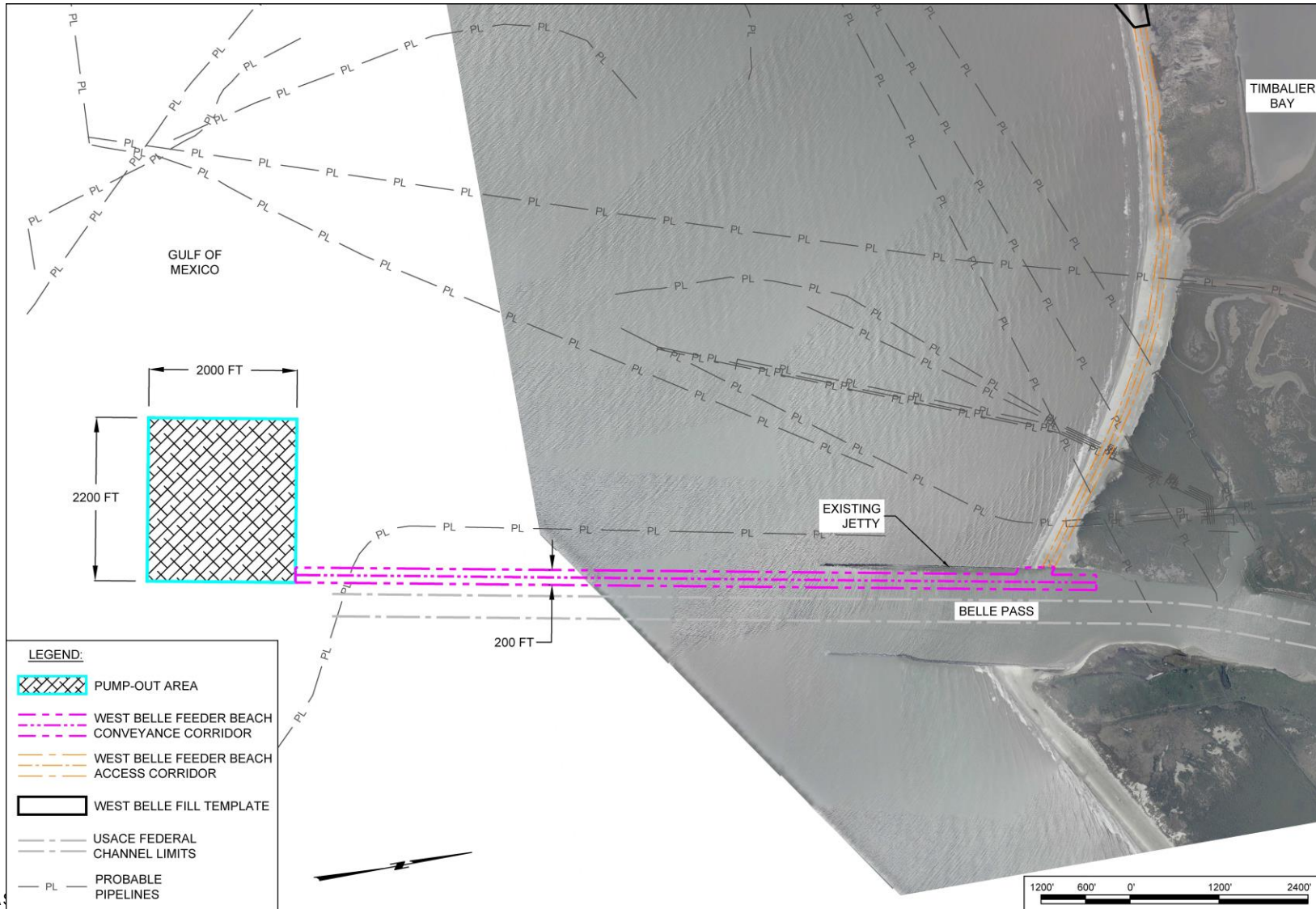


# West Belle Pump-Out and Conveyance Corridor



- Same Pump-Out Area and Conveyance Corridor used for the TE-0143 Project.
- Corridor Width: 300 ft.
- Allowable Anchor Area Width: 250 ft Beyond Corridor Limits.
- Pump-Out Area Average Depth: -33 ft NAVD88 (2021).
- Corridor Depth Ranges from -28 ft NAVD 88 to Shoreline (2021).

# West Belle Feeder Beach Pump-Out and Conveyance Corridor and Equipment Access Corridor



- Same Pump-Out Area and Conveyance Corridor used for the TE-0143 Project.
- Corridor Width: 200 ft.
- Just Outside of Navigation Channel.
- Pump-Out Area Average Depth: -33 ft to -35 ft NAVD88 (2021).
- Corridor Depth Ranges from -30 ft to -10 ft NAVD88 (2021).

# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization or Demobilization (TS-110)	1	LUMP SUM
2	Pre-Construction / Post-Construction Surveys (TS-200.4 & TS-200.6)	1	LUMP SUM
3	Construction Surveys (TS-200.5)	1	LUMP SUM
4	Hydraulic Fill (TS-405)	2,613,000	CUBIC YARD
5	Sand Fencing (TS-950)	10,000	LINEAR FOOT
6	Settlement and Overwash Monitoring System (TS-250)	7	EACH
7	Bird Abatement (TS-420)	200	DAYS
8	Sea Turtle Relocation Trawling – Hopper Dredging (TS-401.4)	207	DAYS
9	Sea Turtle Tissue Sampling – Hopper Dredging (TS-401.4)	30	EACH
10	Sea Turtle Observations – Hopper Dredging (TS-401.3)	200	DAYS

# Project Schedule

- Headland Survey for Volumes Updates in Spring 2024
- Anticipated Advertisement in Fall 2024.



# Questions?



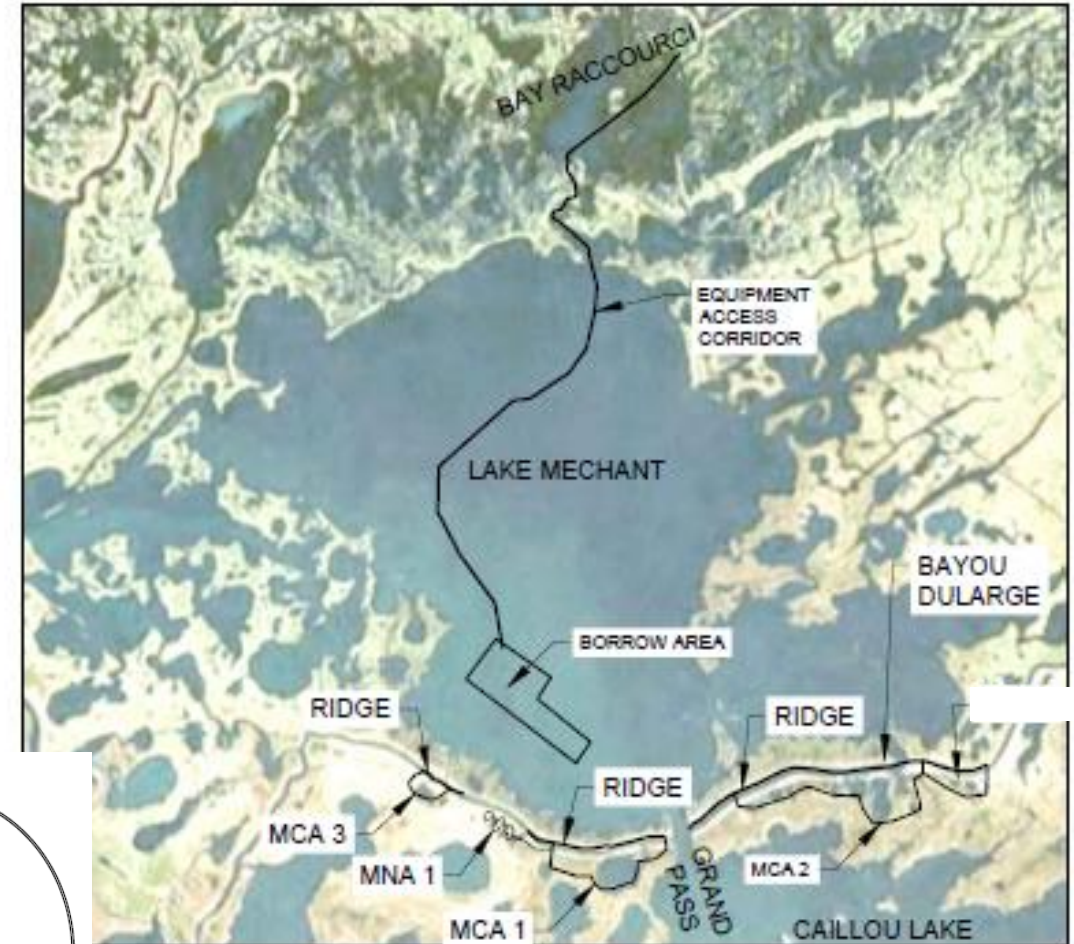
# Bayou Dularge Ridge & Marsh Creation

TE-0170



# Project Vicinity and General Notes

- Located in Terrebonne Parish on the South shore of Lake Merchant.
- Located approximately 10 miles southwest of Theriot, LA
- Lake Merchant Borrow Source
- Deepwater Horizon Restoration Plan #8
  - Federal Partner – NOAA
  - *Previously a NRCS RESTORE Project*



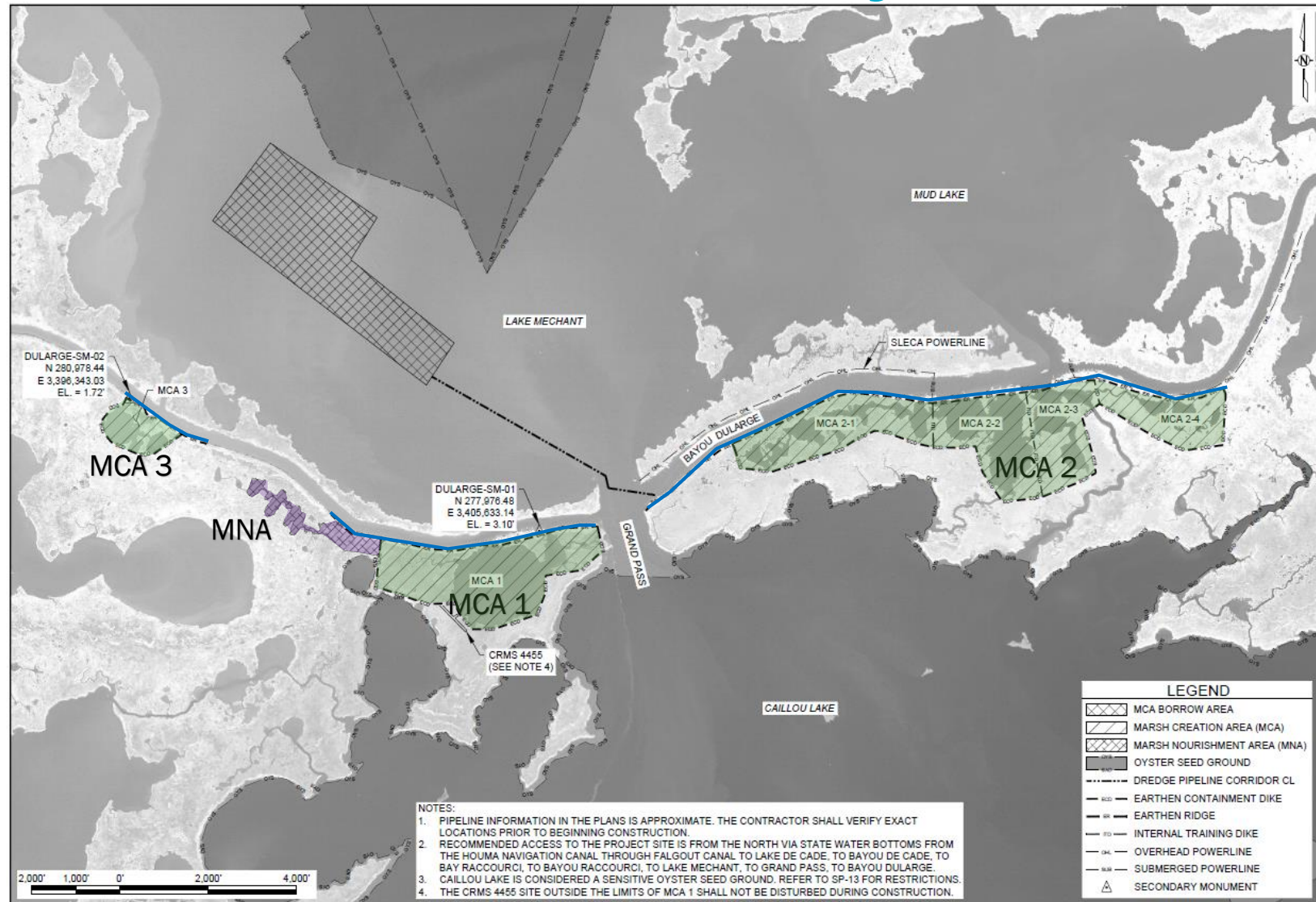
PROJECT LOCATION  
TERREBONNE PARISH



# Proposed Project Features Summary

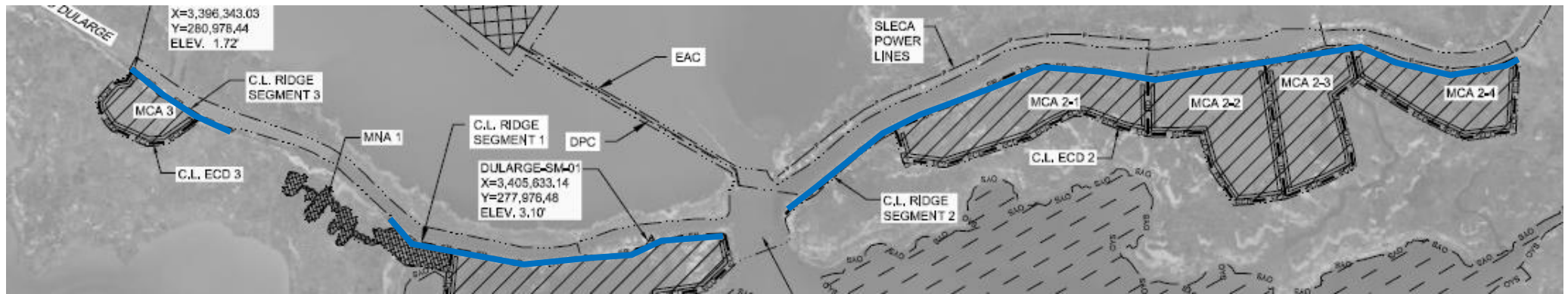
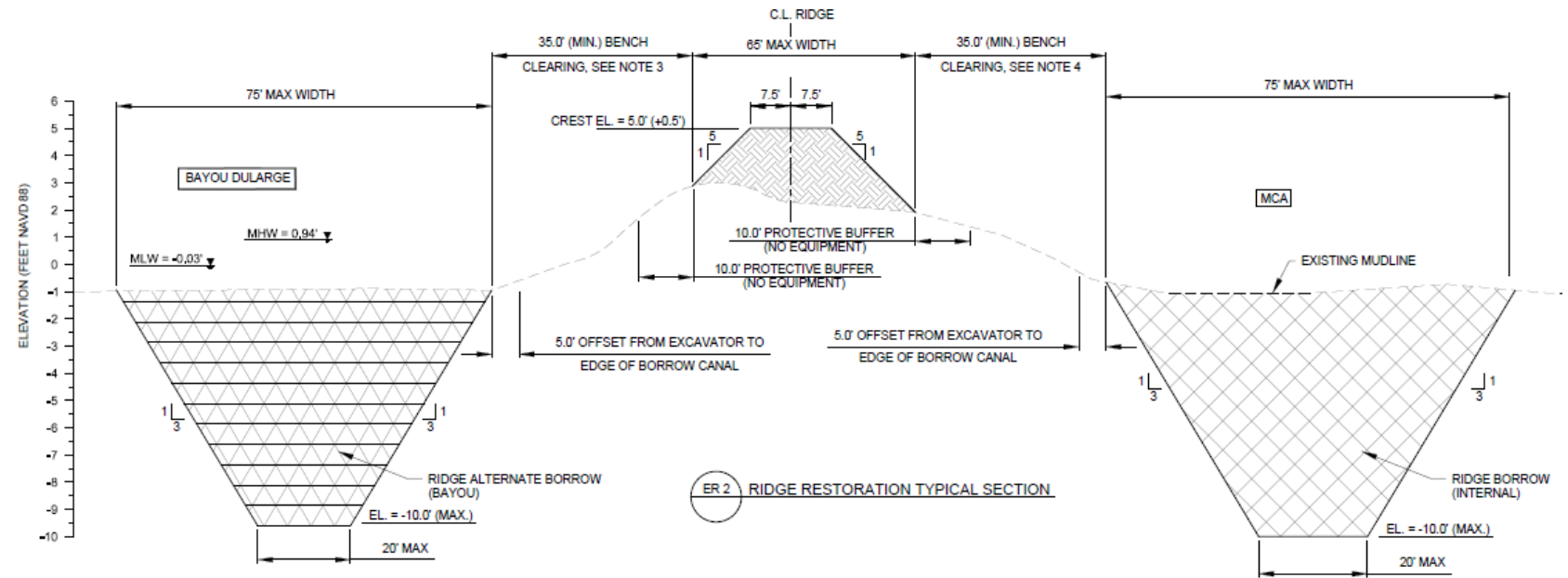
- Three (3) MCAs spanning totaling approximately:
  - 512 acres of Marsh Creation
  - 23 acres of Marsh Nourishment
- 27,000 LF of ECD
- 22,400 LF of Earthen Ridge
- Available Borrow from Lake Merchant: 5.5 MCY

Designation	Total Area (Ac)	Marsh Creation Area (Ac)	Marsh Nourishment Area (Ac)
MCA 1	157	157	
MNA 1	23	0	23
MCA 2-1	102	102	
MCA 2-2	90	90	
MCA 2-3	70	70	
MCA 2-4	62	62	
MCA 3	31	31	
<b>TOTAL</b>	<b>535</b>	<b>512</b>	<b>23</b>



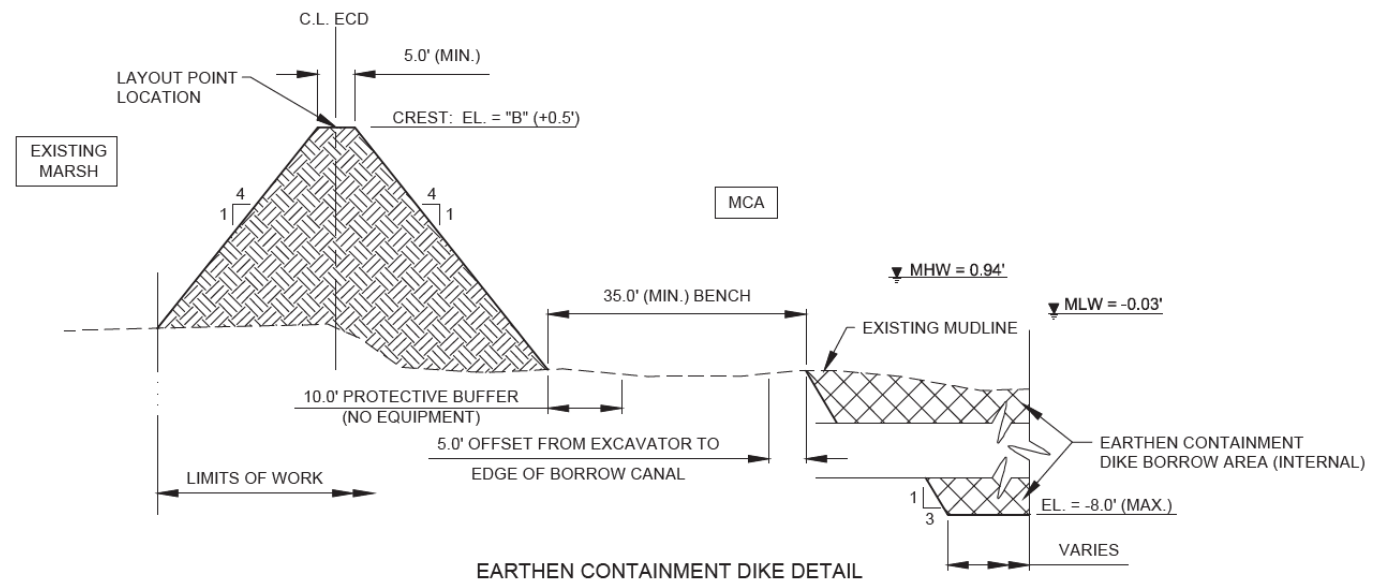
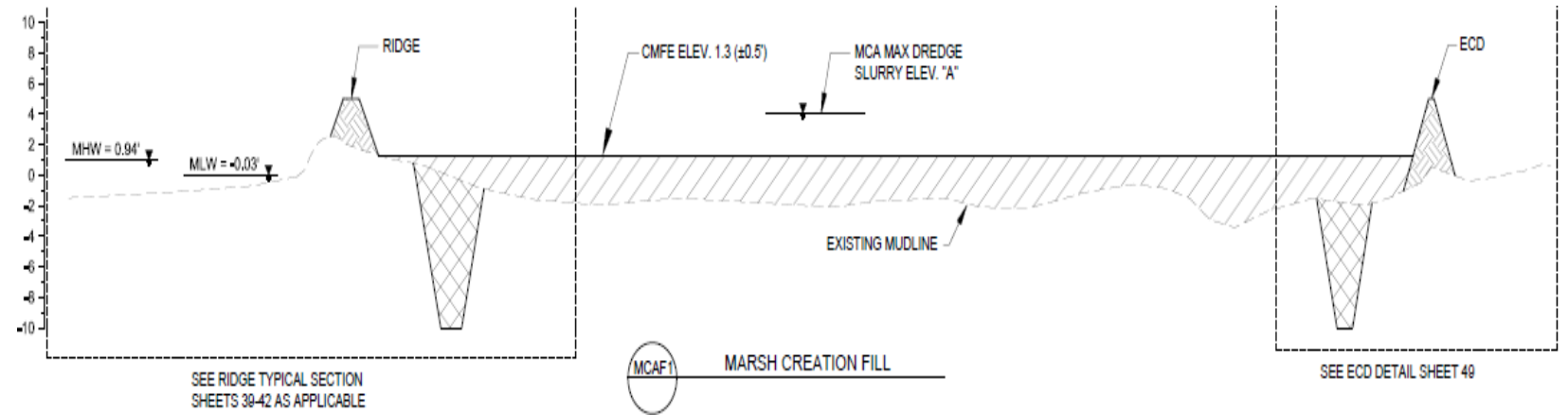
# Typical Sections – Ridge

- 22,400 LF
- Multiple-Lift Construction
- MCA & Bayou Dularge Borrow material
- Crown Elevation: +5.0ft (-0.5ft) (NAVD88)
- Crown Width: 15 feet
- Side Slopes: 5H:1V
- 35' Bench



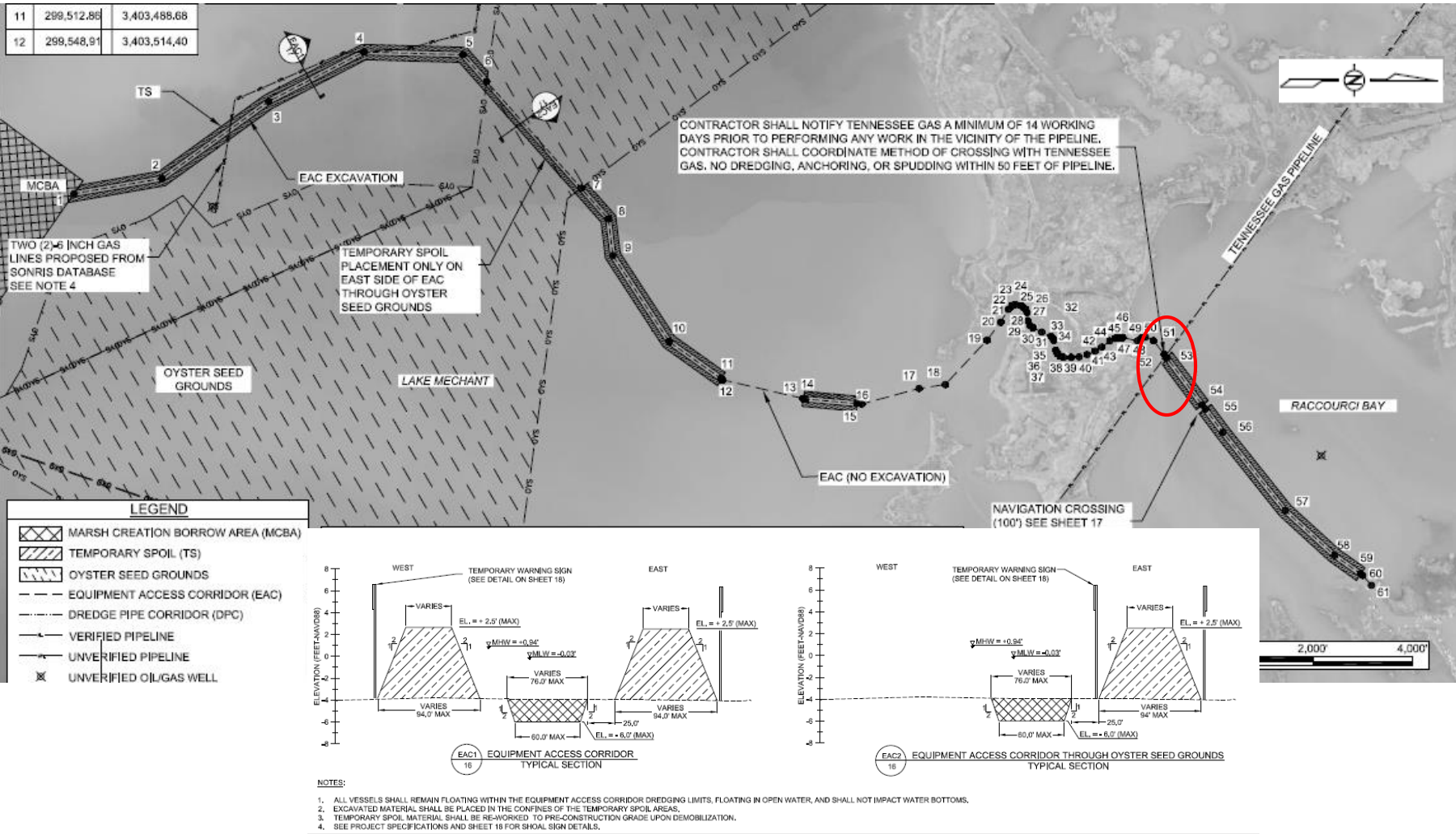
# Typical Sections – ECD and Marsh Fill

- Earthen Containment Dike:
  - 27,000 LF
  - Crown Elevation: +4.5ft (-0.5ft) (NAVD88)
    - MCA-6: +5.5ft (-0.5ft)
  - Crown Width: 5 feet
  - Side Slopes: 4H:1V
- Max MCA Fill Elevation:
  - MCA1, MCA3 +3.0ft (-0.5ft) (NAVD88)
  - MCA2: +2.5ft (-0.5ft) (NAVD88)
- Average Water Bottom Elevations (Approximate): MCA-1-3: -2.2-ft (NAVD88)
- Average Marsh Elevation:
  - MCA-1-3: 0.6-ft (NAVD88)



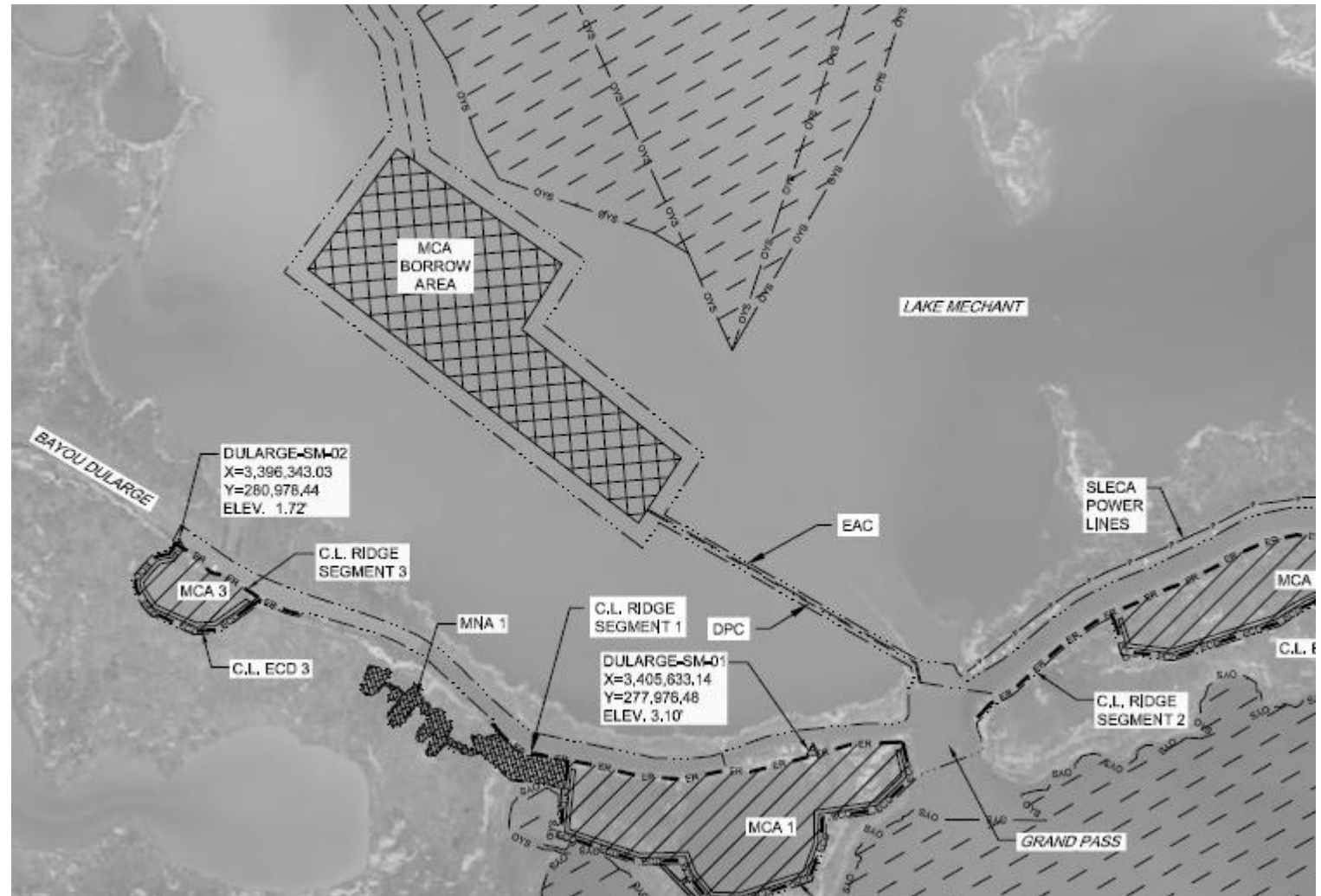
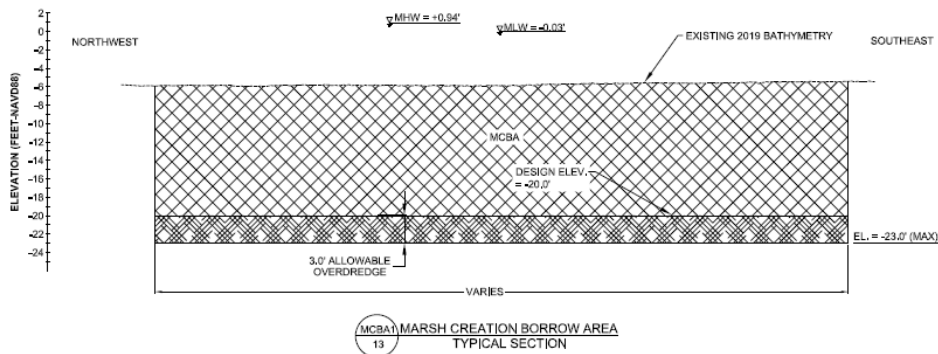
# Equipment Access Corridor

- 17 total miles
- Access Dredging permitted in Lake Merchant and Raccourci Bay
- 24-inch Tennessee Gas Pipeline on South Side of Raccourci Bay
- Two (2) unverified six-inch (6") pipelines identified within Lake Merchant.



# Borrow Area Layout and Typical Section

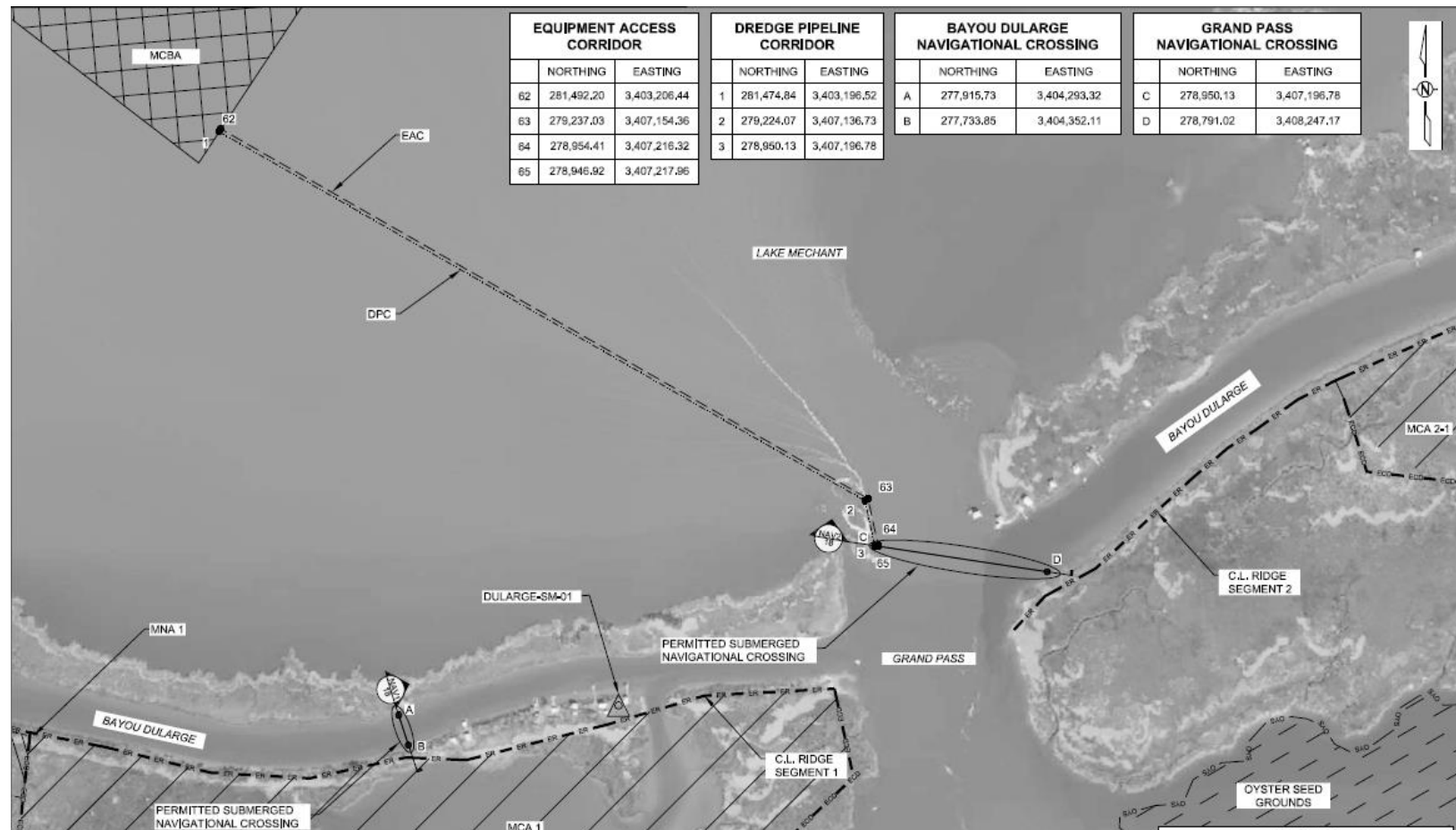
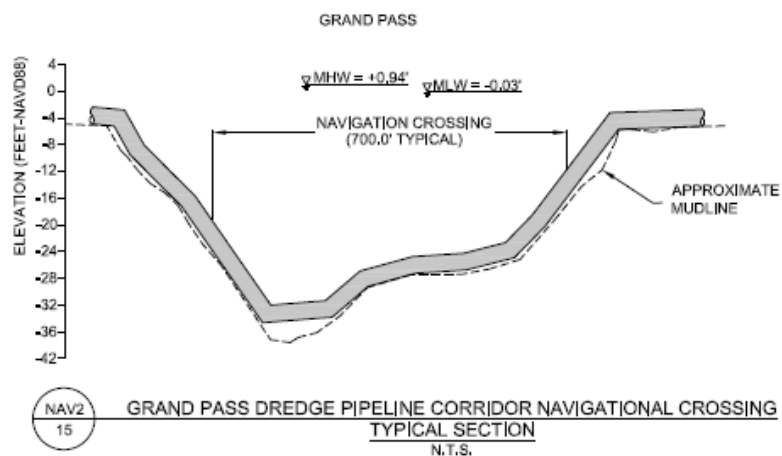
- Avg. Water Bottom Ele. = -6 ft (NAVD88)
- Maximum Dredge cut to -20 ft (NAVD88)
- Maximum Pump distance of 4.2 miles
- 5.5 MCY available sediment
- 2.9 MCY fill requirement
- Based on preliminary data, Borrow material a mixture of soft to very soft clays, with fine sand and/or silts.





# Dredge Pipeline Corridor

- Pump Distance: 2.5 miles (MCA-1) to 4.0 miles (MCA 2-4)
- Submerged Navigational Crossings of Grand pass and Bayou Dularge.



# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization or Demobilization (TS-100)	1	LUMP SUM
2	Surveys (TS-200)	1	LUMP SUM
3	Grade Stakes (TS-220)	51	EACH
4	Settlement Plates (TS-270)	10	EACH
5	Earthen Containment Dikes (TS-300)	27,323	LINEAR FOOT
6	Internal Training Dikes (TS-301)	3,943	LINEAR FOOT
7	Earthen Ridge (TS-303)	22,482	LINEAR FOOT
8	Clearing and Grubbing (TS-332)	1	LUMP SUM
9	Floation Access Channels (TS-330)	1	LUMP SUM
10	Hydraulic Dredging and Marsh Creation – (TS-400)	2,058,022	CUBIC YARD
11	Structural Demolition (TS-960)	1	LUMP SUM
12	Smooth Cordgrass-Plugs (TS-1002)	3,300	EACH
13	Seashore Paspalum-Four Inch Container (TS-1004)	13,500	EACH

\*Preliminary Estimates

# Project Schedule

- March 2024 - Additional Data Collection
- July 2024 – Final Engineering and Design
- October 2024 Landright Agreements
- January 2025 Advertise for Construction
- Construction Duration: 500 Days

# Questions?



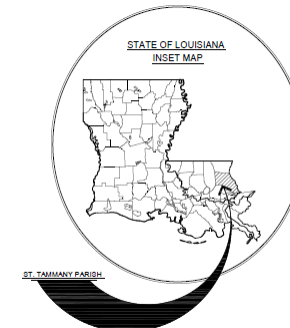
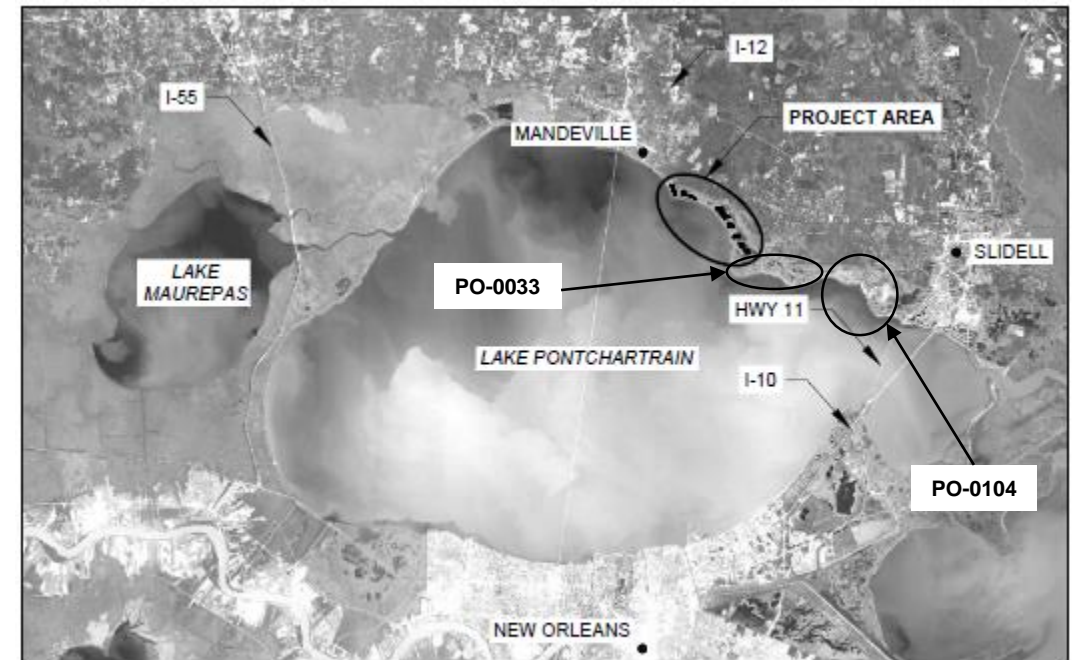
# Bayou Cane Marsh Creation

PO-0181



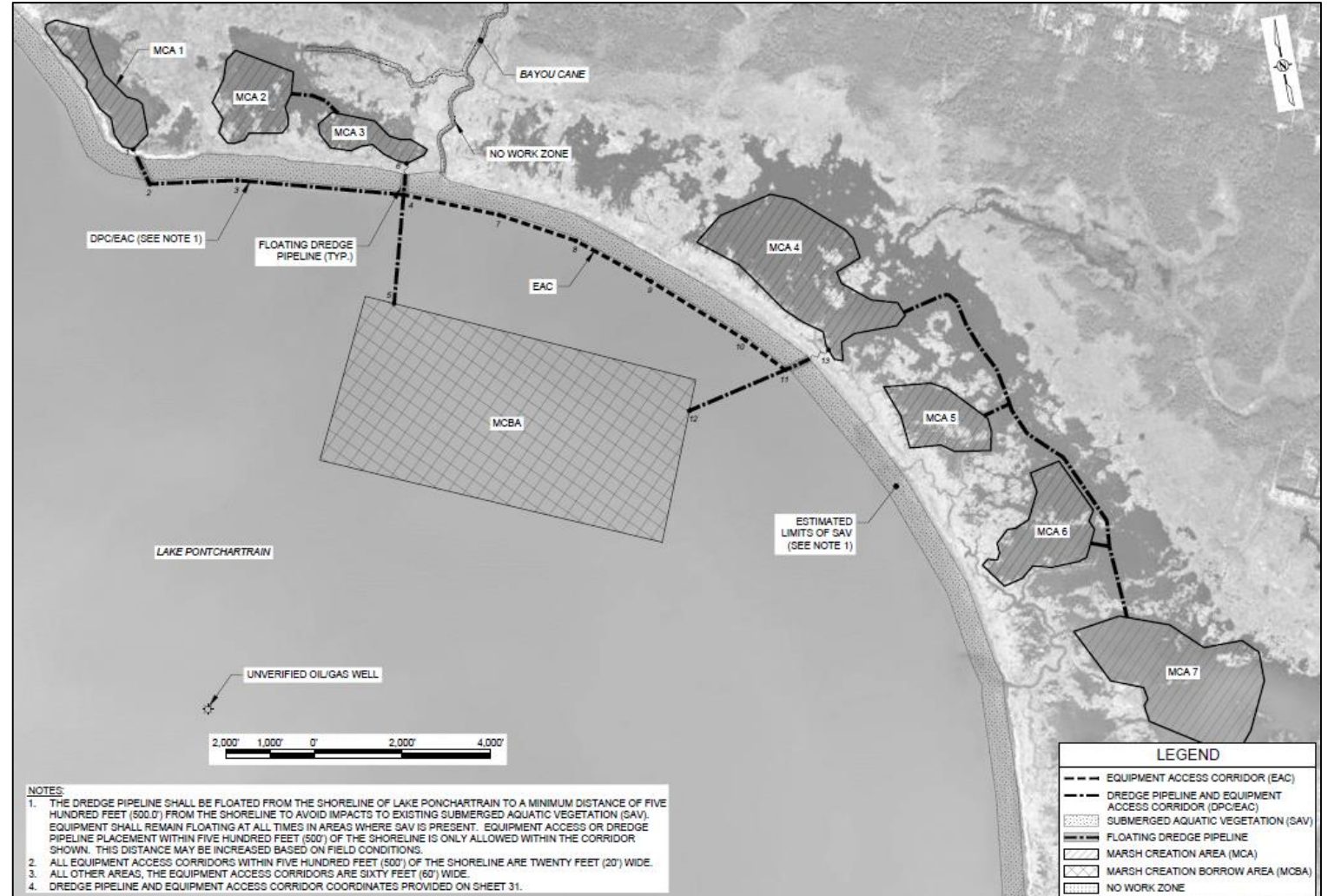
# Project Vicinity and General Notes

- Located in St. Tammany Parish (Pontchartrain Basin) on the north shore of Lake Pontchartrain.
- Adjacent to the constructed PO-0033 (Goose Point) and PO-0104 (Bayou Bonfouca) projects.
- Lake Pontchartrain Borrow Source
- Approved under CWPPRA Program in December 2022



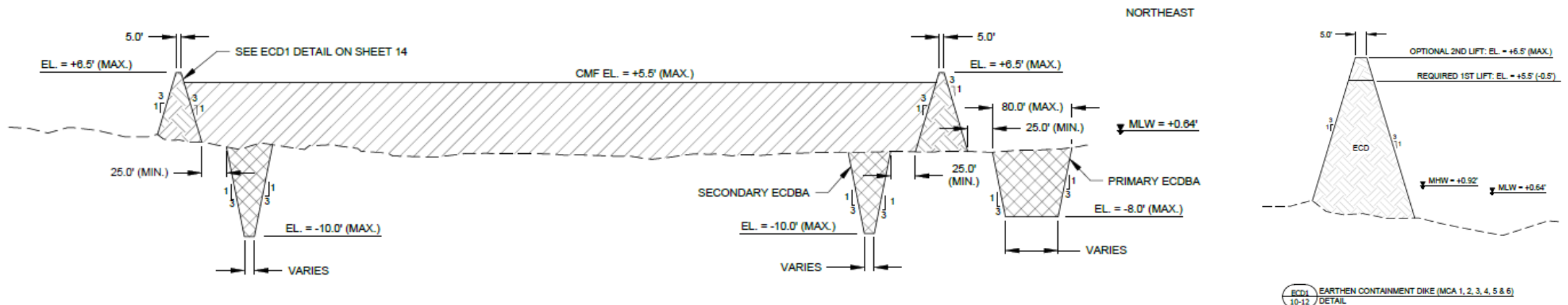
# Proposed Project Features Summary

- Seven (7) MCAs totaling approximately:
  - 633 acres
  - 2.5 MCY of fill
- ~62,000 LF of ECD
  - Some reaches of external borrow
- Available Borrow from Lake Pontchartrain: 15.6 MCY
  - Shallow Pleistocene
- Shoreline EAC/DPC crossing at three (3) locations using board mats.



# Typical Sections – ECD and Marsh Fill

- Earthen Containment Dike (~61,900 LF)
  - Crown Elevation: +6.5ft max.
    - MCA-7: +5.5ft max
  - Crown Width: 5 feet
  - Side Slopes: 3H:1V
    - MCA-7: 4H:1V
  - Combination of internal and external borrow
  - One (1) foot of freeboard required at all times
- MCA Fill Elevation: +5.5ft max. (NAVD88)
  - MCA-7: +4.5 ft max
- Volume-based acceptance
- Average Mudline Elevations (Approximate):
  - MCA-1-3, 5, & 7: -1.0 to -1.5 ft (NAVD88)
  - MCA-4 & 6: -1.5 to -2.0ft (NAVD88)



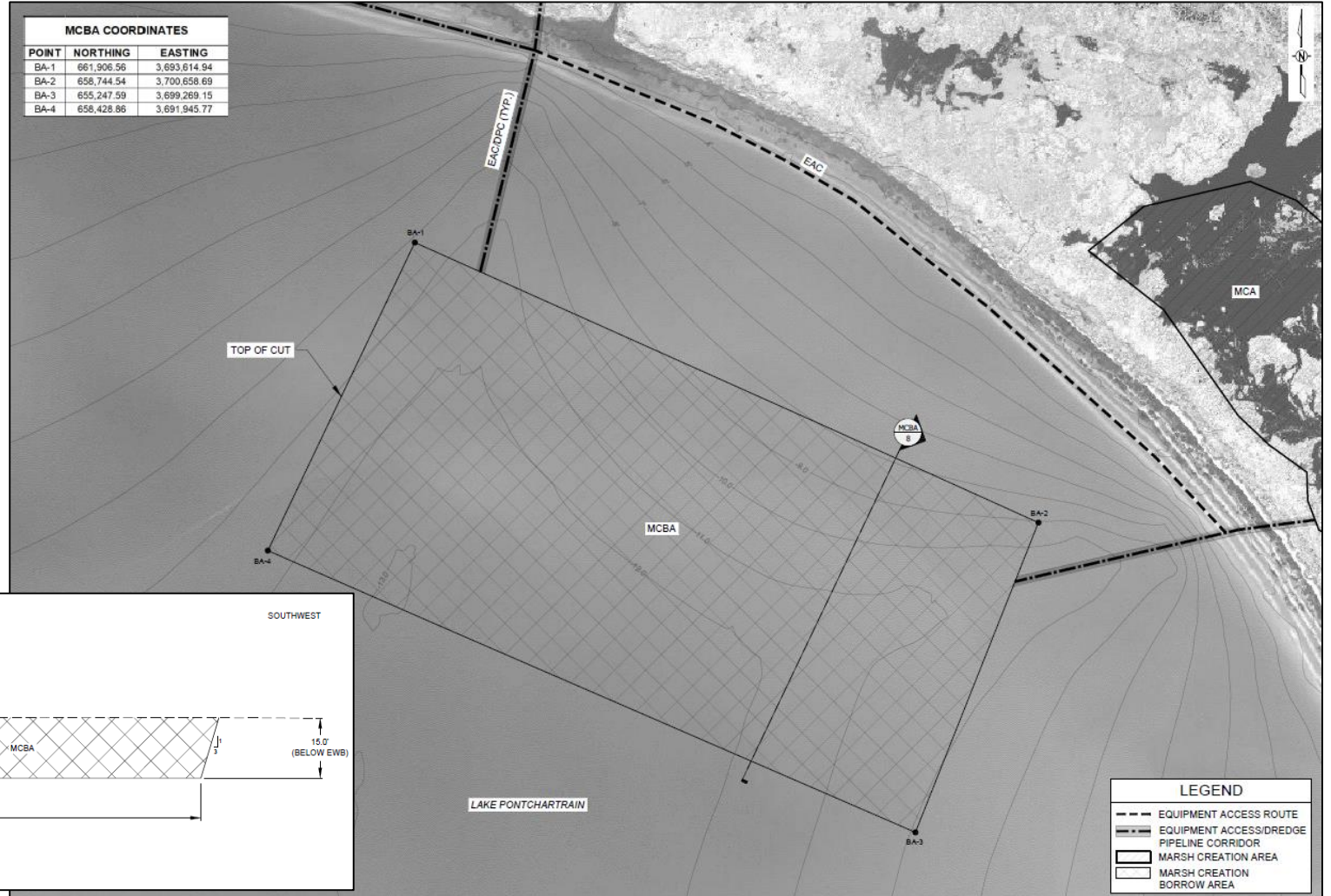
MCA1 MARSH CREATION AREA 1  
6 TYPICAL SECTION

ECD1 EARTHEN CONTAINMENT DIKE (MCA 1, 2, 3, 4, 5 & 6)  
10-12 DETAIL



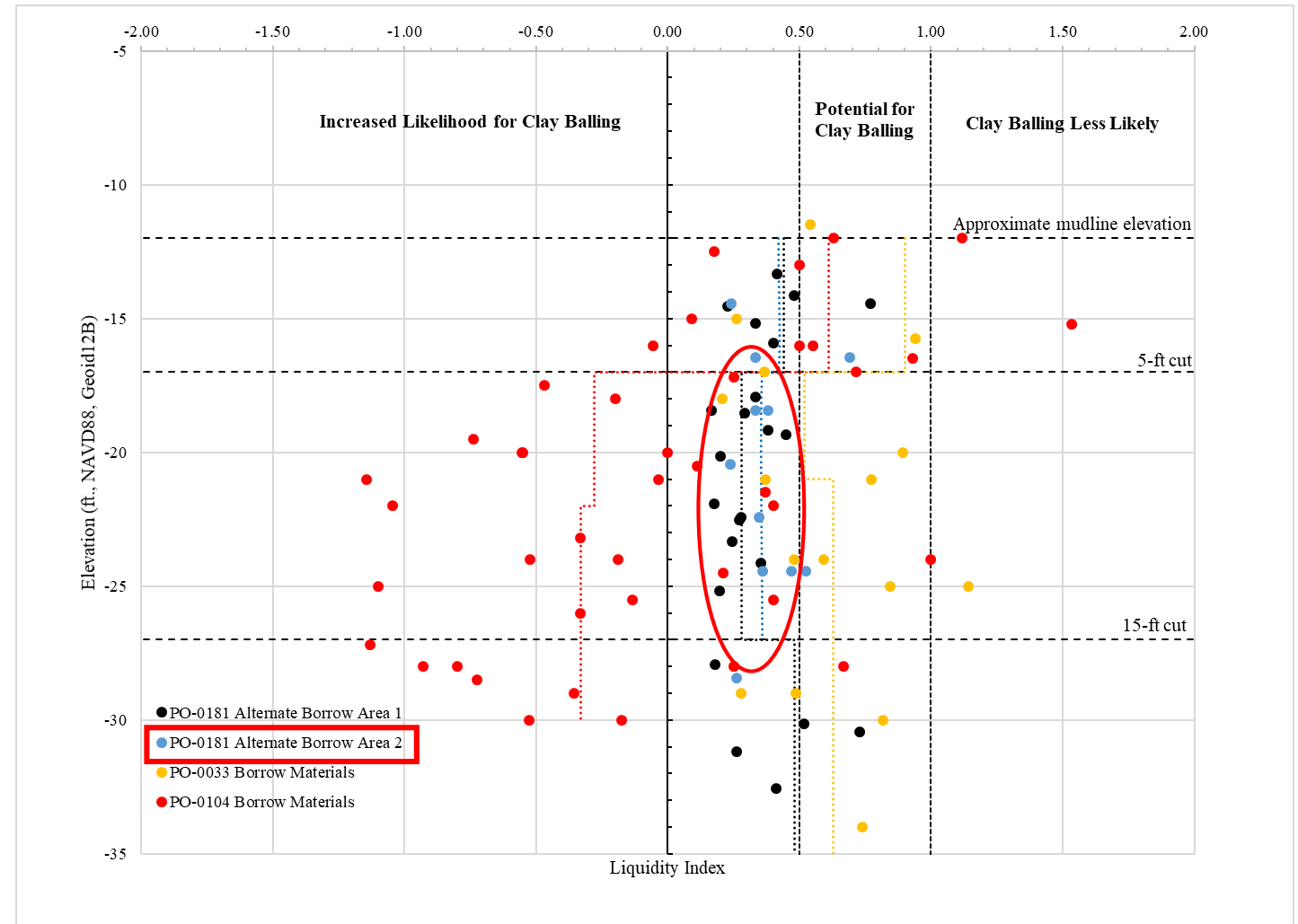
# Borrow Area Layout and Typical Section

- Avg. Water Bottom Ele. = -11 ft (NAVD88)
- 15-ft cut (maximum)
- 1.0 to 1.5 miles from shoreline
- ~15.6 MCY available
  - ~2.5 MCY cut requirement
- Material is predominately firm to stiff CL & CH (with some sand pockets) in upper 10 feet with Pleistocene and some sand layers below 10 feet.
  - High potential for clay-balling.



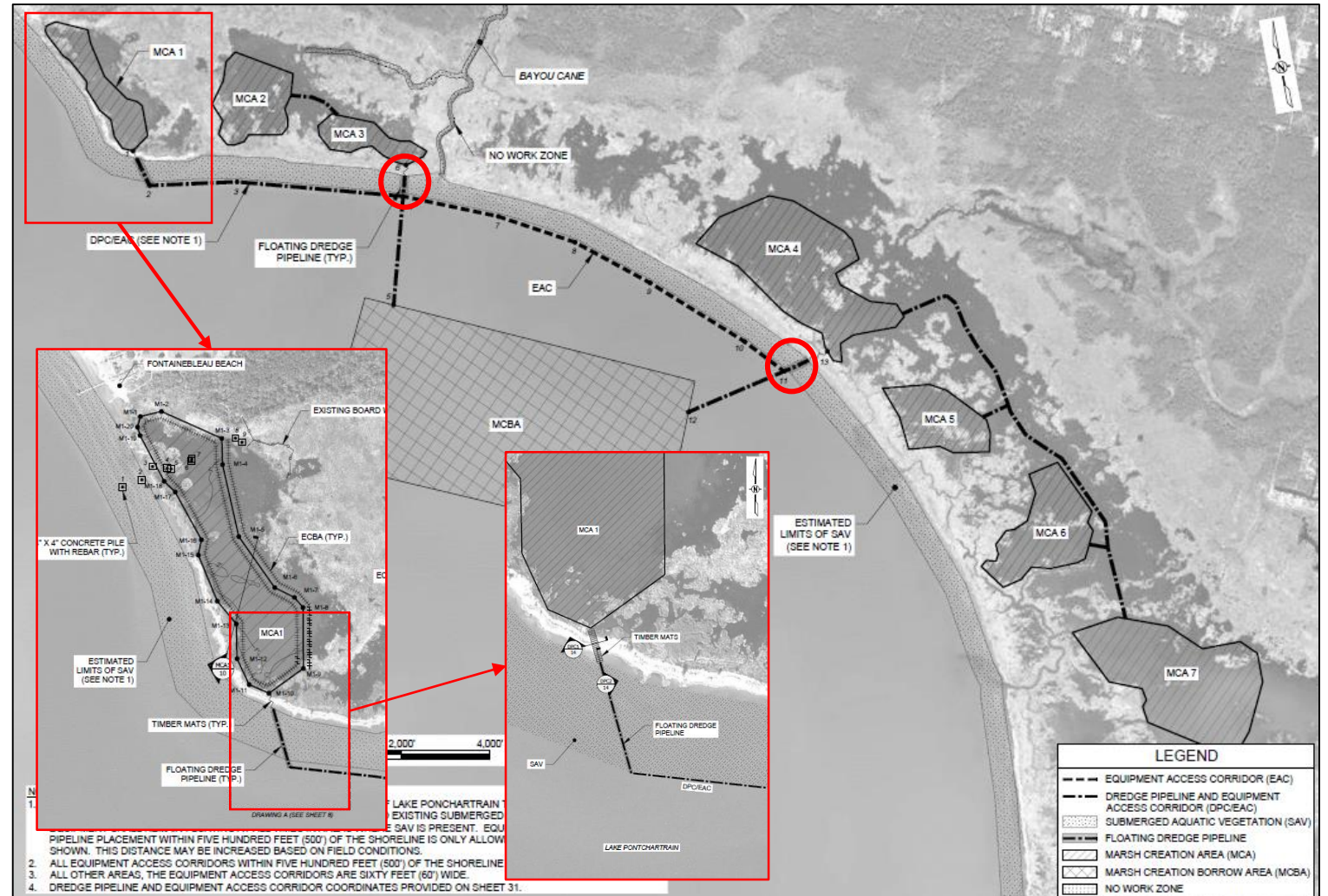
# Borrow Area Layout and Typical Section

- Material is predominately firm to stiff CL & CH (with some sand pockets) in upper 10 feet with Pleistocene and some sand layers below 10 feet.
- High clay ball potential based on evaluation of:
  - Atterberg limits
  - Density
  - Comparison with nearby Pontchartrain borrow projects:
    - Bayou Bonfouca (PO-0104)
    - Goose Point (PO-0033)
- Liquidity Index vs. elevation plotted to the right. As LI decreases, likelihood of clay ball formation generally increases.



# Dredge Pipe & Equipment Access Corridor

- Pump Distance: ~1.5 miles (MCA-3) to ~4.0 miles (MCA-7)
  - Average: ~2.5 miles
- Floating pipe (i.e. pontoon) and equipment within 500 feet of shoreline.
  - To minimize impacts to grass beds.
- Three (3) 50-ft wide shoreline crossings at permitted locations using board mats (circled in red).
  - Near MCA-1, MCA-3, and MCA-4.
  - To minimize shoreline impacts.
- Floating access between all other MCAs.
- Access not allowed in Bayou Cane (Scenic Waterway) or other tidal creeks (per request of Big Branch NWR).



# Project Schedule

- December 2022 – Construction Funding Authorized (CWPPRA)
- January 2023 – Construction Permit Application Submitted
- October 2024 – Receive Construction Permit
- November 2024 – Advertise for Construction
- January 2025 – Issuance of NTP

\*Preliminary Estimates

# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization or Demobilization (TS-100)	1	LUMP SUM
2	Surveys (TS-200)	1	LUMP SUM
3	Grade Stakes (TS-220)	67	EACH
4	Settlement Plates (TS-270)	18	EACH
5	Earthen Containment Dikes (TS-300)	62,000	LINEAR FOOT
6	Hydraulic Dredging and Marsh Creation – MCA-1 (TS-420)	175,000	CUBIC YARD
7	Hydraulic Dredging and Marsh Creation – MCA-2 (TS-420)	192,400	CUBIC YARD
8	Hydraulic Dredging and Marsh Creation – MCA-3 (TS-420)	113,200	CUBIC YARD
9	Hydraulic Dredging and Marsh Creation – MCA-4 (TS-420)	715,100	CUBIC YARD
10	Hydraulic Dredging and Marsh Creation – MCA-5 (TS-420)	227,500	CUBIC YARD
11	Hydraulic Dredging and Marsh Creation – MCA-6 (TS-420)	363,100	CUBIC YARD
12	Hydraulic Dredging and Marsh Creation – MCA-7 (TS-420)	651,700	CUBIC YARD

**TOTAL VOLUME: ~2,438,500 CUBIC YARDS**

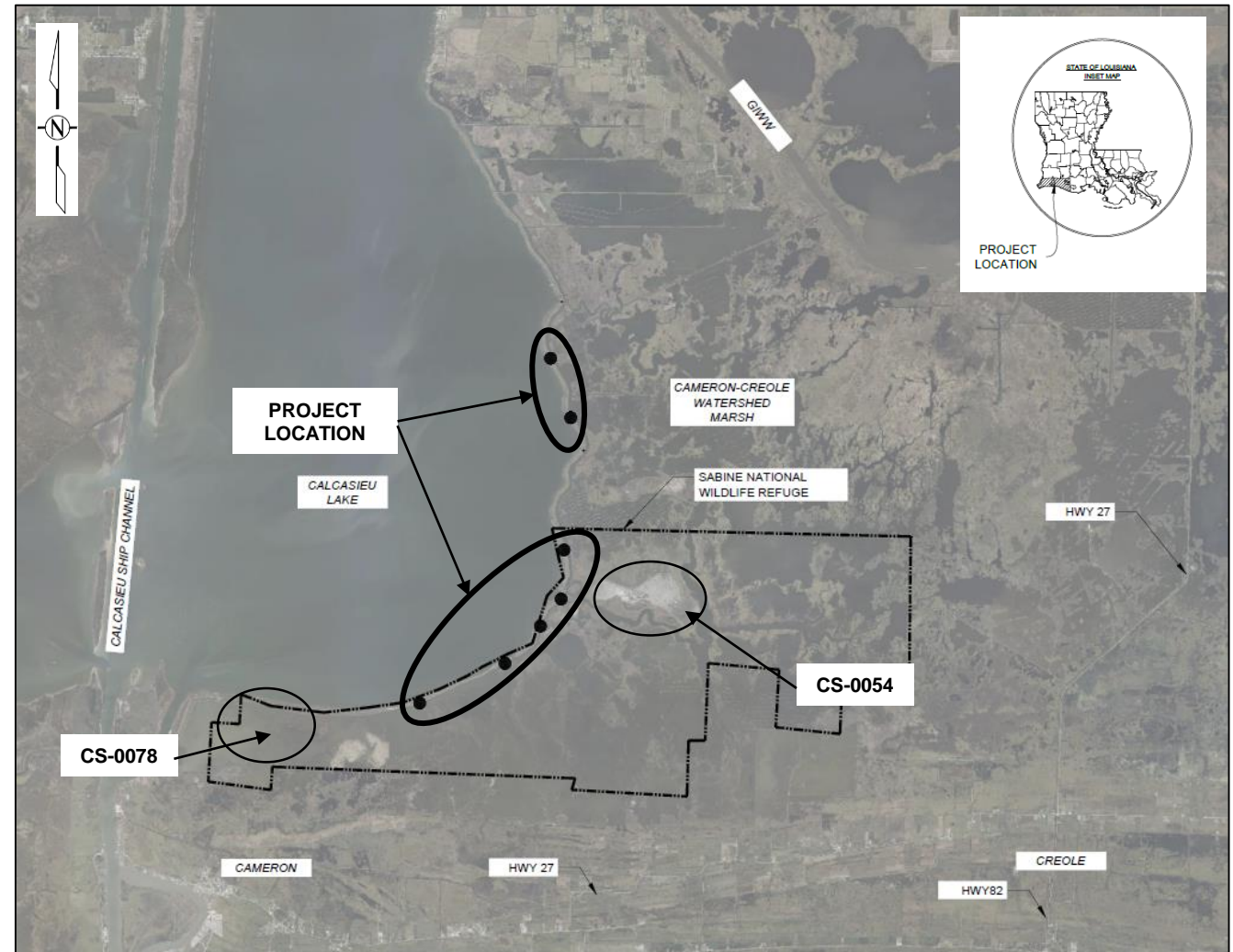
# Questions?



# Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Lake Rim Drainage Structures CS-0087.A

# Project Vicinity and General Notes

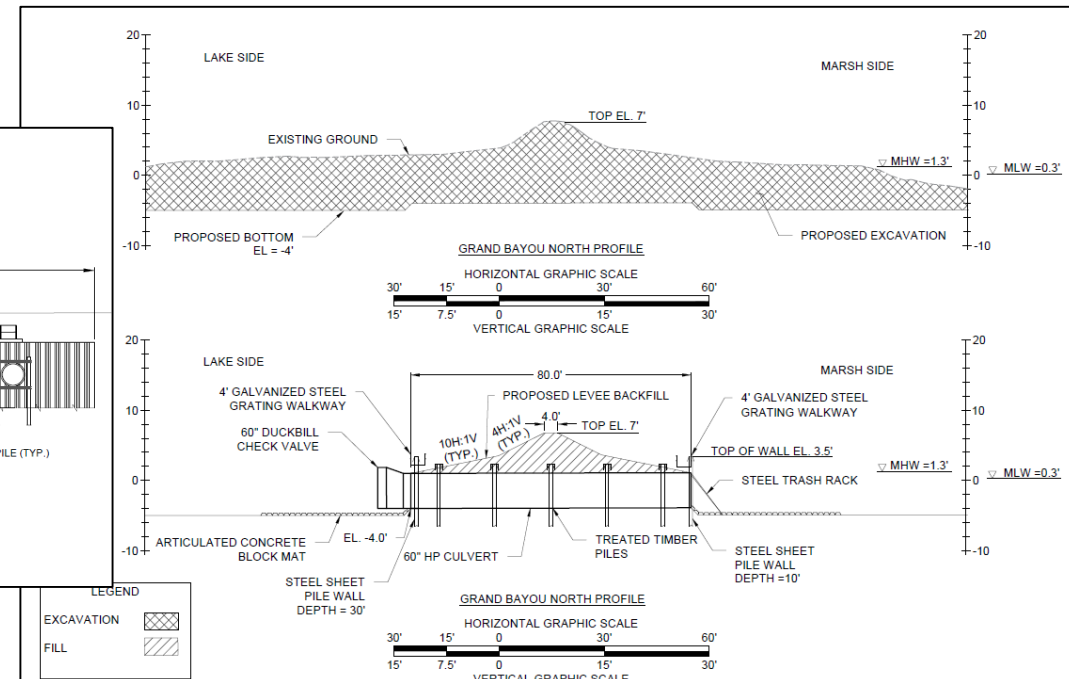
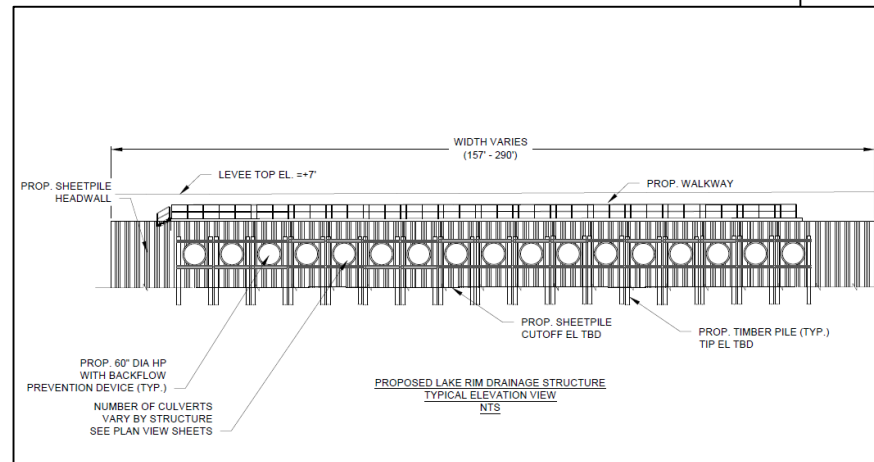
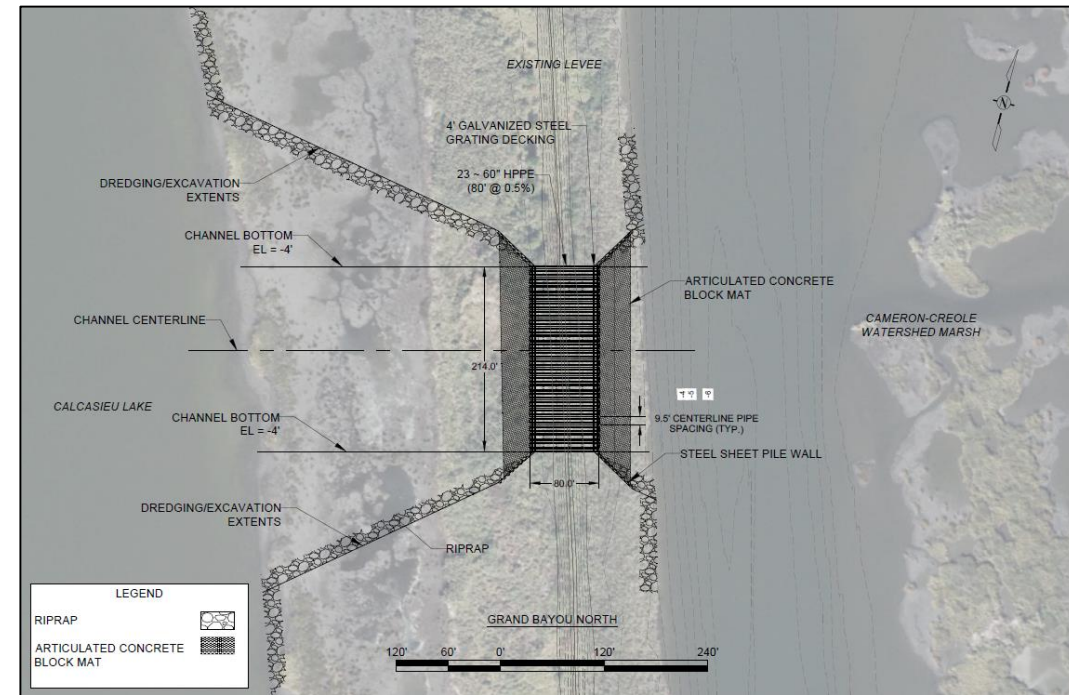
- Located in Cameron Parish (Calcasieu-Sabine Basin) within the Cameron Creole Watershed (CCW) along the eastern shore of Calcasieu Lake.
- Nearby projects: CS-0078 and CS-0054
- Seven (7) Gravity drainage structures with backflow prevention located along the existing CCW Levee.





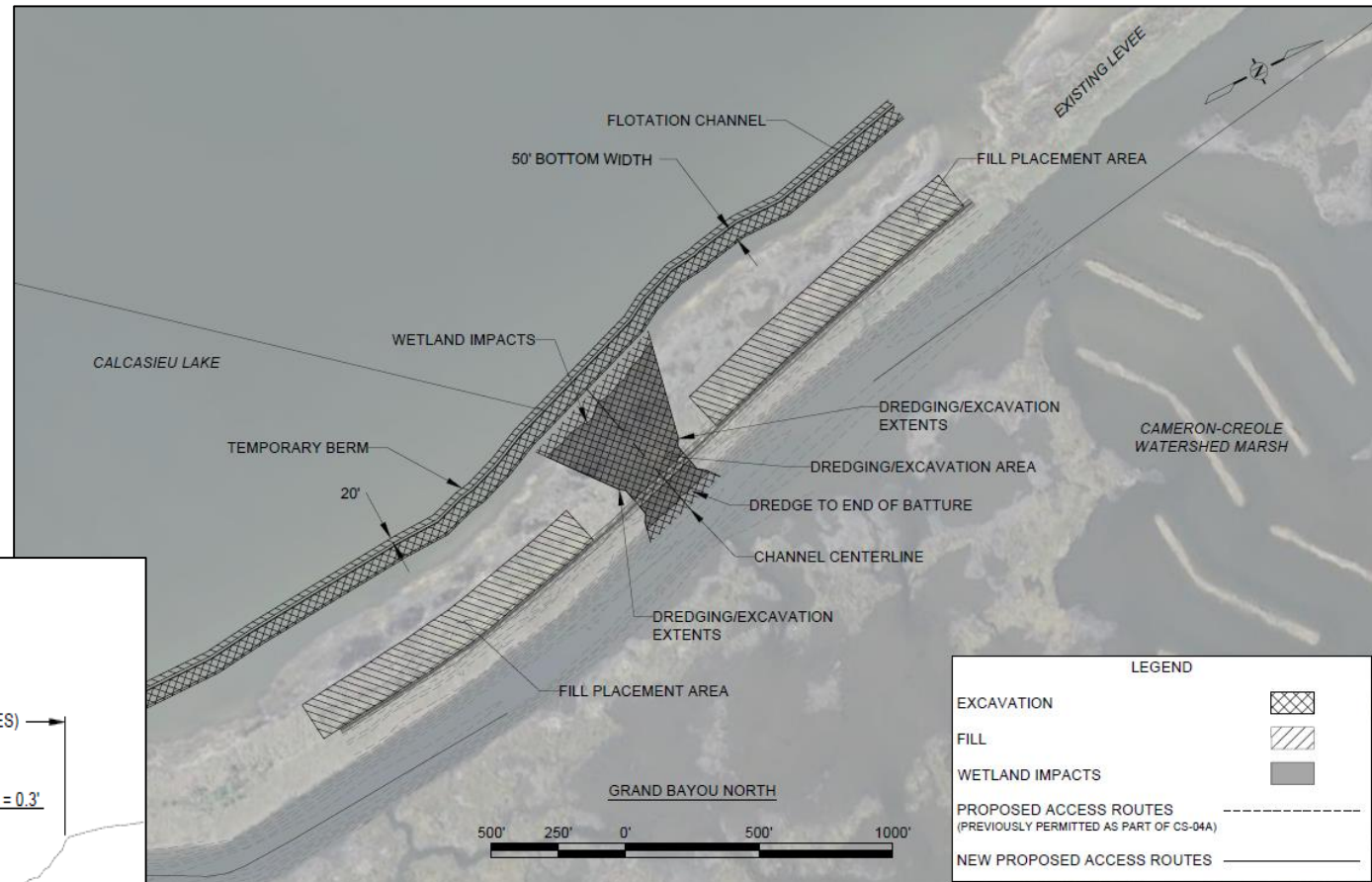
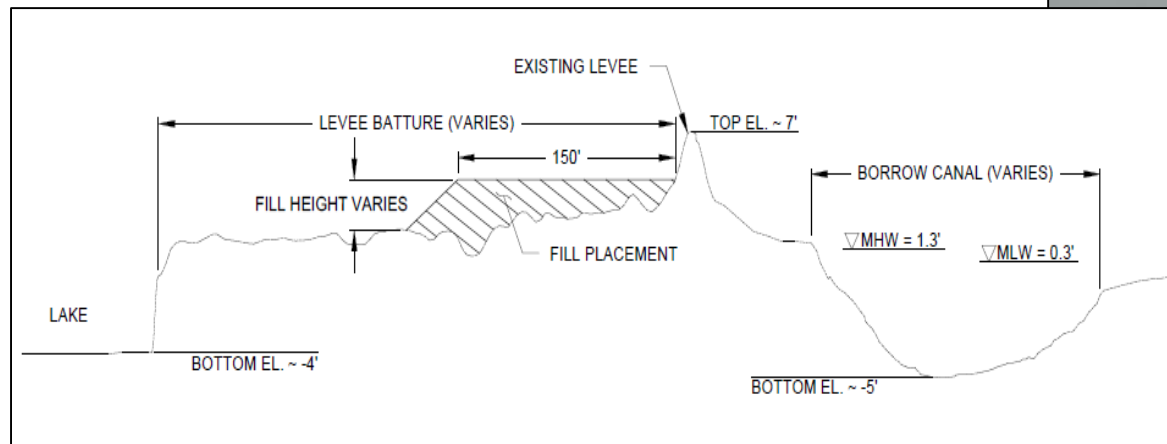
# Proposed Structure Layout

- Seven (7) gravity drainage structures with backflow prevention:
  - Each structure consists of multiple barrels of 60" diameter culverts
    - 3 structures with 17 culverts each
    - 2 structures with 23 culverts each
    - 2 structures with 31 culverts each
  - All structures are timber pile supported and include:
    - Backflow prevention devices
    - Trash/debris screens
    - Sheet-pile headwalls
    - Walkways with handrail
    - Riprap-lined channel
    - ACB mats



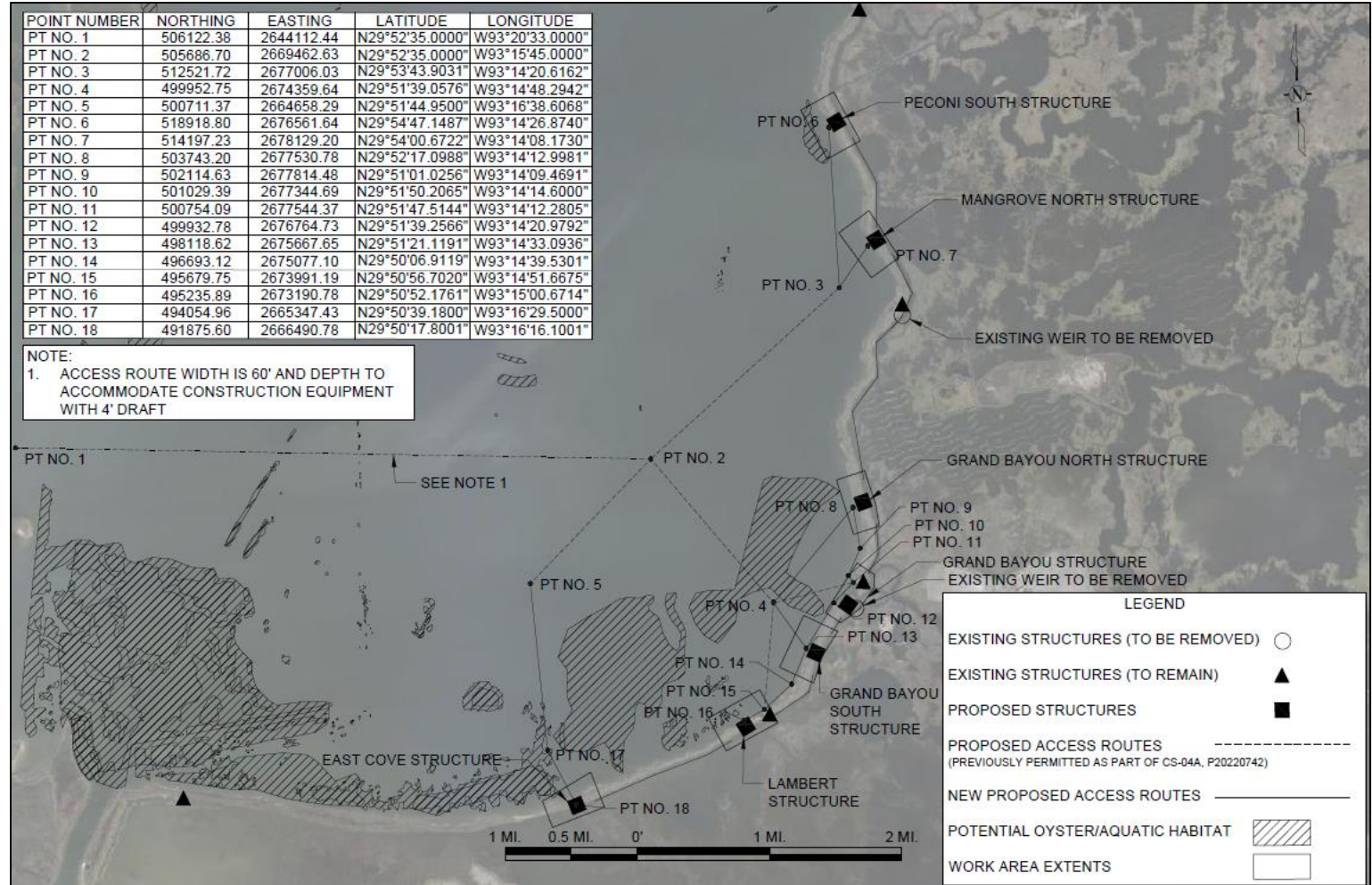
# Typical Sections – Excavation & Placement

- Excavated material at each structure location will be used on-site for levee backfill and batture reinforcement.
- Temporary flotation channels will be allowed for construction equipment.
  - 50' bottom width with 1V:1.5H side slopes.
  - Spoil material placed adjacent to the channel and replaced after completion of construction activities.



# Equipment Access and Floatation

- Access to the site across Calcasieu Lake via the permitted corridors.
- Calcasieu Lake is a Tier 2 Oyster Seed Ground
- No disturbance of water bottoms shall be permitted outside of the work/staging areas.
  - No wheel washing/ prop washing along access routes.
- Access Route width = 60'
  - Shallow draft barges may be required (4 feet or less).
- Access between structures will be allowed in the proposed flotation canals or in the CCW borrow canal.



# Project Schedule

- March 2024– Construction Permit Application Submitted
- Fall 2024– Receive Construction Permit
- Early 2025– Advertise for Construction

\*Preliminary Estimates

# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization or Demobilization	1	LUMP SUM
2	Construction Survey	1	LUMP SUM
3	Cofferdam Excavation	26,100	CUBIC YARD
4	Earthwork	269,077	CUBIC YARD
5	60" HP Culverts	13,360	LINEAR FOOT
6	Galvanized Steel Trash Racks	17,160	SQUARE FOOT
7	Backflow Prevention Devices	159	EACH
8	Non-Woven Geotextile Fabric	35,400	SQUARE YARD
9	Stone Rip Rap (30 lb., 14" Thick)	8,493	SQUARE YARD
10	Treated Timber Piles (50' Long)	80,200	LINEAR FOOT
11	Steel Sheet Piling (50' Deep)	227,000	SQUARE FOOT
12	Galvanized Steel Walkway	11,870	SQUARE FOOT
13	Existing Weir Removal	2	Each

# Questions?

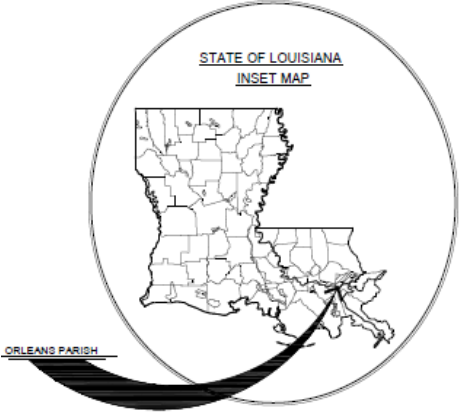
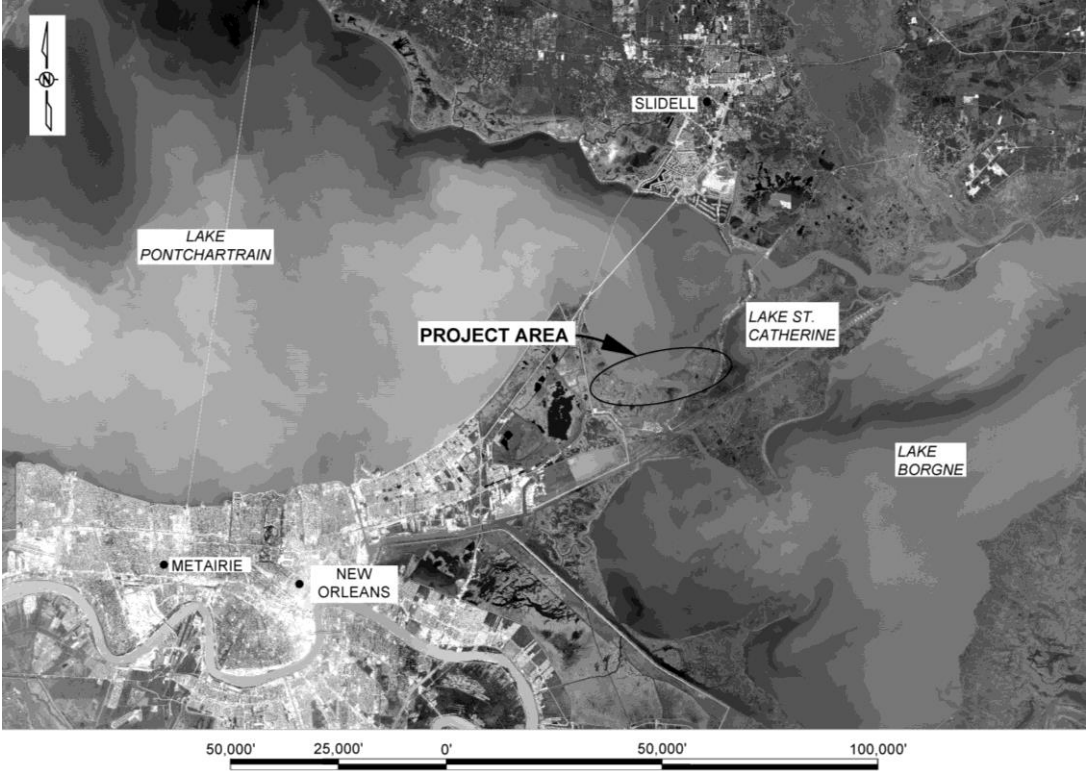


# St. Catherine Island Marsh Creation & Shoreline Protection

PO-0179



# General Project Information



INFORMATION	DESCRIPTION
LOCATION	Bayou Sauvage Refuge, Orleans Parish
FUNDING	CWPPRA
PROJECT TYPE	Marsh Creation and Shoreline Protection
BORROW SOURCE	Lake Pontchartrain

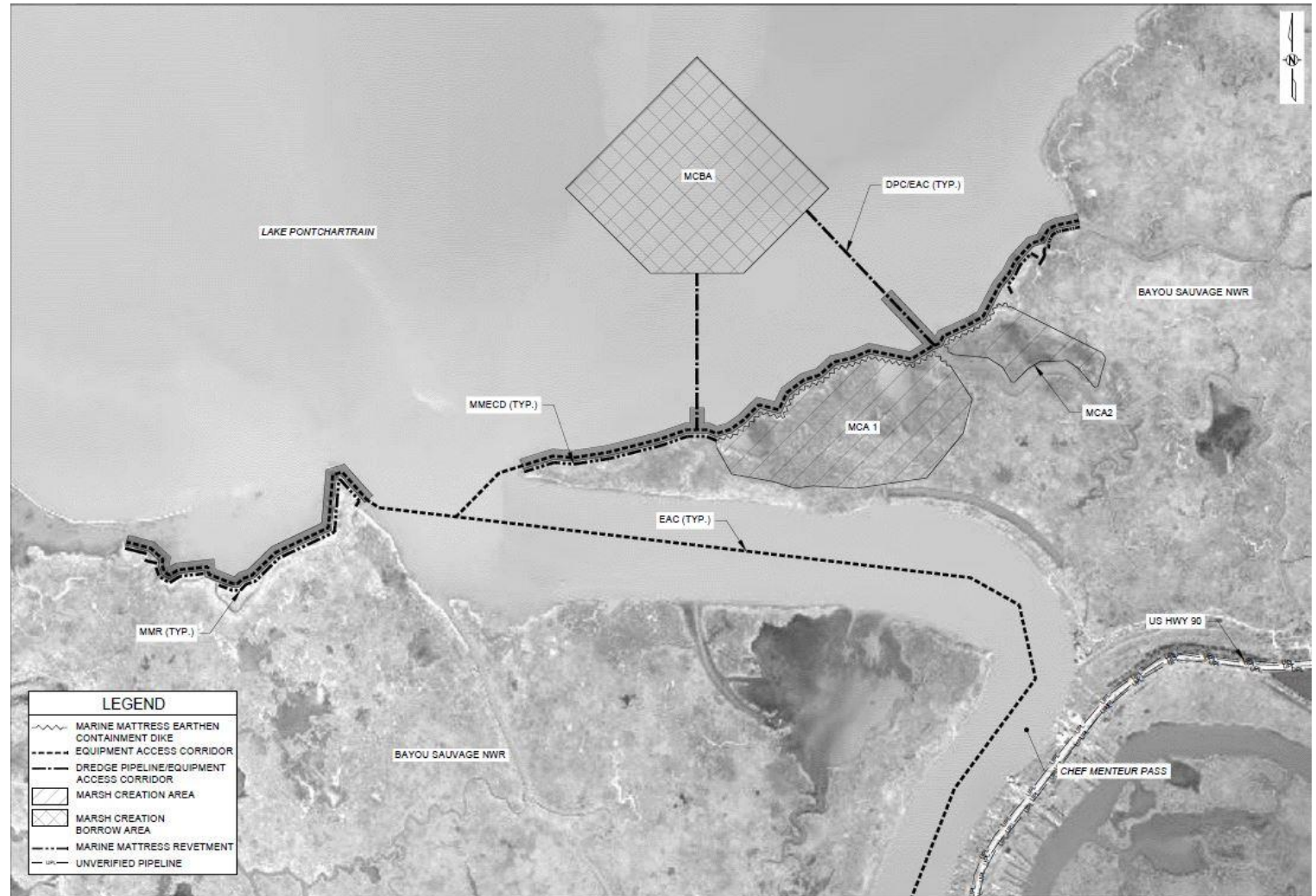


# Proposed Project Features & Quantities

- Lake Pontchartrain Borrow Area:
  - 153 acres
  - 1.7 MCY of borrow
- Two MCAs totaling approximately:
  - 137 acres
  - 630,000 CY of fill
- ~15,000 LF of Earthen Containment Dike
- ~5,400 LF of Marine Mattress Reinforced Containment Dike
- ~9,100 LF of Marine Mattress Shoreline Revetment

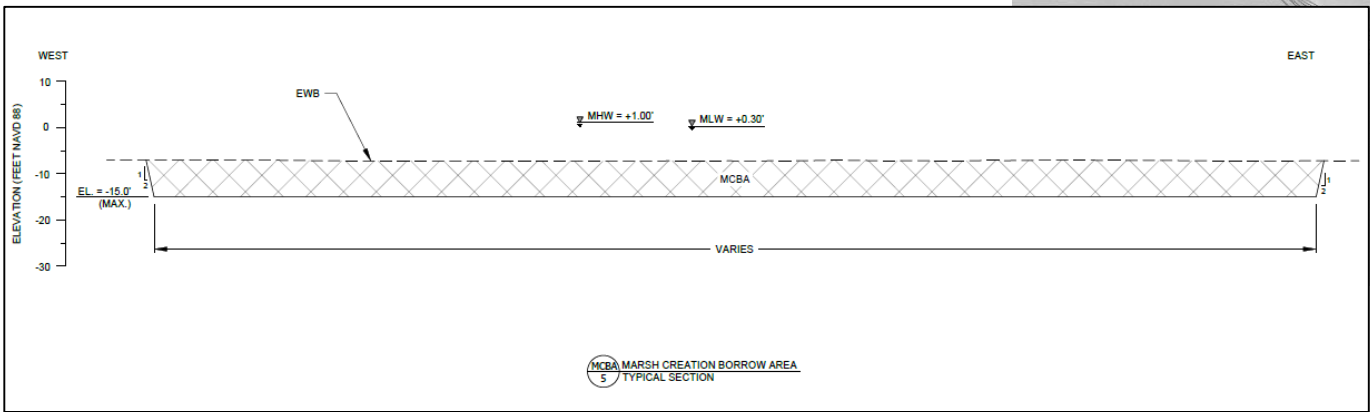
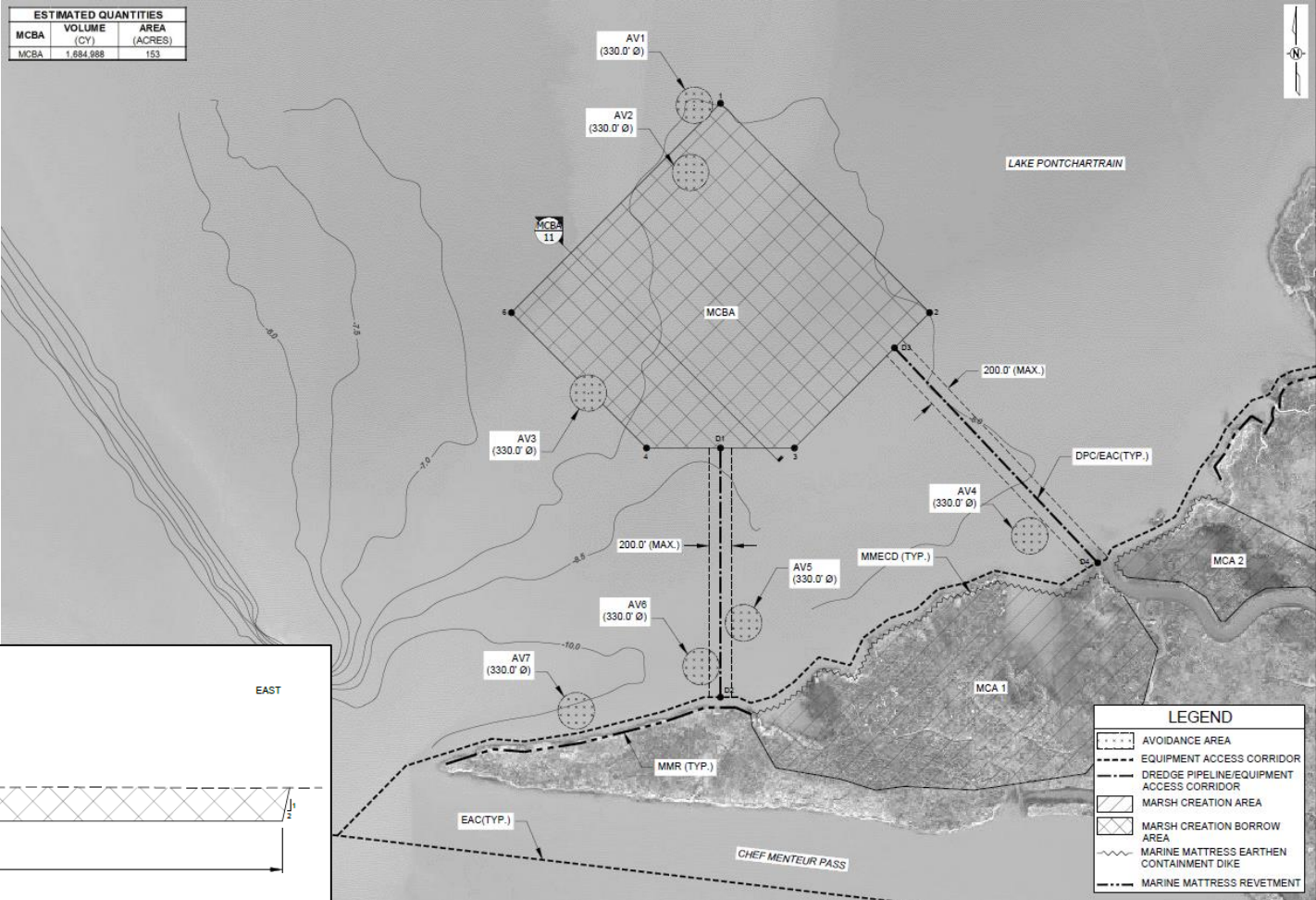
## Additional Notes:

- Cultural Avoidance Areas
- 5 Proposed Sheet Pile Gap Closures



# Borrow Area Layout and Typical Section

- Lake Pontchartrain Mixed Sediment: primarily soft clays in upper 20 ft
- 50m radius avoidance of culturally-sensitive areas
- -15 ft cut (maximum)
- ~1.7 MCY available
  - ~630,000 CY fill requirement
- Maximum pump distance 1.5 miles



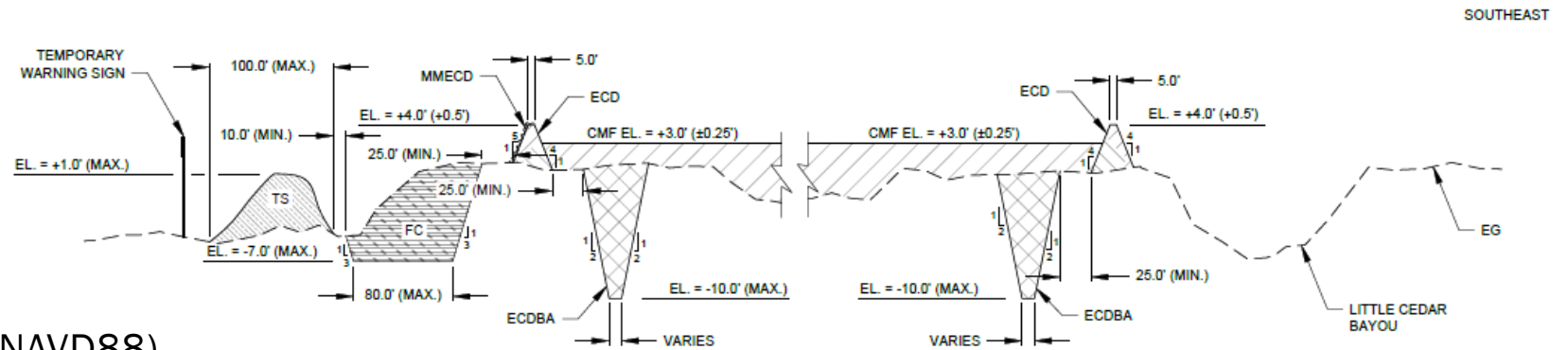
# Dredge Pipeline Corridor/Equipment Access

- No pipelines/flowlines identified
- Equipment Access to Borrow Area: Intracoastal Waterway to Chef Menteur Pass
  - No access dredging
- Dredge Pipeline Corridor
  - 2 anticipated DPCs with max pumping distance of 1.5 miles
- Flotation channel for Marine Mattress Installation
  - ~ 14,500 LF of access dredging
  - Cultural avoidance areas



# Typical Sections – ECD and Marsh Fill

- ~15,000 LF of ECD
- ECD Crown Elevation: +4.0ft (+0.5ft) (NAVD88)
- ECD Crown Width: 5 feet
- ECD Side Slopes: 5H:1V lake shore, 4H:1V otherwise



- MCA Fill Elevation: +3.0ft (±0.25ft) (NAVD88)
- Average Mudline Elevations (Approx.):
  - MCA-1: -1.7ft (NAVD88)
  - MCA-2: -1.5ft (NAVD88)

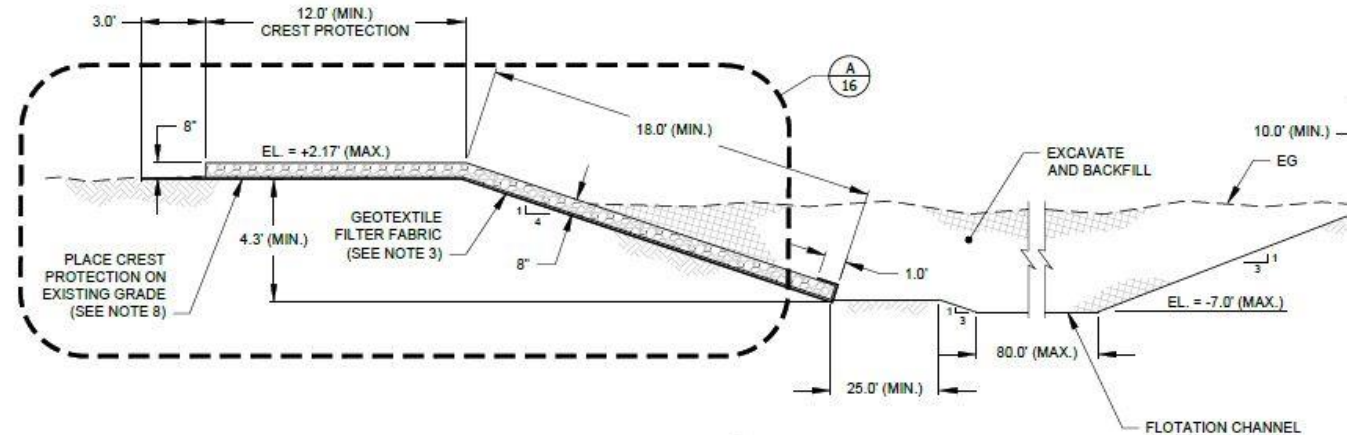
# Sheet Pile Closures and Typical Section

- Five tidal channel crossings with elevations between -3.0 and -5.0 ft (NAVD88)
- Sand berm reinforcement to an elevation of +1.0 ft (NAVD88) with 3H:1V side slopes



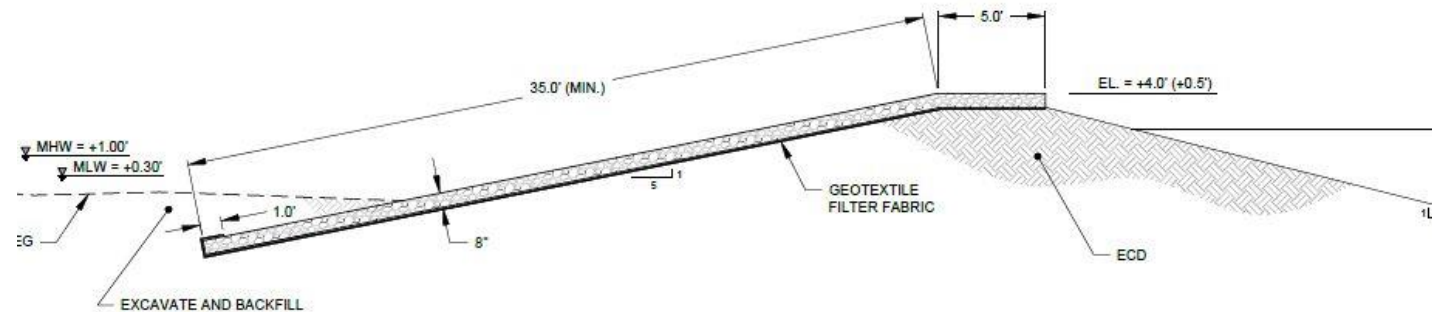
# Typical Sections – Marine Mattresses

- Shoreline Revetment Marine Mattress ~9,000 LF
  - 8-inch thickness, 30 ft long, with 12 ft placed on the shore
  - 4H:1V slope into the water, toe elevation at -3.5 ft (NAVD88)
  - Excess material after grading will be backfilled onto the toe
  - Geotextile fabric placed prior to the mattress



**Typical Marine Mattress as Shoreline Revetment.**

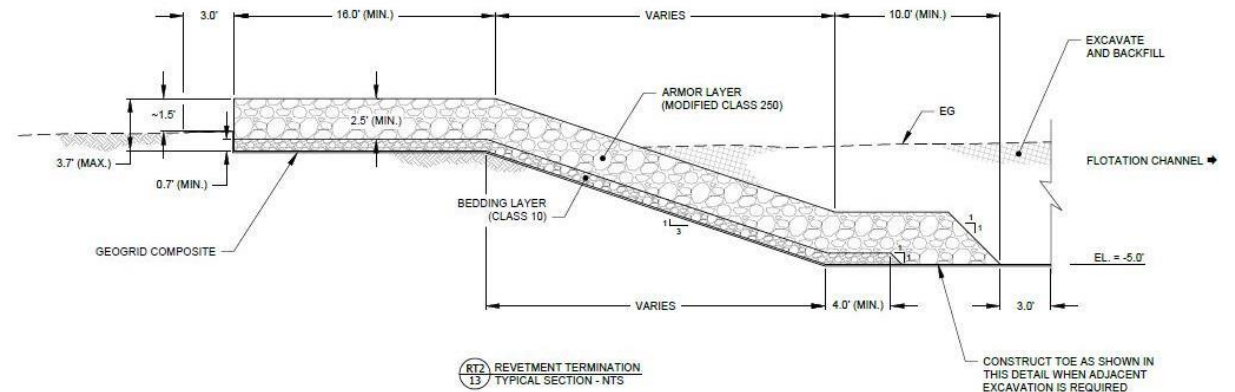
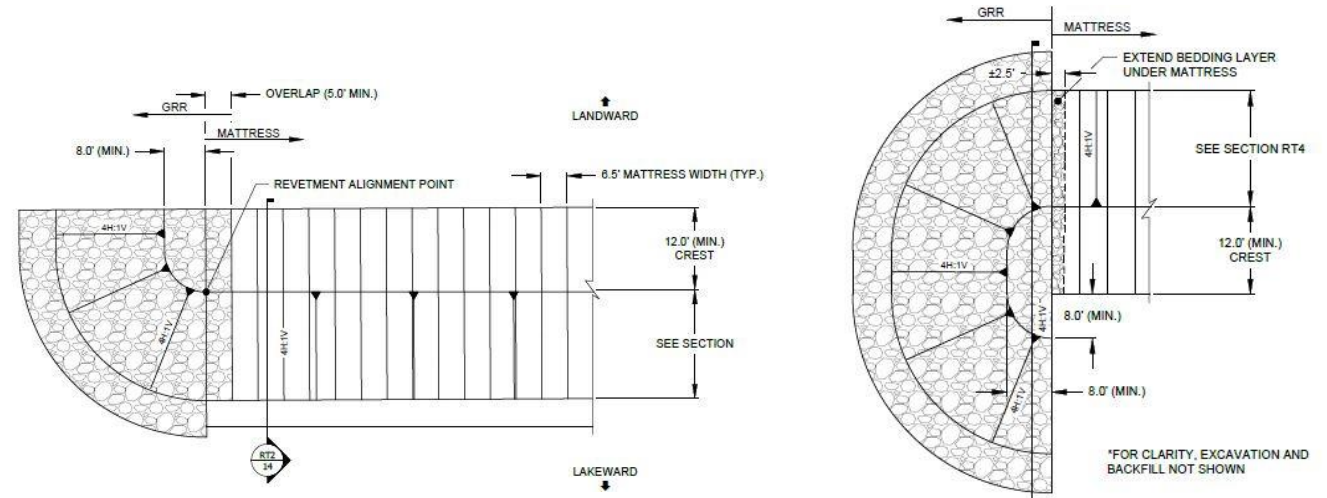
- ECD Reinforcement Marine Mattress ~5,400 LF
  - 8-inch thickness, 40 ft long, with 5 ft placed across the crown
  - Follows ECD 5H:1V slope into the water
  - Geotextile fabric placed prior to the mattress



**Typical Marine Mattress as ECD Reinforcement.**

# Typical Sections – Revetment Terminations

- Riprap Revetment Terminations provide a protective “cap” at the end of each Marine Mattress Revetment Segment
- Termination Characteristics:
  - Geogrid Composite
  - Bedding Stone Layer
  - Stone Riprap
- Cross-Sectional properties are similar to the mattress revetment



# Project Quantities

Item No.	Work or Material	Quantity	Unit
1	Mobilization or Demobilization (TS-100)	1	LUMP SUM
2	Temporary Navigation Aids (TS-150)	16	EACH
3	Surveys (TS-200)	1	LUMP SUM
4	Grade Stakes (TS-220)	14	EACH
5	Settlement Plates (TS-250)	6	EACH
6	Instrumented Settlement Plates (TS-251)	3	EACH
7	Earthen Containment Dikes (TS-300)	15,077	LINEAR FOOT
8	Sheet Pile Gap Closure (TS-310)	438	LINEAR FOOT
9	Pile Wall Sand (TS-311)	2,725	CUBIC YARD
10	Access and Flotation Channels (TS-320)	1	LUMP SUM
11	Hydraulic Dredging and Marsh Fill (TS-400)	627,488	CUBIC YARD
12	Non-Woven Geotextile Fabric (TS-600)	77,467	SQUARE YARD
13	Geogrid Composite (TS-601)	986	SQUARE YARD
14	Geogrid Marine Mattress (TS-650)	54,228	SQUARE YARD
15	Revetment Termination (TS-700)	54,228	SQUARE YARD



# Project Schedule

- Construction Funding Authorized (CWPPRA): December 2023
- Construction Permit: In progress
- Landrights/Servitude Agreements: In progress
- Anticipated Bid Advertisement: Fall 2025
- Construction Duration: Approximately 522 days

# Questions?



# Reggio Marsh Creation Project (BS-0043)

ST. BERNARD PARISH, LOUISIANA



# Project Overview

## Location:

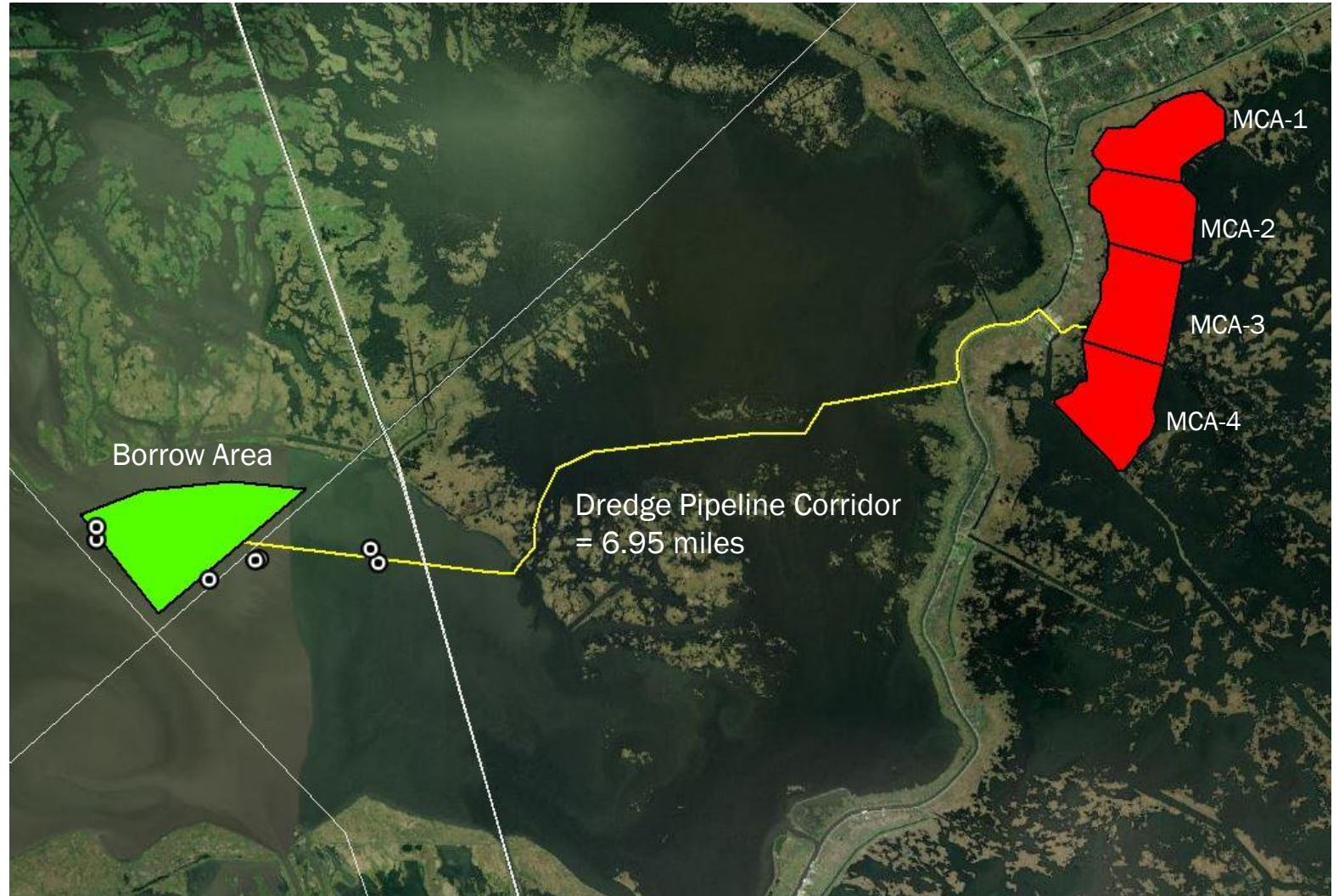
- St. Bernard Parish; 5 miles north of Delacroix

## Funding:

- CWPPRA (PPL30)
- Phase II Construction  
Funded in Jan. 2024

## Project Type:

- Marsh Creation
- 4 MCA's; 519 acres total



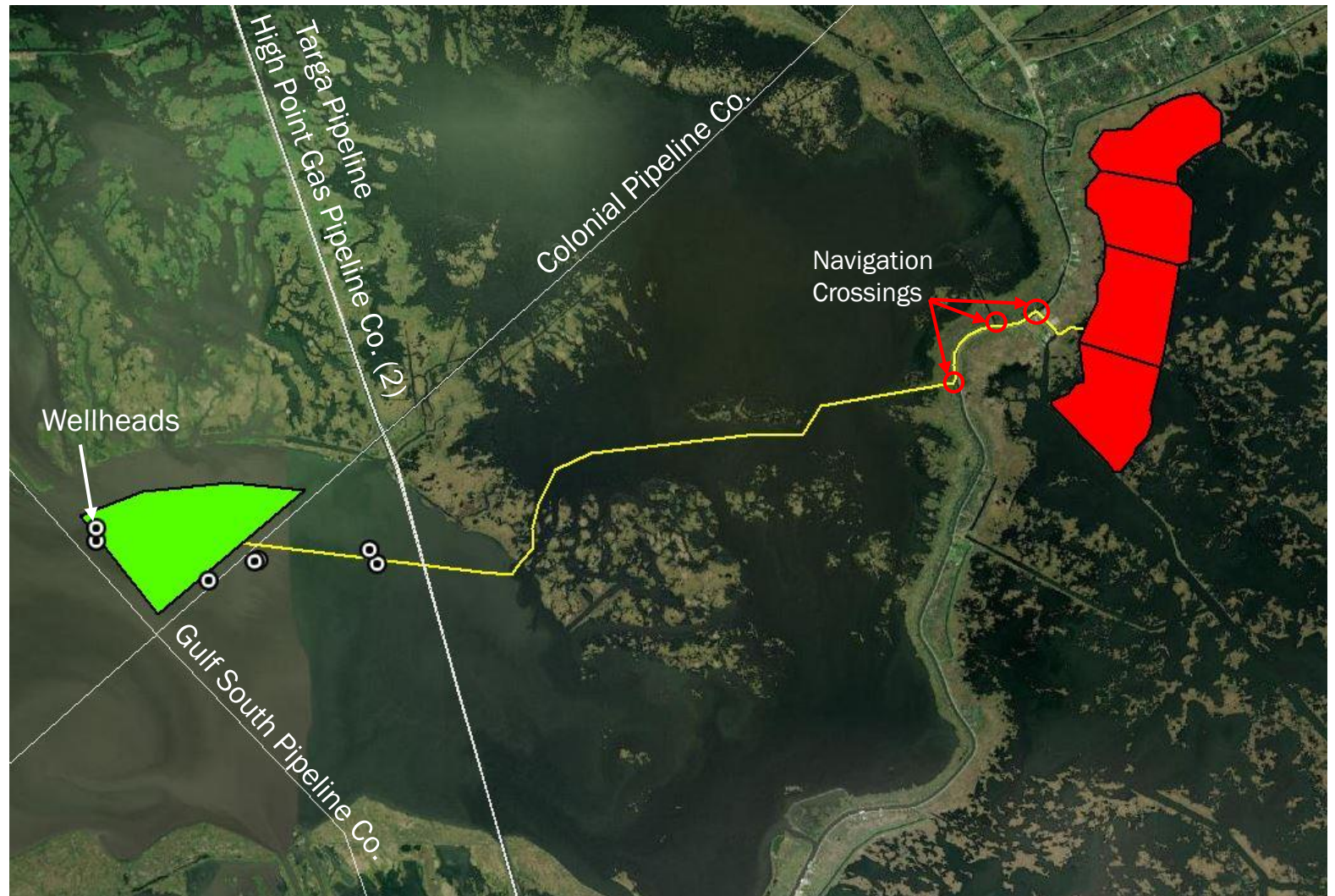
# Project Layout and Infrastructure

## Dredge Pipeline Corridor:

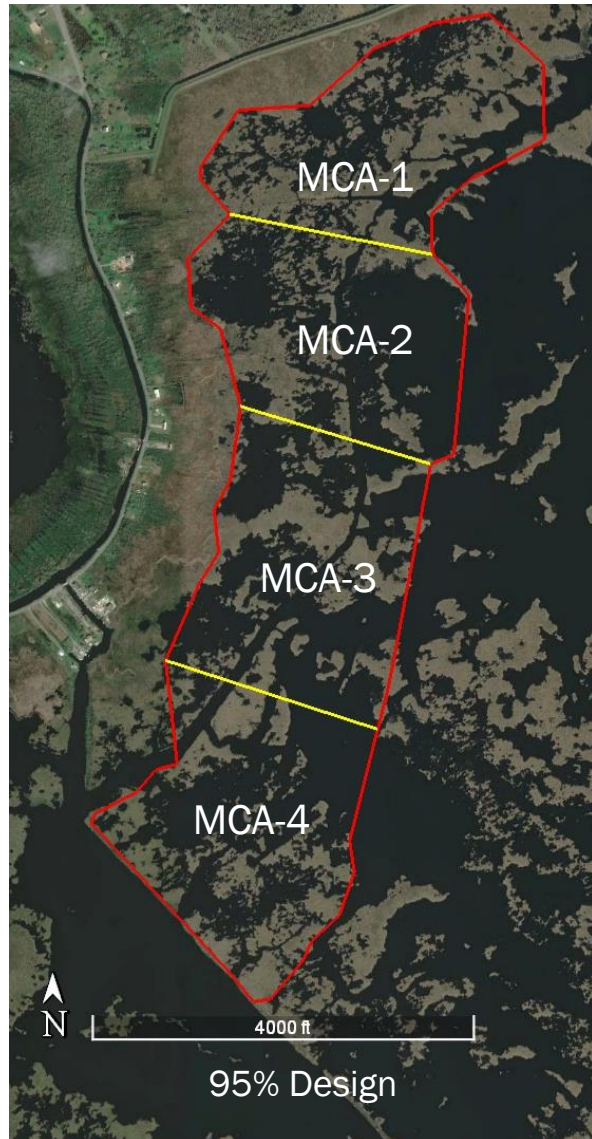
- Four (4) pipeline crossings
- Three (3) Navigation crossings
- 6.95 miles

## Borrow Area:

- Located in Lake Lery
- Three (3) wellheads to avoid



# Marsh Creation Areas



## MCA-1: 123 acres

- Avg. bottom elevation: +0.33 ft. NAVD88
- CMFE: +2.0 ft. NAVD88 (+0.5')
- Approx. 313,800 CY

## MCA-2: 123 acres

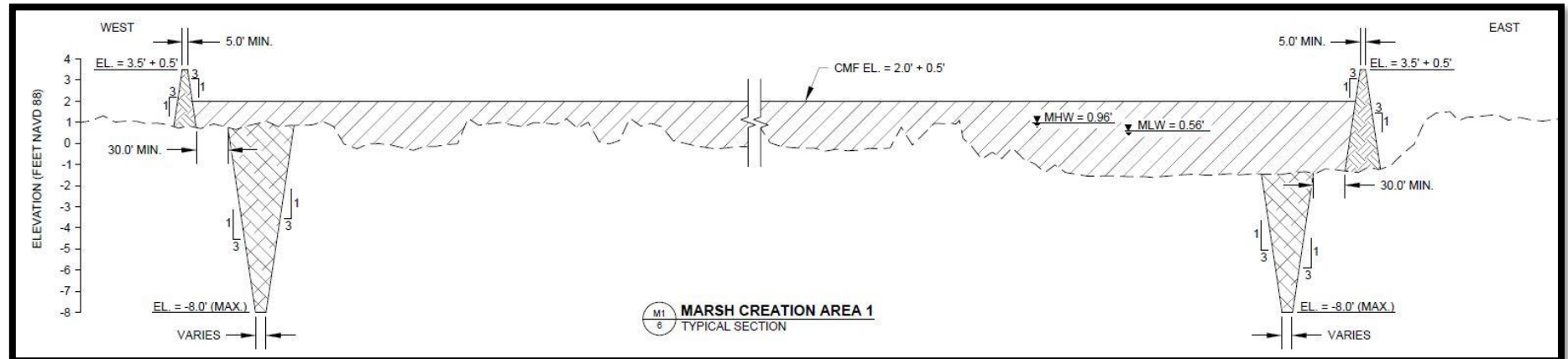
- Avg. bottom elevation: -0.59 ft. NAVD88
- CMFE: +2.0 ft. NAVD88 (+0.5')
- Approx. 534,800 CY

## MCA-3: 136 acres

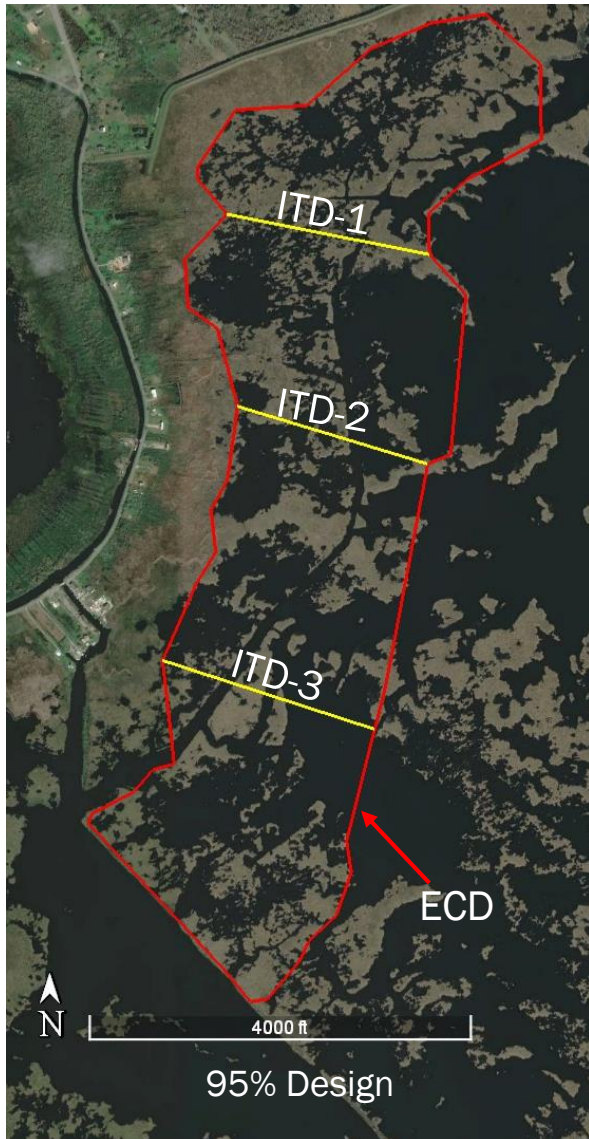
- Avg. bottom elevation: -0.46 ft. NAVD88
- CMFE: +2.0 ft. NAVD88 (+0.5')
- Approx. 594,200 CY

## MCA-4: 137 acres

- Avg. bottom elevation: -0.28 ft. NAVD88
- CMFE: +2.0 ft. NAVD88 (+0.5')
- Approx. 566,100 CY

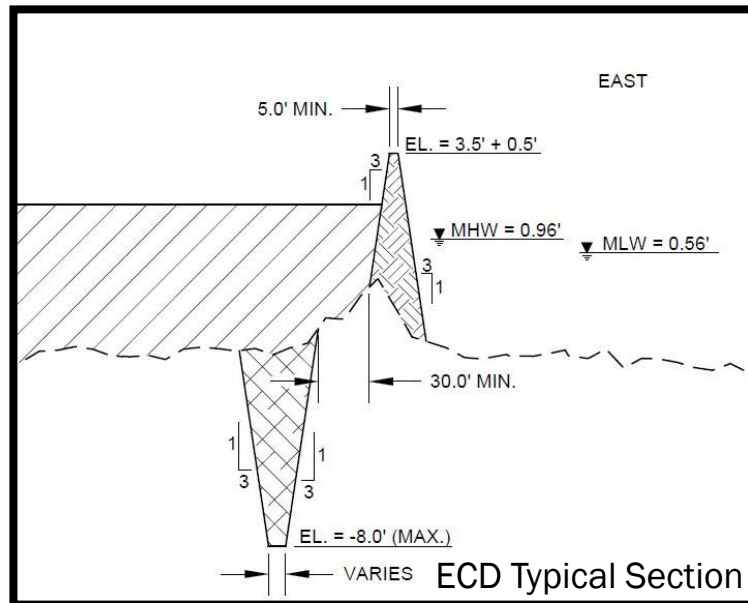


# Containment Dike Quantities



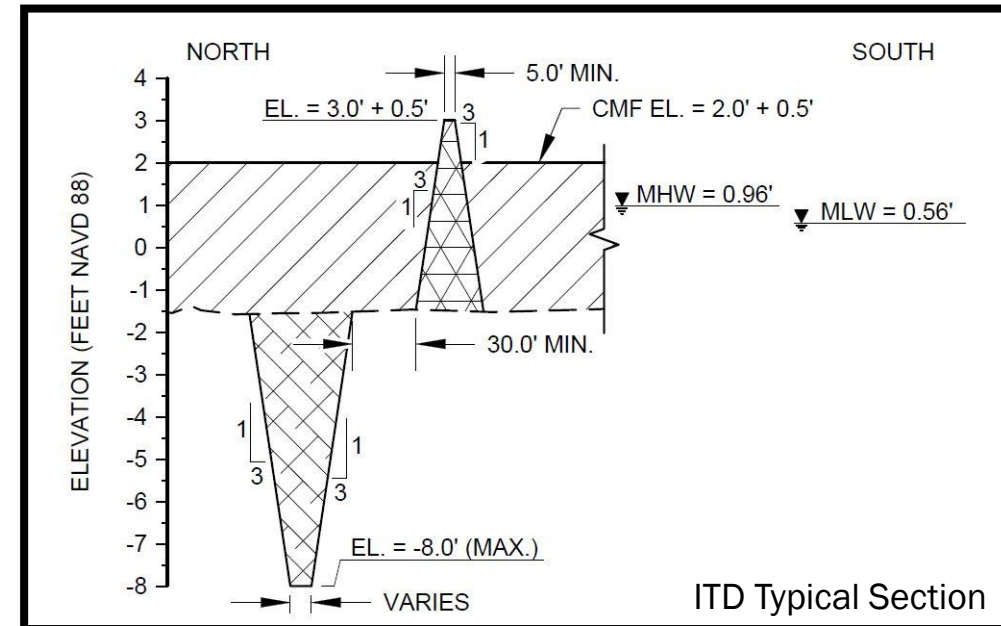
## Earthen Containment Dike:

- Stability Berm: 30'
- Crown Width: 5'
- Crown Elevation: +3.5 ft. NAVD88 (+0.5')
- Side Slopes: 1V:3H
- Total ECD: 26,145 LF; Approx. 72,900 CY
- Interior Borrow
- Some Gapping/Degrading Required After Acceptance of MCA's

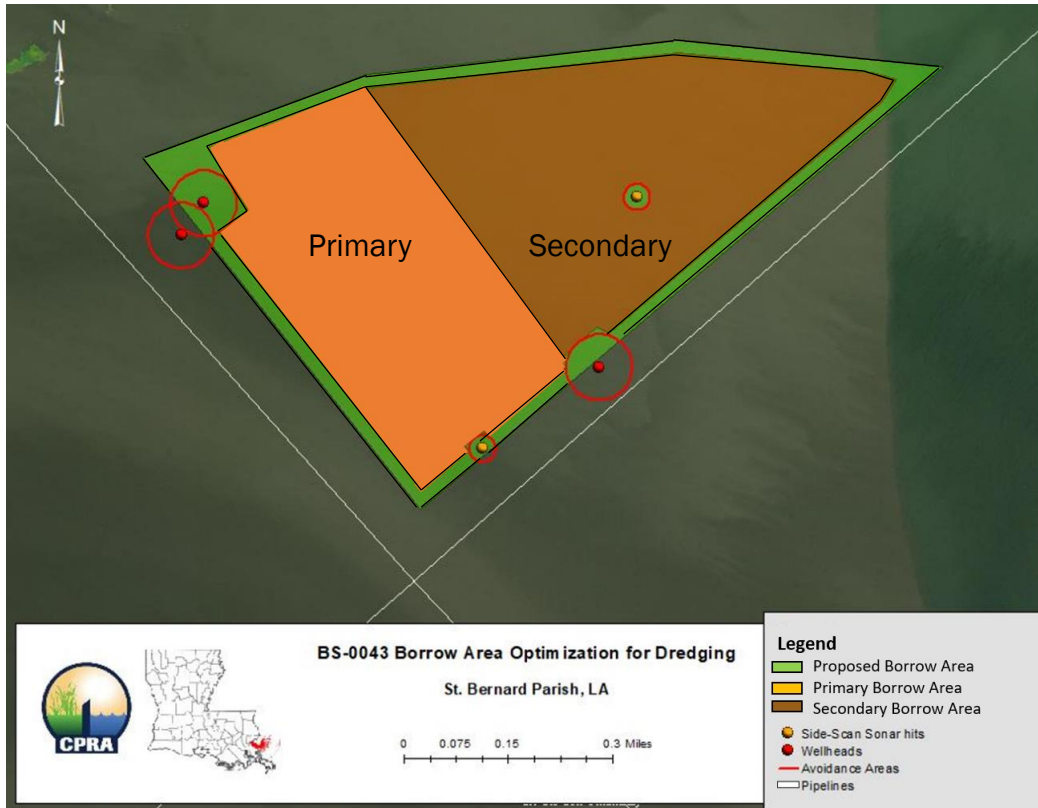


## Internal Training Dikes:

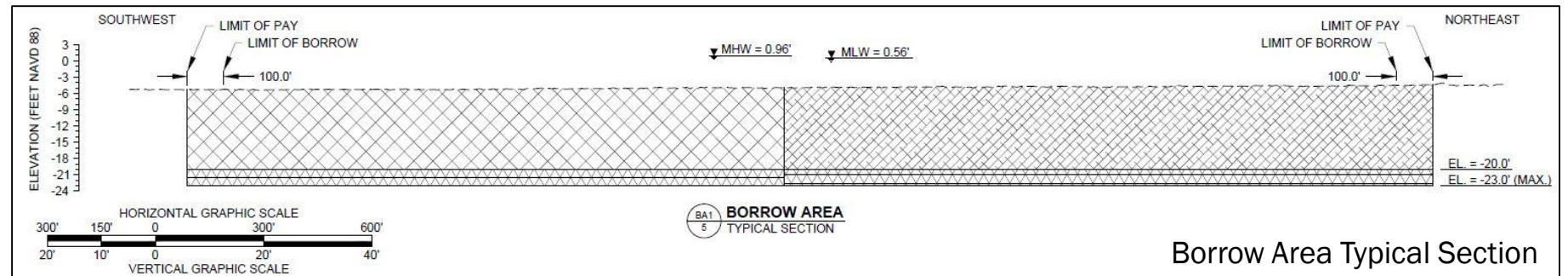
- Stability Berm: 30'
- Crown Width: 5'
- Side Slopes: 1V:3H
- Crown Elevation: +3.0 ft. NAVD88 (+0.5')
- ITD-1: 2,157 LF; Approx. 5,000 CY
- ITD-2: 2,075 LF; Approx. 4,800 CY
- ITD-3: 2,330 LF; Approx. 5,400 CY



# Borrow Area Design



- Borrow Location: Lake Lery
- Avg. Bottom Elevation = -5 ft. NAVD88
- Proposed Dredge Cut Depth = 15'
- Max. Dredge Cut Elevation = -20 ft. NAVD88
- Primary Borrow Area = 111 acres; Approx. 2,700,000 CY
- Secondary Borrow Area = 128 acres; Approx. 3,100,000 CY
  - Requires engineer approval and full exhaustion of Primary Borrow Area
- 5 Avoidance Areas
  - 3 wellheads (250' avoidance)
  - 2 unknown SSS hits (100' avoidance)
- 2 Pipelines (250' avoidance)
- Soil type: Majority Fat Clay



Borrow Area Typical Section

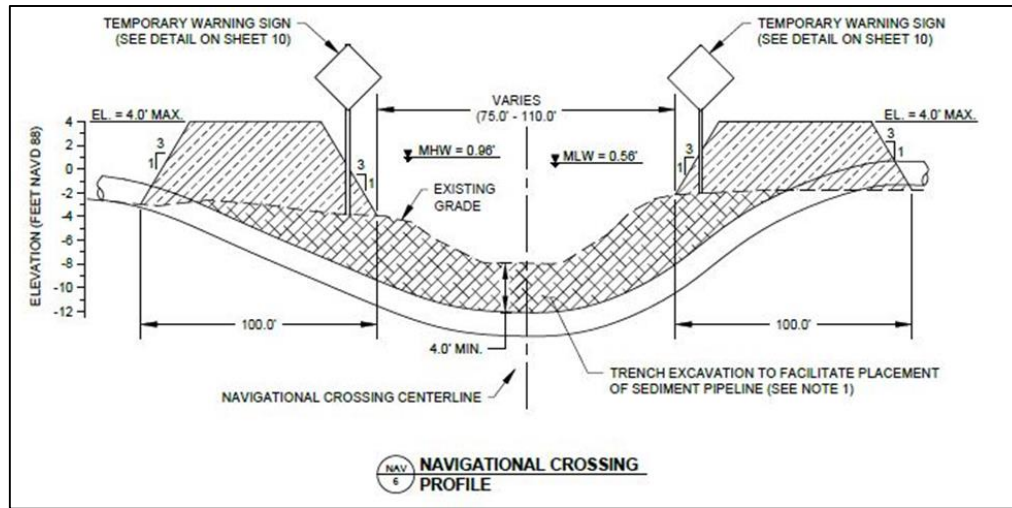
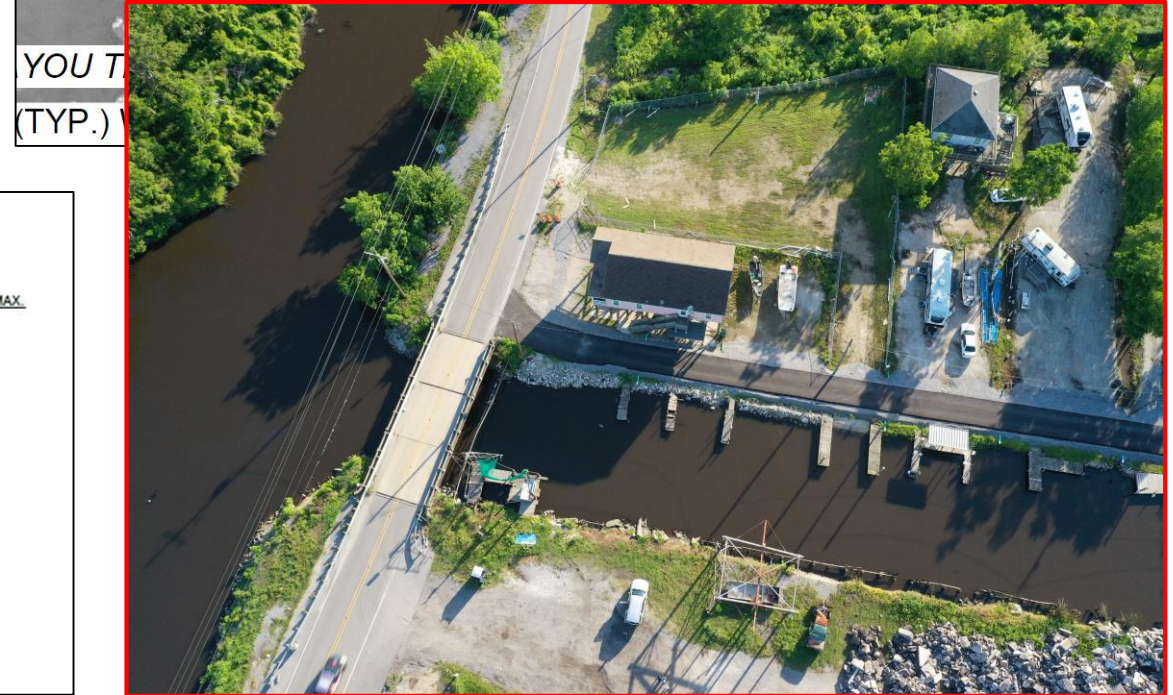
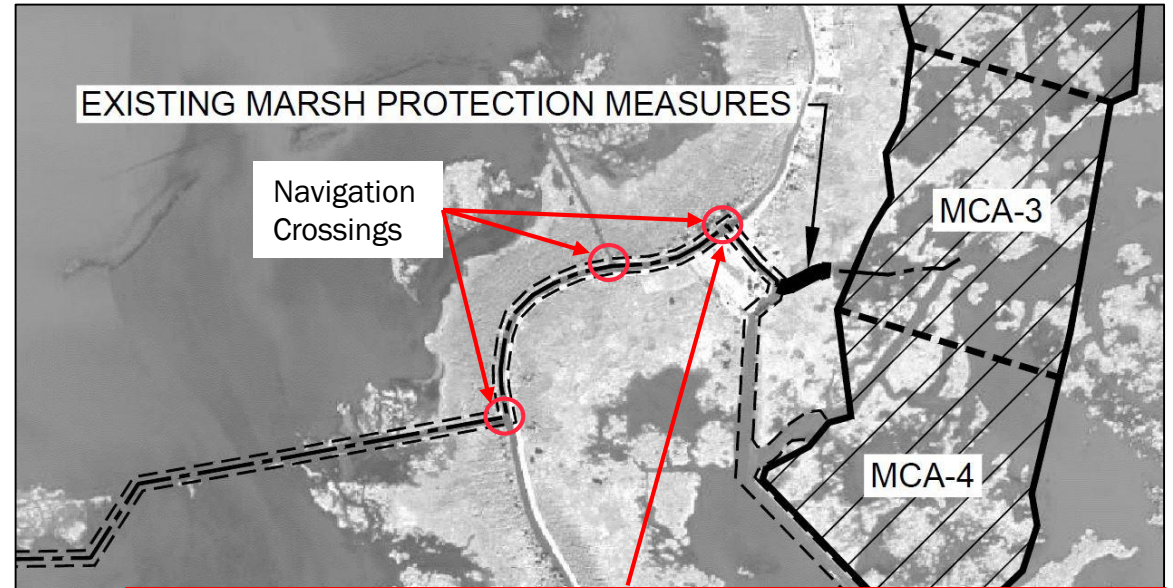


# Summary of Estimated Quantities

Item No.	Description	Unit	Estimated Quantity
1	Mobilization and Demobilization	LS	1
2	Construction Surveys	LS	1
3	Grade Stakes	EA	48
4	Settlement Plates	EA	11
5	Containment Dikes (ECD + ITD's)	CY	88,206
6	Hydraulic Dredging and Marsh Creation	CY	2,008,947

# DPC Design

- 3 navigation crossings along BTAB
- Hwy. 300 bridge
- DOTD consultation
  - Standard DOTD project permit will be required for crossing underneath the bridge
- Protective measures will be required for traversing existing marsh with the dredge pipe pipeline (300 ft. total)



Navigation Crossing  
Typical Section

# Schedule

Task	Date
Phase II Approval	Q1 2024
Anticipated Construction Permit Application	Q3 2024
Anticipated Bid Advertisement	Q3 2025
Estimated Construction Duration	554 days

# West Fourchon Marsh Creation Project (TE-0134)

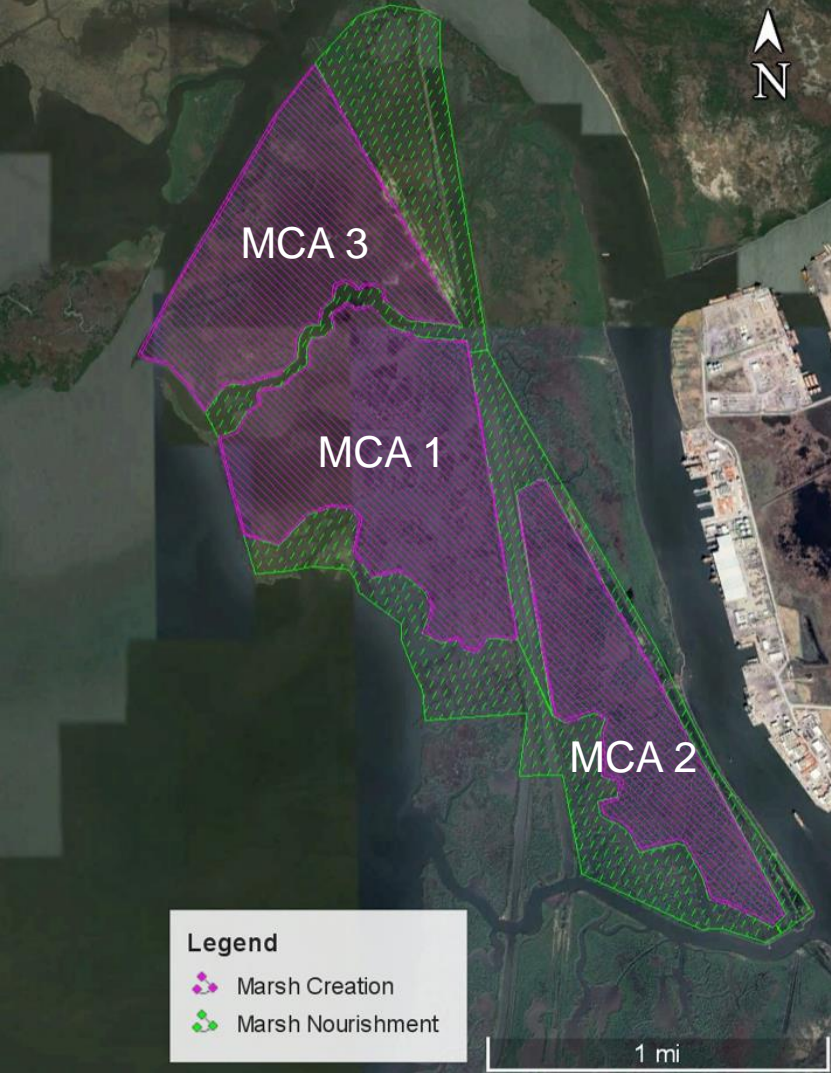
LAFOURCHE PARISH, LOUISIANA



KYLE GALLOWAY, P.E., SENIOR PROJECT MANAGER



# General Project Information



INFO	DESCRIPTION
LOCATION	Lafourche Parish, Adjacent to Port Fourchon
FUNDING	CWPPRA (PPL24): Phase 2 Construction Funded Jan. 2020
PROJECT TYPE	Marsh Creation Project
FEDERAL SPONSOR	National Oceanic and Atmospheric Administration (NOAA)



Greater Lafourche  
Port Commission



ENGINEERING LLC



# Project Layout

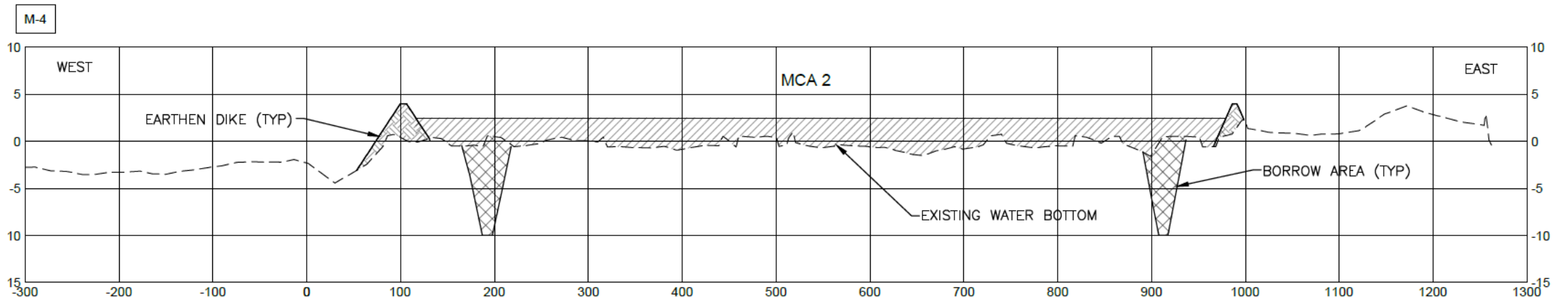
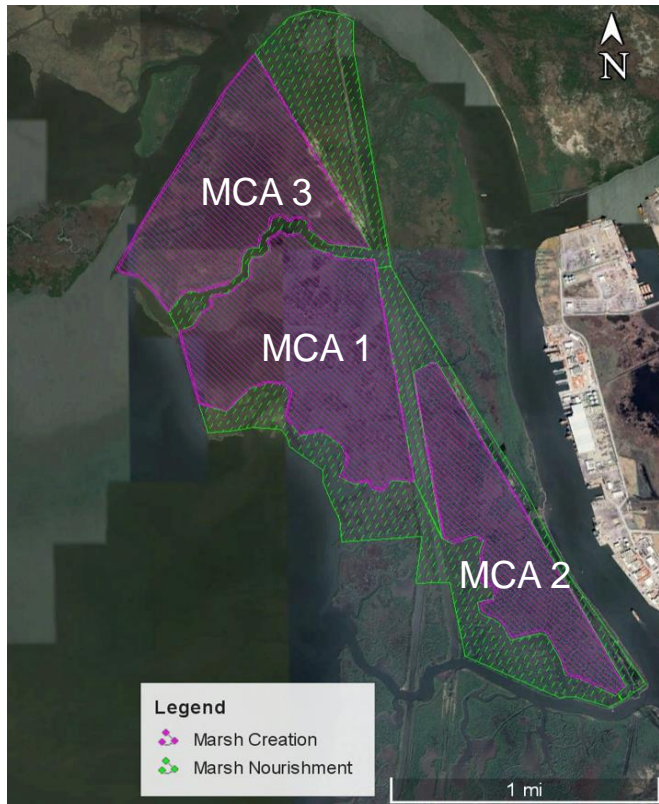
- Up to 814 Acres of Marsh Creation
- 3 Marsh Creation Areas
- Belle Pass/ Bayou Lafourche/ Inner Port Fourchon Slips Borrow
  - 3-5 Mile Average Pump Distance
  - CPRA, NOAA, GLPC are Coordinating to Finalize Project Design/Bid Package with Bayou Lafourche Borrow Source



# Marsh Creation Areas

Up to 814 Acres of Marsh Creation & 458 acres of Marsh Nourishment

- **MCA 1: 331 Acres**
  - Avg. Bottom Elevation: -0.6'
  - Construction Fill Elevation: +1.75' ± 0.25'
  - Approx. 1,268,205 CY
- **MCA 2: 206 Acres**
  - Avg. Bottom Elevation: -0.5'
  - Construction Fill Elevation: +2.25' ± 0.25'
  - Approx. 745,960 CY
- **Additional MCA (MCA 3): 277 Acres**
  - Avg. Bottom Elevation: -0.1'
  - Construction Fill Elevation: +1.60' ± 0.25'
  - Approx. 713,847 CY



# Earthen Containment Dikes

- Stability Bench: 25'
- Crown Width: 5'
- Total ECD LF: 53,740 LF
- Interior Borrow
- Some Gapping/Degrading Required After Acceptance of MCA's

## MCA 1

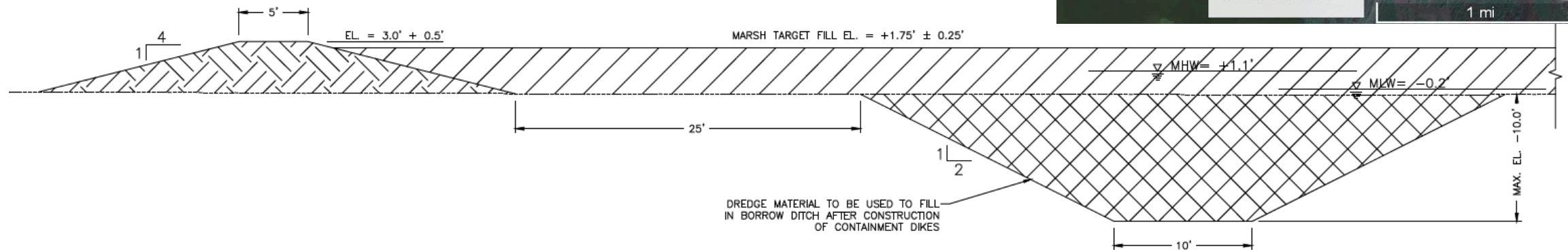
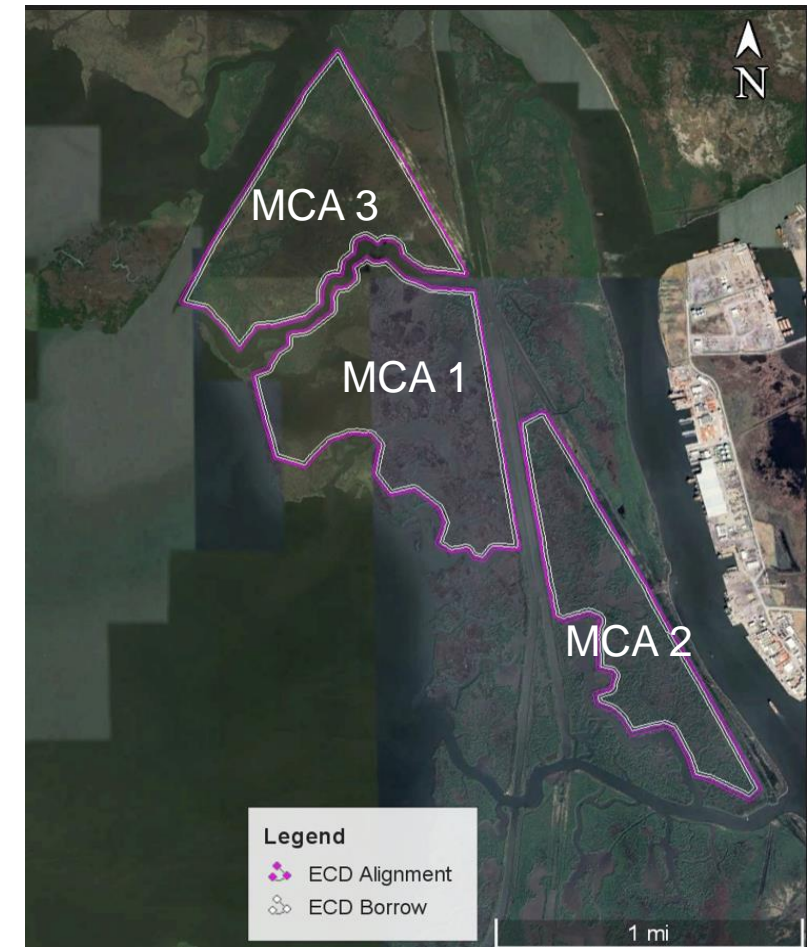
- ECD Length: 18,239 LF
- Crown Elevation: +3.0' + 0.5'
- Side Slopes: 4H:1V

## MCA 2

- ECD Length: 18,325 LF
- Crown Elevation: +4.0' + 0.5'
- Side Slopes: 4.5H:1V and 5H:1V

## Additional MCA (MCA 3)

- ECD Length: 17,176 LF
- Crown Elevation: +3.35' + 0.5'
- Side Slopes: 4.5H:1V and 5H:1V



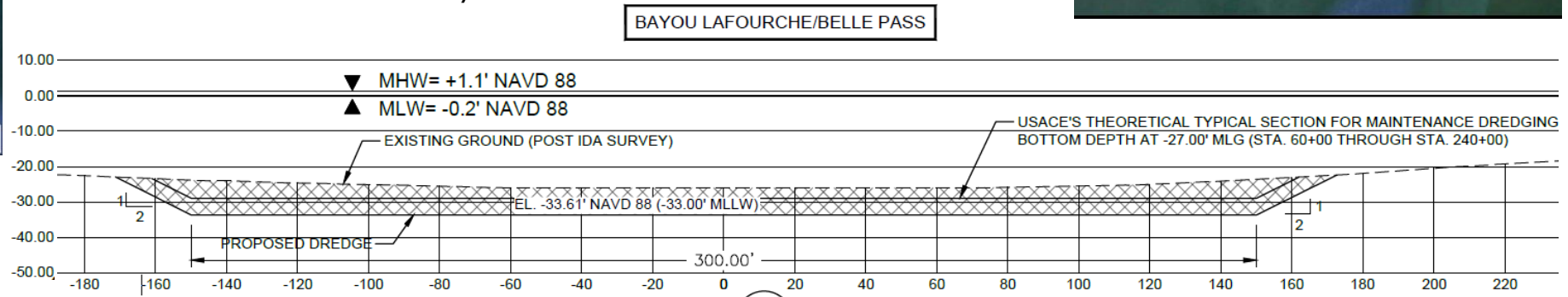
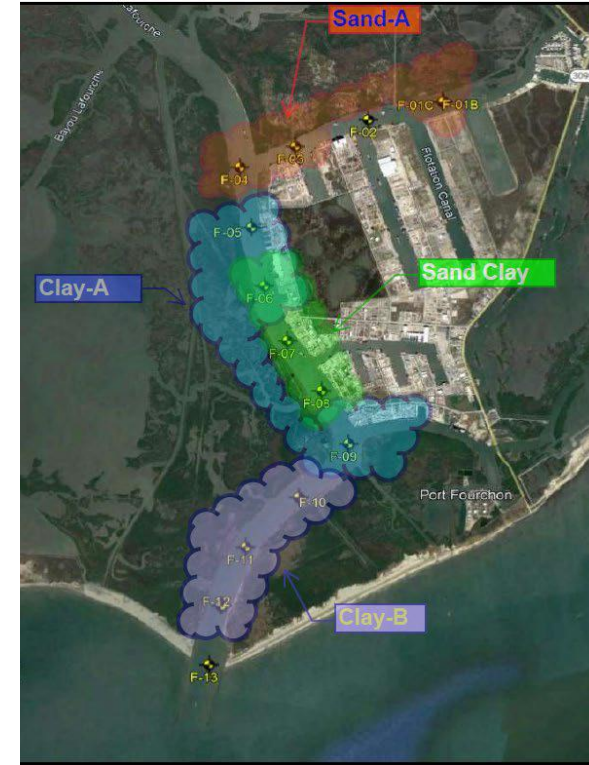
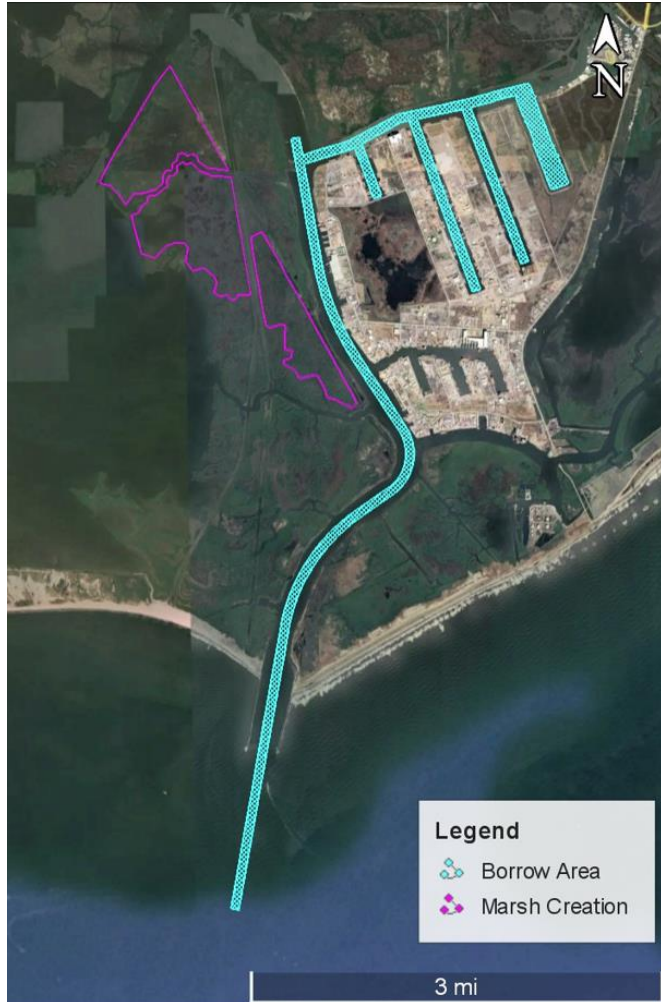
MARSH CREATION AREA 1 - TYPICAL SECTION



# Typical Section – Bayou Lafourche/Flotation

## Canal Borrow Area

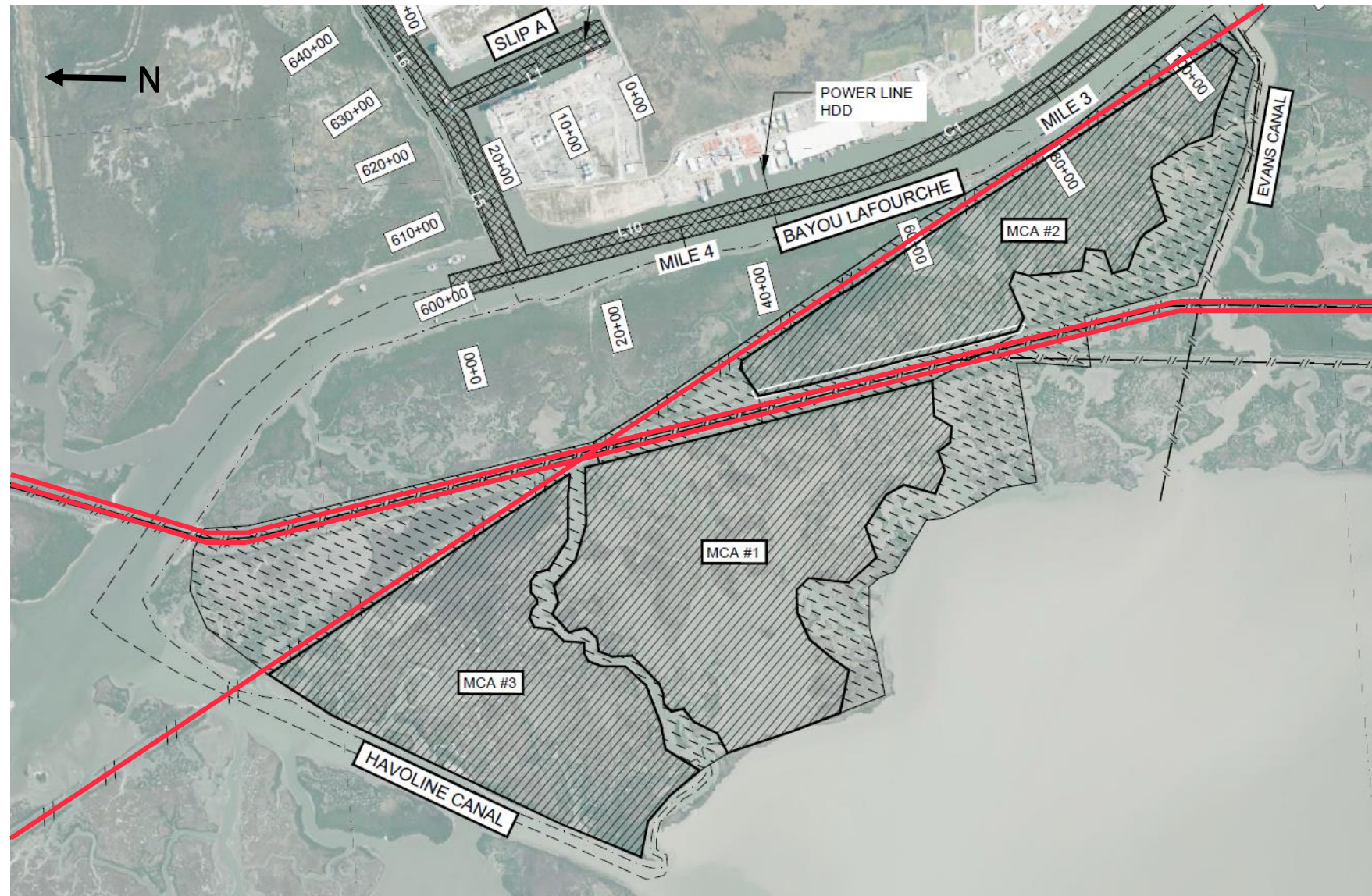
- Borrow Area includes Belle Pass, Bayou Lafourche (up to intersection with Flotation Canal), Flotation Canal, and Inner Port Slips (Slips A-D)
  - Proposed Dredging Depth -33.0' MLLW Max. (-33.61' NAVD88)
- Bayou Lafourche/Belle Pass is a USACE-Maintained Navigation Channel
  - Bottom Elev. Maintained to -24'/-26' MLLW (-27'/-30' MLLW with Advance Maintenance)
  - Recently Conditionally Authorized to increase Dredging Template to -30'/-32' MLLW with an additional 3.0'/4.0' of Advance Maintenance



# Existing Infrastructure - MCA

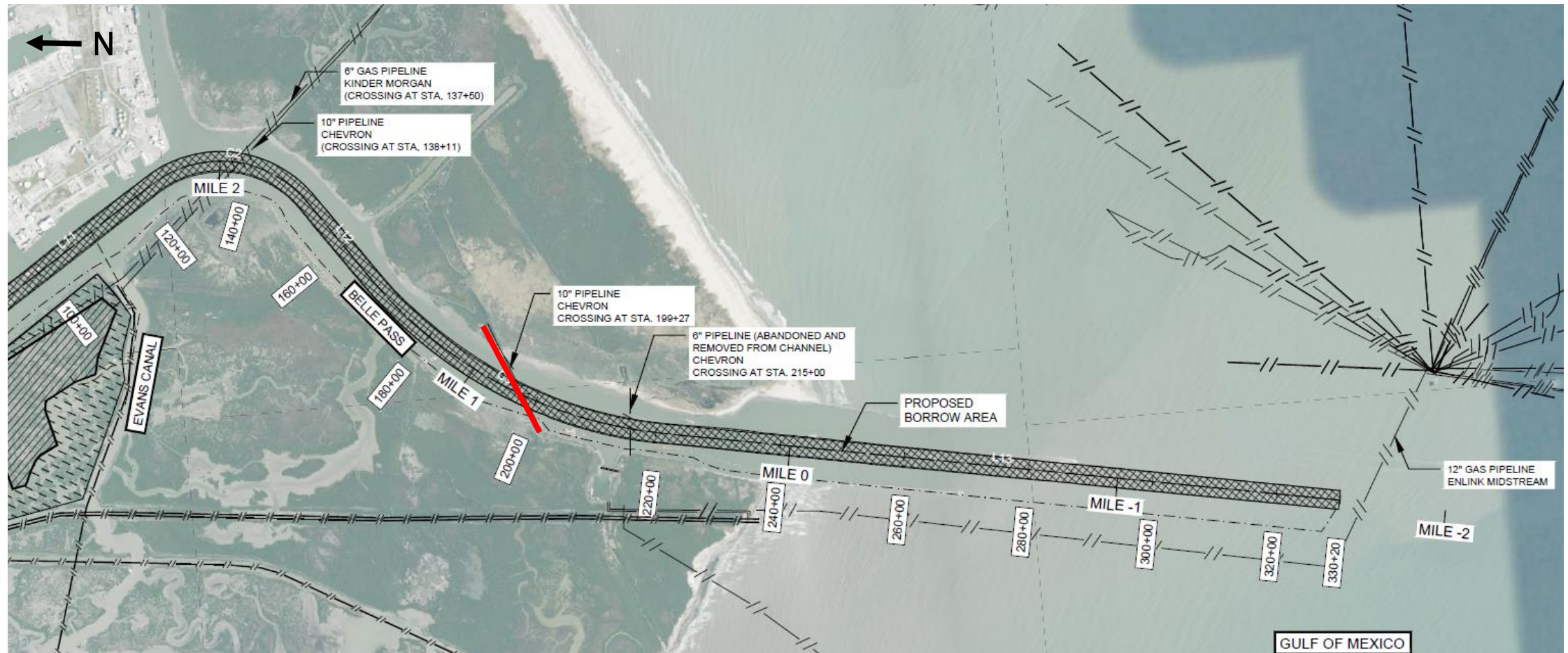
## Verified Pipelines within Marsh Creation Area Footprint

- 2 – 16" Kinetica (Active)
- 12" LIG (Active)
- 6" Kinder Morgan (Plugged and Abandoned)



# Existing Infrastructure – Borrow Area

- Four pipeline crossings
  - One removed, two non-conflicting due to depth, one conflicting (Chevron)
- No plans to relocate any pipelines for this project
- Excavation buffers planned



# Quantities

Item No.	Work or Material	Quantity	Unit
<b>Base Bid (MCA-1 and MCA-2)</b>			
1	Mobilization/Demobilization	1	LS
2	Construction Survey	1	LS
3	Settlement Plates	6	EACH
4	Earthen Containment Dikes	36,564	LF
5	Hydraulic Dredging and Marsh Fill	2,014,165	CY
<b>Bid Additive (MCA-3)</b>			
6	Construction Surveys	1	LS
7	Earthen Containment Dikes	17,176	LF
8	Hydraulic Dredging and Marsh Fill	713,847	CY

- Marsh Creation Volume based on Bayou Lafourche Borrow Material. Bid quantity is being finalized (approx. +/-10% volume change anticipated)
- Pay on the Cut
- Nesting Bird Abatement may not be Required with Bayou Lafourche Borrow Area

# Schedule

## Construction Funding Status:

- Received Jan. 2020

## Permit Status:

- CUP Received Spring 2023

## Bayou Lafourche Borrow Area Analysis:

- Completed Summer 2023

## Final Bid Package:

- Q2/Q3 2024

## Anticipated Bid Advertisement:

- Q3 2024

**\*Will be Bid by Greater Lafourche Port Commission\***

## Contract Duration:

- 450 Days

# AGENDA

## ITEM IV

### IDIQ Contracting Update

*Rudy Simoneaux, CPRA*



#### 2024 CPRA Coastal Industry Week Coastal Industry Briefing and Construction Project Forecast – CPRA Led

March 25<sup>th</sup>, 2024  
3:00pm – 4:30pm CST

*Combined In-Person and Virtual Meeting*

LaSalle Building  
LaBelle Room  
617 North Third Street  
Baton Rouge, LA 70802

Zoom URL: <https://us06web.zoom.us/j/85348112108>  
Meeting ID: 853 4811 2108  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836

- I. **Opening Remarks (3:00 pm – 3:05 pm):** *Rudy Simoneaux, CPRA*
- II. **Louisiana Workforce Commission Presentation (3:05 – 3:10):** *Lisa Williams, LWC*
- III. **Upcoming Projects to be Bid for Construction (3:10 pm – 4:20 pm)**
  - a. BS-0038 Breton Landbridge Marsh Creation West: *Alex Holston, CPRA*
  - b. BS-0037 East Delacroix Marsh Creation and Terracing: *Alex Holston, CPRA*
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- ★ IV. **IDIQ Contracting Update (4:20 pm – 4:30 pm):** *Rudy Simoneaux, CPRA*
- V. **Additional Questions and Discussion**
- VI. **Adjourn**

# IDIQ Contracting Update

RUDY SIMONEAUX, ENGINEERING DIVISION CHIEF



# Primary Contract Types

Professional services

Consulting services

Construction



# Professional Services IDIQ Contracts

## Engineering, Geotechnical, Surveying Services

- Typically acquired through Request for Solicitation of Interest and Qualifications (RSIQ)/Request for Qualifications (RFQ)
- Can be awarded to one or more firms
- May be project-specific or for Indefinite Delivery / Indefinite Quantity (IDIQ) contracts (retainers).
- 3-year term max (currently have staggered start/end contract times)

# Professional Services IDIQ Contracts

## Engineering, Geotechnical, Surveying Services

- All data collection efforts (surveying, geotechnical) contracted through IDIQ Task Orders
- Most engineering/design related work contracted through IDIQ Task Orders
- Large-scale design efforts may involve project-specific solicitations and contracts instead of IDIQ (i.e., diversion design contracts)

# Professional Services IDIQ Contracts

## Current IDIQ Quantity and Value (Jan. 2023 – Dec. 2025)

- 21 Engineering Contracts
  - 16 General Engineering Services (\$2M)
  - 5 Coastal Engineering Services (\$2M)
  - 6 Limited Engineering Services (\$1M)
- 7 Geotechnical Services (\$1.5M)
- 8 Surveying (\$1M)
- Next Solicitation: Mid 2025

# Professional Services IDIQ Contracts

## Summary of Current Usage (since January 2023):

- Engineering Services (General, Coastal, Limited):
  - Total Contract Capacity - \$57,000,000
  - Total Amount Tasked - \$16,714,900
  - Capacity Used - 29%
- Geotechnical Services:
  - Total Contract Value - \$10,500,000
  - Total Amount Tasked - \$2,008,456
  - Capacity Used - 19%
- Surveying:
  - Total Contract Value - \$9,000,000
  - Total Amount Tasked - \$3,404,929
  - Capacity Used - 38%

**MONTHLY TASK  
ORDER  
COMMITMENT :  
\$1.5M**

# Consulting Services IDIQ Contracts

## Environmental, Science, Planning

- Project Specific or Indefinite Delivery/Indefinite Quantity (IDIQ)
- Acquired through Request for Proposals (RFP); includes cost as a factor in the scoring of a proposal
- 3-year term, 3 year solicitation schedule (some have staggered start and end dates)

# Consulting Services IDIQ Contracts

## Environmental, Science, Planning

- 10 current IDIQ contracts
- Contract Value: \$3M each
- Term: Spring/Summer 2022 – Spring/Summer 2025
- Next Solicitation: Fall 2024
- Summary of Current Usage:
  - Total Contract Value - \$36,000,000
  - Total Amount Tasked - \$10,448,859
  - Capacity Used – 29%

# CPRA Construction Cost/Bid Trends

- Public Works agencies have seen increased construction costs since the Q1 of 2022
  - Supply chain issues
  - Volatility in construction material prices
  - Labor shortages
  - Spike in fuel prices
  - High volume of public works project bids/options for contractors
- Some improvements since Q4 2022; still higher than price levels of 2021 and before
- Bid/prices on longer contracts still account for risk of price volatility; especially projects involving materials such as steel, cement, asphalt, etc.

# CPRA Construction Cost/Bid Trends

## CPRA Bidding Summary (Q1 2022 – Present):

- Bids Opened:	17 Projects
- Average # of Bidders:	4
- Project Bids with 3 or less Bidders:	9
- Total Project Bids (low bid):	\$229,400,453.87
- Total of Engineers' Estimates:	\$194,132,531.67
- % Difference:	18%
- Total Deficit:	\$35,267,922.20
- Un-awarded Bids:	2 Projects



# CPRA Construction Cost/Bid Trends

## CPRA Bidding Summary (Q1 2023 – Present):

- Bids Opened:	8 Projects
- Average # of Bidders:	4
- Project Bids with 3 or less Bidders:	5
- Total Project Bids (low bid):	\$67,290,324.00
- Total of Engineers' Estimates:	\$65,913,169.13
- % Difference:	2%
- Total Deficit:	\$1,377,154.87
- Un-awarded Bids:	1 Projects

# CPRA Construction Cost/Bid Trends

## CPRA Actions:

- Reduce project footprint/eliminate project features/value engineering
- Seek additional funds
- Alternate Bid Items (optional award)
- Reject bids
- Identify/Mitigate Risks

# How to Find Solicitations and Bids

CPRA HOMEPAGE: <https://coastal.la.gov/>

The screenshot shows the CPRA homepage layout. At the top is a blue header with the CPRA logo and name, and a grey navigation bar with links: About CPRA, What's At Stake, Our Plan, Our Work, Press Releases, Resources, and Calendar. Below this is a large dark blue banner with white text and icons for success statistics. A red arrow points to the 'RFPs, RSIQs - Contracts' icon in the bottom navigation bar.

**Coastal Protection and Restoration Authority**

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[f](#) [t](#) [i](#) [in](#)

About CPRA   What's At Stake   Our Plan   Our Work   Press Releases   Resources   Calendar

**OUR SUCCESS** SINCE 2007

- \$21.4 BILLION** SECURED FOR PROJECTS IN 20 PARISHES
- 48,894** ACRES OF LAND BENEFITED
- 60 MILES CONSTRUCTED** OF BARRIER ISLANDS & BERMS
- 157 MILLION** CUBIC YARDS OF FILL UTILIZED
- 120** ACTIVE PROJECTS
- 336** MILES OF LEVEE IMPROVEMENTS

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**Press Releases**  
Gov. Edwards Breaks Ground on HNC Lock Complex, Announces Completion of Grand Bayou Floodgate  
*November 8, 2021*

**CIMS**  
Coastal Information Management System

**RFPs, RSIQs - Contracts**

**Coastal Master Plan**

**In the News**  
Gov. John Bel Edwards helps mark two local storm-protection milestones  
*November 8, 2021*

# How to Find Solicitations and Bids

The screenshot shows the CPRA website header with the logo and navigation menu. The main content area is titled 'RFPs, RSIQs - Contracts' and includes a sidebar with various resource categories. The main text provides information about upcoming projects and offers links for registration and services.

**Coastal Protection and Restoration Authority**

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About CPRA What's At Stake Our Plan Our Work Press Releases Resources Calendar

Educational Resources  
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**RFPs, RSIQs - Contracts**  
Hotlist  
Process & Procedures  
Archives

- Bids
- Professional and Consulting Services

Contracts & Procurement  
Professional & Consulting Services  
Public Records Request  
Human Resources

## RFPs, RSIQs - Contracts

As we continue our efforts to protect and restore coastal Louisiana, additional help will be needed. Information about upcoming projects, advertisements for contracts, grants and bids, and additional resources for potential vendors can be found in this section.

If you are having difficulty downloading documents please try using Google Chrome

[Contracts & Procurement](#) [Professional & Consulting Services](#)

[Click here for information on how to register as a CPRA vendor](#)  
[Click here for information on CPRA Contracted Services](#)  
[Click here for Visitor Parking Map](#)

# AGENDA

## ITEM V

### Additional Questions and Discussion




**2024 CPRA Coastal Industry Week**  
**Coastal Industry Briefing and Construction Project Forecast – CPRA Led**

March 25<sup>th</sup>, 2024  
 3:00pm – 4:30pm CST

*Combined In-Person and Virtual Meeting*

LaSalle Building  
 LaBelle Room  
 617 North Third Street  
 Baton Rouge, LA 70802

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**CONNECT WITH US!**



***@LOUISIANACPRA***

