

**ADDENDUM 1 TO BID DOCUMENTS FOR THE
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT
(BA-0240)
PLAQUEMINES PARISH, LOUISIANA**



**STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY**

May 16, 2022

**ADDENDUM 1 TO BID DOCUMENTS
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT
(BA-0240)**

The interpretations, corrections, or changes in this addendum supersede the requirements in the Bid Documents dated March 2022 and stamped and sealed by the Engineer of Record on March 25, 2022.

Bidders shall acknowledge receipt of this addendum in the Louisiana Public Work Bid Form.

I. Other:

See Attachment A for a copy of the Pre-Bid Meeting PowerPoint presentation.

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ATTACHMENT A

Grande Cheniere Ridge Marsh Creation Project

(BA-0240)

NON-MANDATORY PRE-BID CONFERENCE

ADAM D. LINSON, P.E.

TYE FITZGERALD, P.E.

RUSS J. JOFFRION, P.E.

BARRY RICHARD, P.E.

JOANNE TRIBOU, E.I.



Virtual Meeting Process

Meeting audio may be access through your computer/device. If your computer/device does not have audio, meeting audio can be access via phone with the following call-in information:

Conference Line Phone Number: USA (213) 270-2124

Access Number: 707334

- This meeting is being recorded.
- All participants are to state their name and organization using the chat function.
- Attendees will be muted until the end of the presentation, which will be followed by an informational Q&A period.
- Questions may be entered by using the chat function during the presentation; unofficial responses will be provided when possible.
- Any questions submitted during this meeting will be considered unofficial.
- To request a formal response, questions must be submitted in writing, by the stated deadline, to:

cpra.bidding@la.gov
- In the event of technical issues, attendees are to log out and back in.

Introductions

ADAM D. LINSON, P.E., ENGINEER OF RECORD

RUSS J. JOFFRION, P.E., ENGINEER OF RECORD

TYE FITZGERALD, P.E., PROJECT MANAGER

BARRY RICHARD, P.E., CONSTRUCTION MANAGER

JOANNE TRIBOU, E.I, PROJECT ENGINEER

MATT MELTON, P.E., PROJECT ENGINEER

Project Purpose

The Bayou Grande Cheniere Marsh Creation Project is part of a larger land bridge restoration strategy in the Barataria Basin. The goal of this project is to:

1. Create/restore up to 488 acres of marsh
2. Create 4,400 linear feet of earthen ridge

Funded by NRDA with money from DWH Oil Spill. DOI is the lead federal agency for the Trustee Implementation Group (TIG).

Overview

- Bid Documents and Bid Process
- Project Overview and Background
- Construction Overview (Plans and Specifications)
- Summary
- Closing

Bidding Documents and Bid Process



Review of Existing Data

BIDDING DOCUMENTS AND ADDENDA, AND BIDDER QUESTIONS

- Complete bidding documents and addenda are available for download on the Louisiana Coastal Protection and Restoration Authority website at:

<https://coastal.la.gov/resources/rfps-rsiqs-contracts/bids/>

- Please submit questions regarding the bid by **May 19th at 2:00pm** in writing to:

cpra.bidding@la.gov

- All verbal responses given at this conference will not be binding.

Review of Existing Data

BID OPENING

BIDS ARE DUE BY 2:00PM ON JUNE 1ST, 2022, UNLESS MODIFIED BY ADDENDUM.

Hand Delivery

Coastal Protection and Restoration Authority
150 Terrace Avenue
Baton Rouge, LA 70802

Registered or Certified Delivery

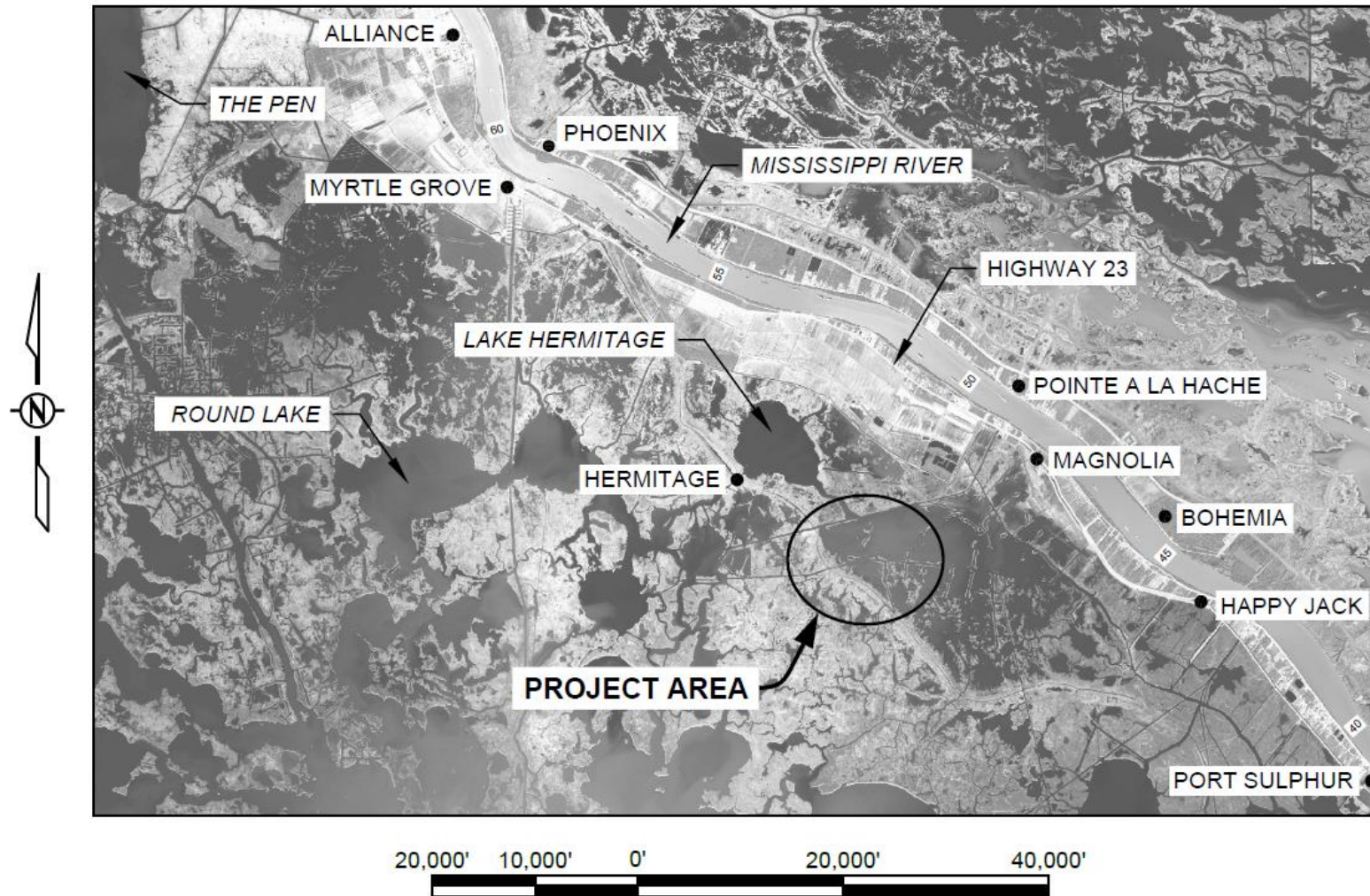
Coastal Protection and Restoration Authority
P.O. Box 44027
Baton Rouge, LA 70804-4027

Project Overview and Background



Project Overview and Background

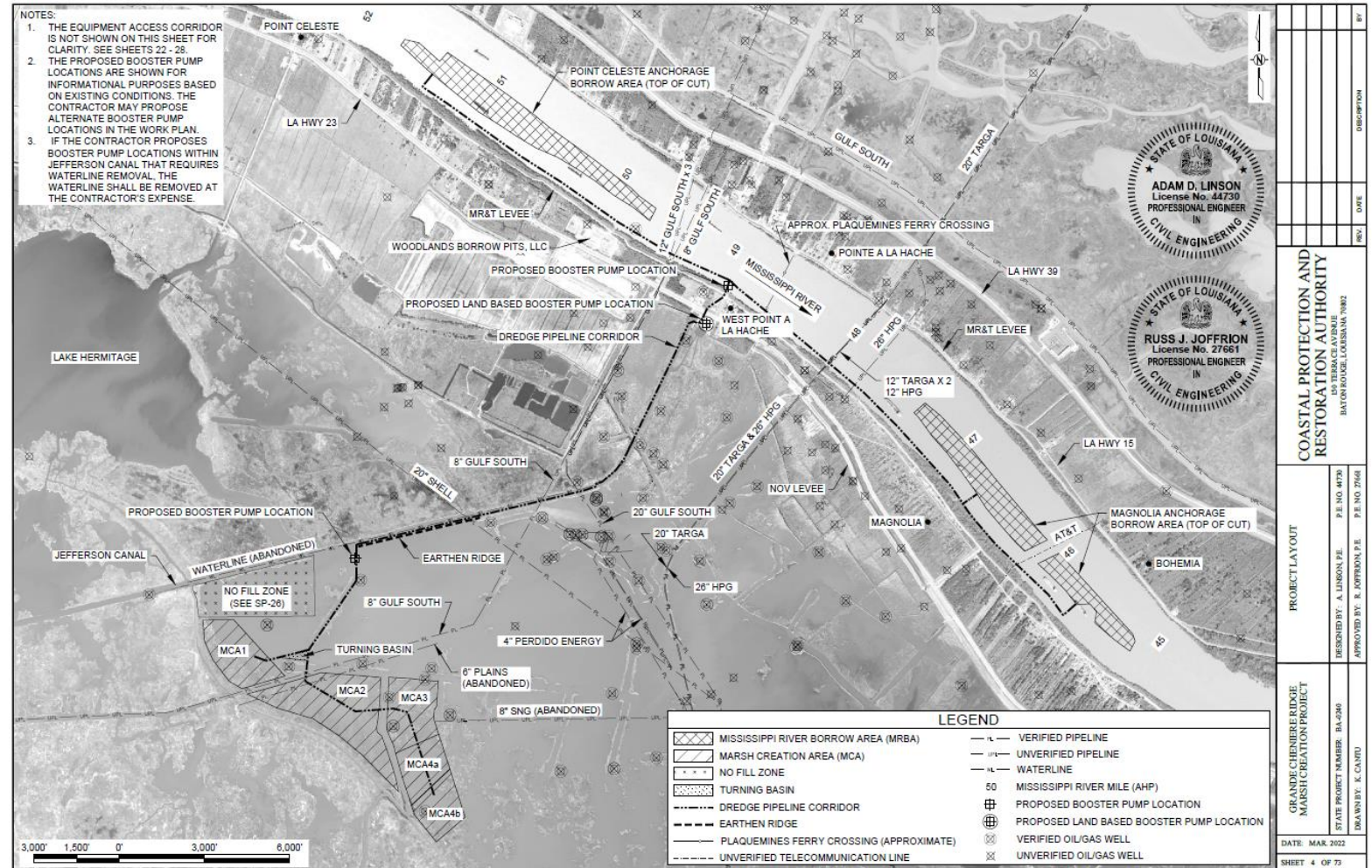
VICINITY MAP



Project Overview and Background

PROJECT LAYOUT – OVERVIEW

- Bid Schedule is separated into Base Bid, Alternate 1, and Alternate 2.
- Five (5) total marsh creation areas:
 - Three (3) in the base Bid (MCA-1, MCA-2, & MCA-3)
 - One (1) in Alternate 1 (MCA-4a)
 - One (1) in Alternate 2 (MCA-4b)
- All marsh creation area are fully contained by earthen containment dikes.
- Earthen Ridge Feature (Base Bid).
- Two (2) permitted borrow areas:
 - Point Celeste Anchorage (RM 50-52)
 - Magnolia Anchorage (RM 45-48)



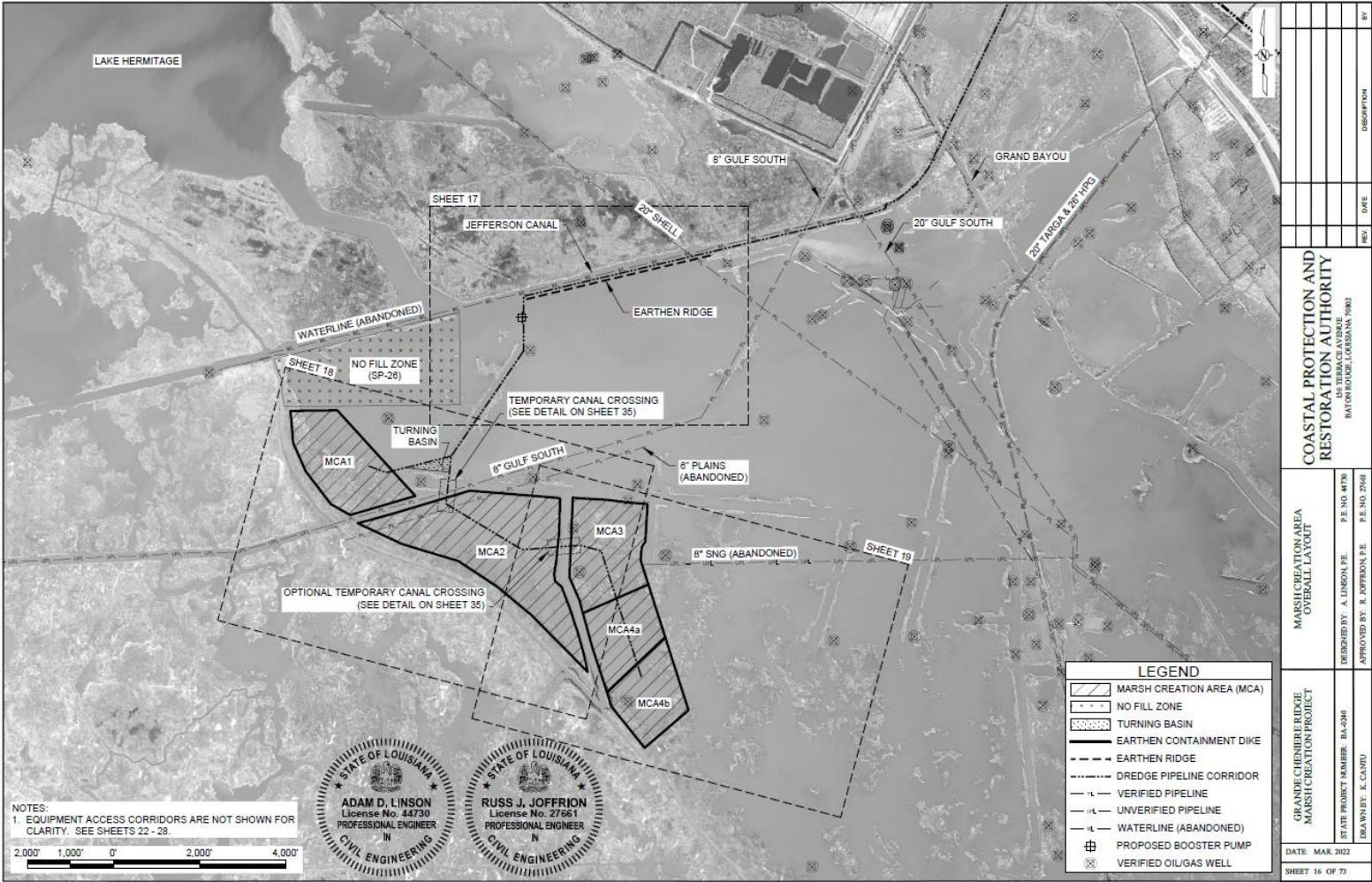
Project Overview and Background

PROJECT LAYOUT – RESTORATION FEATURES

Fill Area	Acreage	Estimated Fill Volume (CY)
Base Bid		
MCA-1	90.9	708,500
MCA-2	185.1	1,440,700
MCA-3	89.8	638,000
Total Base	365.8	2,787,200
Alternate 1		
MCA-4a*	61.7	559,500
Total Base + Alt. 1	427.5	3,346,700
Alternate 2		
MCA-4b*	59.9	459,300
Total Base + Alts.	487.4	3,806,000

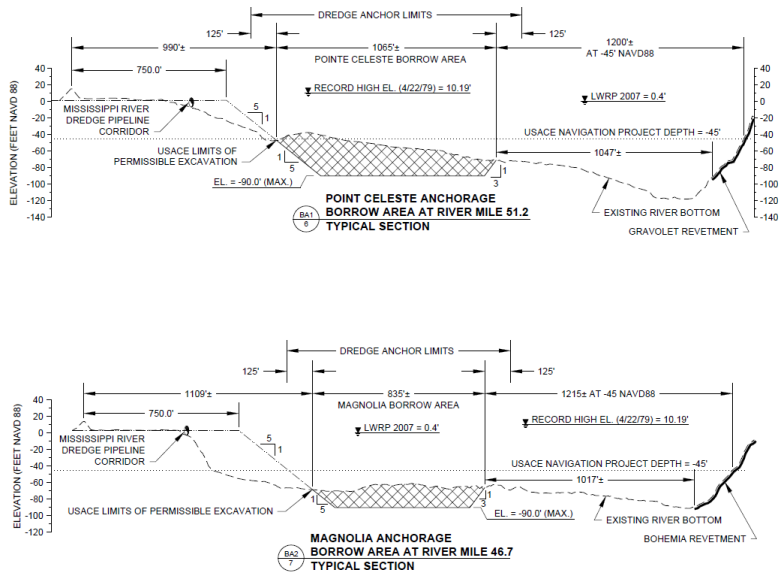
*Not accounting for reduction of volume due to ECD borrow backfilling.

Earthen Ridge Length (LF)
4,400

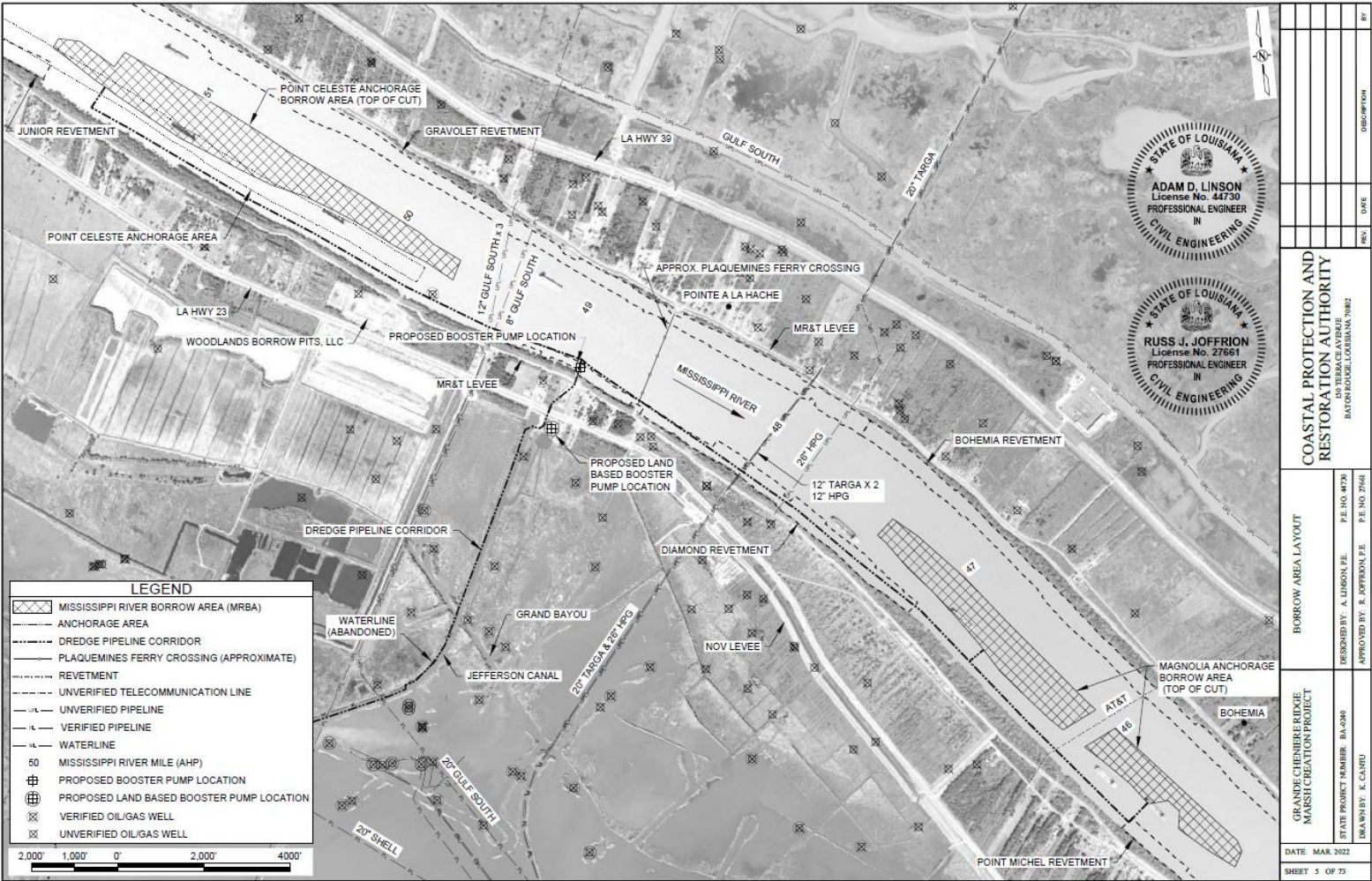


Project Overview and Background

PROJECT LAYOUT – BORROW AREAS



Borrow Area	Cut Elevation (ft. NAVD88)	Borrow Area Acreage	Available Volume (CY)
Point Celeste Anchorage	-90	185	7,800,000
Magnolia Anchorage	-90	180	6,300,000



Project Overview and Background

SUMMARY OF ESTIMATED BID QUANTITIES – BASE BID

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY ¹
1	MOBILIZATION AND DEMOBILIZATION (TS-100)	LS	1
2	SURVEYS (TS-200)	LS	1
3	SETTLEMENT PLATES (TS-270)	EA	15
4	EARTHEN CONTAINMENT DIKES (TS-300)	LF	31,890
5	EARTHEN RIDGE (TS-320)	LF	4,400
6	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH I (TS-330)	LS	1
7	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH II (TS-330)	LS	1
8	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH III (TS-330)	LS	1
9	HYDRAULIC DREDGING AND MARSH CREATION - MCA-1 (TS-420) ²	CY	708,500
10	HYDRAULIC DREDGING AND MARSH CREATION - MCA-2 (TS-420) ²	CY	1,440,700
11	HYDRAULIC DREDGING AND MARSH CREATION - MCA-3 (TS-420) ²	CY	638,000
12	ABANDONED PIPELINE REMOVAL (TS-1100)	LF	2,900

1. THE QUANTITIES SHOWN WERE CALCULATED BASED ON SURVEYS CONDUCTED IN OCTOBER 2019 TO DECEMBER 2019, MARCH 2020 TO MAY 2020, AND NOVEMBER 2020 TO MARCH 2021. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER FOR ANY ITEM COVERED BY A UNIT PRICE, WITHOUT ADJUSTMENT OF THE UNIT PRICE. REFER TO SP-19 "ADJUSTMENT OF QUANTITIES."
2. QUANTITY IS BASED ON THE MARSH CREATION FILL. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE MARSH CREATION AREA(S).

Project Overview and Background

SUMMARY OF ESTIMATED BID QUANTITIES – ALTERNATE 1 & 2

ALTERNATE BID 1

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY ¹
13	SURVEYS - MCA-4A (TS-200)	LS	1
14	SETTLEMENT PLATES - MCA-4A (TS-270)	EA	2
15	EARTHEN CONTAINMENT DIKES - MCA-4A (TS-300)	LF	5,080
16	DEDUCT EARTHEN CONTAINMENT DIKES - MCA-3 (TS-300)	LF	-1,650
17	HYDRAULIC DREDGING AND MARSH CREATION - MCA-4A (TS-420) ²	CY	559,500
18	DEDUCT HYDRAULIC DREDGING AND MARSH CREATION - MCA-3 (TS-420) ²	CY	-20,600

ALTERNATE BID 2

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY ¹
19	SURVEYS - MCA-4B (TS-200)	LS	1
20	SETTLEMENT PLATES - MCA-4B (TS-270)	EA	2
21	EARTHEN CONTAINMENT DIKES - MCA-4B (TS-300)	LF	4,700
22	DEDUCT EARTHEN CONTAINMENT DIKES - MCA-4A (TS-300)	LF	-1,860
23	HYDRAULIC DREDGING AND MARSH CREATION - MCA-4B (TS-420) ²	CY	459,300
24	DEDUCT HYDRAULIC DREDGING AND MARSH CREATION - MCA-4A (TS-420) ²	CY	-24,800

1. THE QUANTITIES SHOWN WERE CALCULATED BASED ON SURVEYS CONDUCTED IN OCTOBER 2019 TO DECEMBER 2019, MARCH 2020 TO MAY 2020, AND NOVEMBER 2020 TO MARCH 2021. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER FOR ANY ITEM COVERED BY A UNIT PRICE, WITHOUT ADJUSTMENT OF THE UNIT PRICE. REFER TO SP-19 "ADJUSTMENT OF QUANTITIES."
2. QUANTITY IS BASED ON THE MARSH CREATION FILL. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE MARSH CREATION AREA(S).

Project Overview and Background

DATA COLLECTION

During engineering and design, the following data was collected:

- Topographic, bathymetric and magnetometer survey performed in 2019, 2020, and 2021.
 - Refer to Design Note 2 on Sheet 3 of the Plans.
 - Data is available in **Appendix H** of the Specifications.
- Geophysical surveys of the Mississippi River borrow areas, performed in 2019.
 - Refer to Design Note 2 on Sheet 3 of the Plans.
 - Data is available in **Appendix I** of the Specifications.
- Geotechnical investigations performed in 2020.
 - Refer to Design Note 4 on Sheet 3 of the Plans.
 - Data is available in **Appendix J** of the Specifications.

Project Overview and Background

PERMITS OBTAINED BY THE OWNER

- The Owner has secured the following permits:
 - Department of the Army Permit, Section 404
 - Department of the Army Permit, Section 408
 - Water Quality Certification from the Louisiana Department of Environmental Quality (LDEQ)
 - Fill Materials License from the Louisiana Department of Wildlife and Fisheries (LDWF)
 - Consistency Determination from Louisiana Department of Natural Resources (LDNR)
- Bidders are to become familiar with all permitting documentation, which is available in Appendix E of the Specifications.

Construction Overview



Construction Overview

CONTRACT TIME, LIQUIDATED DAMAGES, AND RETAINAGE

CONTRACT TIME (GP-7 AND SP-3)

- The Bidder shall agree to fully complete the contract within:
 - Six hundred ninety-five (695) consecutive calendar days for the Base Bid
 - An additional one hundred twenty (120) consecutive calendar days for Alternate No. 1
 - An additional one hundred fifteen (115) consecutive calendar days for Alternate No. 2

LIQUIDATED DAMAGES (GP-59 AND SP-8)

- The Bidder shall agree to pay as Liquidated Damages the amount of:
 - Five thousand dollars (\$5,000) for each consecutive day for which the work is not complete, beginning the first day beyond the contract completion date stated on the Notice to Proceed, or as amended by Change Order.

RETAINAGE (GP-53)

- In addition to any Ratio of Effort and Withholdings, a retainage of five percent (5%) to be withheld for a minimum of forty-five (45) consecutive calendar days after final acceptance to ensure that all liens are released.

Construction Overview

WORK PLAN AND WORK PLAN SUPPLEMENTAL (GP-8 AND SP-7)

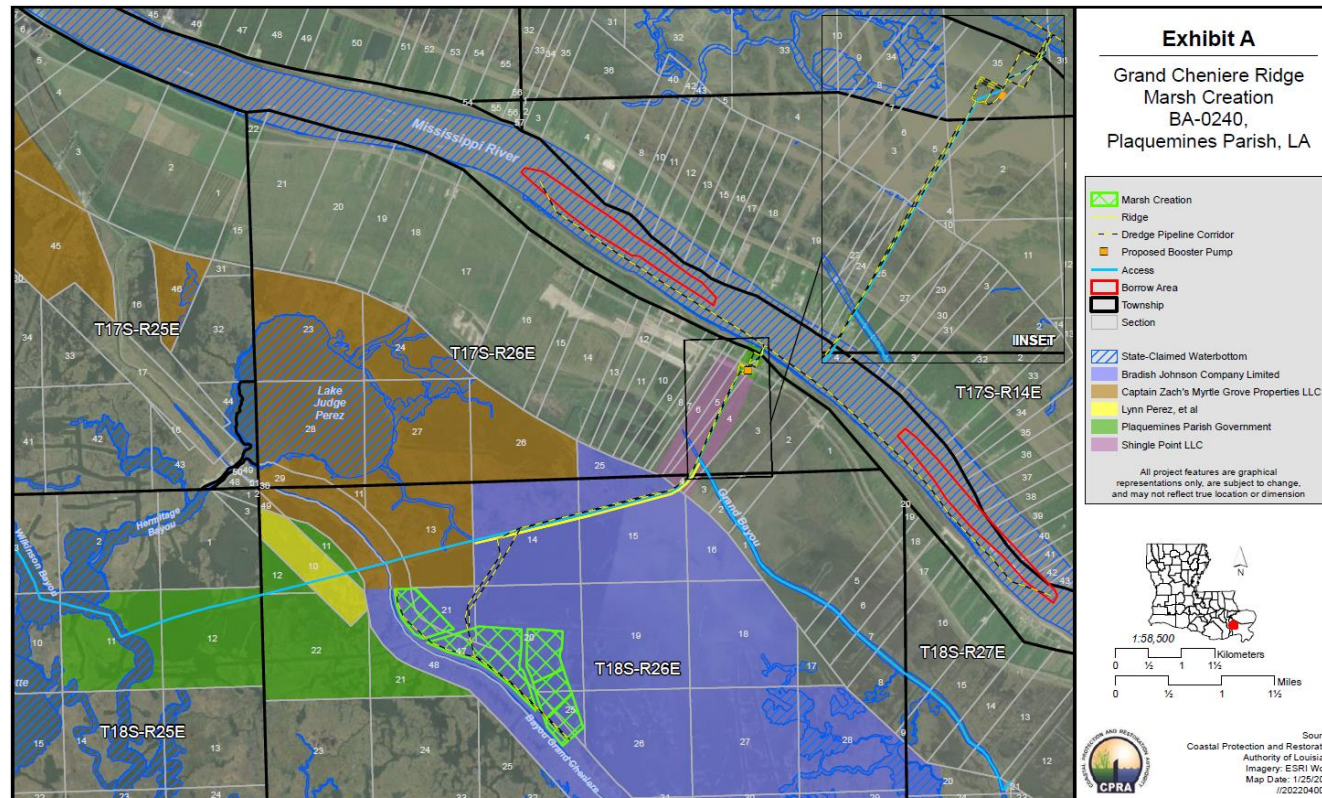
In addition to the items listed in GP-8, the Work Plan shall also include the items listed in SP-8. Some items of note include:

- (7.8) Layout of equipment staging area(s) and booster pump(s)
- (7.9) Layout and schedule for Equipment Access Corridors or staging areas (other than what is provided) which may be approved by the Engineer on an as-needed basis.
- (7.11) Layout and materials for the installation of protective measures at all equipment and pipeline crossings.
- (7.12) Schedule and plan for pipeline removal, if required.
- (7.14) Temporary Retaining Structure (TRS) Plan (see **Appendix N** for requirements).
- (7.15) Traffic Control / Sign Placement Plan for the LA23 Crossing.
- (7.21) Dredge Plan for dredging the Mississippi River Borrow Area(s) (see **Appendix O** for template).

Construction Overview

LANDOWNER REQUIREMENTS (SP-11)

- (11.1.2) Contractor shall notify all Grantors at least fourteen (14) working days prior to initiation of access to the said lands.



Bradish Johnson Co. LTD
Attn: Camille Stachan
1113 Saint Andrew Street
New Orleans, LA 70130
(504) 523-7784 (office)
(504) 481-0384 (cell)
cjstrachan@gmail.com

Shingle Point, LLC
Attn: Mark Pivach
Post Office Box 7125
Belle Chasse, Louisiana
70037
(504) 394-1870

**Plaquemines Parish
Government**
Attn: LV Cooley
333 F Edward Hebert Blvd.
Belle Chasse, LA 70037
(985) 445-3292
lv@ppgov.net

Lynn Perez
Attn: Lynn Perez
4881 Hwy 39
Braithwaite, LA 70040
(318) 985-3224

**Captain Zach's Myrtle
Grove Properties**
Attn: Raymond J. Brandt
3017 12th Street
Metairie, LA 70002
(504) 837-2088

Construction Overview

PIPELINE OWNER/OPERATOR REQUIREMENTS (SP-11)

GENERAL (SP-11.2.1)

- Contractor will be responsible for obtaining all necessary pipeline owner / operators Agreements / Letters of No Objection (LONOs) / Letters of Consent, as required by the pipeline owners/operators.

PIPELINE SAFETY (SP-11.2.2)

- Contractor shall adhere to the most current publications of:
 - “Recommended Best Practices Guide for Safe Dredging near Underwater Gas & Hazardous Liquid Pipelines”, developed by the Council for Dredging and Marine Construction Safety, www.cdmcs.org
 - “Working Safely Near Underwater Pipelines”, developed by the Coastal and Marine Operators Pipeline Industry Initiative (CAMO) and the Lake Pontchartrain Basin Foundation (LPBF), <http://www.camogroup.org/wp-content/uploads/2020/04/Working-Safely-Near-Underwater-Pipelines.pdf>

Phillips 66 Pipeline, LLC

Attn: Todd Tullio
(832) 765-1636

todd.t.tullio@p66.com

Shell Pipeline Co. L.P.

Attn: David Bergeron
Land Agent
(225) 474-7089

d.bergeron@shell.com

High Point Gas Transmission, LLC c/o Third Coast Midstream

Attn: Robin Asevado
(504) 800-6686

RAsevado@3CMidstream.com

Perdido Energy, LLC

Attn: Jacob Sanchez
(832) 260-6213

jsanchez@perdidoenergy.com

Gulf South Pipeline Company, LLC

Attn: Gerald Roser
(504) 415-4321 (cell)
(504) 469-5903 (ext)

geraldroser@bwpipelines.com

Shell Pipeline Co. L.P.

Attn: Damian Cambre
Land and Permitting
(225) 474-7453

damian.cambre@shell.com

Targa Resources Operating, LLC

Attn: Keith Adams
(225) 788-3787

KCAdams@targaresources.com

Venture Global Gator Express, LLC

Attn: German Ortega
(202) 793-4441 (office)
(713) 231-6398 (cell)

gortega@vlgng.com

Construction Overview

PIPELINE OWNER/OPERATOR REQUIREMENTS (SP-11)

EXCAVATION TOLERANCES AND MARKINGS (SP-11.2.3 & 11.2.4)

- No excavation, anchors, or spuds shall be permitted within a tolerance zone of **seventy-five feet (75')** from any existing pipeline, unless otherwise specified in the contract documents. No dredging, excavation, anchors, or spuds, shall be permitted within a tolerance zone of **five hundred feet (500')** from any existing pipeline in the Mississippi River Borrow Areas, unless specified otherwise in the Contract Documents.
- Contractor shall investigate, locate, mark, and protect all pipelines where equipment and construction activities will be performed. Pipeline location markings as specified in TS-200 and any protective measures required in Agreement(s) / LONOs shall be installed a minimum of **five (5) days** prior to commencement of Work near pipelines.

PIPELINE NOTIFICATIONS (SP-11.2.5)

- Notification of pipeline owners / operators shall be performed in accordance with the timeline(s) established in the Agreement(s) / LONOs, but not less than **fourteen 14 days** prior to commencement of work near affected pipelines.
- Contractor shall contact Louisiana 811 at least **five (5) business days** prior to any construction activities.

Construction Overview

UTILITY REQUIREMENTS (SP-11)

GENERAL (SP-11.3.1)

- Contractor will be responsible for obtaining all necessary pipeline owner / operators Agreements / Letters of No Objection (LONOs) / Letters of Consent, as required by the pipeline owners/operators.

UTILITY SAFETY (SP-11.3.2)

- Contractor shall adhere to the most current publications of:
 - ATMOS Energy, “Damage Prevention Awareness Brochure 2021”, <https://www.atmosenergy.com/safety/call-811-excavating>;
 - Current Entergy Contractor Safety requirements <https://www.entergy.com/safety/contractor/>, and;
 - “Best Practices, The Definitive Guide for Underground Safety and Damage Prevention”, developed by the Common Ground Alliance for Work near underground utilities and facilities, <https://commongroundalliance.com/Publications-Media/Best-Practices-Guide>

Atmos Energy Corporation

Attn: Brian P. Blum
(504) 214-6356 (cell)
(504) 362-5258 (office)
brian.blum@atmosenergy.com
Emergency Phone: 1-800-322-8667

Plaquemines Parish Government (PPG) (Waterline)

Attn: John Helmers
(504) 351-3556 (cell)
(504) 934-6297 (office)
jhelmers@ppgov.net

Entergy Louisiana LLC

Attn: Alex Padilla
(504) 402-0553 (office)
apadill@entergy.com
Emergency Phone: 1-800-968-8243

Construction Overview

UTILITY REQUIREMENTS (SP-11)

EXCAVATION TOLERANCES AND MARKINGS (SP-11.3.3 & 11.3.4)

- No excavation shall be permitted within a tolerance zone of **twenty-five feet (25')** of any existing utility, unless otherwise specified in the Contract Documents, or permitted by the utility provider in writing. No dredging, excavation, anchors, or spuds, shall be permitted within **five hundred feet (500')** of any existing utility in the Mississippi River Borrow Areas, unless specified otherwise in the Contract Documents, or permitted by the utility provider in writing.
- Contractor shall investigate, locate, mark, and protect all existing utilities, facilities, structures, and services, on, above, or below the surface of the area where equipment and construction activities will be performed. All utility locations shall be marked as specified in TS-200 and any protective measures required in Agreement(s) / LONOs shall be installed a minimum of **five (5) days** prior to commencement of Work near utilities.

UTILITY NOTIFICATIONS (SP-11.3.5)

- Notification of utility owners shall be performed in accordance with the timeline(s) established in the Agreement(s) / LONOs, but not less than **fourteen (14 days)** prior to commencement of work near affected utilities.
- Contractor shall contact Louisiana 811 at least **five (5) business days** prior to any construction activities.

Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

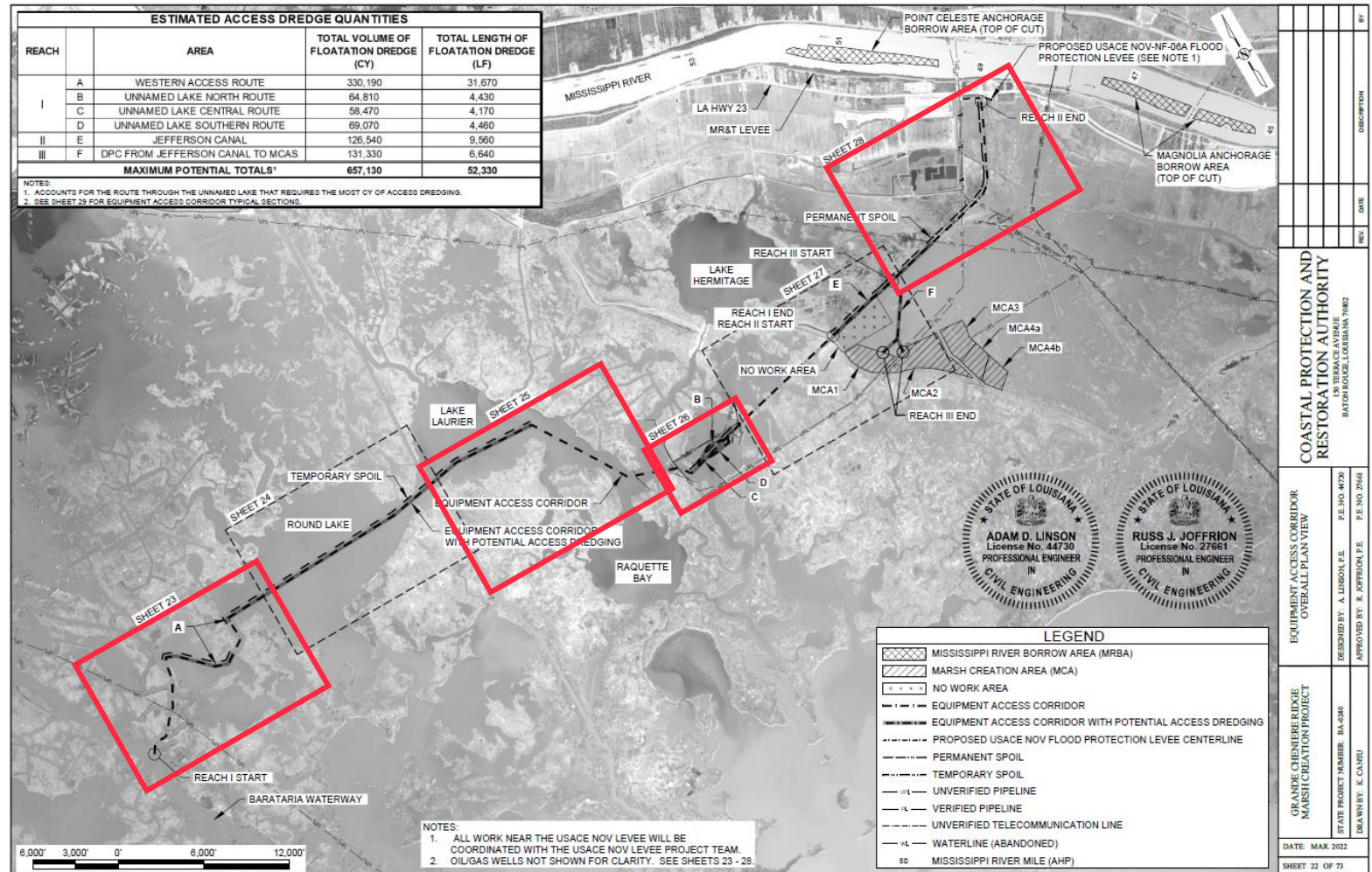
EQUIPMENT ACCESS CORRIDOR (INTERSECTING)

• Non-Dredging Sections:

- Phillips 66 (Sheet 23)
- Unknown Pipeline (Sheet 23)
- 2" Gulf South (Abandoned) (Sheet 25)
- Unknown Pipeline (Sheet 25)
- 4" Mesa Gulf South x2 (Sheet 26)
- 4" Exxon x2 (Sheet 26)
- 3" Exxon x2 (Sheet 26)
- 20" Shell (Sheet 28)
- 8" & 20" Gulf South (Sheet 28)

• Dredging Sections:

- 2" Exxon (Sheet 26)
- 3" Mesa Gulf South (Sheet 26)
- 10 Unknown Pipelines (Sheet 26)
- Abandoned Waterline (Sheet 28)



Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

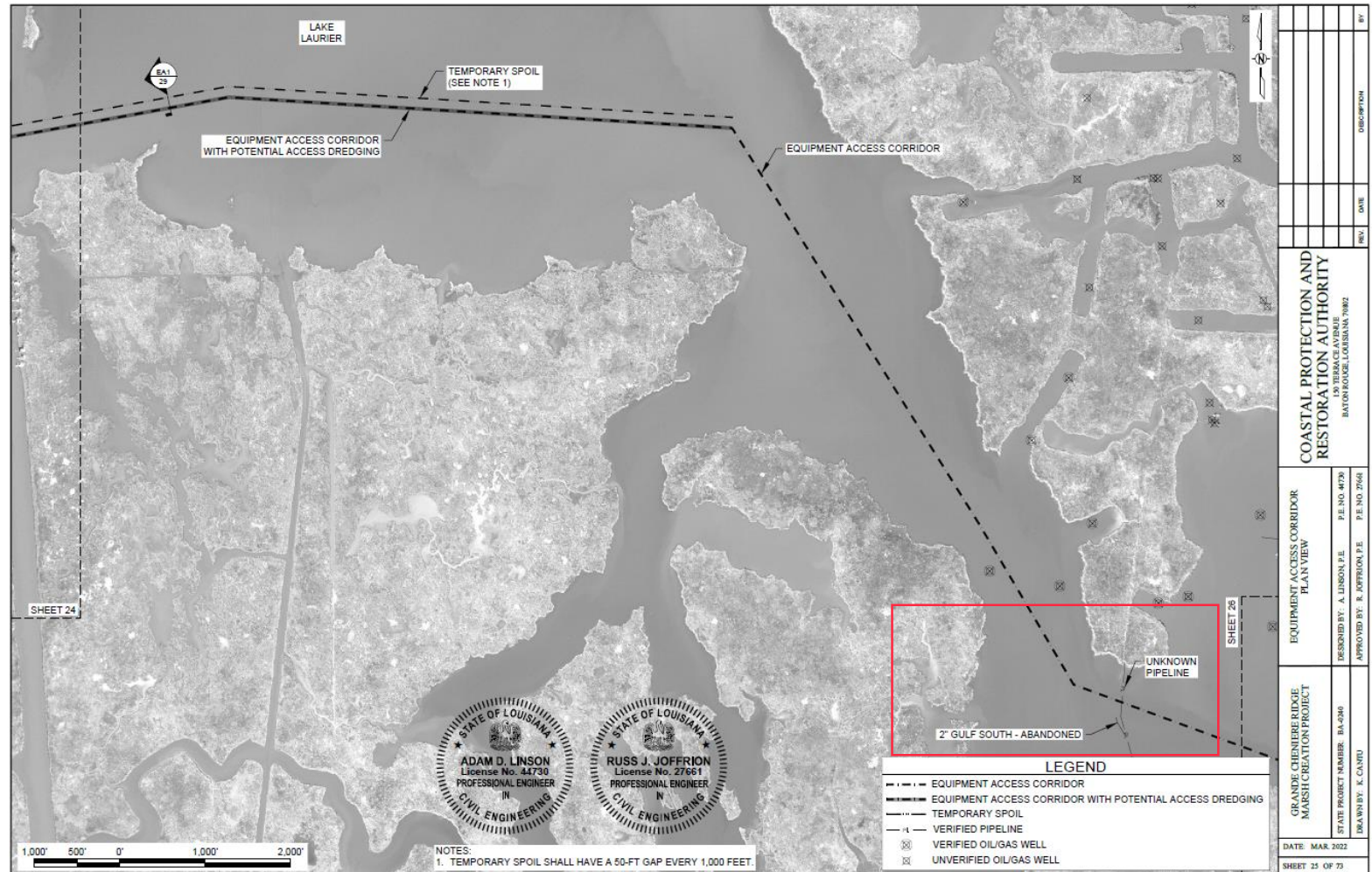
EQUIPMENT ACCESS CORRIDOR (INTERSECTING)

- Non-Dredging Sections:

- Phillips 66 (Sheet 23)
- Unknown Pipeline (Sheet 23)
- **2" Gulf South (Abandoned) (Sheet 25)**
- **Unknown Pipeline (Sheet 25)**
- 4" Mesa Gulf South x2 (Sheet 26)
- 4" Exxon x2 (Sheet 26)
- 3" Exxon x2 (Sheet 26)
- 20" Shell (Sheet 28)
- 8" & 20" Gulf South (Sheet 28)

- Dredging Sections:

- 2" Exxon (Sheet 26)
- 3" Mesa Gulf South (Sheet 26)
- 10 Unknown Pipelines (Sheet 26)
- Abandoned Waterline (Sheet 28)



Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

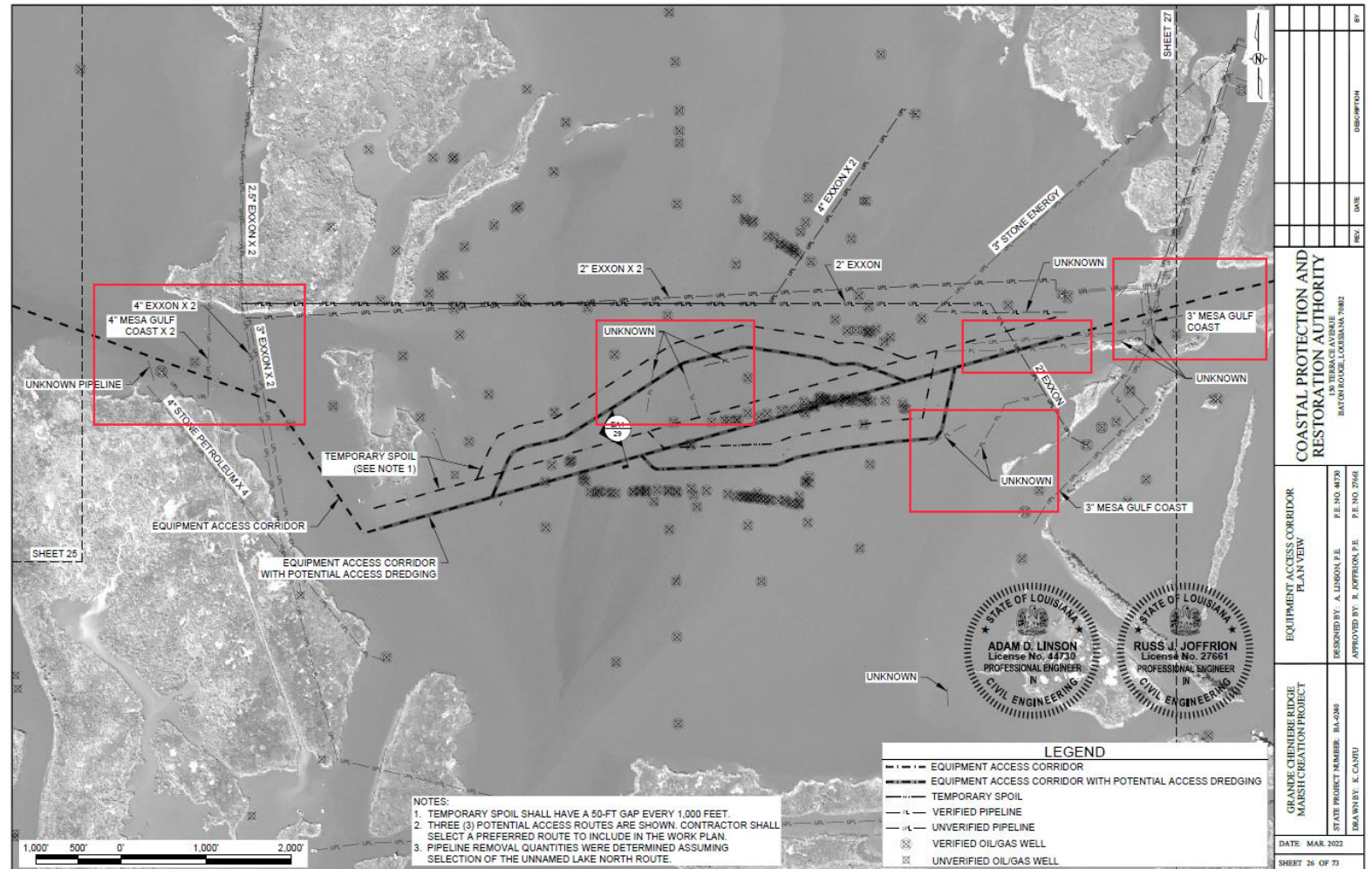
EQUIPMENT ACCESS CORRIDOR (INTERSECTING)

- Non-Dredging Sections:

- Phillips 66 (Sheet 23)
- Unknown Pipeline (Sheet 23)
- 2" Gulf South (Abandoned) (Sheet 25)
- Unknown Pipeline (Sheet 25)
- **4" Mesa Gulf South x2 (Sheet 26)**
- **4" Exxon x2 (Sheet 26)**
- **3" Exxon x2 (Sheet 26)**
- 20" Shell (Sheet 28)
- 8" & 20" Gulf South (Sheet 28)

- Dredging Sections:

- **2" Exxon (Sheet 26)**
- **3" Mesa Gulf South (Sheet 26)**
- **10 Unknown Pipelines (Sheet 26)**
- Abandoned Waterline (Sheet 28)



Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

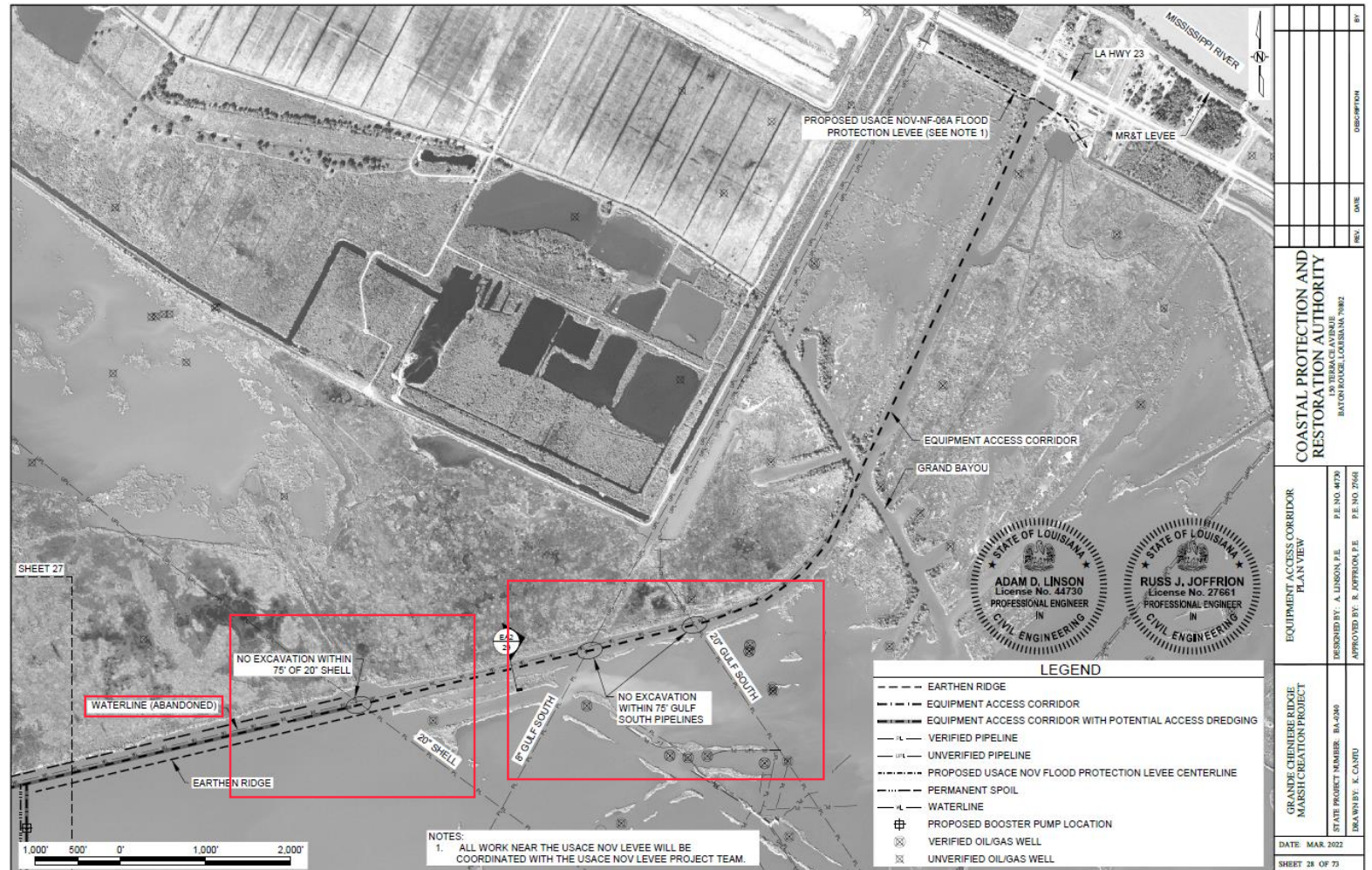
EQUIPMENT ACCESS CORRIDOR (INTERSECTING)

- Non-Dredging Sections:

- Phillips 66 (Sheet 23)
- Unknown Pipeline (Sheet 23)
- 2" Gulf South (Abandoned) (Sheet 25)
- Unknown Pipeline (Sheet 25)
- 4" Mesa Gulf South x2 (Sheet 26)
- 4" Exxon x2 (Sheet 26)
- 3" Exxon x2 (Sheet 26)
- **20" Shell (Sheet 28)**
- **8" & 20" Gulf South (Sheet 28)**

- Dredging Sections:

- 2" Exxon (Sheet 26)
- 3" Mesa Gulf South (Sheet 26)
- 10 Unknown Pipelines (Sheet 26)
- **Abandoned Waterline (Sheet 28)**



Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

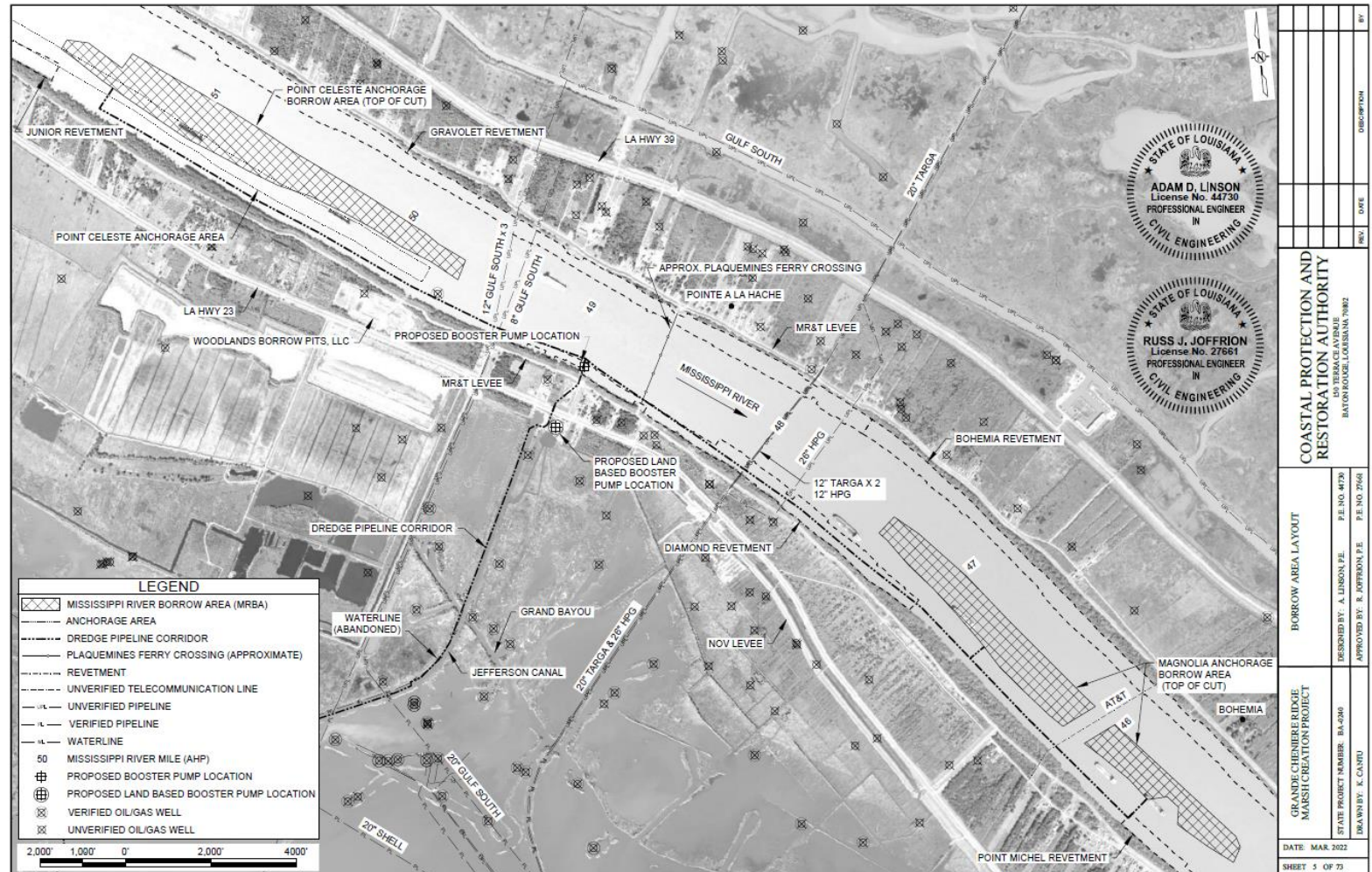
MISSISSIPPI RIVER BORROW AREAS & DPC

• Point Celeste Anchorage Borrow Area:

- 12" Gulf South Pipeline x3
- 8" Gulf South Pipeline

• Magnolia Anchorage Borrow Area:

- AT&T Utility Line
- 26" High Point Gas Pipeline
- 12" Targa Pipeline
- 12" High Point Gas Pipeline

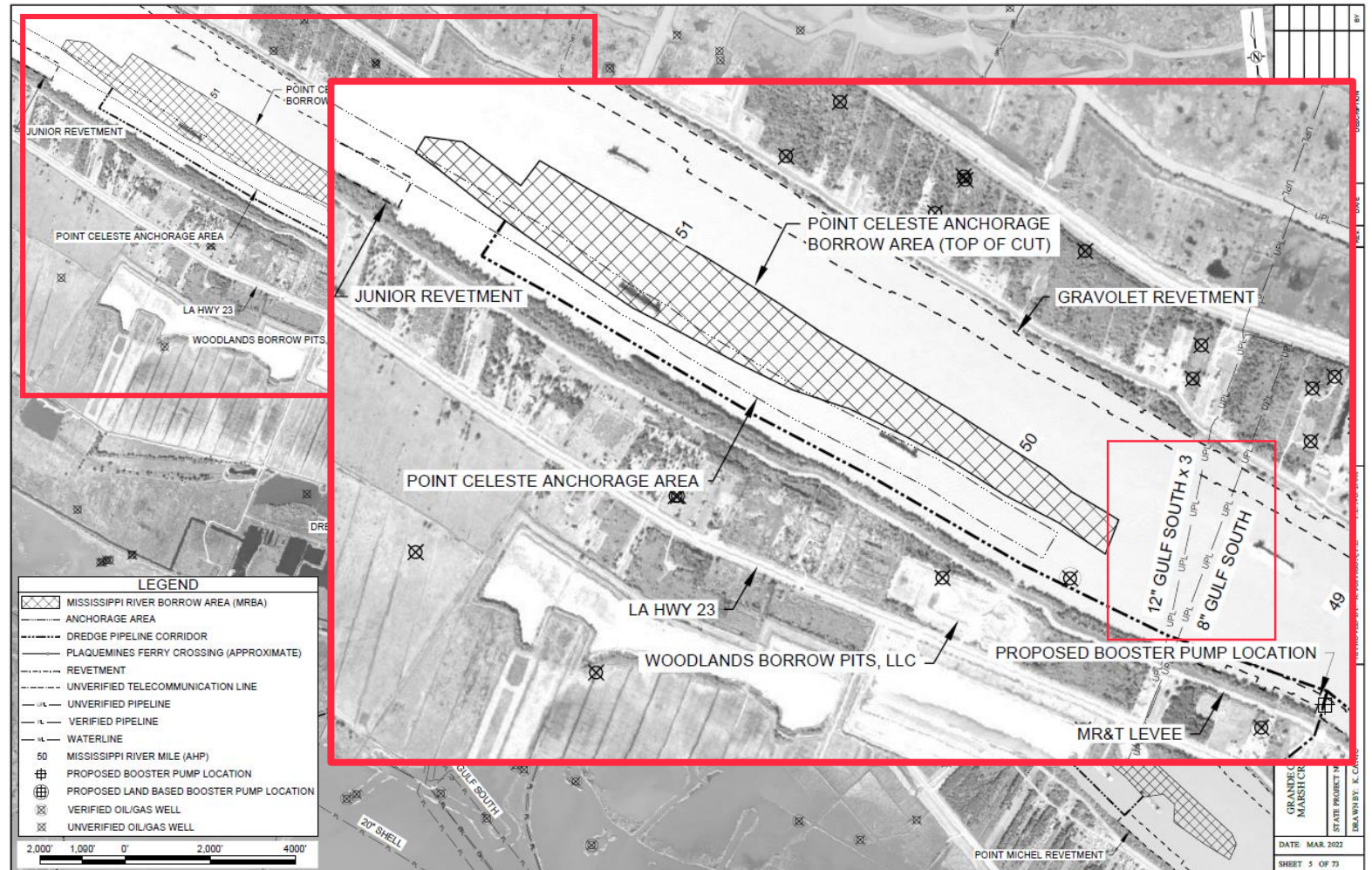


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

MISSISSIPPI RIVER BORROW AREAS & DPC

- Point Celeste Anchorage Borrow Area:
 - 12" Gulf South Pipeline x3
 - 8" Gulf South Pipeline
- Magnolia Anchorage Borrow Area:
 - AT&T Utility Line
 - 26" High Point Gas Pipeline
 - 12" Targa Pipeline
 - 12" High Point Gas Pipeline

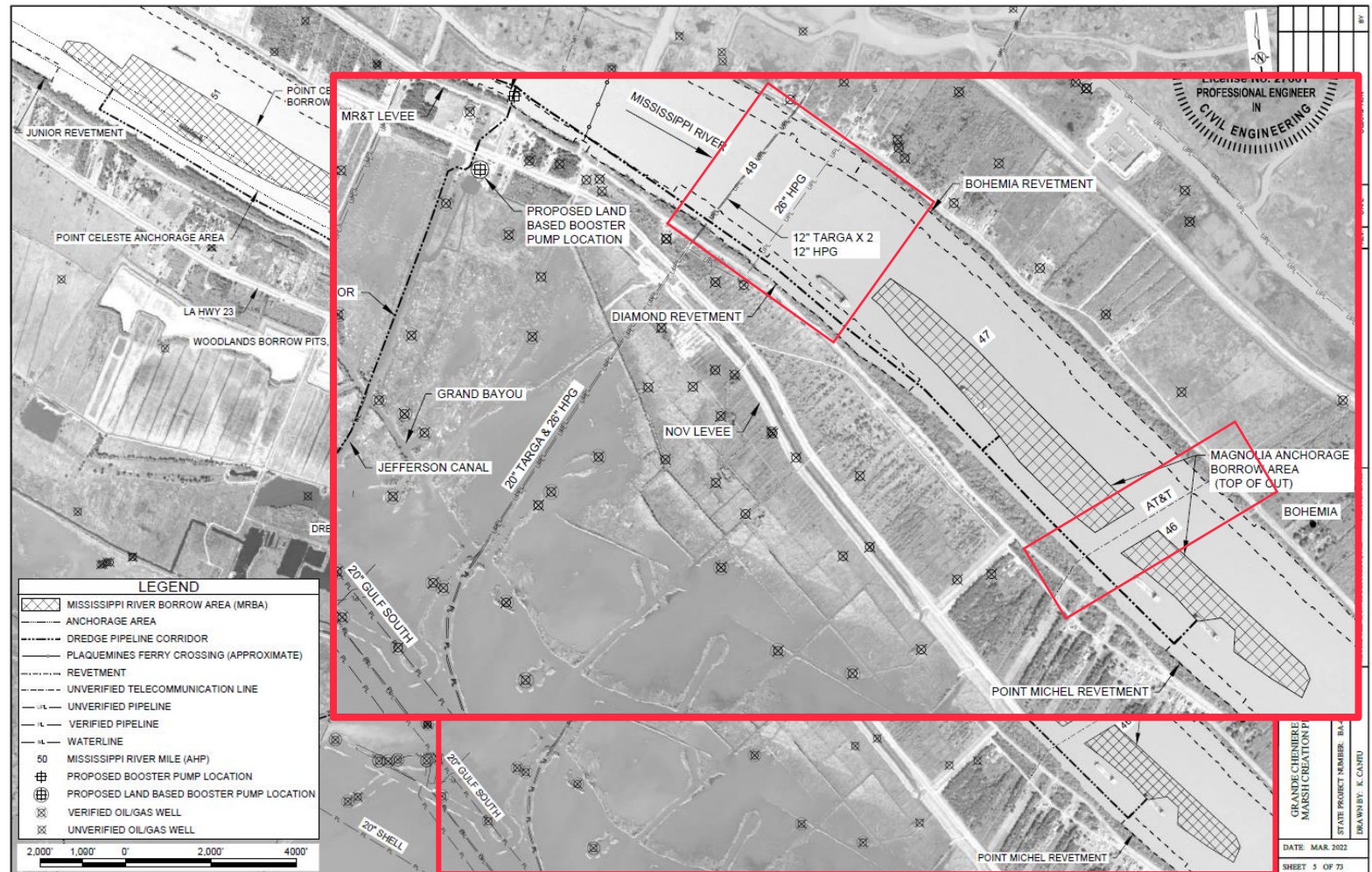


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

MISSISSIPPI RIVER BORROW AREAS & DPC

- Point Celeste Anchorage Borrow Area:
 - 12" Gulf South Pipeline x3
 - 8" Gulf South Pipeline
- Magnolia Anchorage Borrow Area:
 - AT&T Utility Line
 - 26" High Point Gas Pipeline
 - 12" Targa Pipeline
 - 12" High Point Gas Pipeline

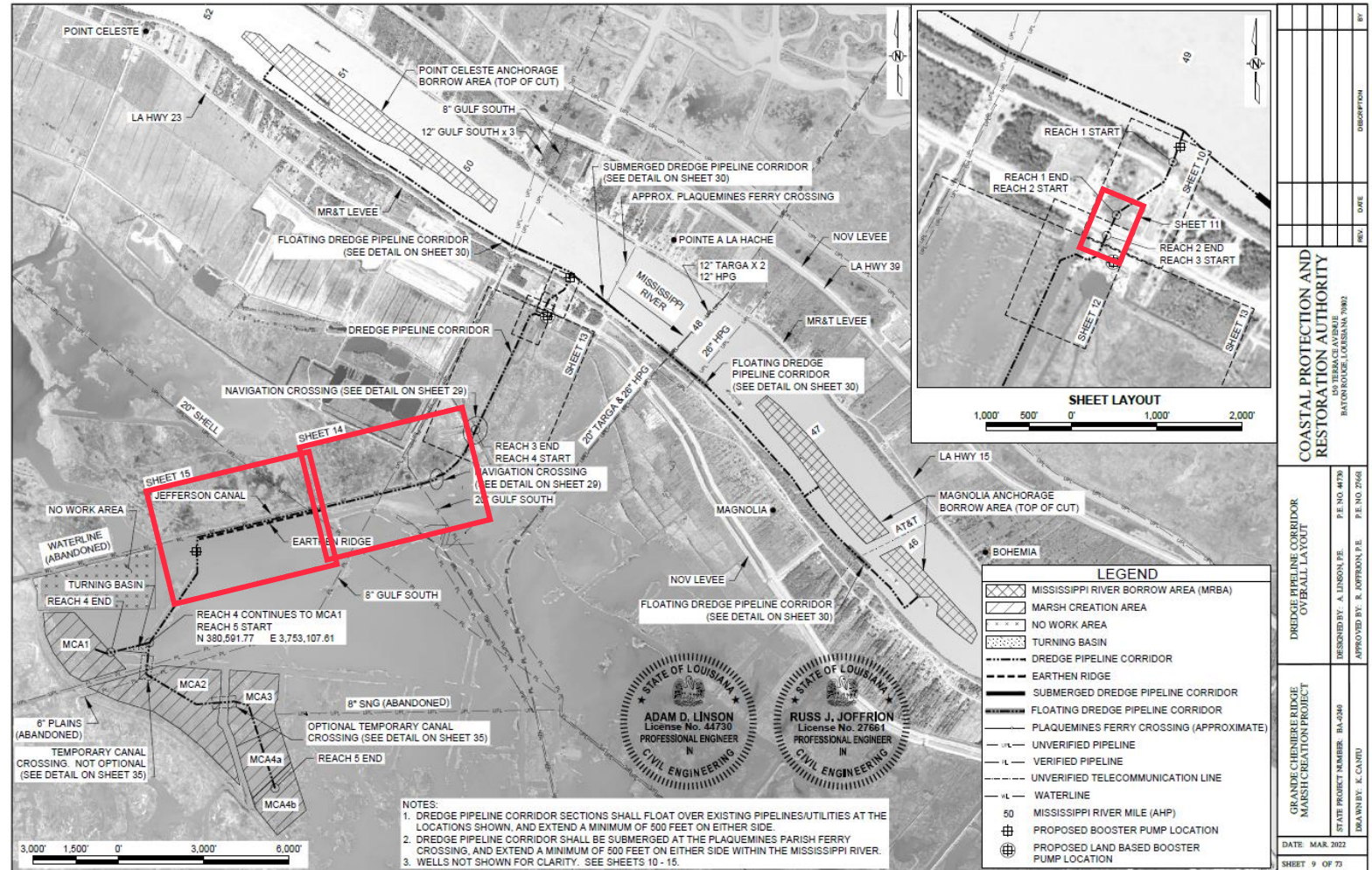


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

DREDGE PIPELINE CORRIDOR

- Reach 2: LA 23 Crossing (Sheet 11)
 - 20" Waterline
 - 6" Atmos Gas Line
 - Overhead Powerlines (Entergy)
- Reach 4 – Grand Bayou to MCA-1 (Sheet 14 & 15)
 - Waterline (Abandoned)
 - 8" & 20" Gulf South Pipeline
 - 20" Shell Pipeline
- Reach 5 – DPC Split to MCA-4b (Sheet 16)
 - 8" Gulf South Pipeline (same as in Reach 4)

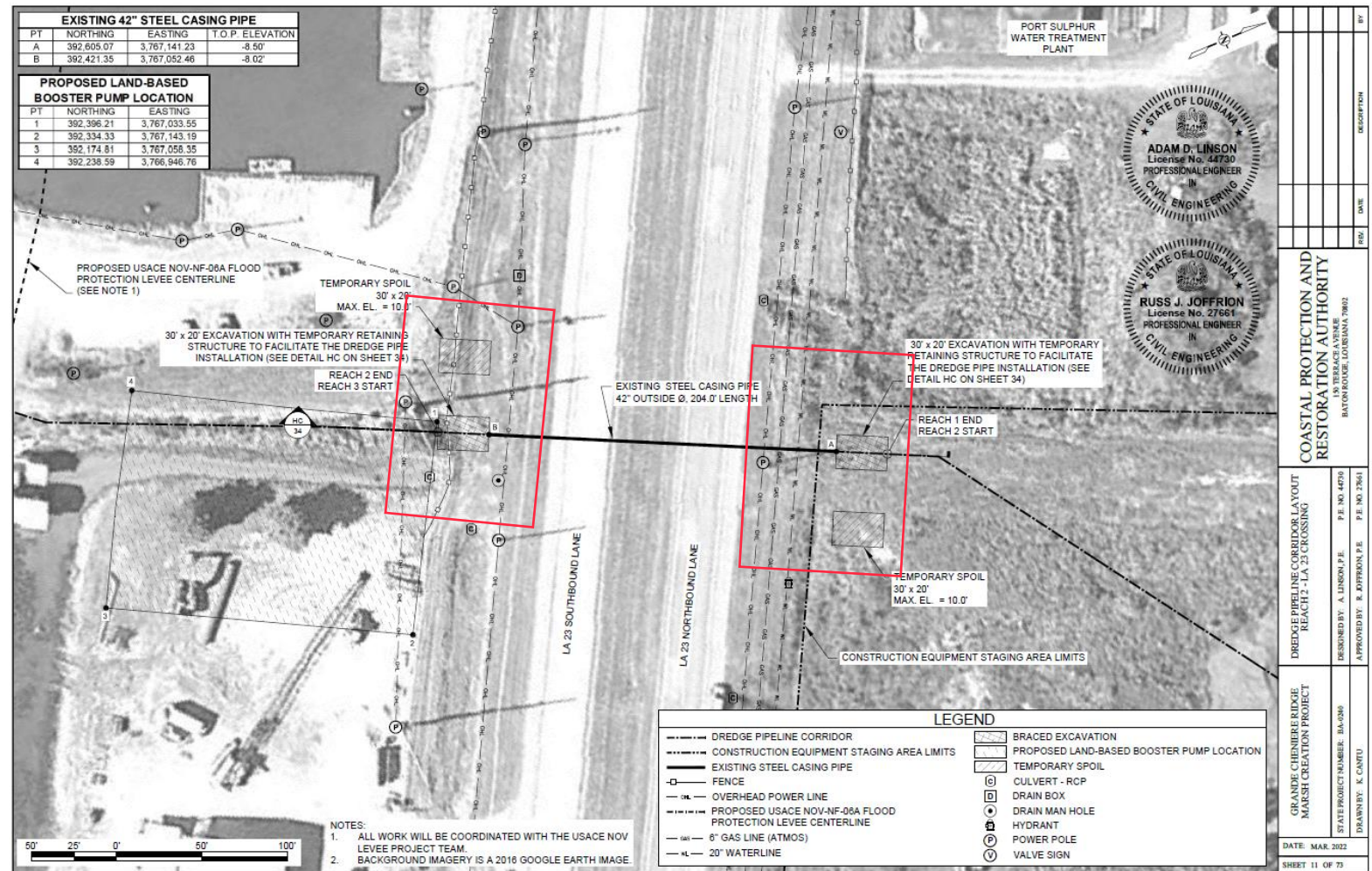


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

DREDGE PIPELINE CORRIDOR

- Reach 2: LA 23 Crossing (Sheet 11)
 - 20" Waterline
 - 6" Atmos Gas Line
 - Overhead Powerlines (Entergy)
- Reach 4 – Grand Bayou to MCA-1 (Sheet 14 & 15)
 - Waterline (Abandoned)
 - 8" & 20" Gulf South Pipeline
 - 20" Shell Pipeline
- Reach 5 – DPC Split to MCA-4b (Sheet 16)
 - 8" Gulf South Pipeline (same as in Reach 4)

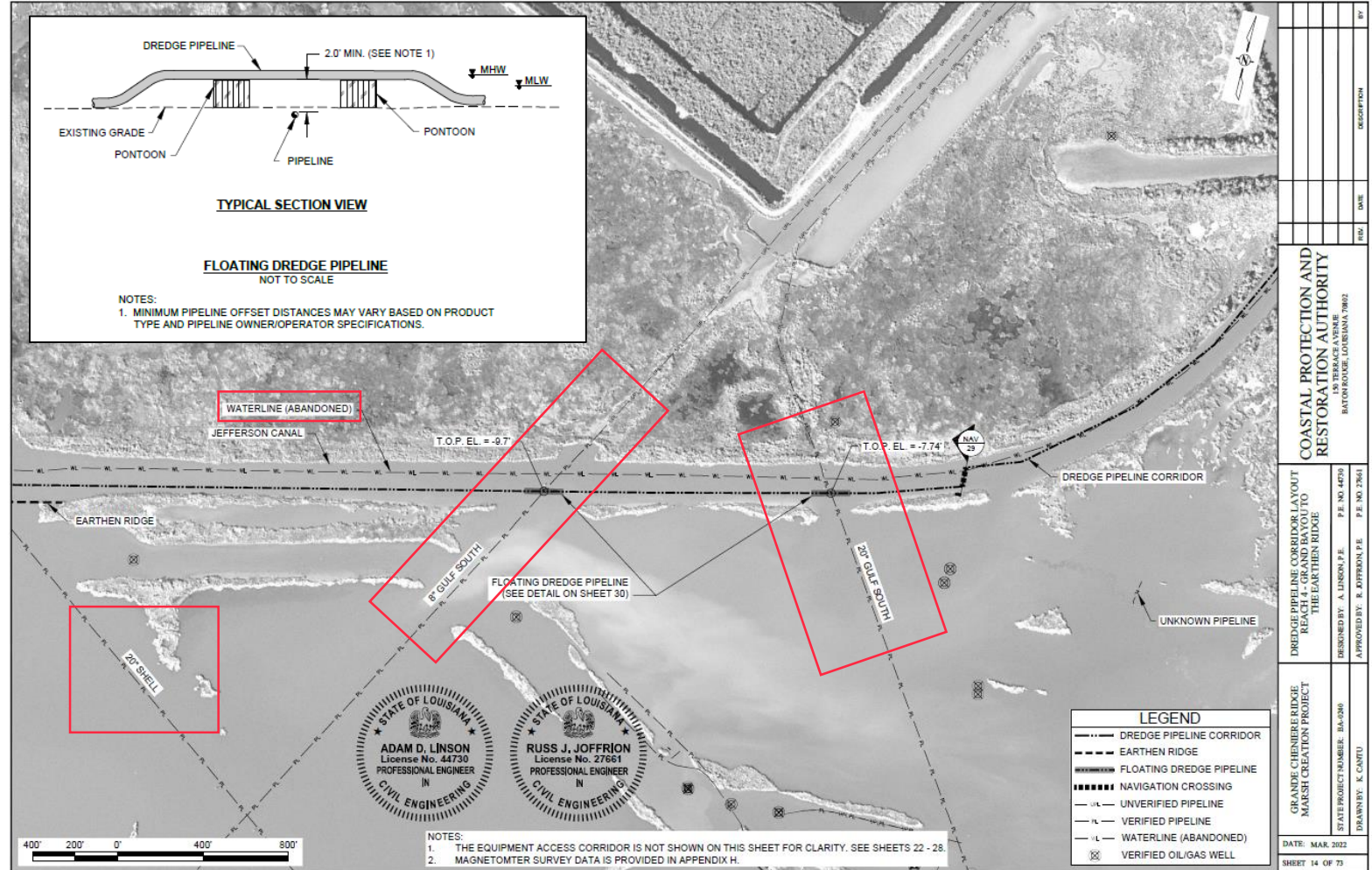


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

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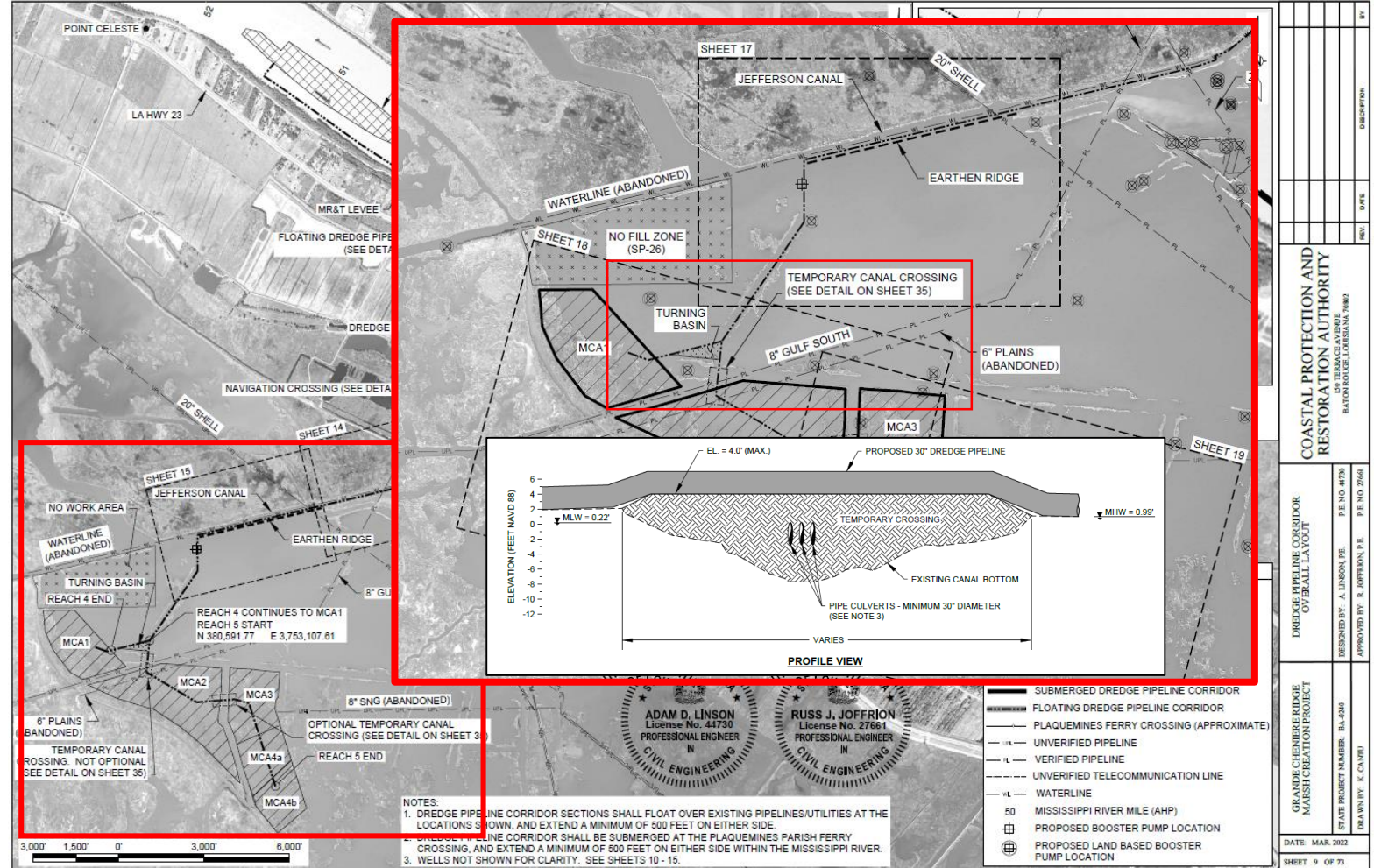


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

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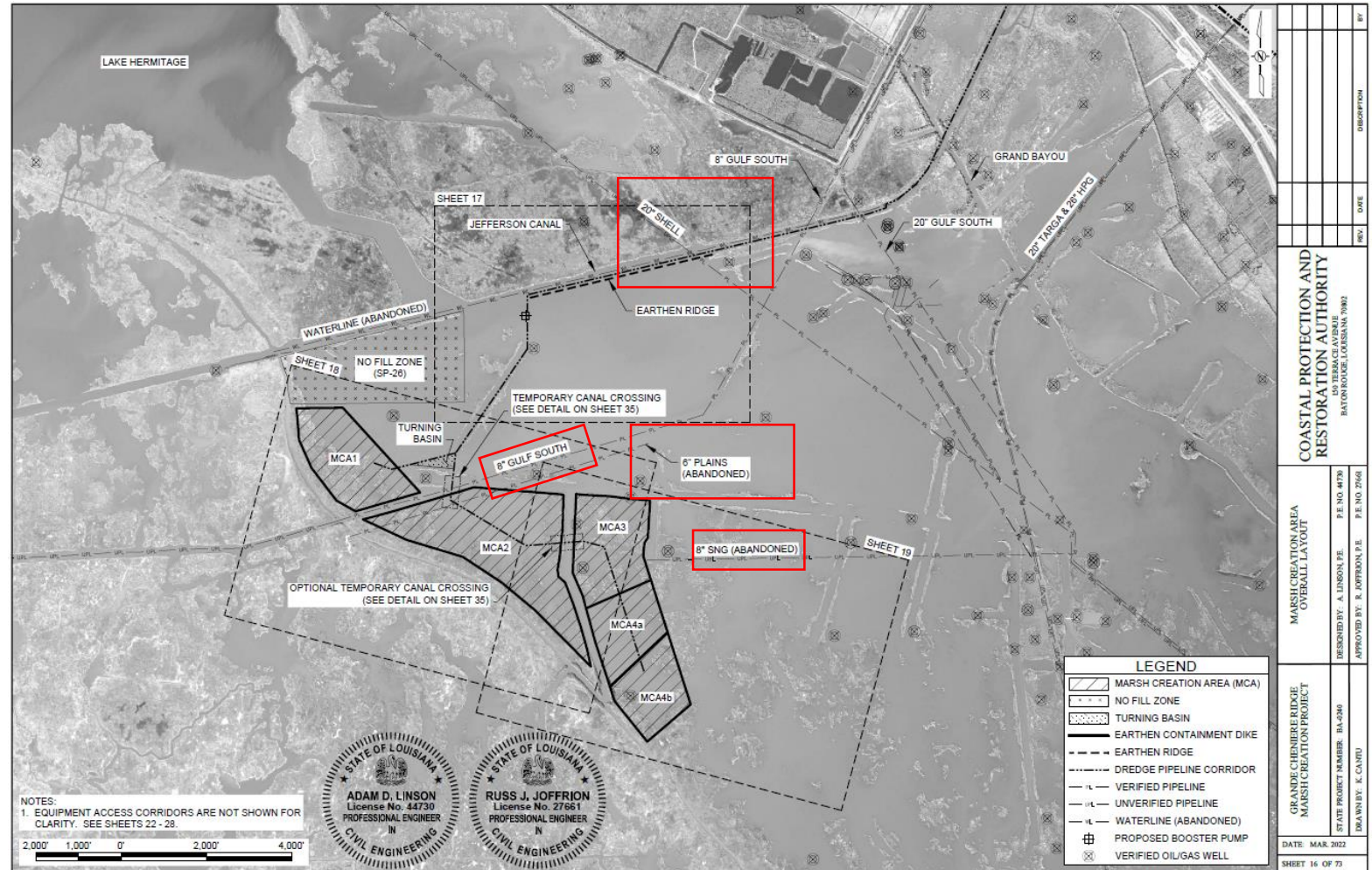


Construction Overview

PIPELINE OWNER/OPERATOR AND UTILITY REQUIREMENTS (SP-11)

RESTORATION AREAS

- Earthen Ridge
 - 20" Shell Pipeline
- Marsh Creation Areas
 - 8" Gulf South Pipeline
 - 6" Plains Pipeline (Abandoned)
 - 8" SNG Pipeline (Abandoned)



Construction Overview

NAVIGATION, NOTICE TO MARINERS, AND AIDS TO NAVIGATION

NAVIGATION (SP-15)

- The Contractor shall assure that the work does not impede or interfere with navigation on the Mississippi River and shall maintain daily ongoing coordination with the Marine Navigation Safety Association (MNSA), River Pilots Association, and the United States Coast Guard.

NOTICE TO MARINERS (SP-17)

- The Contractor shall provide a copy of the Notice to Mariners to the Engineer.

AIDS TO NAVIGATION (SP-18)

- After consultation with the United States Coast Guard, the Contractor shall provide the type and location of any necessary Aids to Navigation to the Engineer.

Construction Overview

WORK BY OTHERS (SP-25)

- Contractor will afford other contractors performing work within or adjacent to the Project site independent of this contract reasonable opportunity for the mobilization, delivery, and storage of Materials and Equipment, and the execution of the work in their contract.
- (25.1) Woodlands Borrow Pit (CUP NUM: P20210230)
 - Woodlands Borrow Pit (Woodlands) is permitted to dredge material within a portion of the Pointe Celeste Borrow Pit.
 - Woodlands to coordinate with CPRA before hydraulic dredging activities begin.
 - Woodlands to supply information on their dredge site (exact location), proposed equipment, and schedule to CPRA.
 - CRPA to provide approval and ensure there is no impact to BA-0240 construction activities and sediment availability.
- (25.2) Construction of the NOV
 - Contractor Shall work cooperatively with the USACE NOV Levee Project Team during construction of the NOV Levee Project during the Work and shall coordinate the NOV Flood Protection System dredge pipeline crossing with the USACE.

Construction Overview

MISPLACED MATERIAL AND EQUIPMENT (SP-26)

- Should the Contractor, during the progress of the Work misplace any slurry, dredged sediment, Equipment, or other Materials outside of what is authorized and permitted without the approval of the Owner or Engineer, the Contractor shall give immediate notice, with description and location of such misplaced Materials to the Owner and Engineer.
- Following coordination with the Engineer, the Contractor shall immediately recover and remove the misplaced Material. This may require redeposit or redistribution of misplaced dredge sediments as directed by the Owner or Engineer.
- Misplaced Materials shall be removed at the Contractor's expense.
- Additionally, the Contractor will be responsible for restoring unauthorized disposal areas to pre-construction conditions at his/her own expense.

Construction Overview

MOBILIZATION AND DEMOBILIZATION (TS-100)

SCOPE (TS-100.1)

- Contractor shall furnish all labor and Equipment necessary to mobilize a hydraulic dredge and any necessary booster pump(s), as well as furnish all labor and Equipment necessary to move personnel, Equipment, construction materials (including dredge pipeline), and incidentals necessary to perform the Work to and from the Project Site.

MEASUREMENT AND PAYMENT (TS-100.7)

- Payment for Mobilization and Demobilization shall be made at the Contract Lump Sum price for Bid Item No. 1, “Mobilization and Demobilization (TS-100)”.
- All costs associated with the dredge pipeline corridor and associated appurtenances and crossings shall be included in Bid Item No. 1 “Mobilization and Demobilization”. Refer to TS-101 “Dredge Pipeline Mobilization, Installation, and Demobilization”.

Construction Overview

MOBILIZATION AND DEMOBILIZATION (TS-100)

RATIO OF EFFORT (TS-100.5)

- **Ten percent (10%)** of the Contract cost for this bid item shall be paid to the Contractor after all dredge pipeline within “Reach 1: Mississippi River to LA 23” has been installed.
- **Ten percent (10%)** of the Contract cost for this bid item shall be paid to the Contractor after all dredge pipeline within “Reach 2: LA 23 Crossing” has been installed.
- **Ten percent (10%)** of the Contract cost for this bid item shall be paid to the Contractor after all dredge pipeline within “Reach 3: LA 23 to Grand Bayou” has been installed.
- **Ten percent (10%)** of the Contract cost for this bid item shall be paid to the Contractor after all dredge pipeline within “Reach 4: Grand Bayou to Marsh Creation Area 1” and “Reach 5: Dredge Pipeline Corridor Split to MCA-4b” has been installed.
- **Forty percent (40%)** of the cost for this bid item will be paid to the Contractor after mobilization of the hydraulic dredge, booster pump(s), and support equipment; and hydraulic dredging operations have commenced.
- The remaining **twenty percent (20%)** of the cost for this bid item will be paid to the Contractor upon Acceptance of the Work and removal of all equipment and unused materials.

Construction Overview

DREDGE PIPELINE MOBILIZATION, INSTALLATION, AND DEMOBILIZATION (TS-101)

SCOPE (TS-101.1)

- Contractor shall furnish all of the labor, Equipment, and Materials necessary to mobilize, install, maintain, remove, and demobilize the dredge pipeline, the dredge pipeline corridor, and associated appurtenances and crossings in accordance with these Specifications and in conformity to the lines, grades, elevations, and tolerances shown on the Plans, or otherwise modified by the Engineer as a result of the Pre-Construction Survey.

DREDGE PIPELINE REACHES (TS-101.5)

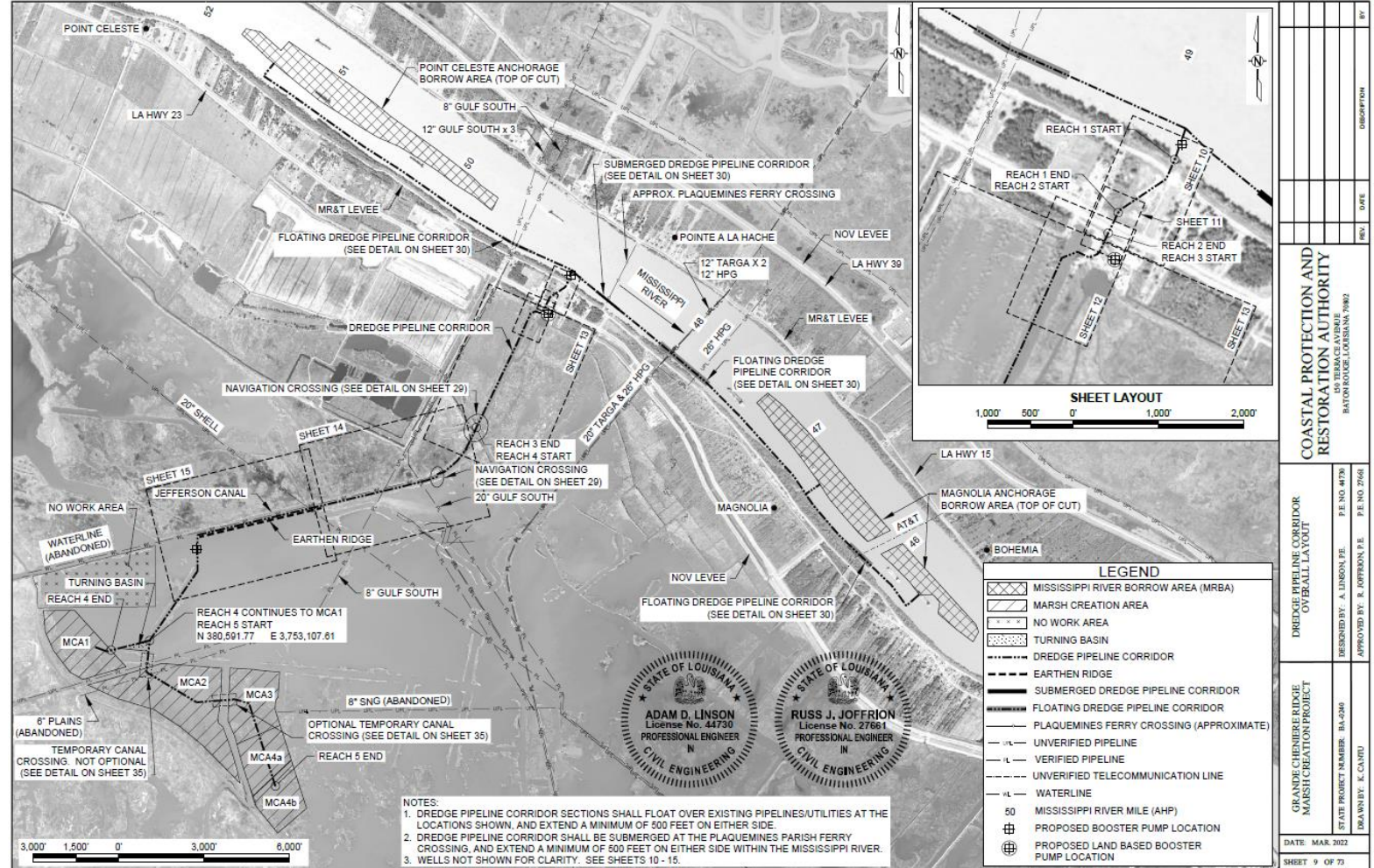
- Reach 1 – Mississippi River to LA 23 Crossing
- Reach 2 – LA 23 Crossing
- Reach 3 – LA 23 Crossing to Grand Bayou
- Reach 4 – Grand Bayou to Marsh Creation Area 1
- Reach 5 – Dredge Pipeline Corridor Split to Marsh Creation Area 4b

Construction Overview

DREDGE PIPELINE MOBILIZATION, INSTALLATION, AND DEMOBILIZATION (TS-101)

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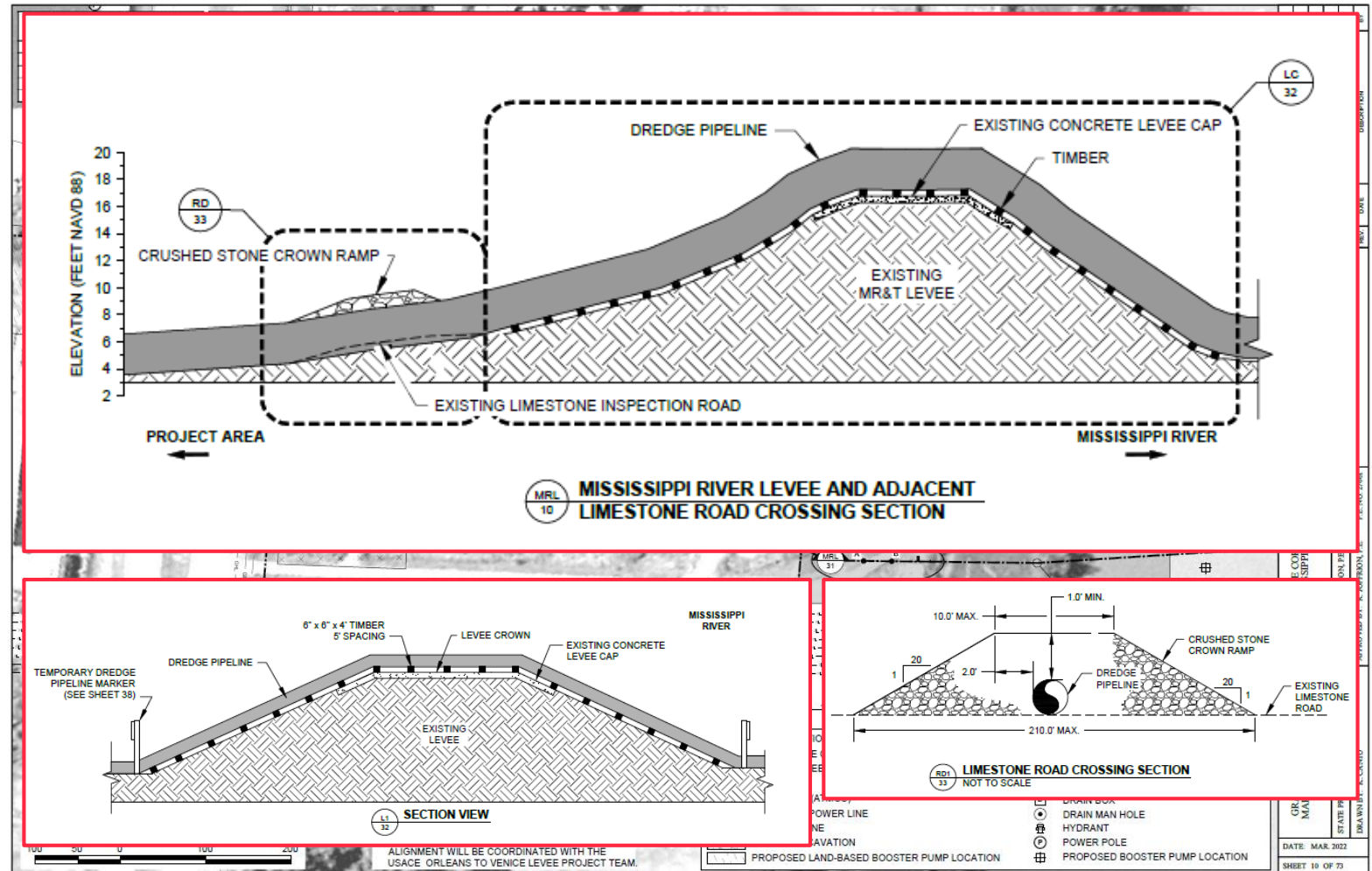


Construction Overview

DREDGE PIPELINE MOBILIZATION, INSTALLATION, AND DEMOBILIZATION (TS-101)

DREDGE PIPELINE REACHES (TS-101.5)

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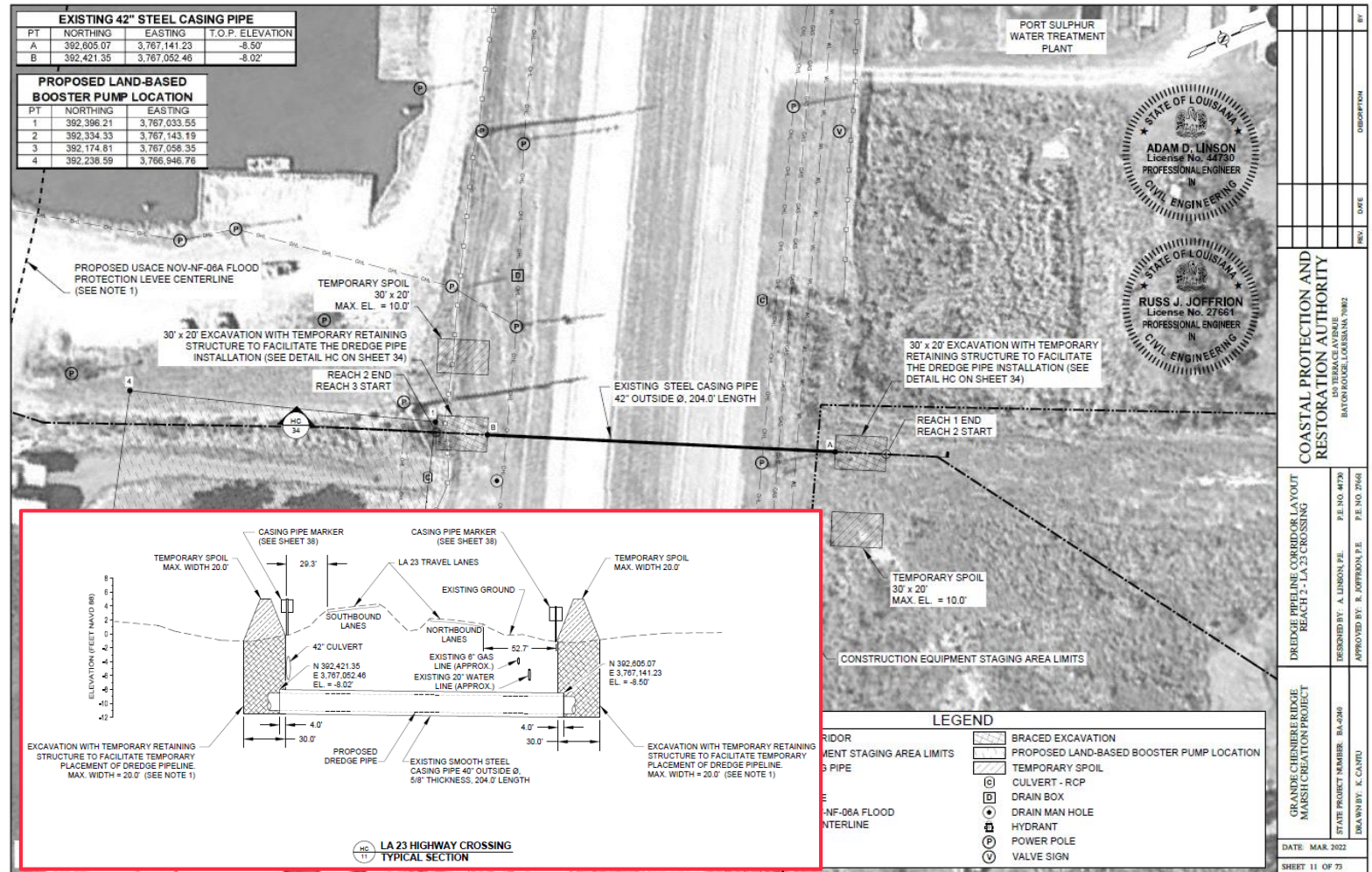


Construction Overview

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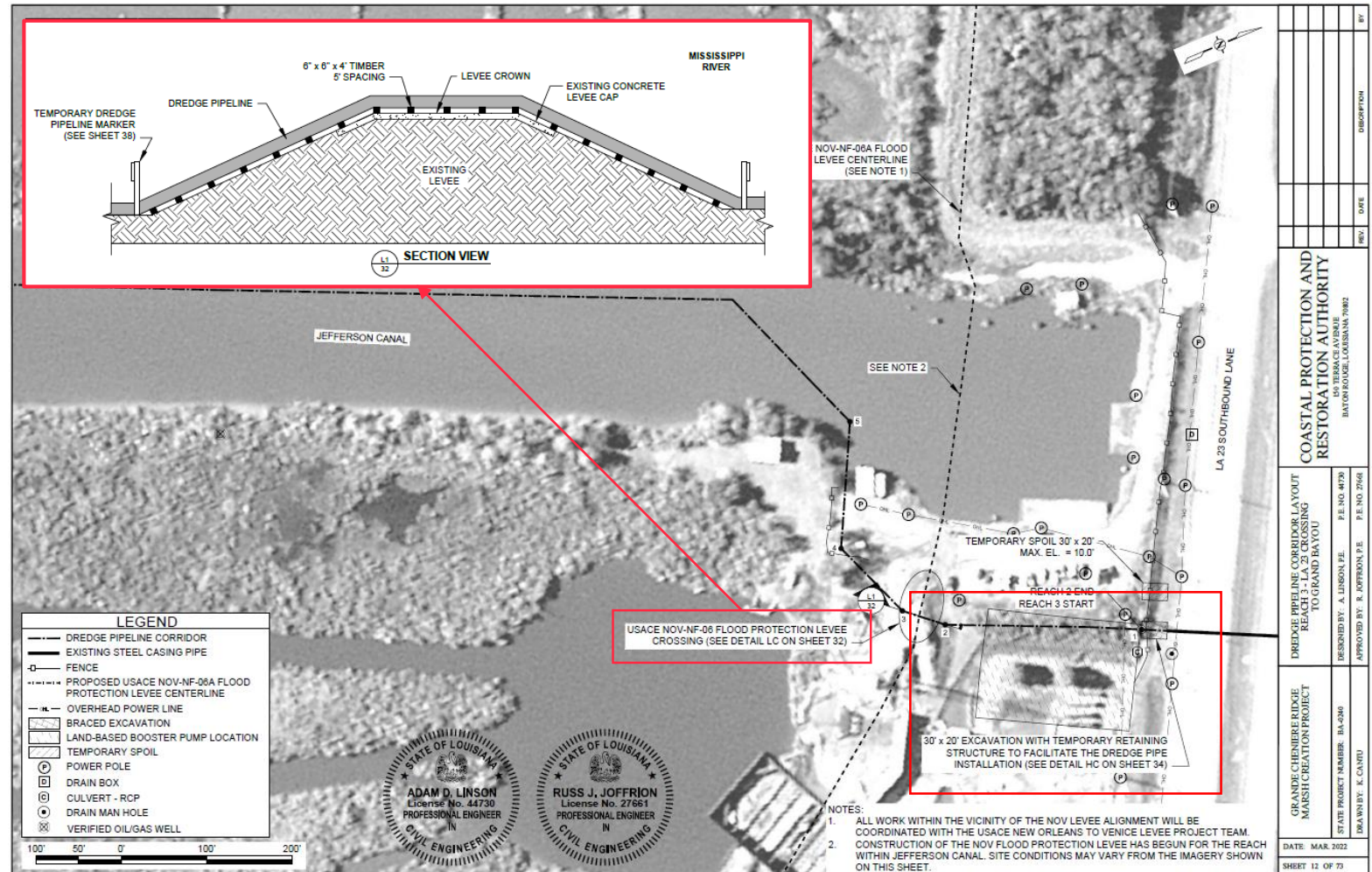


Construction Overview

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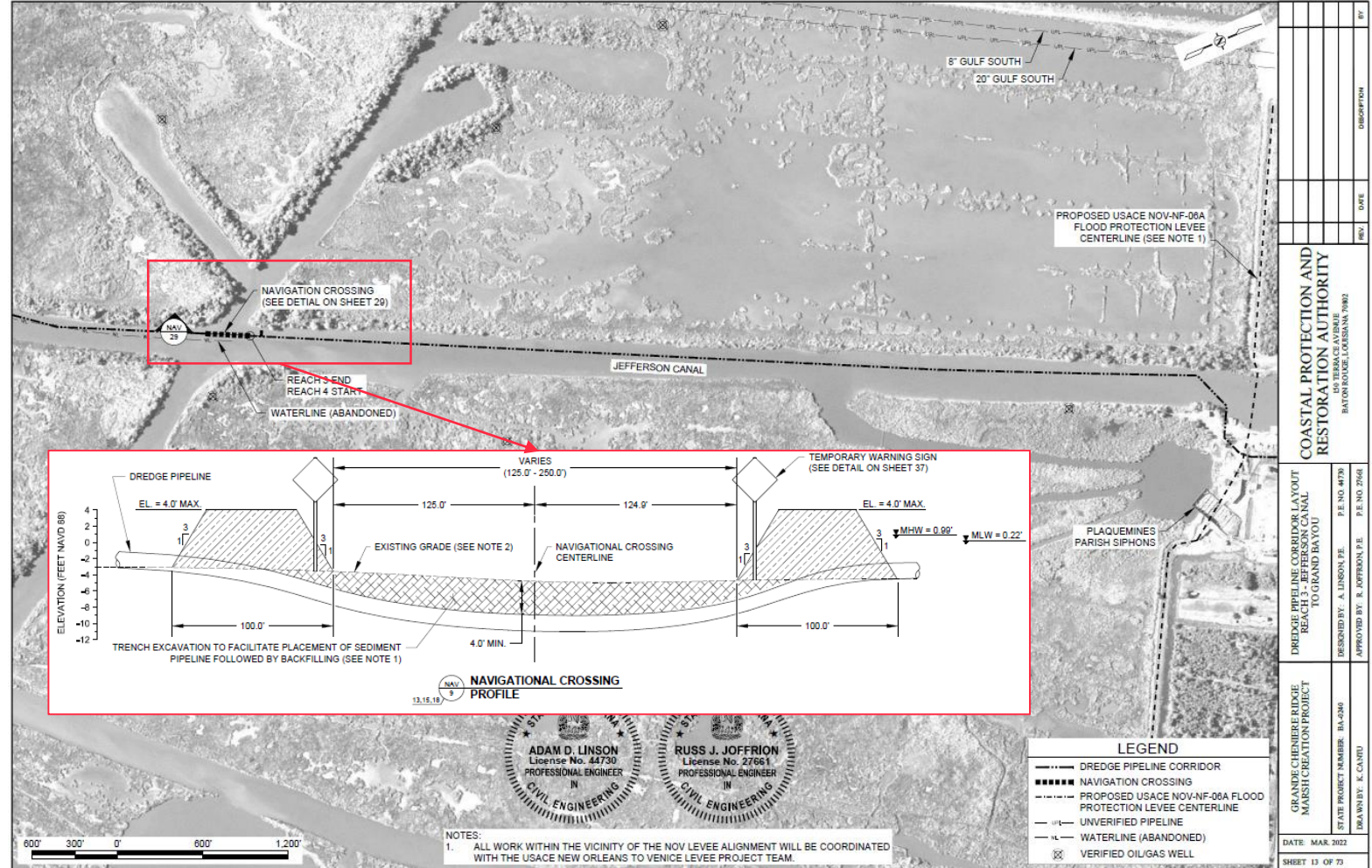


Construction Overview

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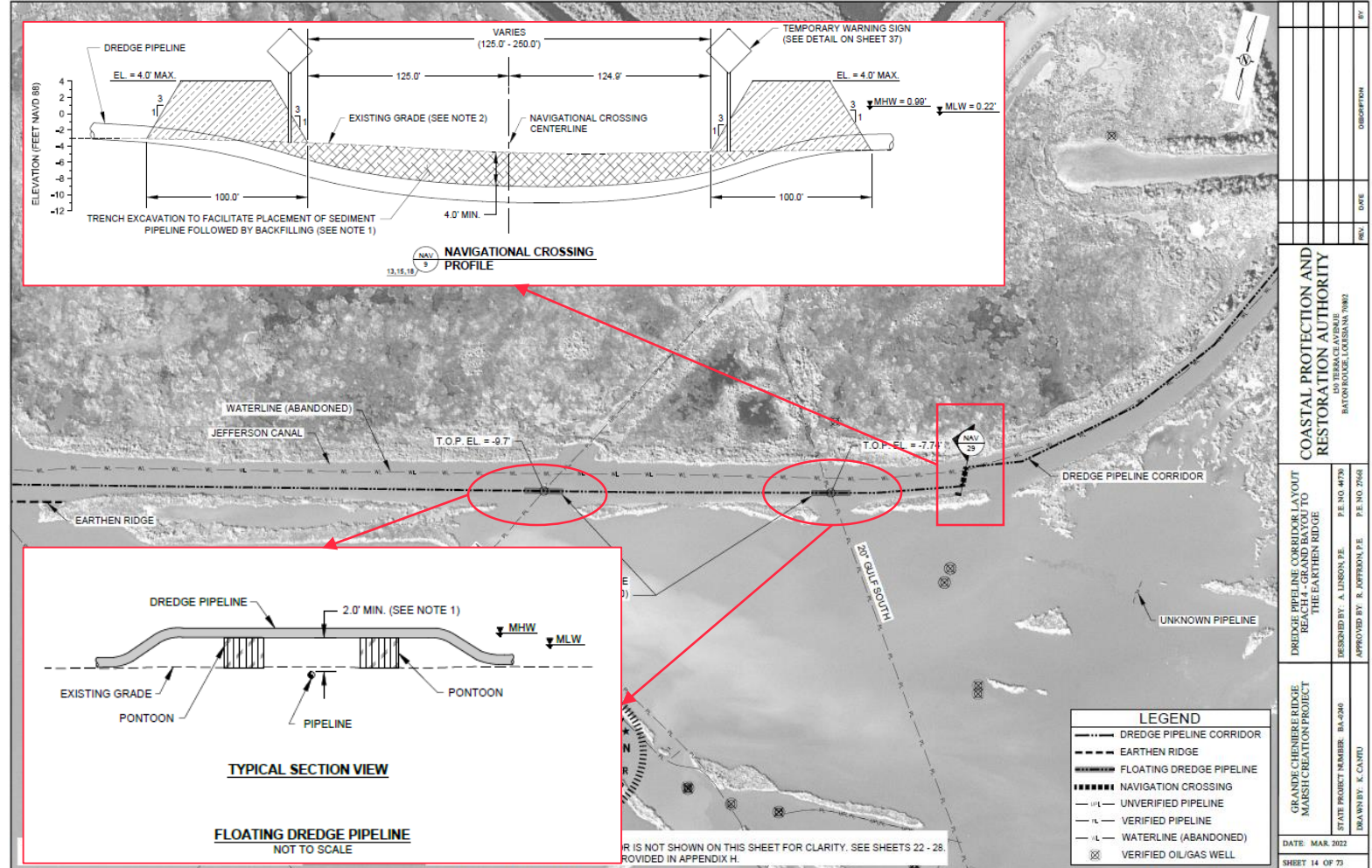


Construction Overview

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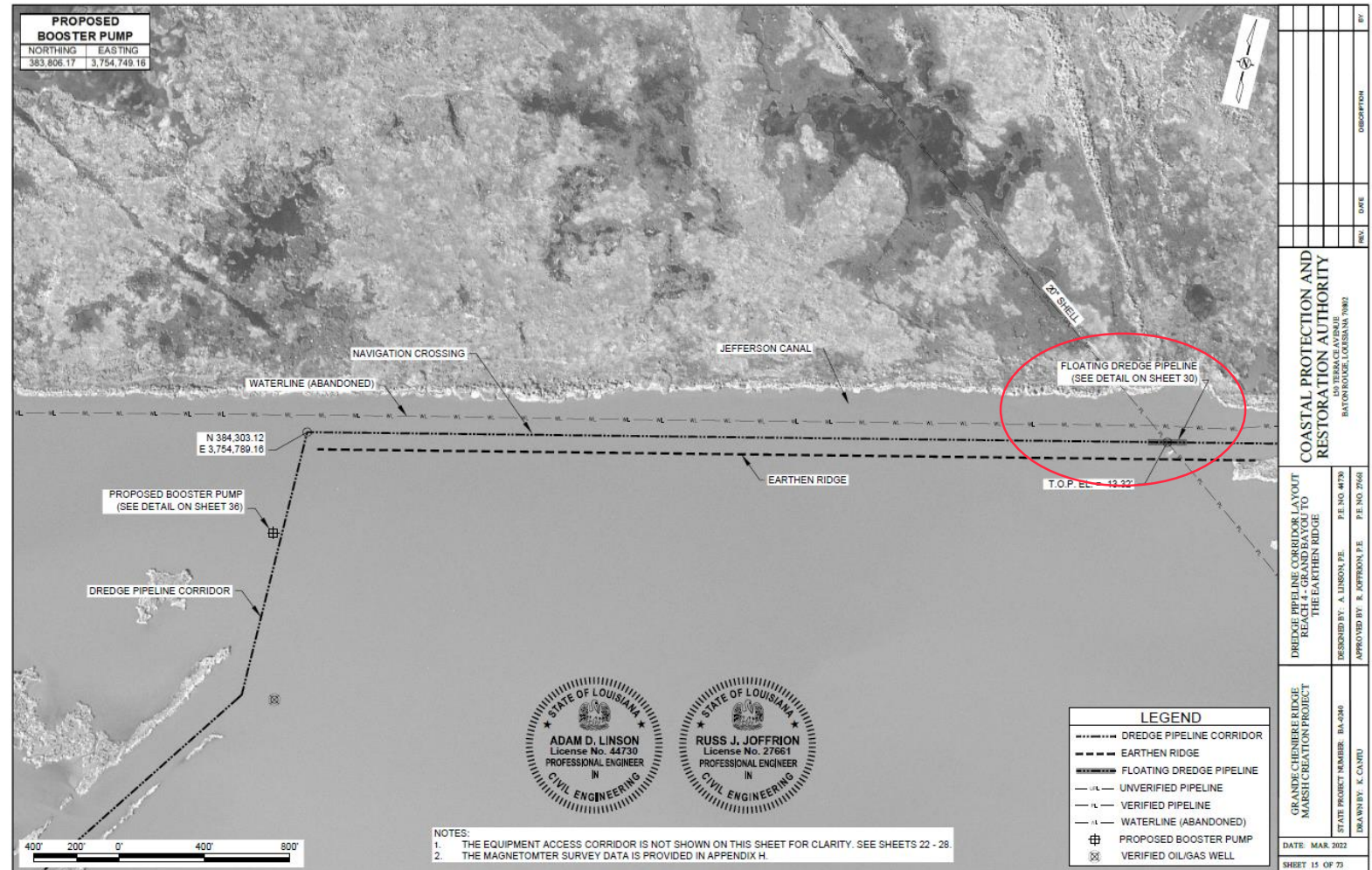


Construction Overview

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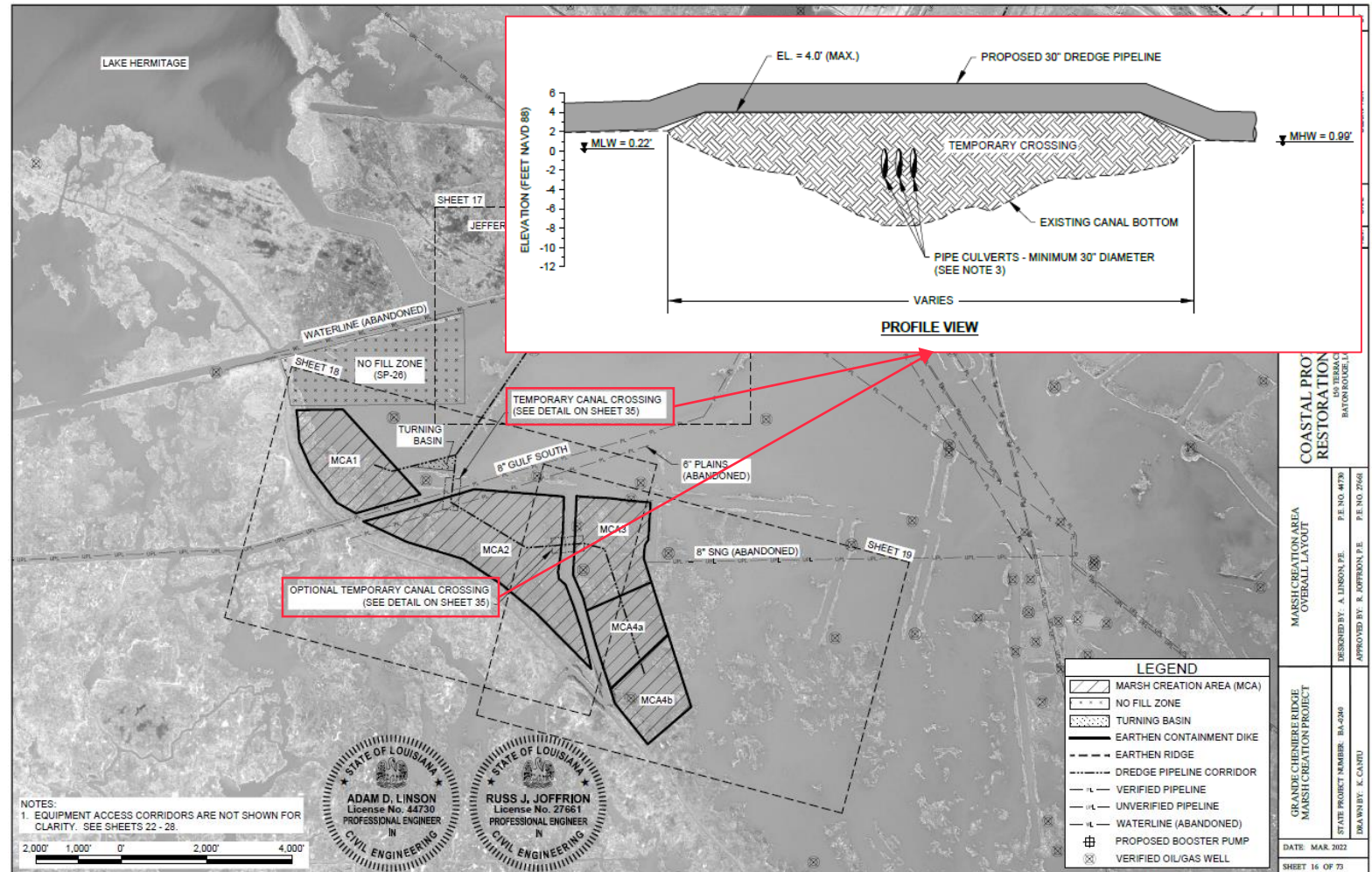


Construction Overview

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Construction Overview

SURVEYS (TS-200)

REFERENCE AND CONTROL (TS-200.3)

- Vertical Control – NAVD88, U.S. Survey Feet, Geoid12B-Epoch 2010.00
- Horizontal Control – NAD 83, Louisiana South Zone, U.S. Survey Feet

PRE-CONSTRUCTION SURVEY (TS-200.8)

- The Pre-Construction Survey shall show the existing bathymetry, topography, existing infrastructure, and magnetic detections in plan and profile using markers, spot elevations, coordinates, contours, lines, and grades.

PROCESS SURVEYS (TS-200.9)

- The Process Surveys shall be used to verify partial payments, determine Acceptance for completed portions of the Work, and to adjust quantities of the bid items as deemed necessary by the Engineer.

AS-BUILT SURVEY (TS-200.10)

- The As-Built Survey shall be used to verify final payments and Acceptance for all Work.

Construction Overview

SURVEYS (TS-200)

RATIO OF EFFORT/PAYMENT (TS-200.13)

- Fifty percent (50%) of the Contract cost for this bid item will be paid for the Contractor upon Acceptance of the Pre-Construction Surveys, less the Marsh Creation Areas.
- Thirty percent (30%) will be paid to the Contractor upon completion of all Process Surveys and the Marsh Creation Area Pre-Construction Surveys.
- Twenty percent (20%) will be paid to the Contractor upon Acceptance of the complete As-Built survey.

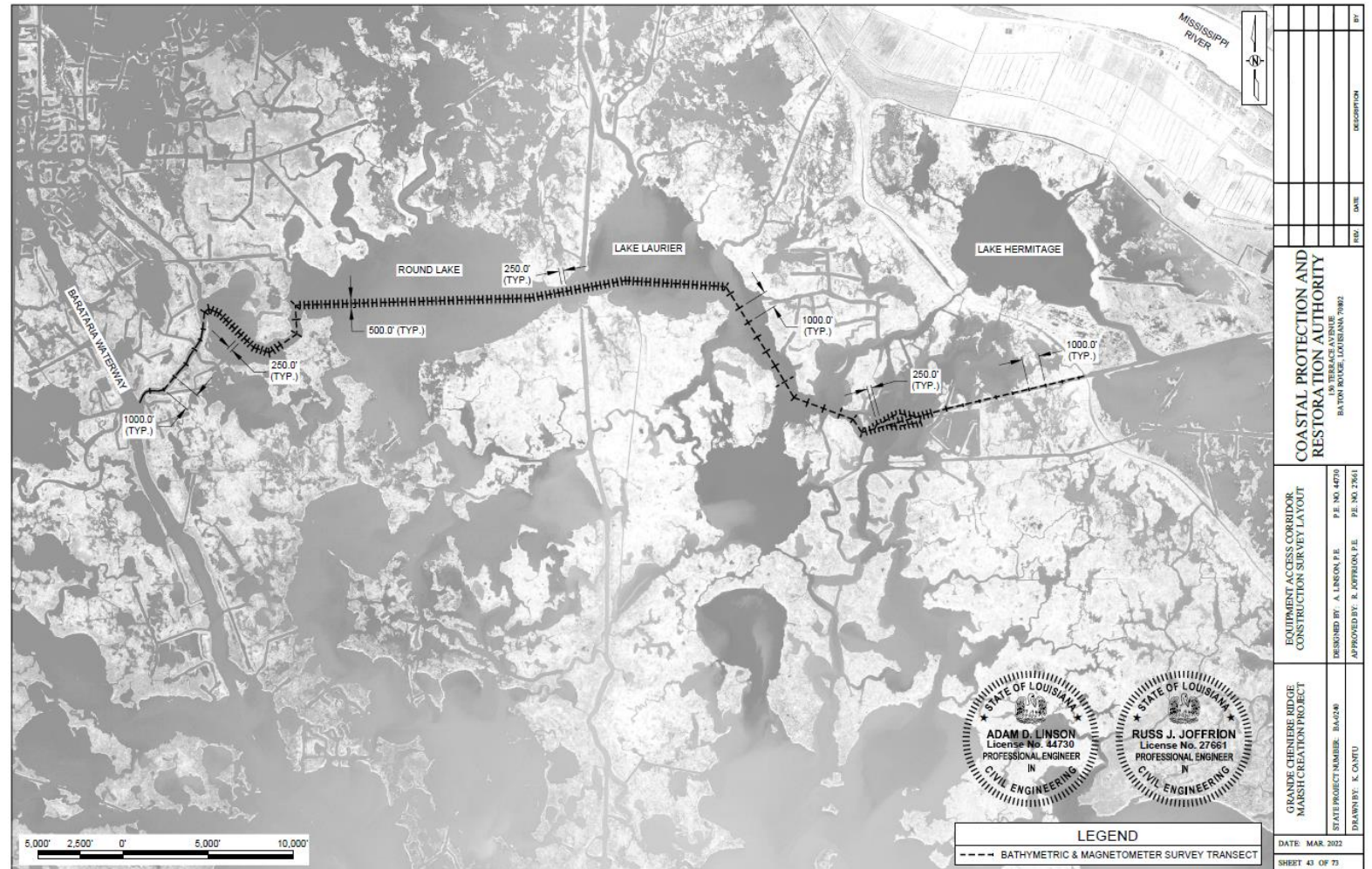
MEASUREMENT AND PAYMENT (TS-200.14)

- Payment shall be made at the Contract lump sum price for Bid Item No. 2, “Surveys (TS-200)”. Payment shall constitute full compensation for furnishing the material, labor, Equipment and other incidentals related to this item of the Work.
- **200.14.1** Alternate Bid #1: If Alternate Bid #1 is awarded, payment shall be made at the contract lump sum price for Bid Item No. 13 “Surveys – MCA-4a (TS-200)”.
- **200.14.2** Alternate Bid #2: If Alternate Bid #2 is awarded, payment shall be made at the contact unit price per each for Bid Item No. 19 “Surveys – MCA-4b (TS-200)”.

Construction Overview

SURVEYS (TS-200)

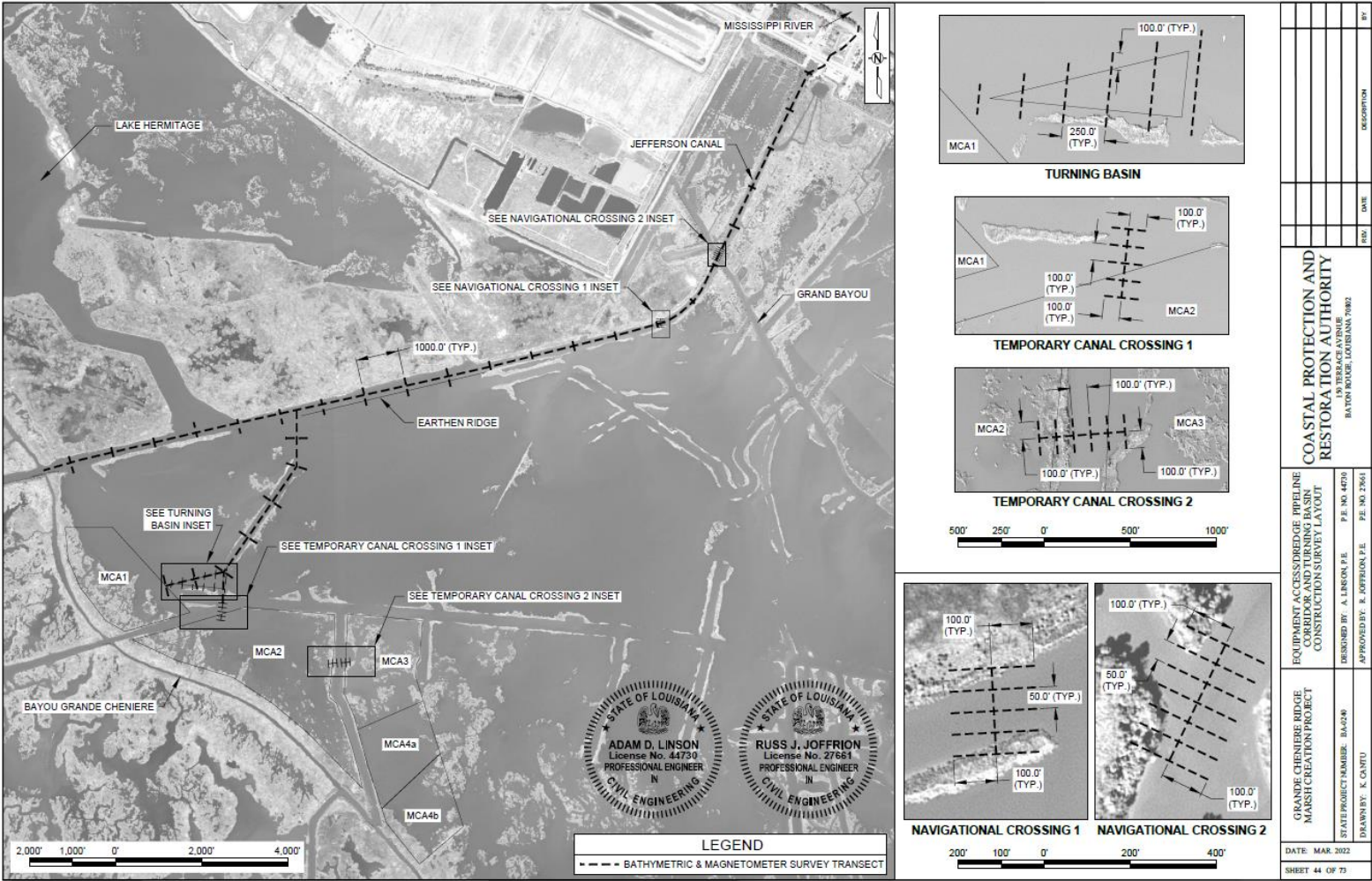
- **Equipment Access Corridor Surveys (Sheet 43)**
- Equipment Access / Dredge Pipeline Corridor and Turning Basin (Sheet 44)
- MR&T Levee to NOV Flood Protection Levee (Sheet 45)
- Mississippi River Borrow Areas (Sheet 46)
- Marsh Creation Areas Survey Layout (Sheets 47 & 48)



Construction Overview

SURVEYS (TS-200)

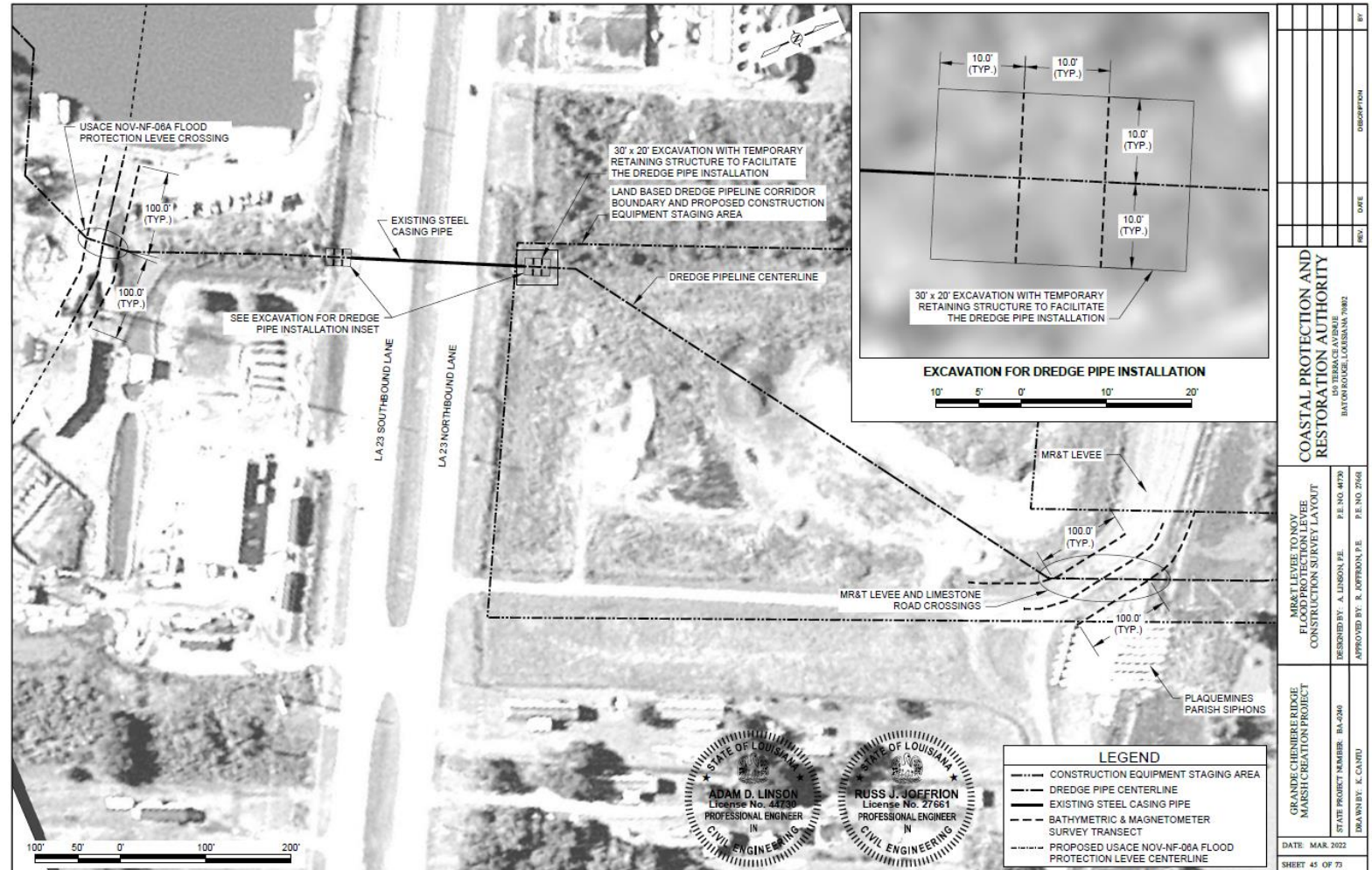
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Construction Overview

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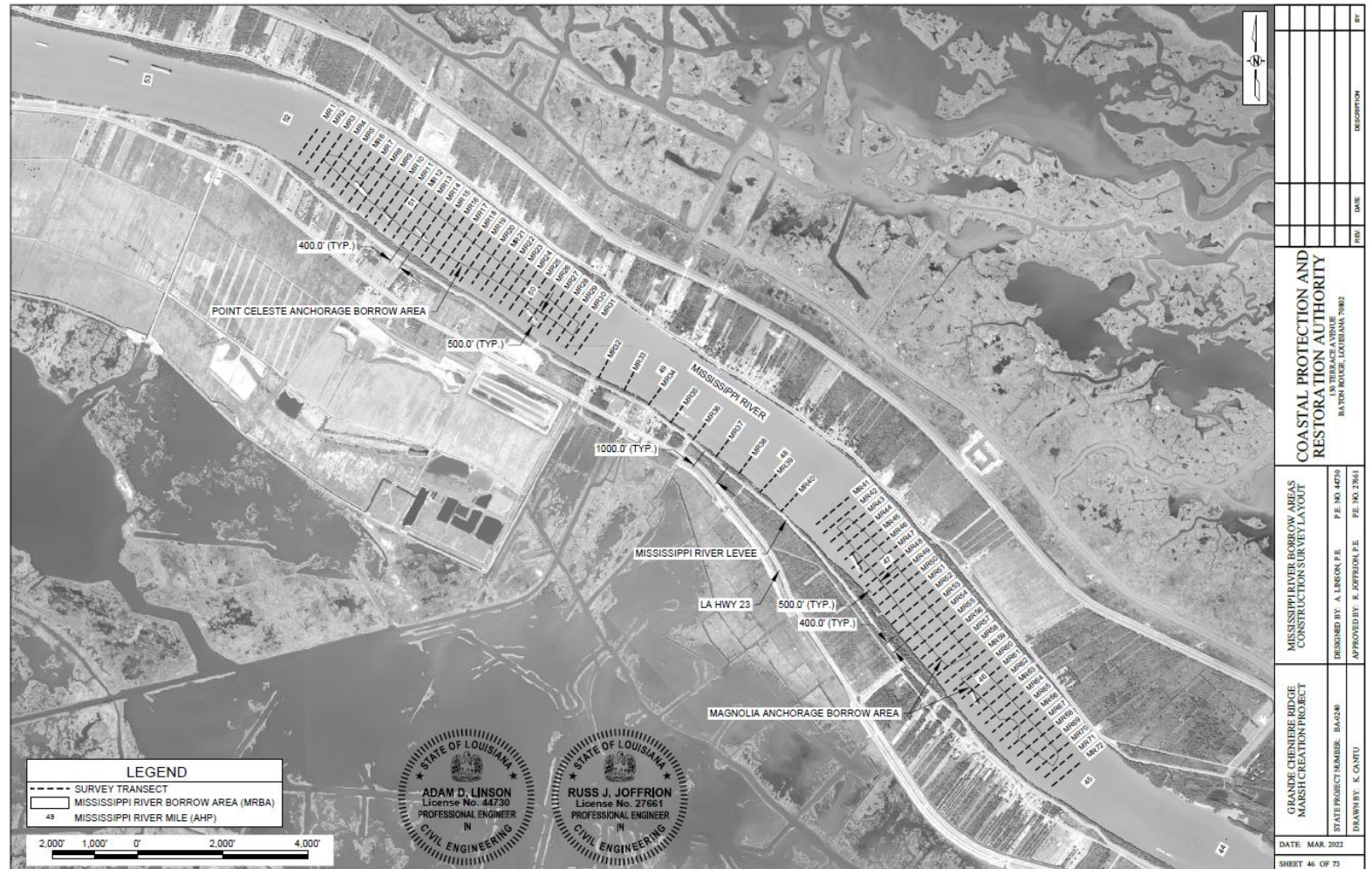
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Construction Overview

SETTLEMENT PLATES (TS-270)

ACCEPTANCE (TS-270.6)

- The Engineer shall determine Acceptance based on a review of the Pre- Construction Surveys.

RATIO OF EFFORT/PAYMENT (TS-270.7)

- Ninety percent (90%) of the Contract cost for this bid item will be paid to the Contractor upon Acceptance of the Settlement Plates.
- The remaining ten percent (10%) will be paid to the Contractor upon Acceptance of the Marsh Creation Fill Areas.

MEASUREMENT AND PAYMENT (TS-270.8)

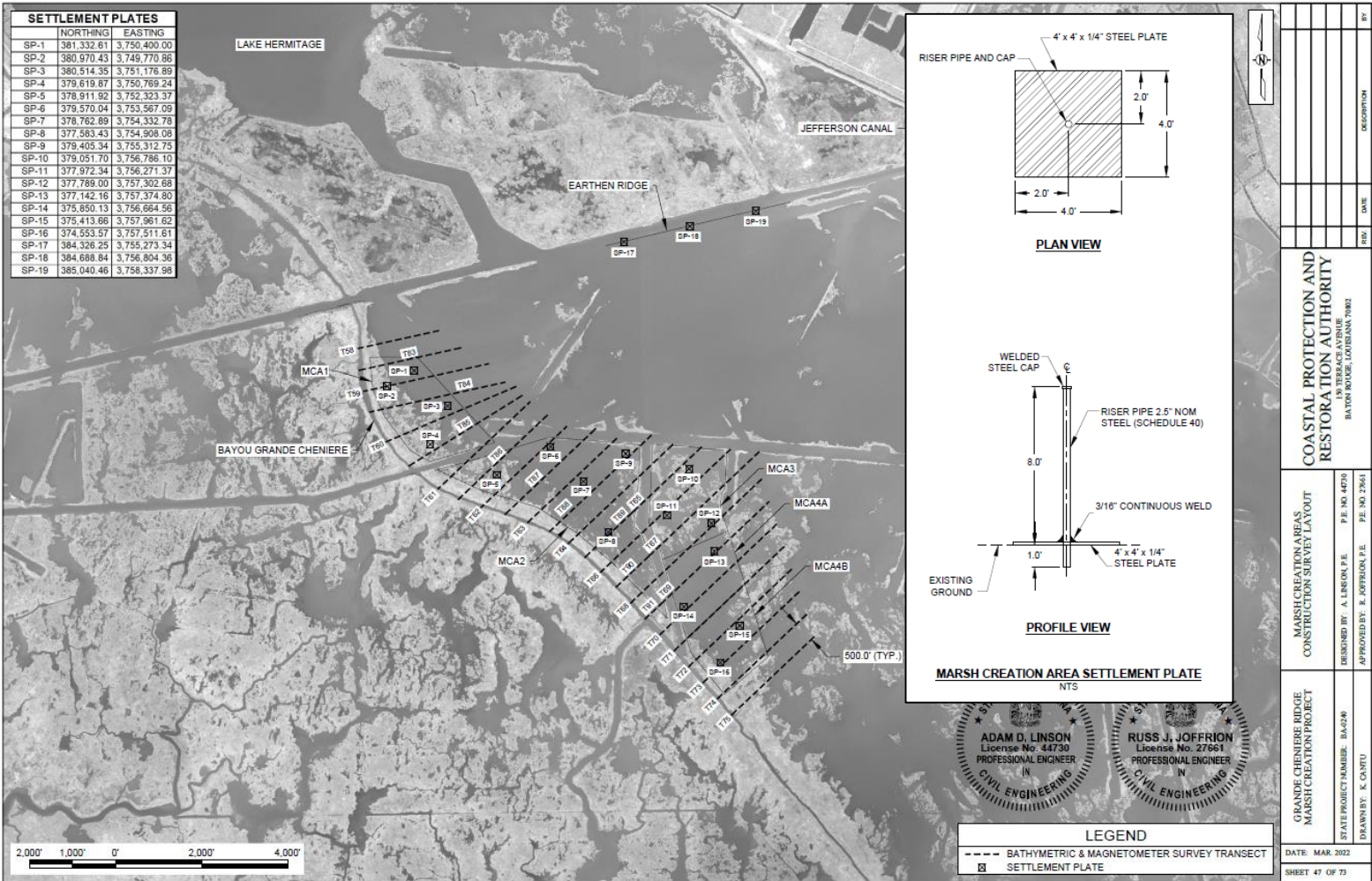
- Payment shall be made at the contract unit price per each for Bid Item No. 3, “Settlement Plates (TS-270)”.
- If Alternate Bid #1 is awarded, payment shall be made at the contract unit price per each for Bid Item No. 14 “Settlement Plates – MCA-4a (TS-270)”.
- If Alternate Bid #2 is awarded, payment shall be made at the contract unit price for each for Bid Item No. 20 “Settlement Plates – MCA-4b (TS-270)”.

Construction Overview

SETTLEMENT PLATES (TS-270)

SETTLEMENT PLATE SURVEYS (TS-200.9.8)

- Marsh fill elevation and top of pipe for all settlement plates shall be surveyed at the following intervals:
 - Every five (5) days during fill placement and prior to Acceptance of the respective Marsh Creation Area;
 - Every seven (7) days until one (1) month after Acceptance of the respective Marsh Creation Area, and;
 - Bi-weekly thereafter until acceptance of all Marsh Creation Areas.

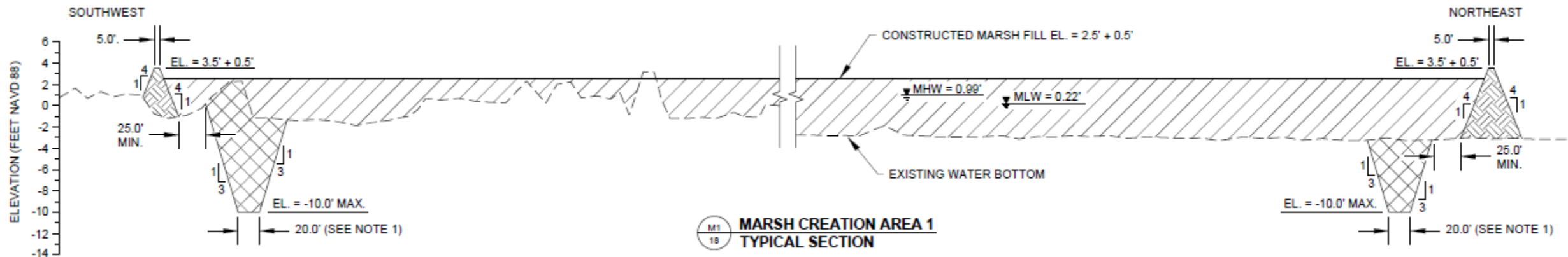


Construction Overview

EARTHEN CONTAINMENT DIKES (TS-300)

FEATURE OVERVIEW

- 31,882 LF, 41,655 LF with alternate items included
- Geometry:
 - 5-ft crown width
 - 4H:1V side slopes
 - Crown Elevation: $+3.5' + 0.5'$
- 25' minimum bench width from ECD borrow area
- ECD borrow area cut elevation is $-10.0'$ max.
- Upon Acceptance of the Marsh Creation Areas, segments of the ECDs shall be gapped or degraded to the same elevation as the Marsh Creation Areas.
- Minimum 1' of freeboard must be maintained during construction.



Construction Overview

EARTHEN CONTAINMENT DIKES (TS-300)

RATIO OF EFFORT/PAYMENT (TS-300.10)

- Ninety percent (90%) of the Contract cost for this bid item will be paid to the Contractor after Acceptance of the ECDs.
- The remaining ten percent (10%) will be paid to the Contractor after Acceptance of all Marsh Creation Areas and the As-Built Survey of the degraded sections of ECDs specified in TS-200.10.9.

MEASUREMENT AND PAYMENT (TS-300.11)

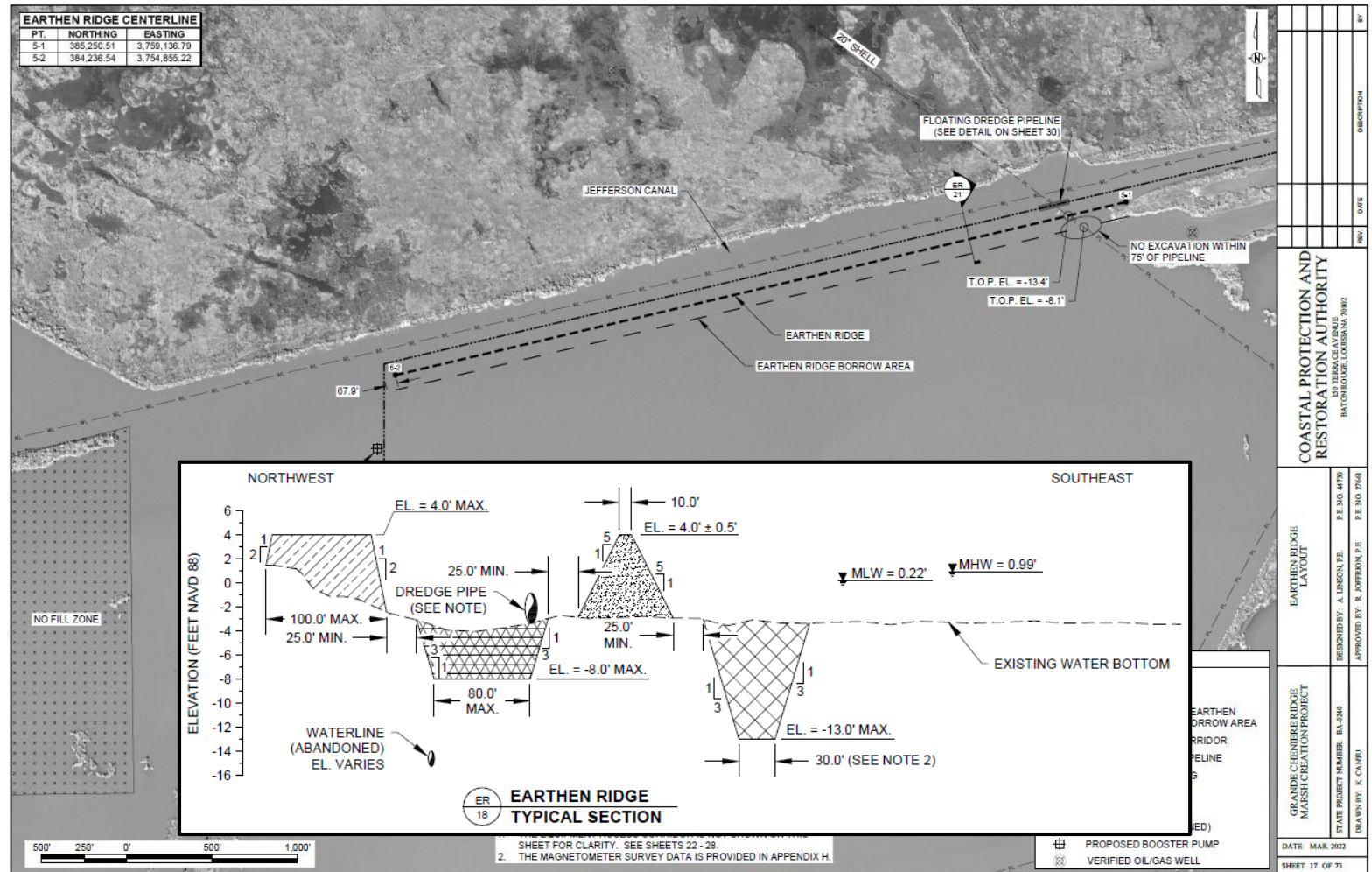
- Payment for these ECDs shall be made at the Contract unit price per linear foot for Bid Item No. 4, “Earthen Containment Dikes (TS-300)”.
- If Alternate Bid #1 is awarded, payment shall be made at the contract unit price per linear foot for Bid Item No. 15 “Earthen Containment Dikes – MCA-4a (TS-300)” and Bid Item No. 16 “Deduct Earthen Containment Dikes – MCA-3 (TS-300)”.
- If Alternate Bid #2 is awarded, payment shall be made at the contact unit price per linear foot for Bid Item No. 21 “Earthen Containment Dikes – MCA-4b (TS-300)” and Bid Item No. 22 “Deduct Earthen Containment Dikes – MCA-4a (TS-300)”.

Construction Overview

EARTHEN RIDGE (TS-320)

FEATURE OVERVIEW

- 4,400 LF
- Geometry:
 - 10-ft crown width
 - 5H:1V side slopes
 - Crown Elevation: $+4.0' \pm 0.5'$
- 25' minimum bench width from ER borrow area
- ER borrow area cut elevation is $-13.0'$ max.



Construction Overview

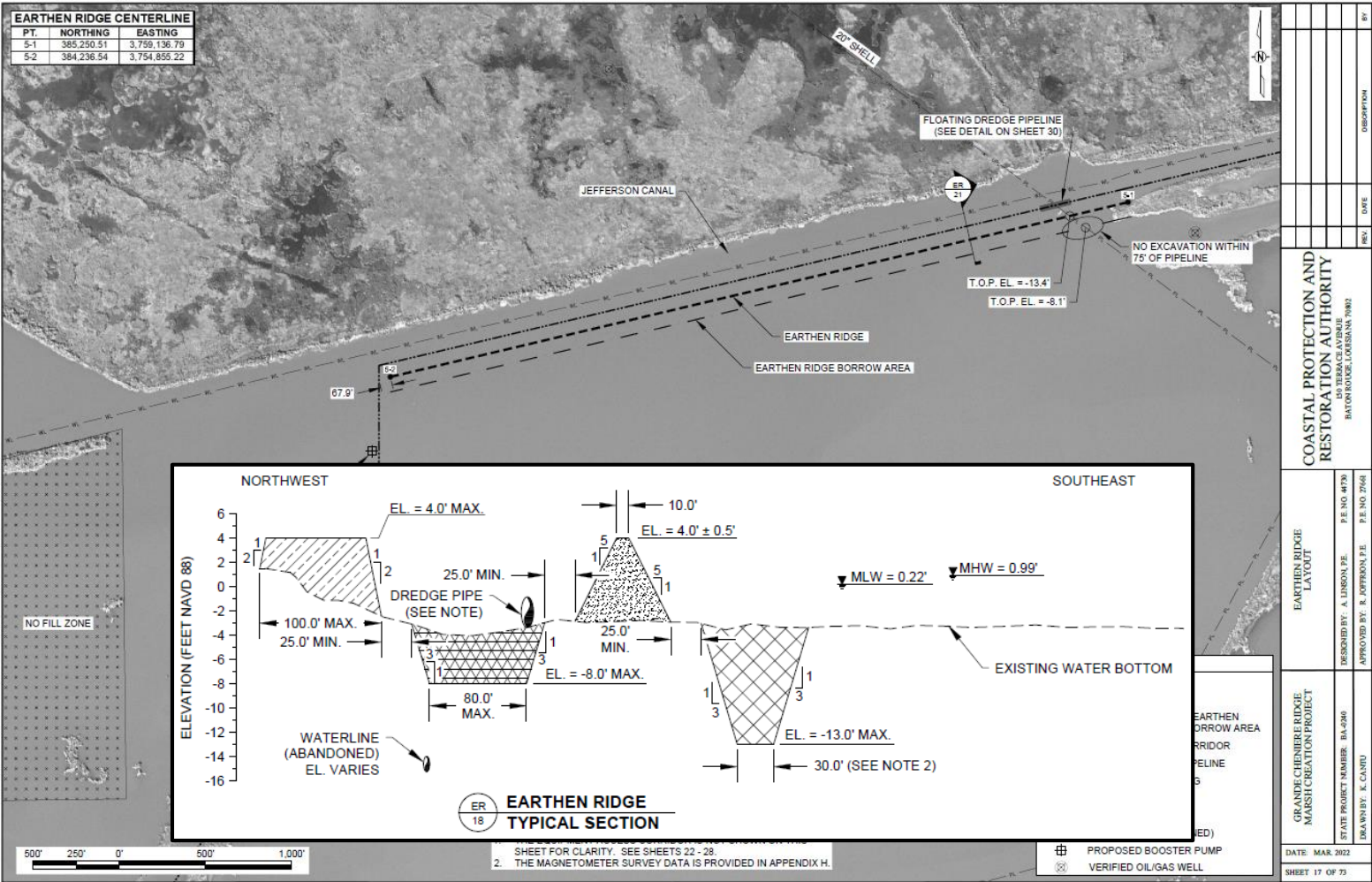
EARTHEN RIDGE (TS-320)

RATIO OF EFFORT/PAYMENT (TS-320.9)

- Seventy percent (70%) of the Contract cost for this bid item will be paid to the Contractor after Acceptance of the Earthen Ridge.
- The remaining thirty percent (30%) will be paid to the Contractor after Acceptance of all Marsh Creation Areas and after the As-Built Survey of the Earthen Ridge showing conformity with the lines, grades, elevations, and tolerances shown on the Plans.

MEASUREMENT AND PAYMENT (TS-320.10)

- Payment for the Earthen Ridge shall be made at the Contract unit price per linear foot for Bid Item No. 5 “Earthen Ridge (TS-320)”.



Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

SCOPE (TS-330.1)

- The dredged section(s) may not be required, or need to be dredged to the elevation shown on the Plans, depending on the draft requirements of the Contractor's Equipment and as determined by the Contractor.
- The dredging limits may be less than what is shown on the Plans, but shall not exceed the limits shown on the Plans.
- In the event that the dredged section(s) of the Equipment Access Corridor will be dredged to a template different than what is shown on the Plans, the Contractor shall provide the lines, grades, and elevations of the proposed template to the Engineer for approval.
- The Equipment Access Channels shall be maintained in a useable configuration throughout the duration of the Work at the expense of the Contractor.

EQUIPMENT ACCESS CORRIDOR REACHES (TS-330.2)

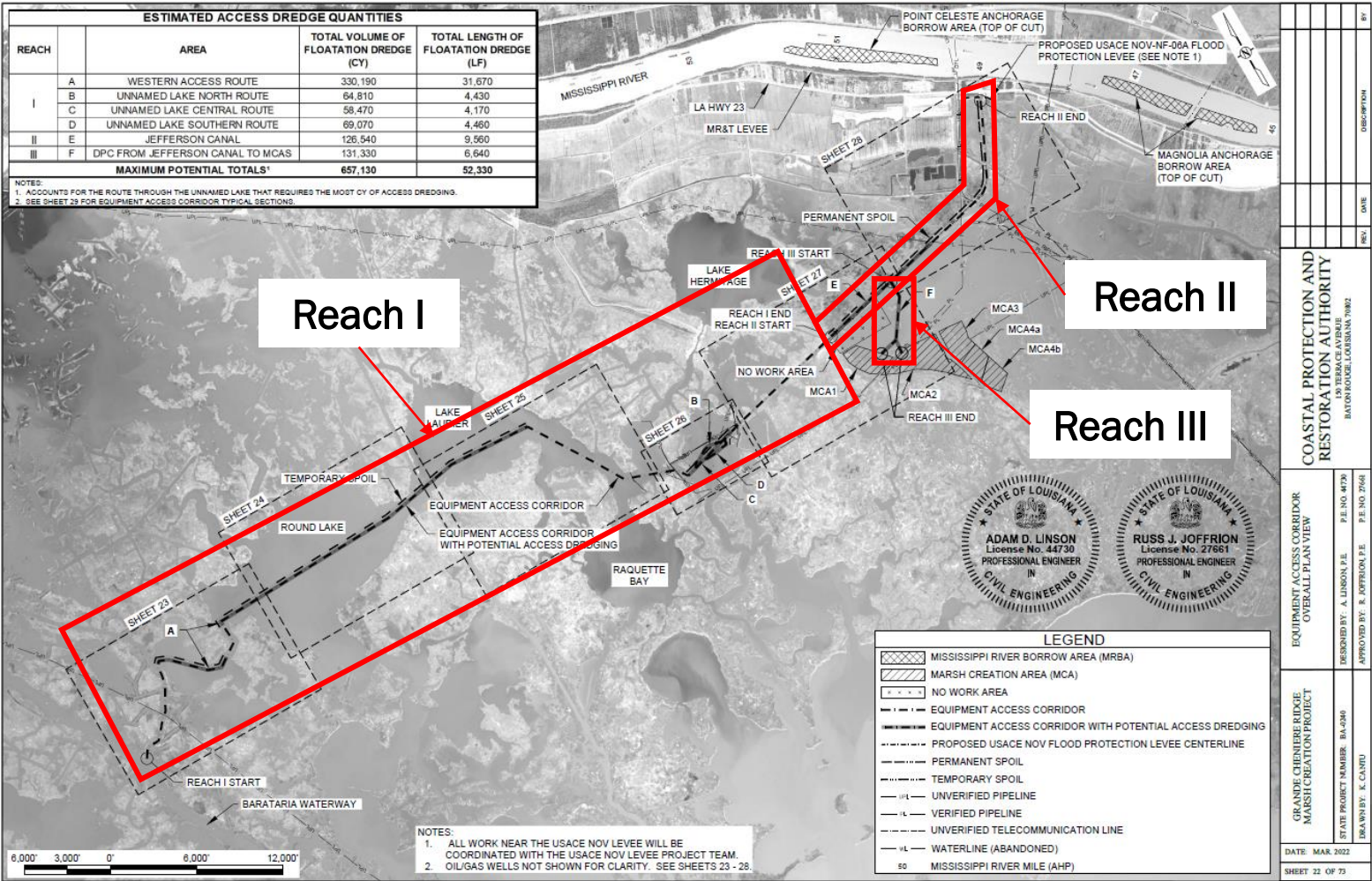
- (TS-330.2.1) Reach I – Western Access Route: This reach extends from Barataria Waterway to the intersection of Jefferson Canal and Bayou Grande Cheniere
- (TS-330.2.2) Reach II – Jefferson Canal: This reach extends from the intersection of Jefferson Canal and Bayou Grande Cheniere to the NOV Flood Protection System
- (TS-330.2.3) Reach III – DPC from Jefferson Canal to the MCAs: This reach extends from the intersection of the DPC at Jefferson Canal to the MCAs

Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

EQUIPMENT ACCESS CORRIDOR REACHES (TS-330.2)

- (TS-330.2.1) Reach I – Western Access Route: This reach extends from Barataria Waterway to the intersection of Jefferson Canal and Bayou Grande Cheniere
- (TS-330.2.2) Reach II – Jefferson Canal: This reach extends from the intersection of Jefferson Canal and Bayou Grande Cheniere to the NOV Flood Protection System
- (TS-330.2.3) Reach III – DPC from Jefferson Canal to the MCAs: This reach extends from the intersection of the DPC at Jefferson Canal to the MCAs

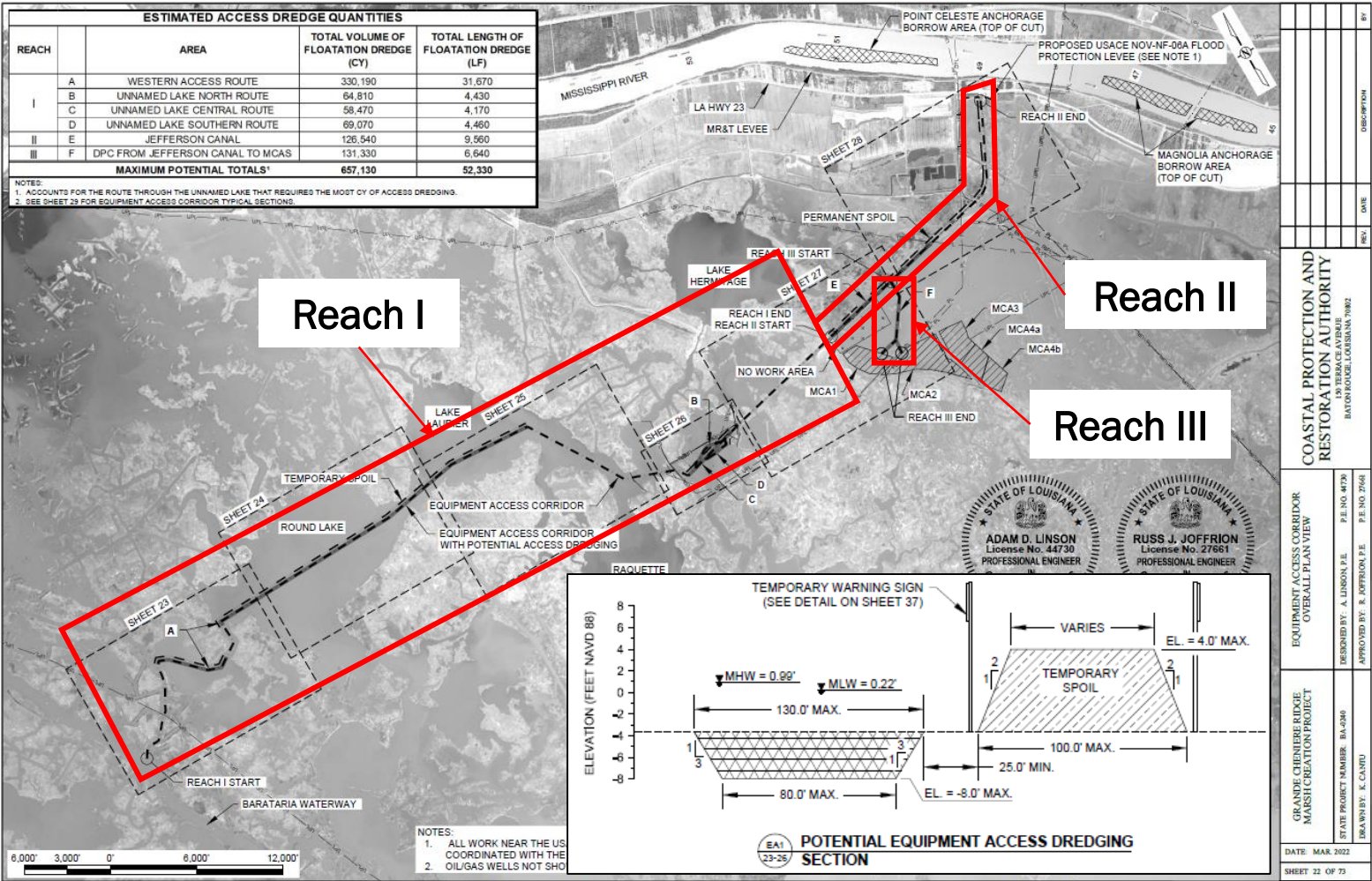


Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

EQUIPMENT ACCESS CORRIDOR DREDGING (TS-330.5)

- It shall be the responsibility of the Contractor to obtain a permit modification and prior approval from the Engineer in order to enlarge or relocate the Equipment Access Corridor.
- For the Equipment Access Corridor from Barataria Waterway to Jefferson Canal, any dredged material shall be temporarily deposited on the northern side of the Equipment Access Corridor and include a 50-foot gap for every 1,000 feet of deposited dredge material.
- For the Equipment Access Channels within Jefferson Canal in areas adjacent to the existing marsh creation areas to the north, the dredge material shall be permanently placed within the footprint of the exiting marsh creation areas to the north of Jefferson Canal as shown on the Plans.

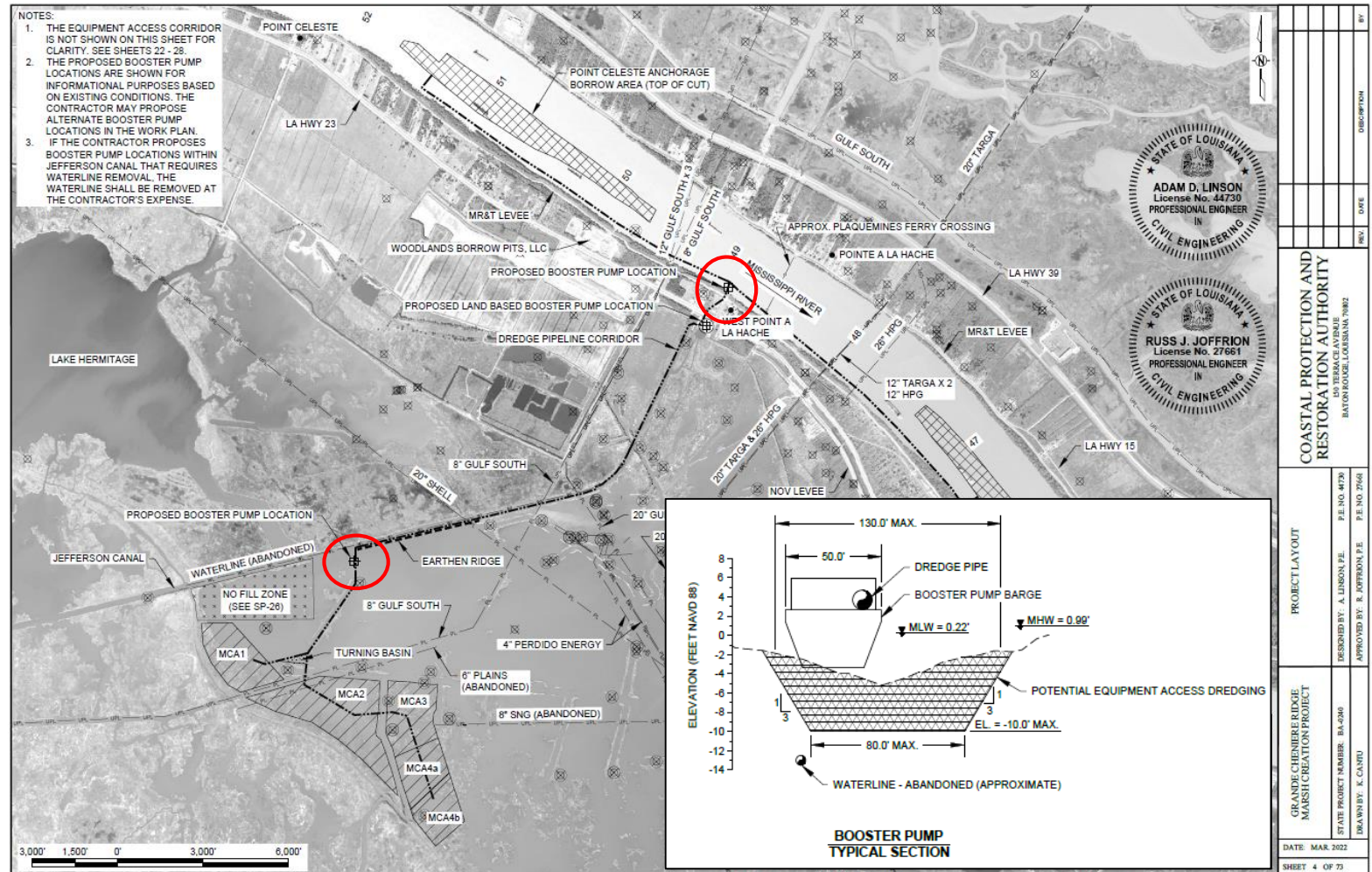


Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

BOOSTER PUMP ACCESS DREDGING (TS-330.6)

- If it is determined that dredging for booster pump placement is necessary based on the Contractor's Equipment, excavation shall occur within the limits shown on the Plans.
- The proposed booster pump locations shown on the plans are for informational purposes based on existing conditions. The Contractor may propose alternate booster pump locations in the Work Plan.
- If the Contractor proposes booster pump locations within Jefferson Canal that requires waterline removal, the waterline shall be removed at the Contractor's expense.
- Spoil shall be temporarily deposited.

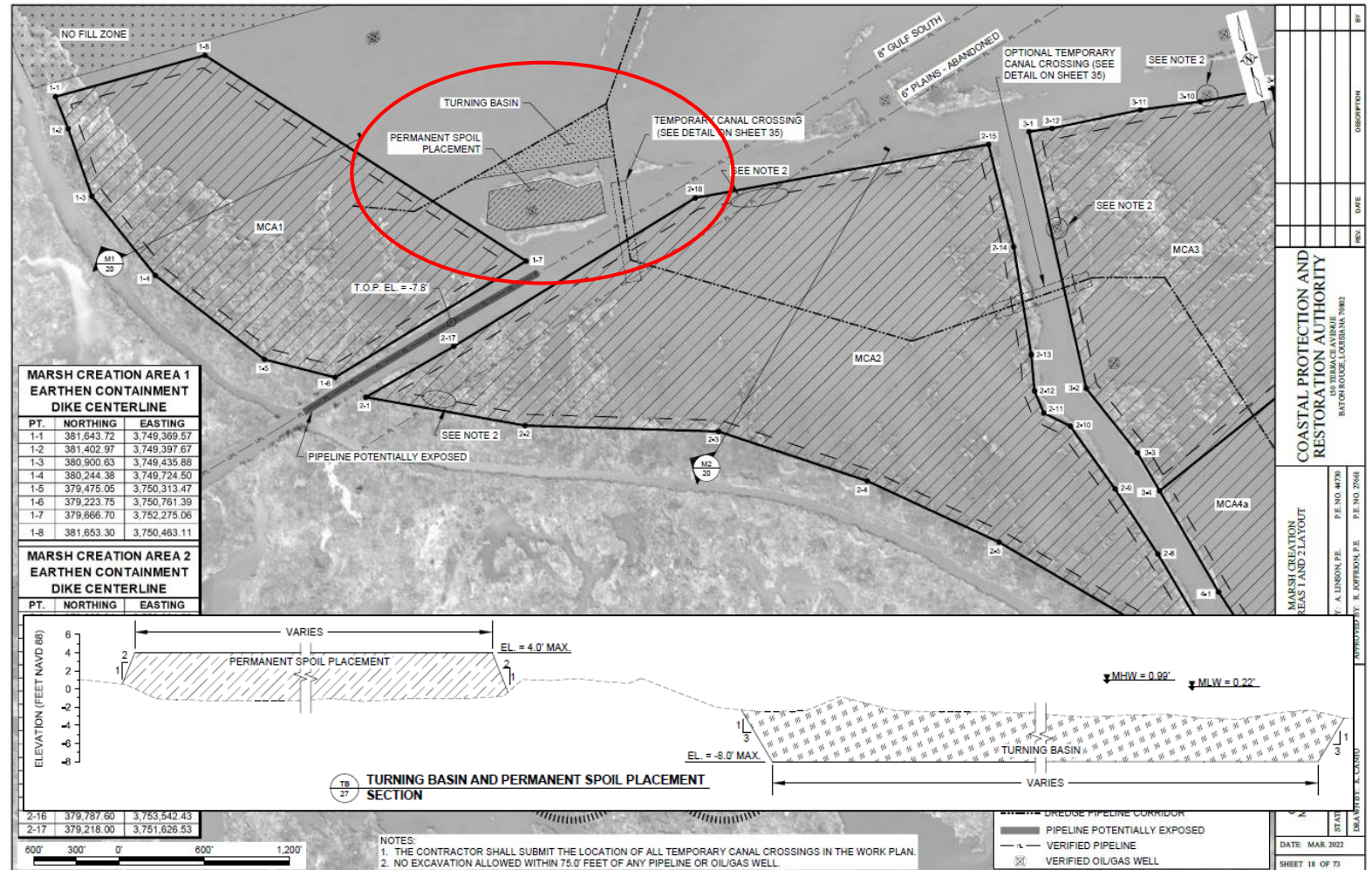


Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

TURNING BASIN (TS-330.7)

- If it is determined that dredging of a Turning Basin is necessary to facilitate equipment access, excavation shall occur within the limits shown on the Plans.
- Geometry:
 - Max Cut Elevation: -8.0'
 - Excavation Side Slopes: 3H:1V
 - Spoil Placement Height: +4.0' max
 - Spoil Side Slopes: 2H:1V
- It shall be the responsibility of the Contractor to obtain a permit modification and prior approval from the Engineer in order to enlarge or relocate the proposed Turning Basin.
- Spoil shall be permanently deposited at the location shown on the Plans.



Construction Overview

EQUIPMENT ACCESS CORRIDOR (TS-330)

MAINTENANCE (TS-330.8)

- Equipment Access Channels, Booster Pump Access Dredging, and Turning Basin shall be maintained in accordance with TS-330.5 and as shown on the Plans.

RATIO OF EFFORT/PAYMENT (TS-330.10)

- Once the Contractor has completed dredging and marking the Equipment Access Channels, Turning Basin, and booster pump placement location as shown on the Plans, the Contractor shall be paid seventy percent (70%) of the contract lump sum price.
- The remaining thirty percent (30%) will be paid upon the successful completion of backfilling operations.

MEASUREMENT AND PAYMENT (TS-330.11)

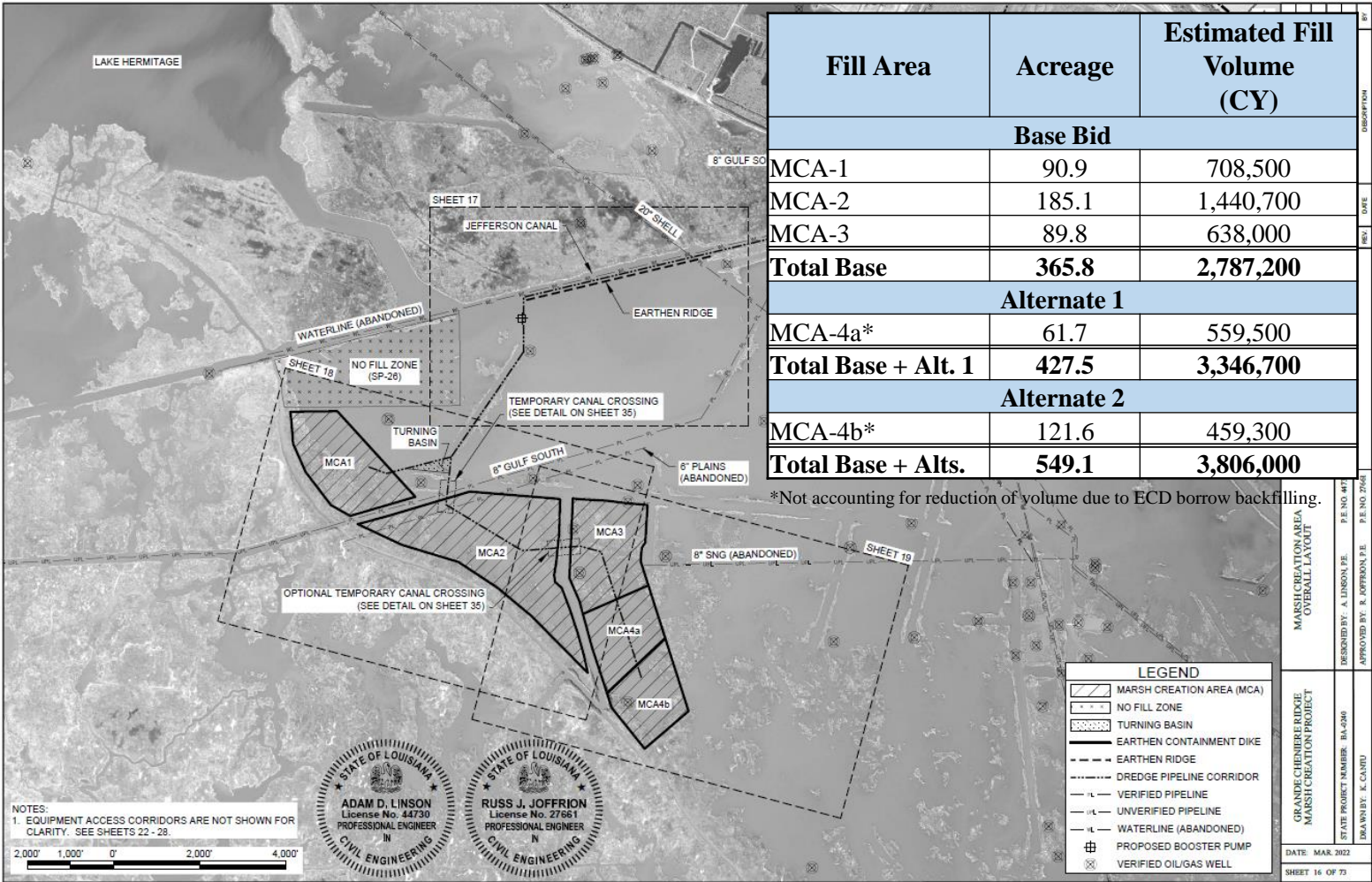
- Payment for these items will be made at the contract lump sum price for:
 - Bid Item No. 6, “Equipment Access Corridor Dredging – Reach I”
 - Bid Item No. 7 “Equipment Access Corridor Dredging – Reach II”, and
 - Bid Item No. 8 “Equipment Access Corridor Dredging – Reach III.
- Turning Basin and Booster Pump Access Dredging are included with Bid Item No. 8

Construction Overview

HYDRAULIC DREDGING AND MARSH CREATION (TS-420)

MARSH CREATION OVERVIEW

- Three (3) marsh creation areas in the base bid, two (2) alternate marsh creation areas
- Average Bottom Elevation: -1.3' to -1.9'
- Target Marsh Fill Elevation: +2.5' + 0.5'
- Sequencing: MCA-1 → MCA-2 → MCA-3 → MCA-4a → MCA-4b
- Dredge material placement shall only occur after the Acceptance of the Earthen Containment Dike and Acceptance of the Marsh Creation Area Pre-Construction Survey for each respective cell.

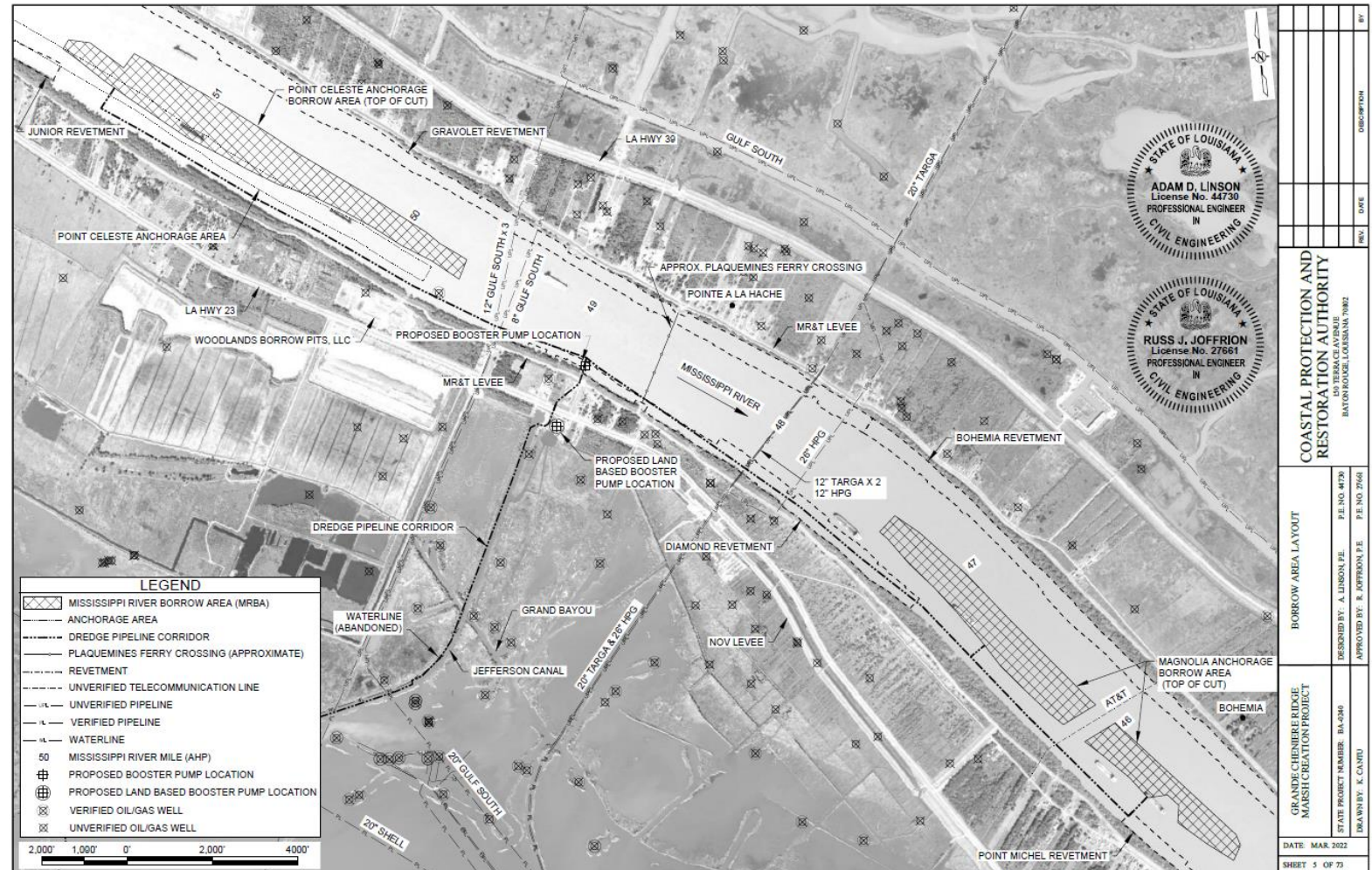


Construction Overview

HYDRAULIC DREDGING AND MARSH CREATION (TS-420)

BORROW AREA OVERVIEW

- Two (2) permitted borrow areas:
 - Pointe Celeste Anchorage
 - Magnolia Anchorage
- Only one of the permitted borrow areas can be dredged at any given time, and at no time can both anchorages be blocked.
- Dredge anchor limits to be marked with buoys.
- Contractor shall submit a daily communication plan to the Owner, USACE, and MNSA, delineating the location of the dredge and cutterhead, attendant plant, anchor buoys, and floating pipeline.



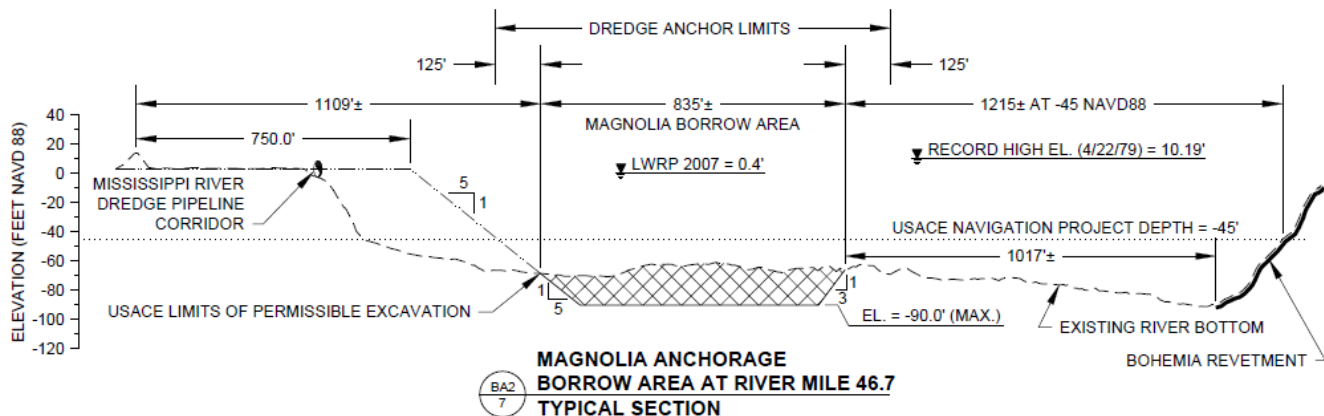
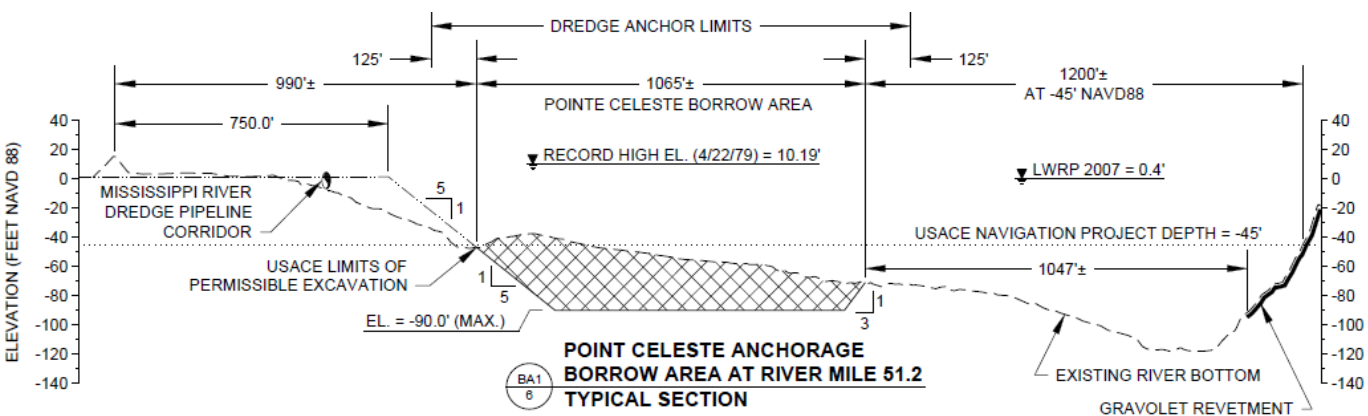
Construction Overview

HYDRAULIC DREDGING AND MARSH CREATION (TS-420)

BORROW AREA OVERVIEW

- Dredging template based on USACE New Orleans District Mississippi River Limits of Permissible Excavation requirements.
- Cut Elevation: -90 ft NAVD88
- Should the Contractor select to dredge the Point Celeste Anchorage Borrow Area, dredging shall begin in the portion north of RM 50.5.
- Point Celeste has previously been dredged.

Borrow Area	Cut Elevation (ft. NAVD88)	Borrow Area Acreage	Available Volume (CY)
Point Celeste Anchorage	-90	185	7,800,000
Magnolia Anchorage	-90	180	6,300,000



Construction Overview

HYDRAULIC DREDGING AND MARSH CREATION (TS-420)

ACCEPTANCE (TS-420.7)

- Marsh Creation Areas will be considered for Acceptance when the marsh platform has reached and maintained an elevation between +2.5' and +3.0' NAVD88 for a period of fourteen (14) days after hydraulic dredging is terminated for the respective Marsh Creation Area.
- At least 90% of the survey points must be within the acceptable elevation tolerance as shown on the Plans for the respective marsh creation area to be accepted.
- The Contractor may request partial payments. The volume included in the partial payment will be determined by the Process Survey cross sections for the Marsh Creation Area(s) that are submitted by the Contractor and approved by the Engineer.

MEASUREMENT AND PAYMENT (TS-420.8)

- Payment for marsh creation will be made at the contract unit price per cubic yard of fill placed in the Marsh Creation Areas shown on the Plans for Bid Item No. 9 through No. 11 “Hydraulic Dredging and Marsh Creation (TS-420)”.
- If Alternate Bid #1 is awarded, payment shall be made at the contract unit price per cubic yard for Bid Item No. 17, “Hydraulic Dredging and Marsh Creation – MCA-4a (TS-420)” and Bid Item No. 18 “Deduct Hydraulic Dredging and Marsh Creation – MCA-3 (TS-420)”.
- If Alternate Bid #2 is awarded, payment shall be made at the contract unit price per cubic yard for Bid Item No. 23, “Hydraulic Dredging and Marsh Creation – MCA-4b (TS-420)” and Bid Item No. 24 “Deduct Hydraulic Dredging and Marsh Creation – MCA-4a (TS-420)”.

Construction Overview

PROJECT SIGN (TS-850)

MATERIALS (TS-850.2)

- Five-foot (5') high by seven-foot (7') wide by eight hundredths-inch (0.08") thick aluminum alloy 6061-T6 sheet in accordance with Section 1015.04 of LSSRB, 2016 edition.
- Sign panel shall have a blue background with white lettering and display the layout shown on the Plans.

INSTALLATION (TS-850.3)

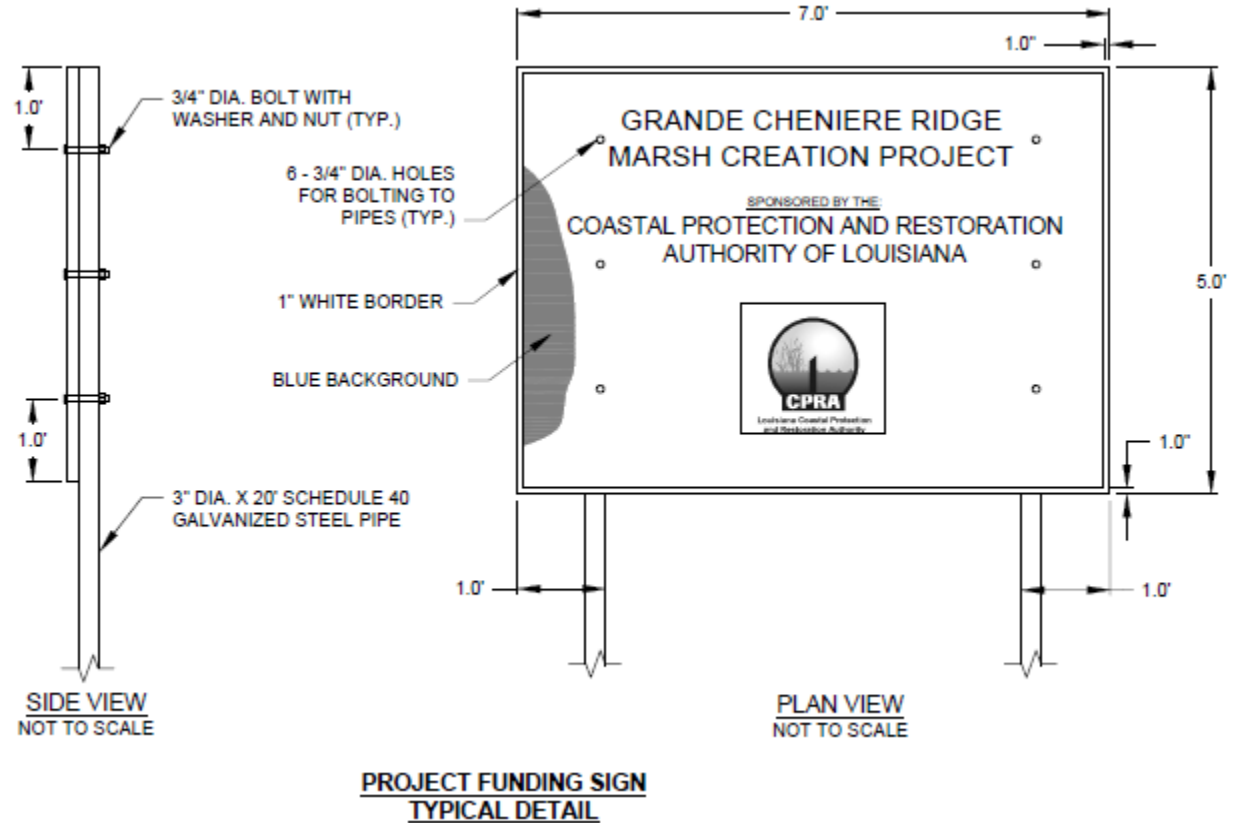
- Shall be installed at the location provided by the Engineer.

MAINTENANCE (TS-850.4)

- Contractor shall maintain the sign in good condition until Acceptance of the Work.
- Contractor shall repair or replace the sign at no expense to the Owner if the sign becomes damaged, stolen, or removed.

MEASUREMENT AND PAYMENT (TS-850.5)

- No separate payment shall be made for this item. All costs associated with the project sign shall be included in Bid Item No. 1 "Mobilization and Demobilization".



Construction Overview

ABANDONED PIPELINE REMOVAL (TS-1100)

SCOPE (TS-1100.1)

- Several abandoned pipelines are known to exist within the Project Area and portions may require removal to allow for construction of the Equipment Access Channels.
- The Contractor shall obtain the required permits to conduct removal operations, and copies of the permits shall be submitted to the Engineer.
- The Contractor shall furnish all Materials, labor, and Equipment necessary to test, flush and capture all contents, cut, remove, cap, and properly dispose of segments of pipelines and their respective contents deemed necessary for removal by the Contractor in order to facilitate potential equipment access dredging.
- The pipelines shall be removed prior to dredging of the Equipment Access Corridors.

METHOD (TS-1110.2)

- The Contractor shall locate, test, and remove the abandoned pipelines deemed necessary by the Contractor, in order to facilitate potential equipment access and access dredging.
- The Contractor shall be responsible for removing, testing, transporting, and disposing all hazardous and nonhazardous waste, Equipment, and Materials in a manner that complies with all federal, state, and local regulations.
- The Contractor shall perform a “hot-tapping” procedure or equivalent approved by the Project Engineer, to investigate the status of the discovered pipeline(s) shown in the Plans to determine whether the lines are active or inactive.

Construction Overview

ABANDONED PIPELINE REMOVAL (TS-1100)

METHOD (TS-1110.2)

- The Contractor shall submit a “Pipeline Removal Plan” within fourteen (14) days of the completion of the Pre-Construction survey. The Pipeline Removal Plan is subject to approval by the Engineer. At a minimum, the Pipeline Removal Plan shall include the following:
 - Pipelines and associated lengths to be removed, tested, transported, and disposed of;
 - The means and methods for hot-tapping (or equivalent), flushing, and disposing of the pipeline(s) and their fluids;
 - The locations for installing the hot-tapping machines;
 - The procedures for performing the required testing;
 - Required equipment for performing the testing, and;
 - Proposed access routes.
- The Contractor shall not proceed with any subsequent items of work under this specification until sufficient evidence has been provided to the Engineer indicating that the pipeline in question is inactive.
- If the pipeline is found to exhibit pressures indicating an active line, the Project Engineer shall be notified immediately and all work shall cease until further direction is provided by the Project Engineer.

Construction Overview

ABANDONED PIPELINE REMOVAL (TS-1100)

DELIVERABLES (TS-1100.4)

- The Contractor shall submit documentation verifying the lengths of pipeline removed, tested, transported, and disposed of, after removal of the pipeline for approval by the Engineer.
- This submittal shall include all other deliverables listed in TS-1100.2 (“Pipeline Removal Plan”).

ACCEPTANCE (TS-1100.5)

- The Contractor will verify that the pipelines have been removed and disposed as specified in TS-1100.2, and that all deliverables listed in TS-1100.4 have been submitted and approved by the Engineer.
- The Contractor shall measure and record the NORM levels, presence/absence of pipeline fluids, presence/absence of asbestos, total length of pipeline removed daily, and submit all formal documentation from the disposal drop off site.

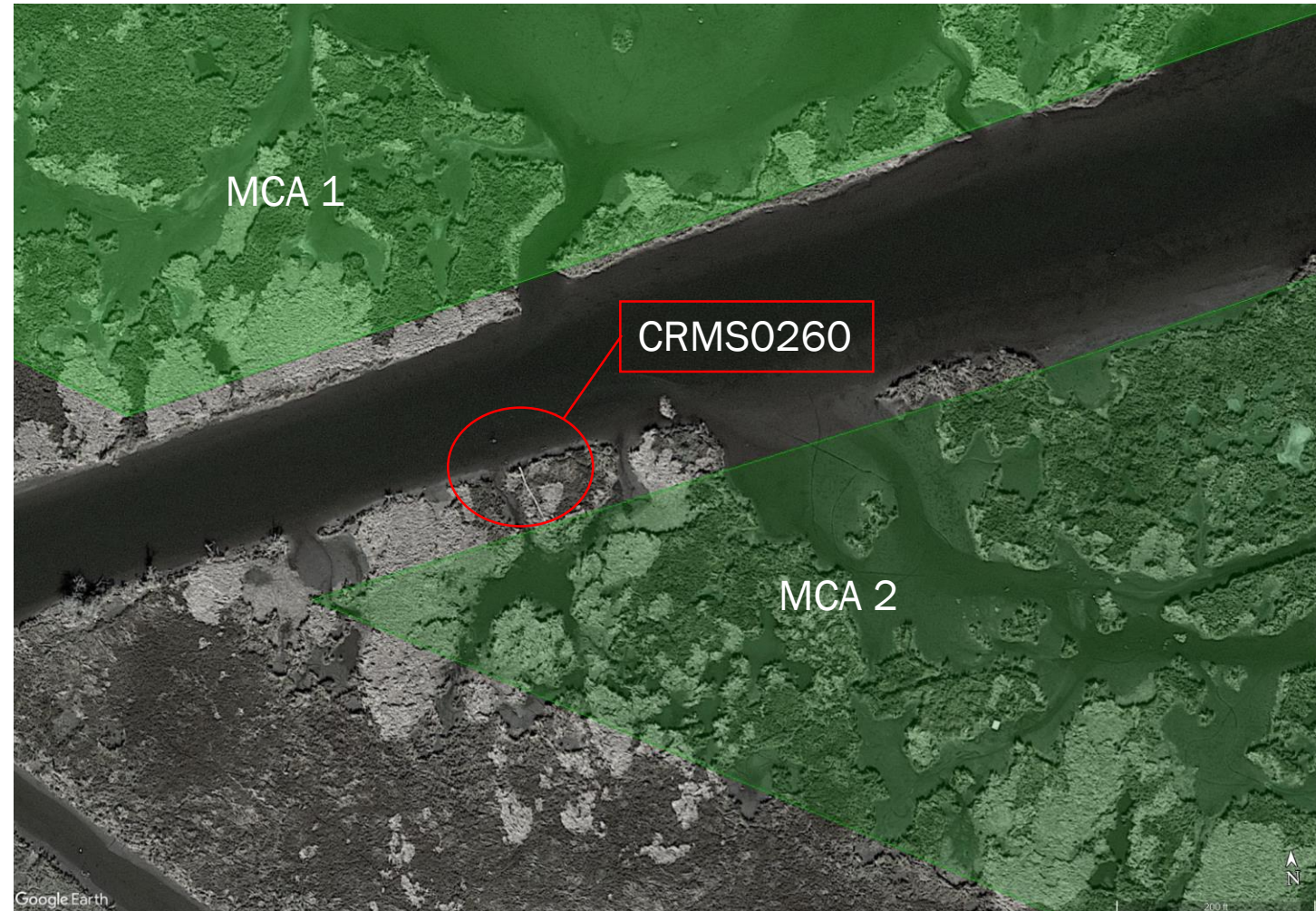
MEASUREMENT AND PAYMENT (TS-1100.6)

- Payment for Pipeline Removal shall be made at the contract unit price per linear foot for Bid Item No. 12 “Pipeline Removal (TS-1100)”.

Construction Overview

EARTHEN CONTAINMENT DIKES (TS-300)

- CRMS0260 to be removed
 - R Sat
 - PVC Poles
 - Board walk
 - Located on the marsh edge extending toward ECD
- CRMS0260 not to be removed
 - Hydro Station
 - Located in pipeline canal between MCA 1 & MCA 2



Questions?

Please submit questions regarding the bid by **May 19th at 2:00pm** in writing to:

cpra.bidding@la.gov

Bids are due by 2:00pm on June 1st, 2022, unless modified by addendum.

All verbal responses given at this conference are nonbinding.

ADAM D. LINSON, P.E.

RUSS J. JOFFRION, P.E.

JOANNE TRIBOU, E.I.

TYE FITZGERALD, P.E.

BARRY RICHARD, P.E.

