



Coastal Protection and
Restoration Authority of Louisiana

Industry Day 2015

CPRA
Engineering Division
April 14, 2015



committed to **our coast**

Restoration Projects

Substantially Designed Not Yet Funded

1. Northwest Turtle Bay Marsh Creation

2. Cameron Meadows Marsh Creation and Terracing

3. Cole's Bayou Marsh Creation

Marsh
Creation





Coastal Protection and
Restoration Authority of Louisiana



Northwest Turtle Bay Marsh Creation

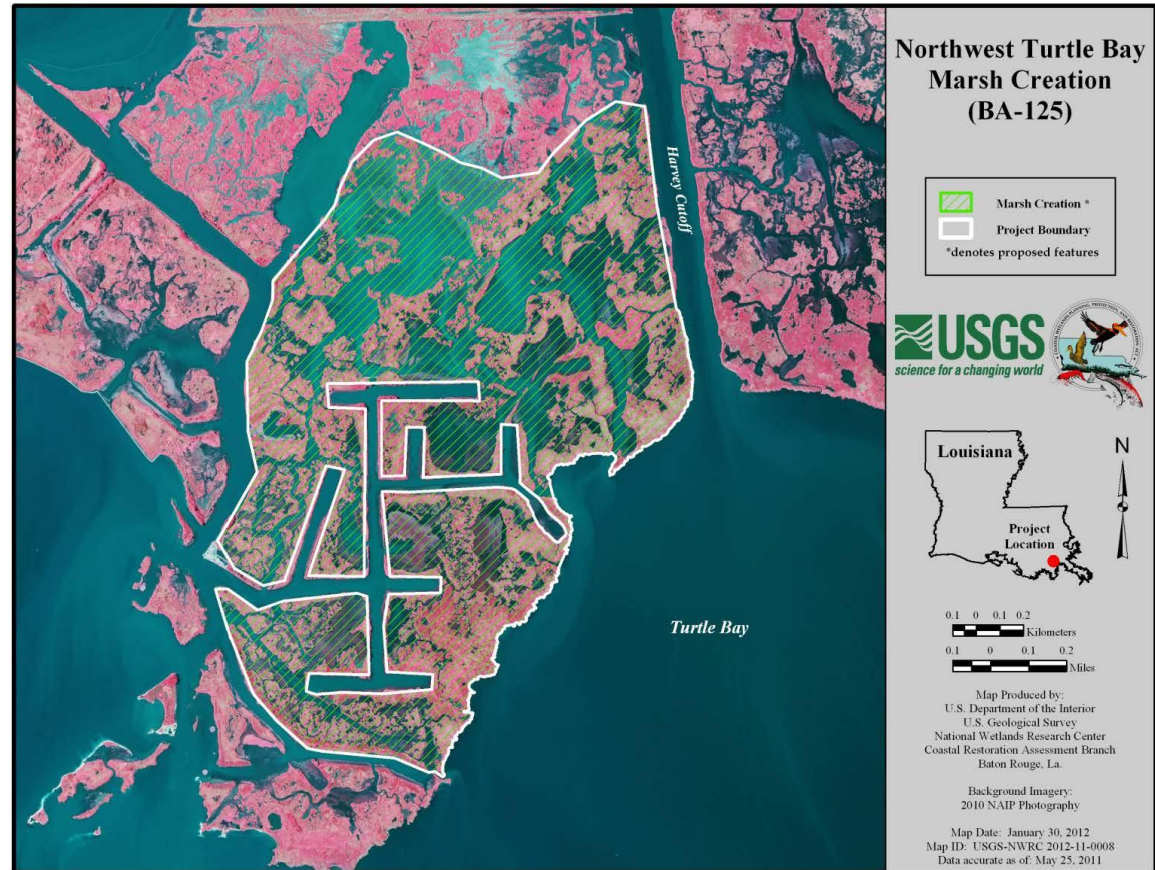
Thomas McLain, E.I.
Engineering Division
April 14, 2015



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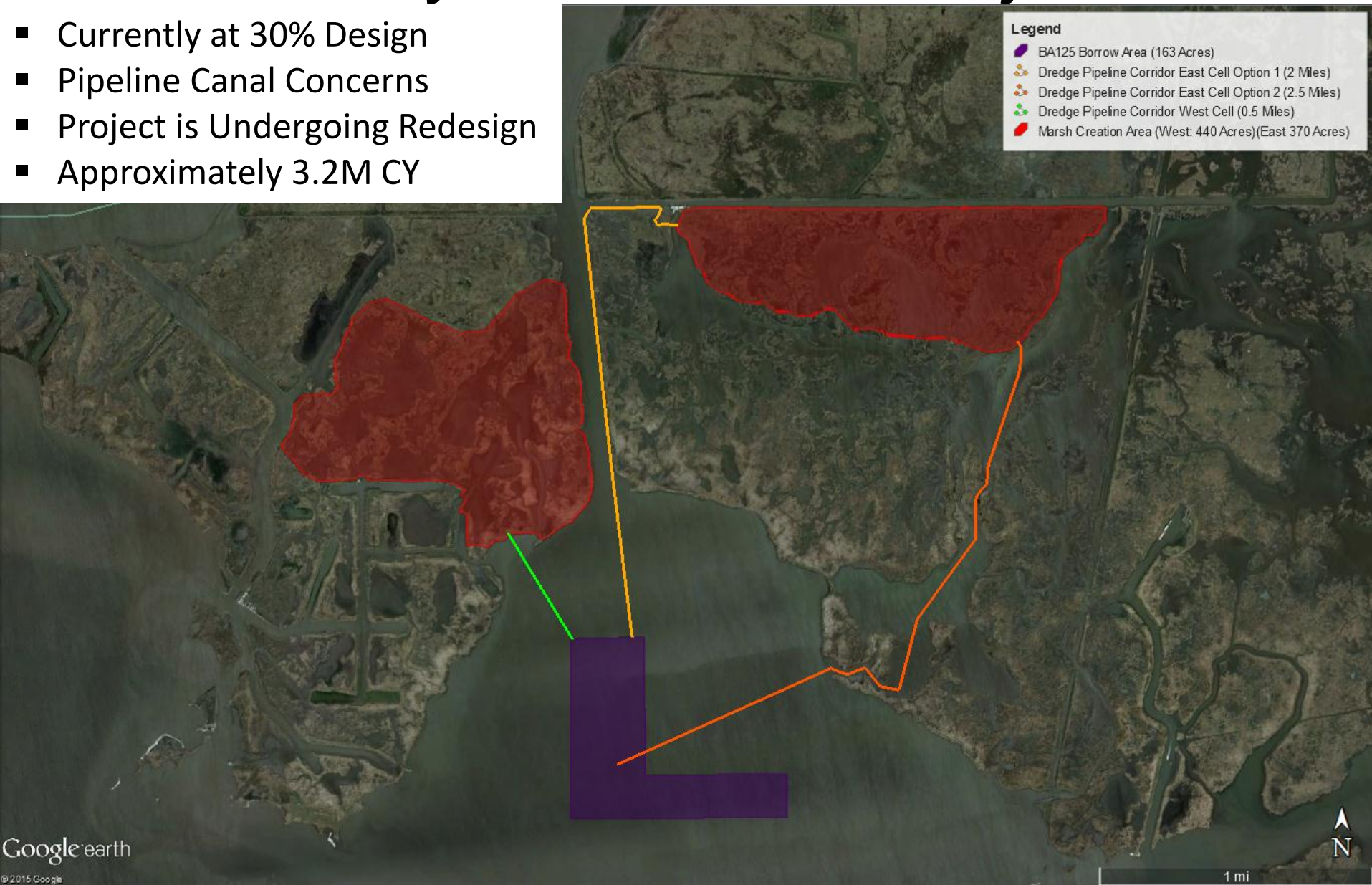
NW Turtle Bay Marsh Creation Project Summary

- Jefferson Parish
- 423 Acres of Marsh Creation
- 337 Acres of Marsh Nourished
- Borrow Source: Turtle Bay
- Federal Sponsor: US Fish & Wildlife Service, Kevin Roy
- PM: Keith Boeneke (CB&I)
- NRCS Turned Over Design of the Project to CPRA Summer 2014
- Continuing with Minimal Containment Concept



NW Turtle Bay Marsh Creation Project Status

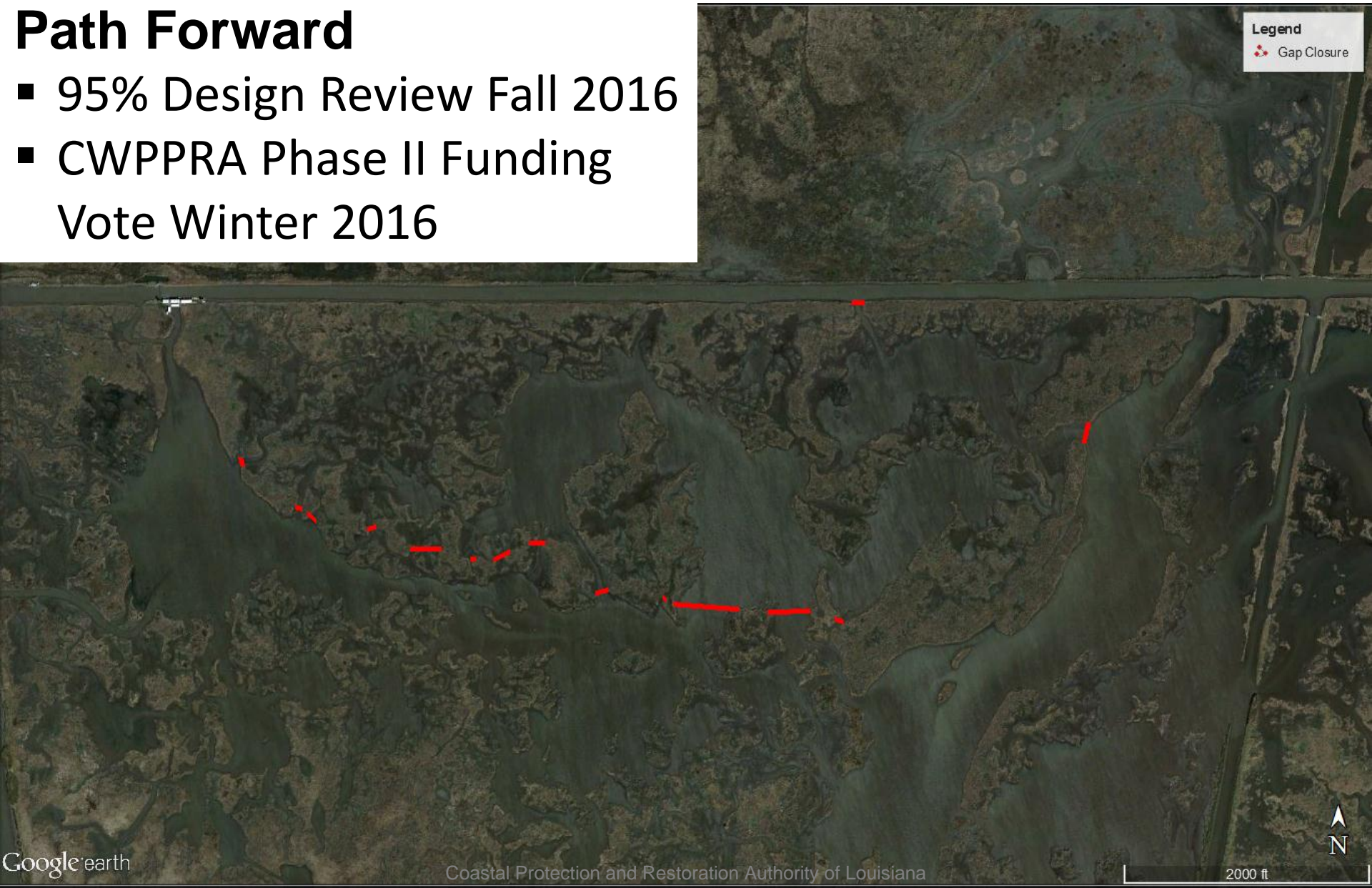
- Currently at 30% Design
- Pipeline Canal Concerns
- Project is Undergoing Redesign
- Approximately 3.2M CY



NW Turtle Bay Marsh Creation

Path Forward

- 95% Design Review Fall 2016
- CWPPRA Phase II Funding Vote Winter 2016



QUESTIONS

Restoration Projects

Substantially Designed Not Yet Funded

1. Northwest Turtle Bay Marsh Creation

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Marsh
Creation



Cameron Meadows Marsh Creation and Terracing (CS-66)

Julia Wall, E.I.
Engineering Division
April 14, 2015



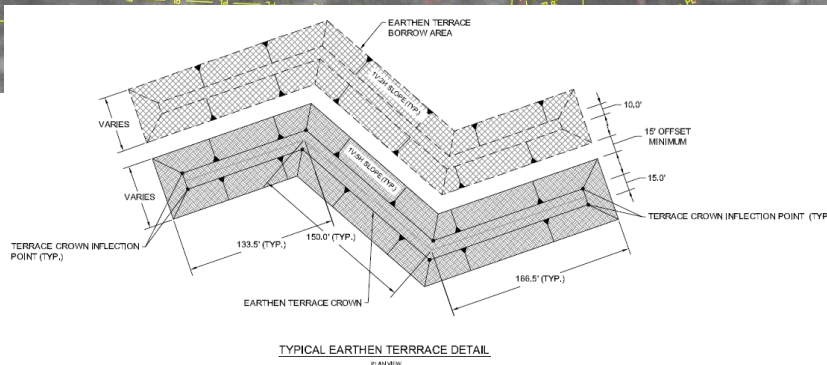
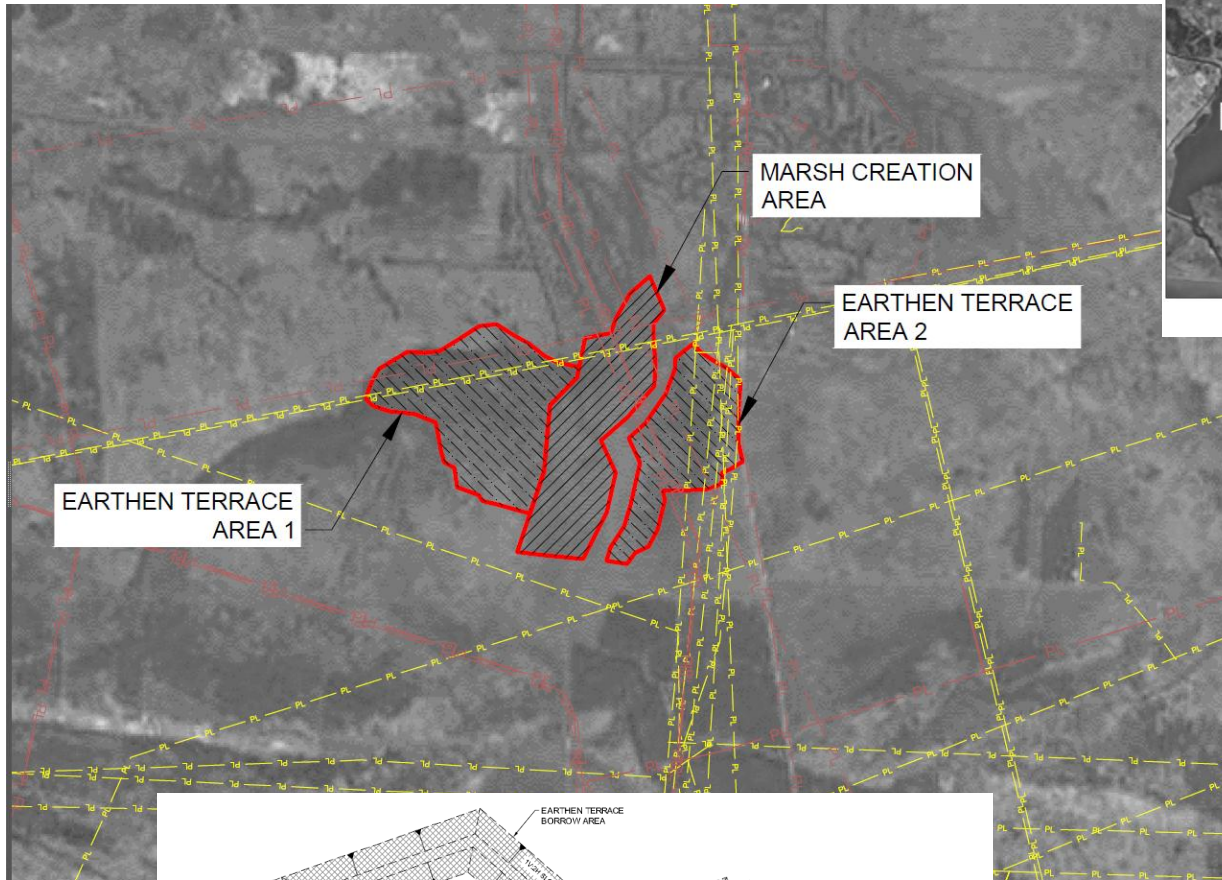
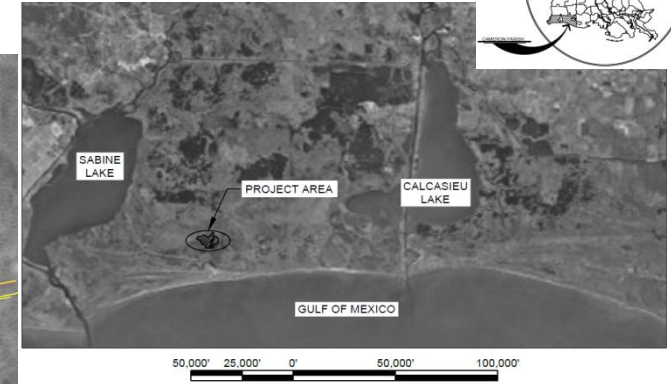
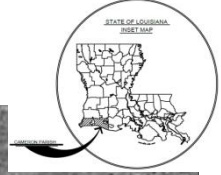
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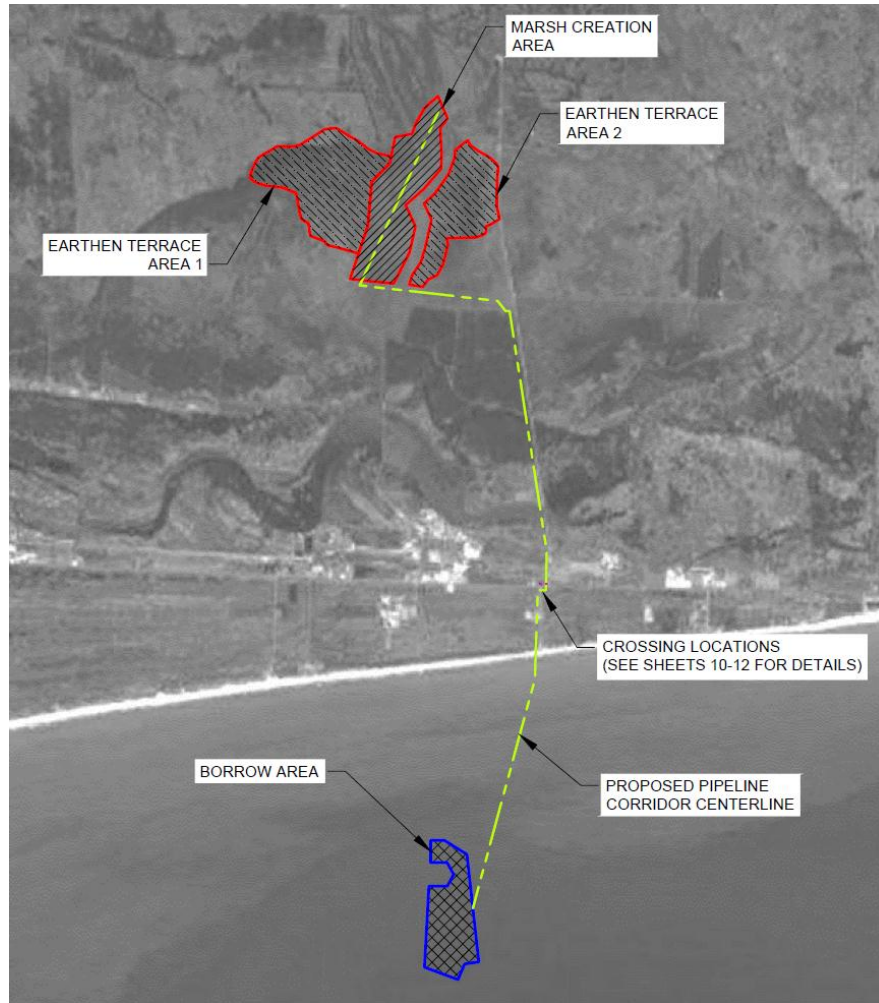
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Authority of Louisiana

PROJECT FEATURES

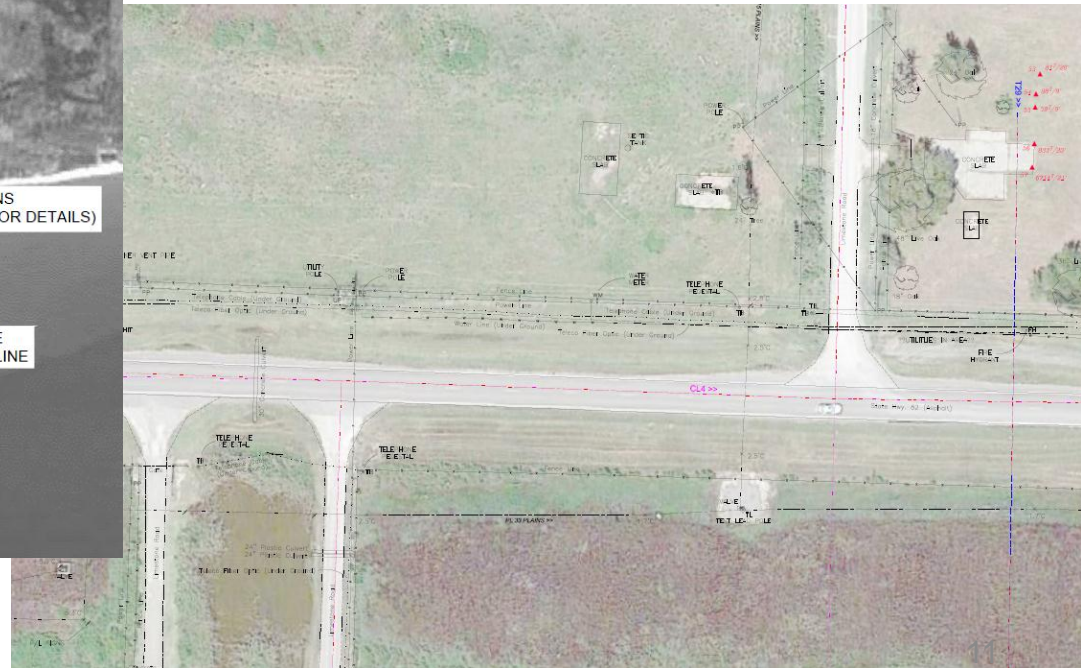


- 350 Acres Marsh Creation (2M CY of Sediment)
- 20,000 LF Earthen Containment Dikes
- 35,000 LF Terrace
- Hydrologic Restoration
- Design Constraint: Pipelines

BORROW AREA



- Existing Elevation: -20 to -25 ft. NAVD88
- Cut Elevation: -34.5 to -37 ft. NAVD88
- Available Material: ~4.9M CY
- Avg. Pumping Distance: 6 miles
- Design Constraint: Crossing LA82



PROJECT STATUS

- Engineering and Design: 2014-2015
 - Hydrodynamic modeling
 - Topographic, bathymetric, and magnetometer survey
 - Geotechnical investigation
 - Offshore borrow site investigation
- Compete for CWPRRA Phase II Funding: Winter 2015
 - Landright agreements
 - Permit

QUESTIONS

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Marsh
Creation





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Cole's Bayou Marsh Restoration (TV-63)

Amanda Taylor, E.I.
Engineering Division
April 14, 2015

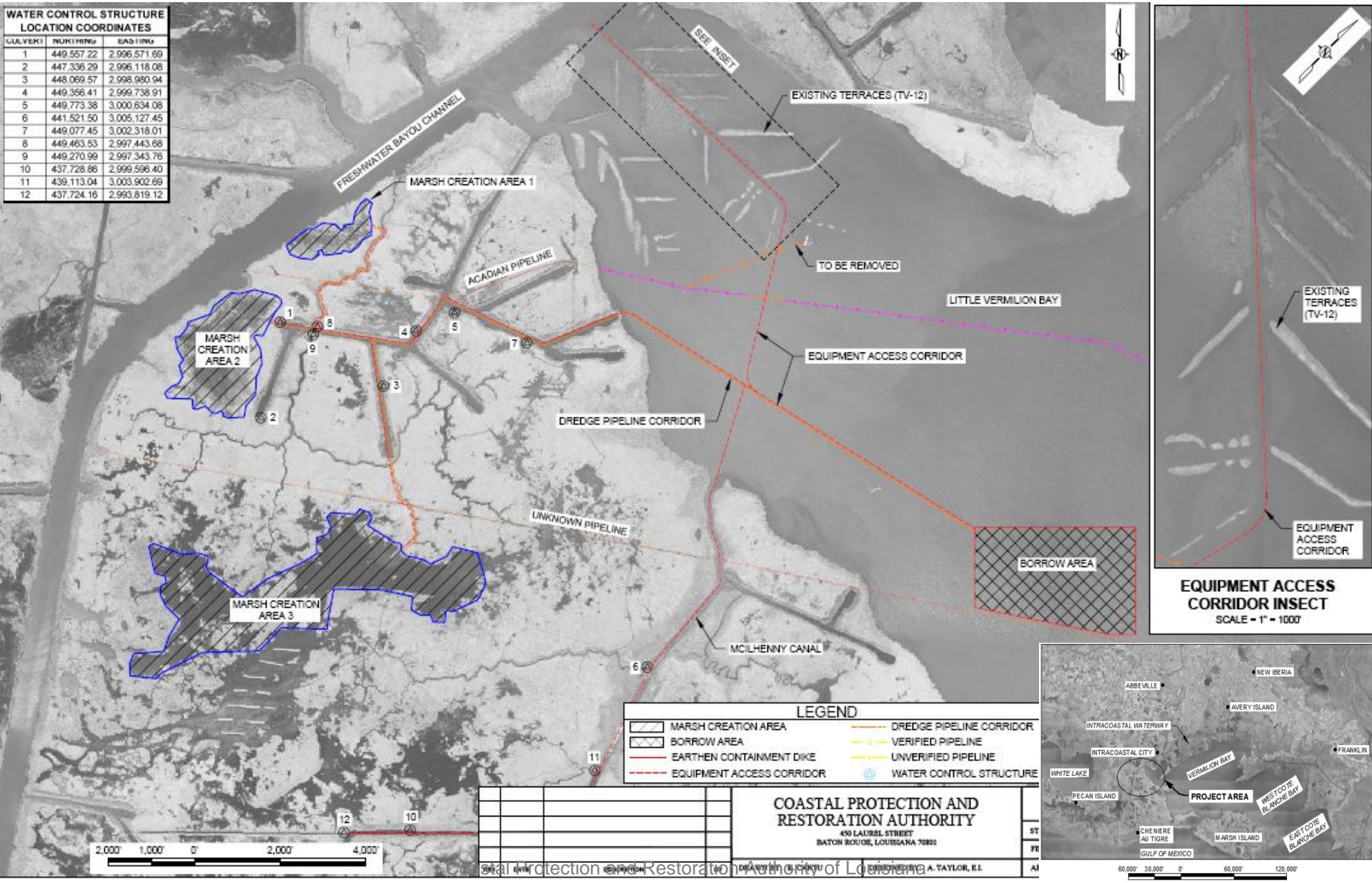


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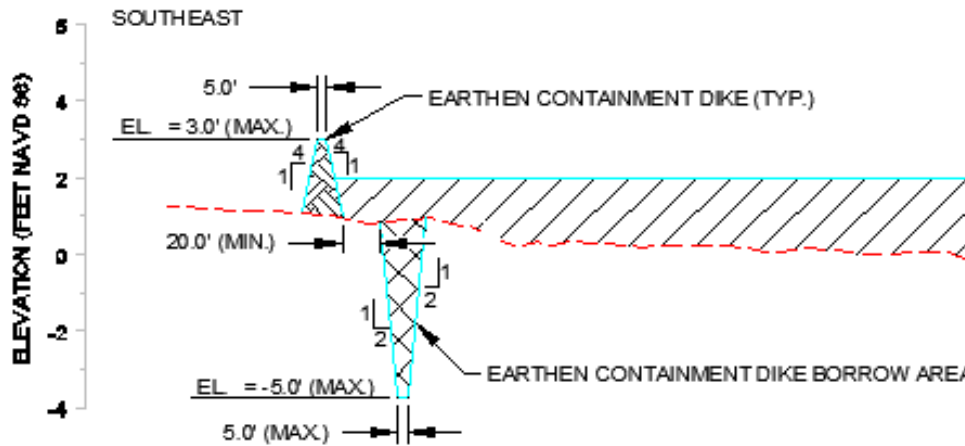
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Proposed Project Features

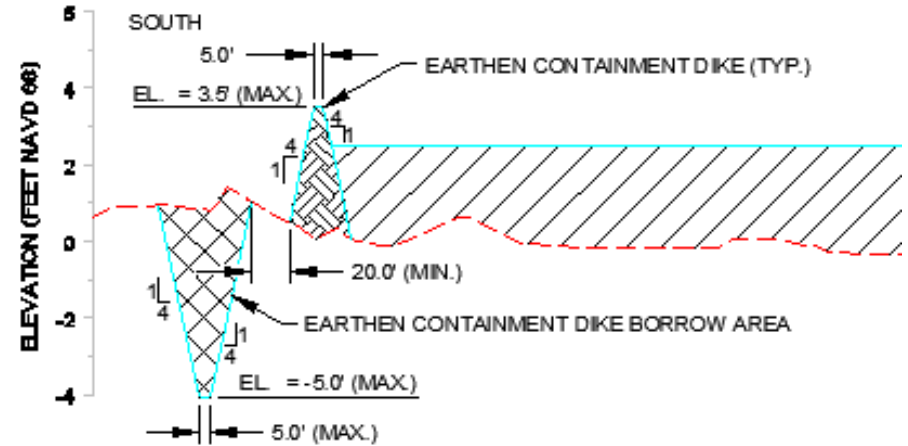
WATER CONTROL STRUCTURE LOCATION COORDINATES		
GULFVECT	NORTHING	EASTING
1	449,557.22	2,996,571.69
2	447,336.29	2,996,118.08
3	448,069.57	2,998,990.94
4	449,356.41	2,999,738.91
5	449,773.38	3,000,634.08
6	441,521.50	3,005,127.45
7	449,077.45	3,002,318.01
8	449,463.53	2,997,443.68
9	449,270.99	2,997,343.76
10	437,728.86	2,999,596.40
11	439,113.04	3,003,902.69
12	437,724.16	2,993,619.12



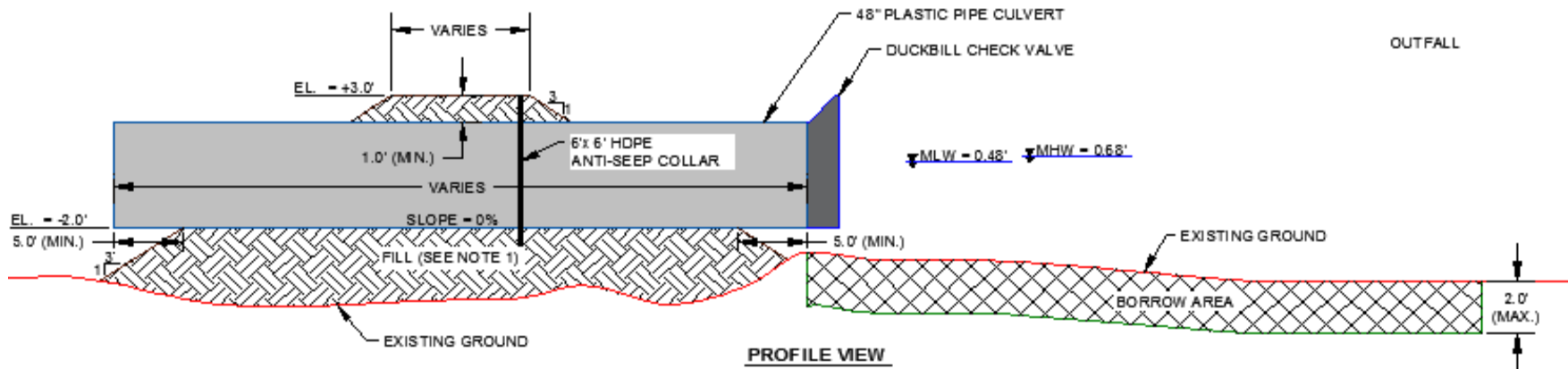
Proposed Project Features



Earthen Containment Dike Typical for Marsh Creation Cells 1 & 2



Earthen Containment Dike Typical for Marsh Creation Cell 3



Water Control Structure Typical Section

Design Considerations

- Pipelines



Design Considerations

- Dredge Pipeline Alignment
- Equipment Access Corridor
 - ~11,000 LF of dredging
 - ~10 ft. total draft

Estimated Schedule

- Engineering and Design- Fall 2015
- Compete for Phase II Funding- Winter 2015
 - Apply for permit
 - Complete Landrights

QUESTIONS

Restoration Projects

Design Complete/ Construction Funds Available

1. **NRDA Caillou Lake Headlands**

2. Lost Lake Marsh Creation and Hydrologic Restoration
3. Cheniere Ronquille Barrier Island Restoration
4. Oyster Bayou Marsh Restoration
5. Cameron Creole Watershed Grand Bayou Marsh Creation
6. Bayou Bonfouca Marsh Creation
7. Living Shoreline Demonstration Project

Barrier Island
Restoration





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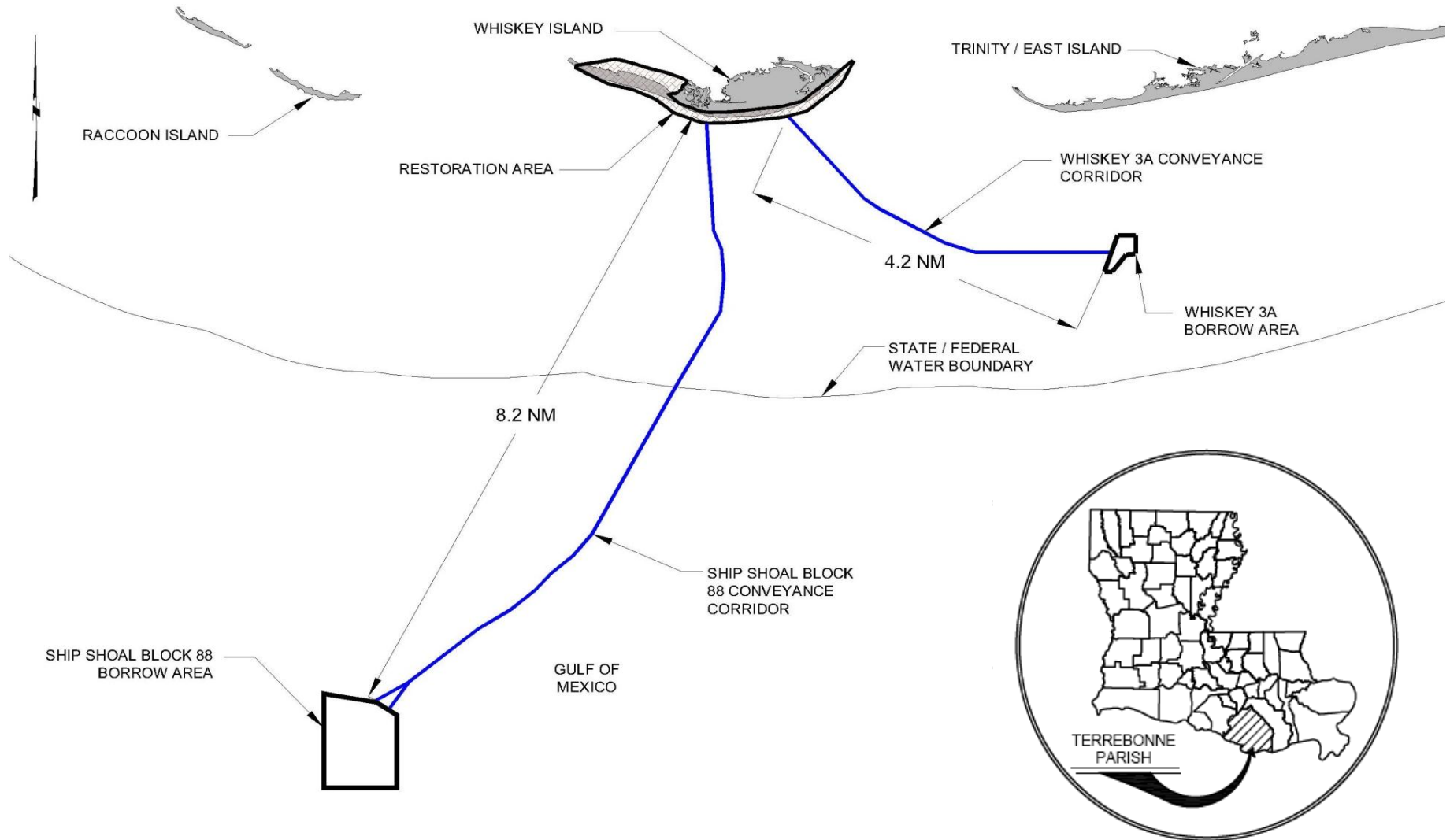
NRDA Caillou Lake Headlands (TE-100)

Jacques Boudreaux, E.I.
CPRA – Engineering Division
April 14, 2015



committed to **our coast**

TE-100 PROJECT VICINITY



BACKGROUND

- Located in Terrebonne Hydrologic Basin, Isles Dernieres Barrier Island Chain
- Proximity to Whiskey Island Back Barrier Marsh Creation Project (TE-50), Constructed by WMI 2008-2009 Through CWPPRA PPL 13
- Feasibility Study Funded Through LCA Via TBBSR Program
- Construction Funding Source: NRDA Phase III ER



FEATURE	DESIGN DIMENSION
MARSH EL.	+2.4' NAVD88
BEACH EL.	+4.2' NAVD88
BEACH SLOPE	1V:25H
DUNE EL.	+6.4' NAVD88
DUNE SLOPE	1V:30H

TE-100
Marsh
Footprint

TE-50
Footprint

TE-100
Beach/Dune
Footprint

Permitted Conveyance Corridors

Gulf of Mexico

Caillou Boca



USDA NAIP IMAGERY (2013)

FEATURES

CONSTRCUTED BEACH/DUNE HABITAT	=	754 ACRES
CONSTRUCTED MARSH HABITAT	=	179 ACRES
SHIP SHOAL BLOCK 88 CONVEYANCE	=	10.2 MILES
OPTIONAL WHISKEY 3A CONVEYANCE	=	5.2 MILES
DURATION OF CONSTRUCTION CONTRACT	=	650 DAYS

PROJECT FEATURES OF INTEREST	UNIT	ESTIMATED BID QUANTITY
BEACH AND DUNE FILL	CY	8,358,200
MARSH FILL	CY	885,900
*BEACH SEPARATION DIKE	LF	19,600
*MARSH CONTAINMENT DIKE	LF	9,530

**OPTIONAL, PENDING SELECTION OF MARSH BORROW AREA*

PROJECT SCHEDULE

- OCM Permitting Finalized Winter 2014
- Sand Lease Between BOEM and CPRA Currently Underway
- Plans and Specs Under Review
- CPRA Bid Advertisement Anticipated Summer 2015

QUESTIONS

Restoration Projects

Design Complete/ Construction Funds Available

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7. Living Shoreline Demonstration Project

Marsh
Creation



Lost Lake Marsh Creation and Hydrologic Restoration (TE-72)

Greg Mattson II, E.I.
Engineering Division
April 14, 2015



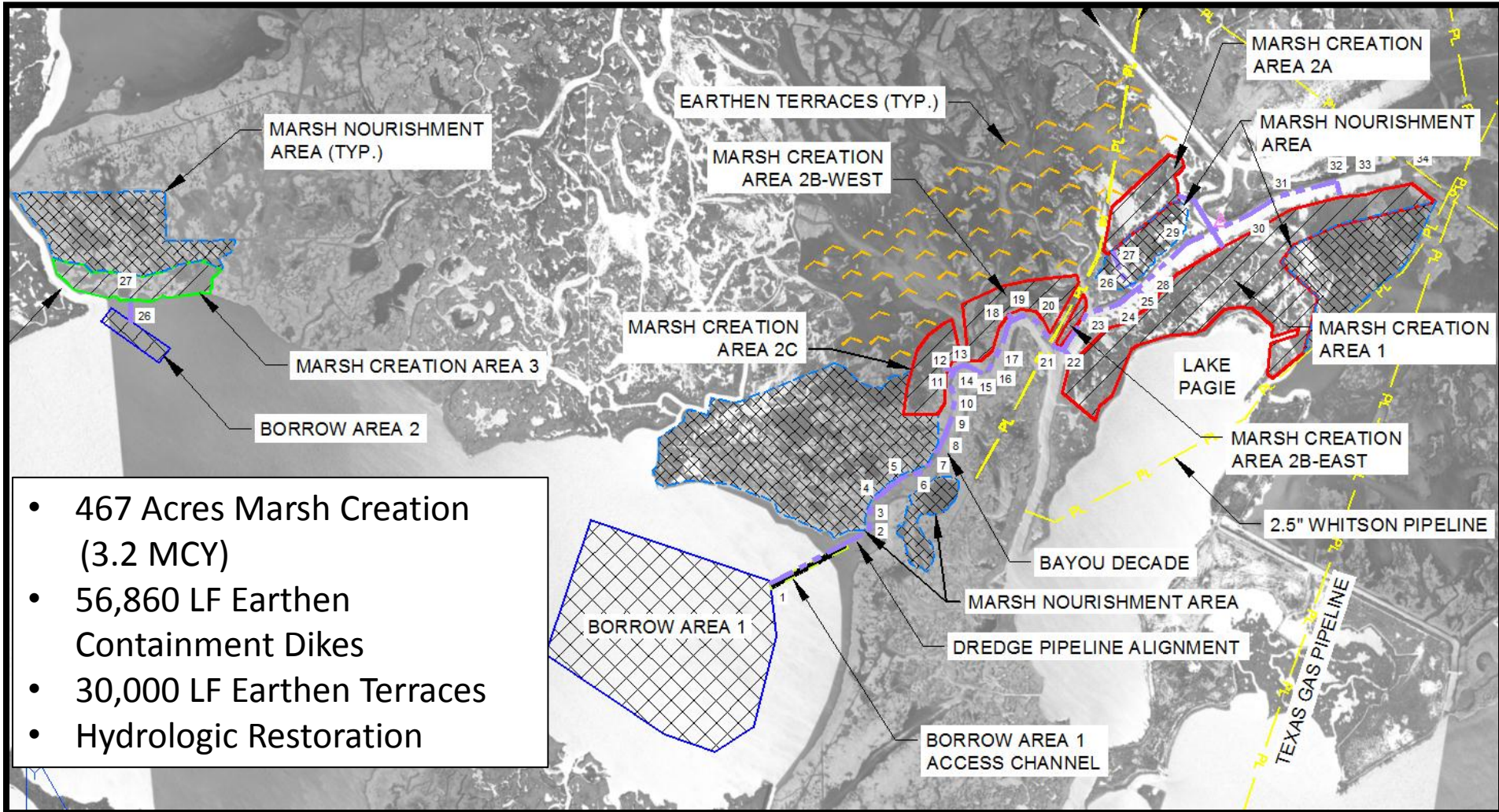
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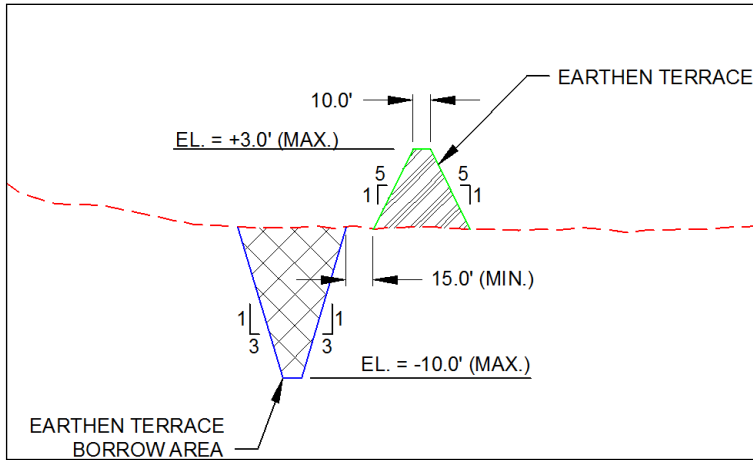
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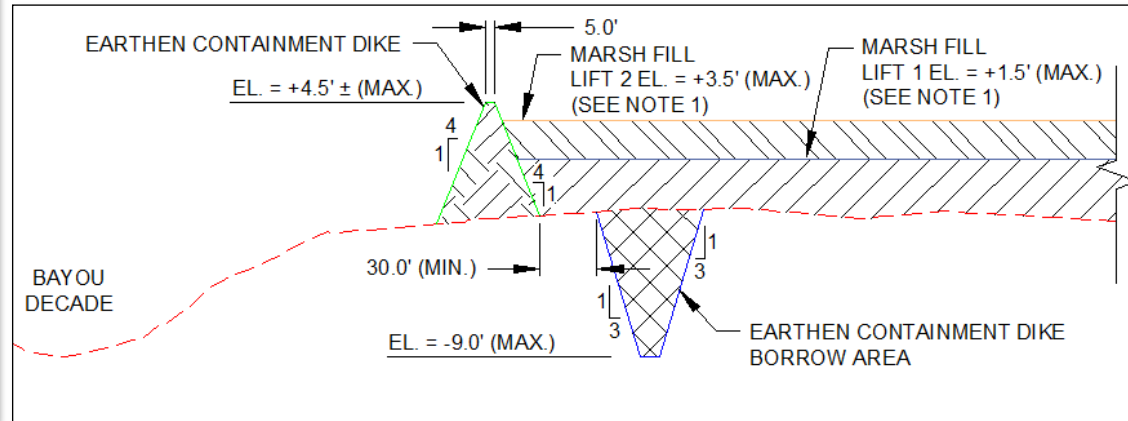
Project Features



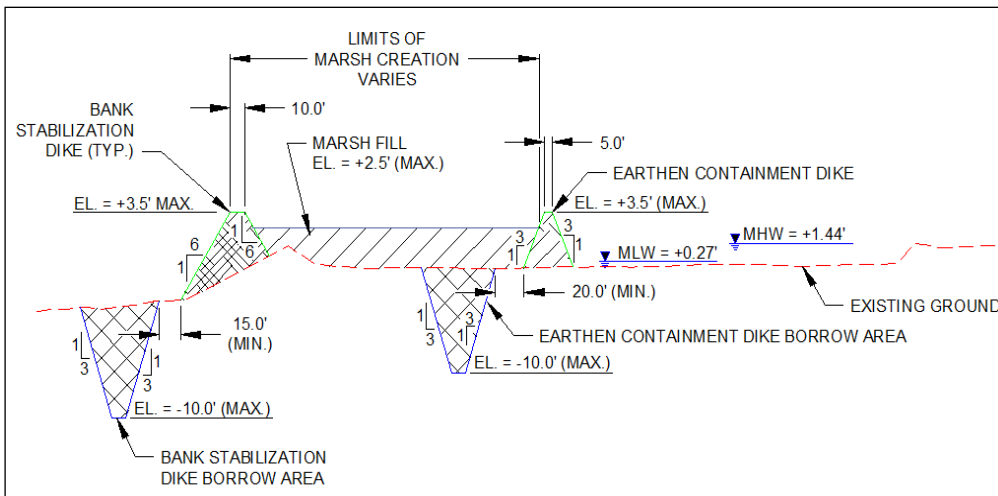
Project Features



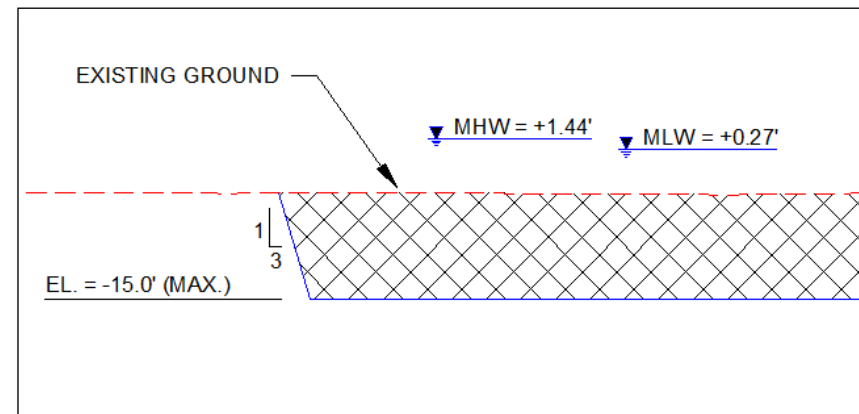
Earthen Terrace Design



Marsh Creation Area 1 Cross Section



Marsh Creation Area 3 Cross Section



Typical Borrow Area Cross Section

Estimated Schedule

- Construction is Funded
- Land Rights Completed
- Permit Mod Being Processed
- Pre-bid-- Mid 2015
- Construction Start– Late 2015

QUESTIONS

Restoration Projects

Design Complete/ Construction Funds Available

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Barrier Island
Restoration



Chenier Ronquille Barrier Island Restoration Project (BA-76)

Julia Wall, E.I.
Engineering Division
April 14, 2015

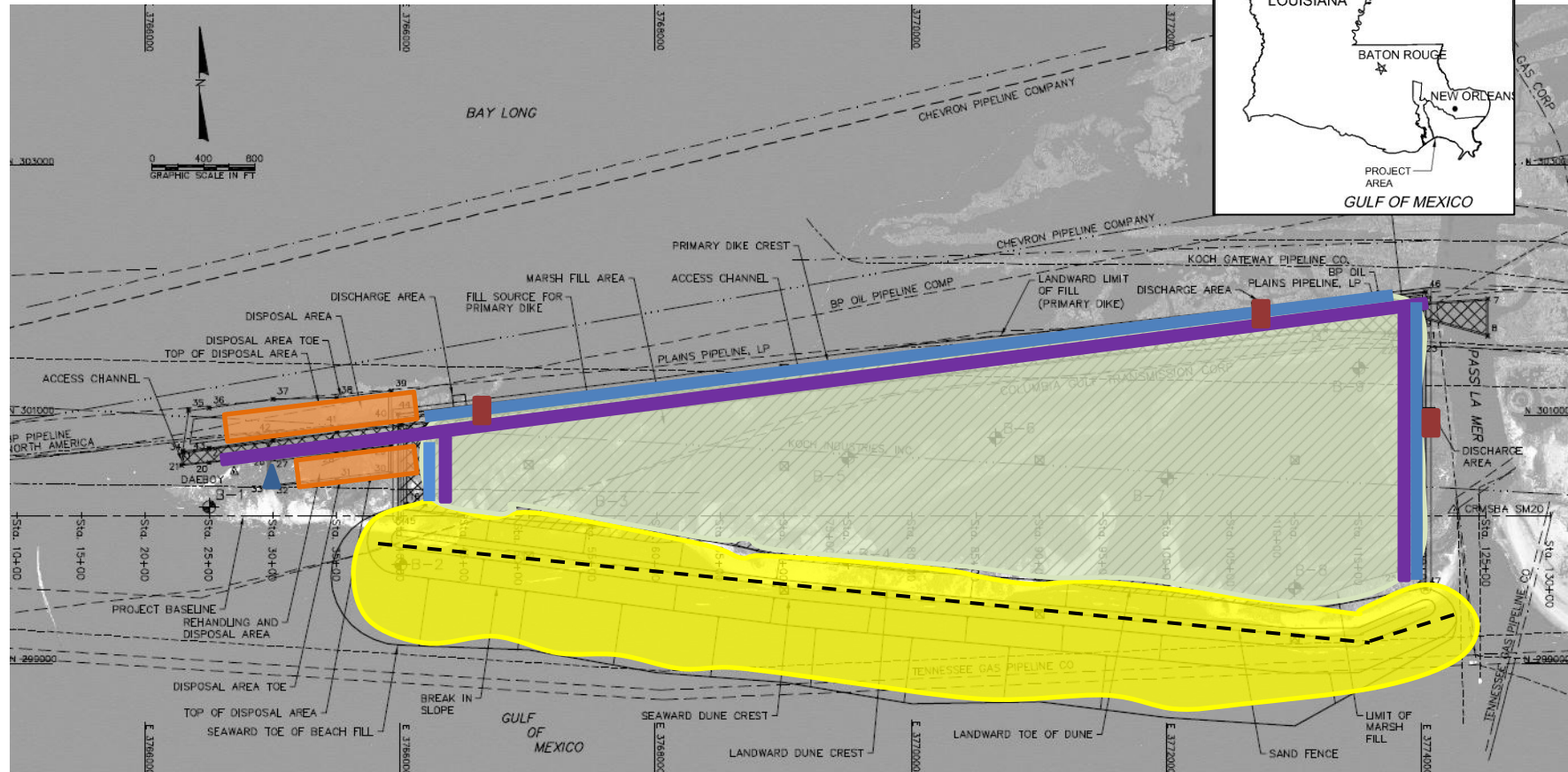










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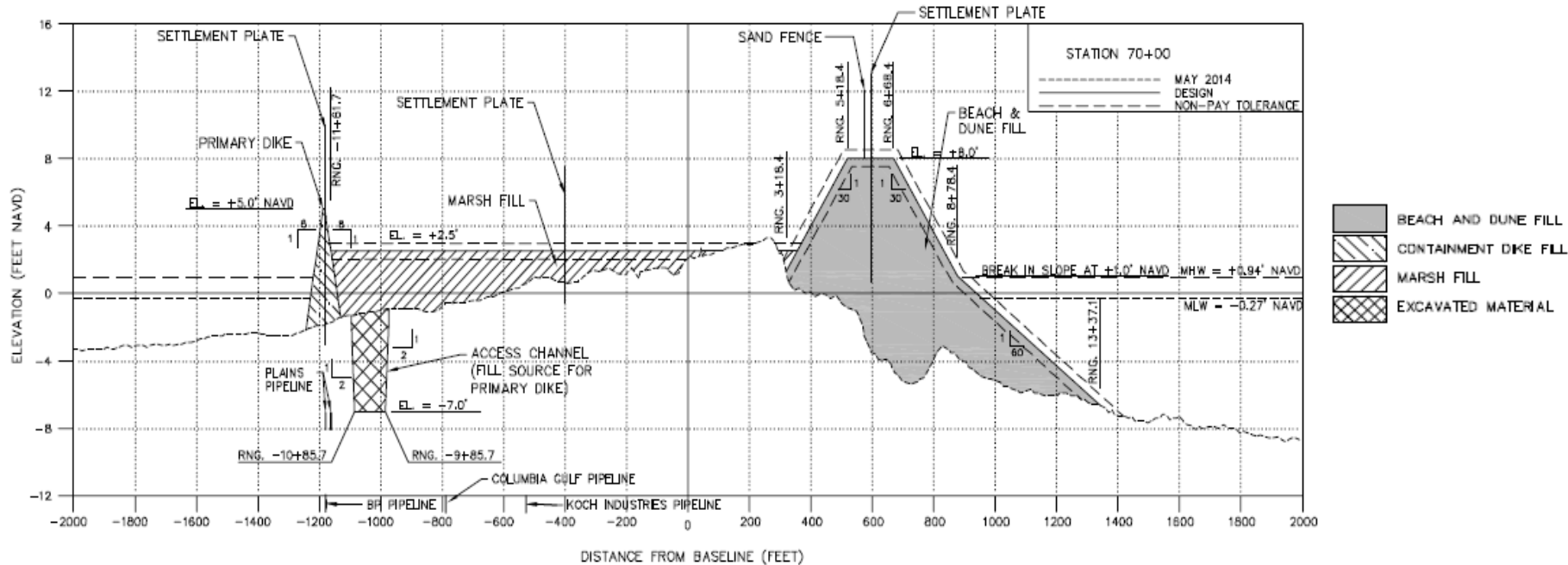
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Fill Area: Plan View



- | | | | | | |
|---|----------------|---|---------------------|---|-------------------------|
|  | Beach and Dune |  | Primary Containment |  | Temporary Disposal Area |
|  | Back Marsh |  | Sand Fence |  | Discharge Area |
|  | Access Channel | | |  | Monument |

Fill Area: Cross-Sections



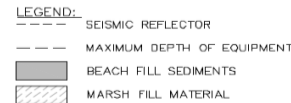
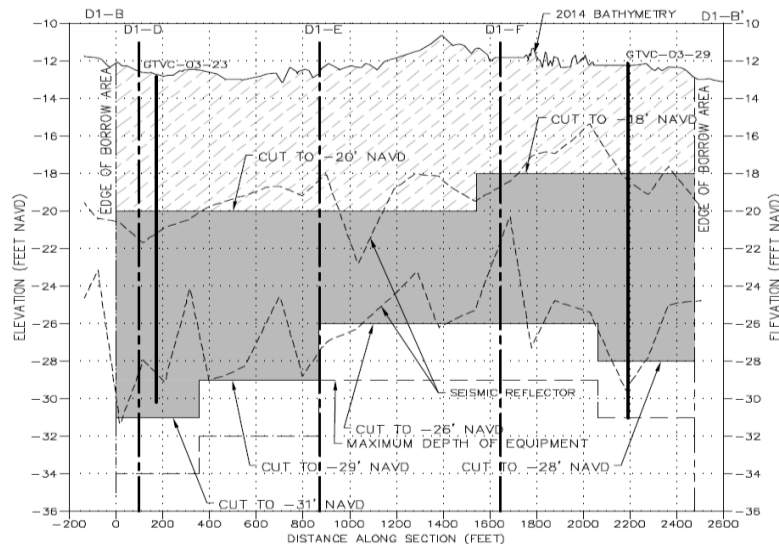
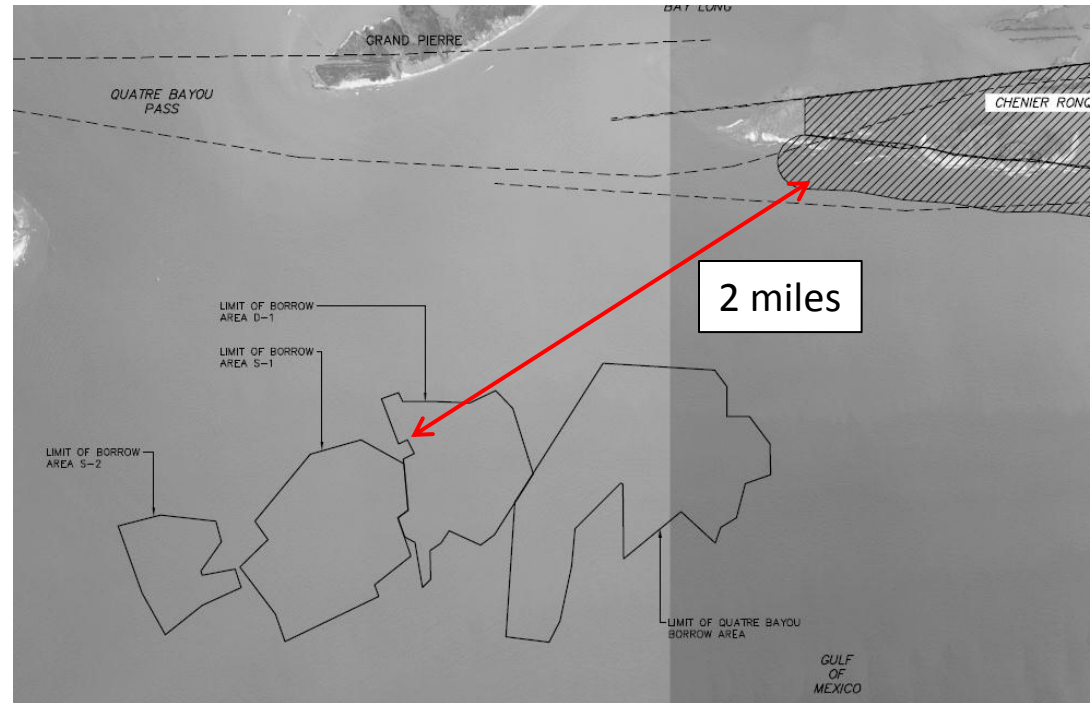
Project Feature	Construction Elevation (ft. NAVD88)
Dune Fill	8.0
Marsh Fill	2.5
Primary Containment Dike	5.0
Access Channel	-7.0

Description of Work	Estimated Quantity	Unit
Dune and Beach Fill	1,644,500	CY
Marsh Fill	986,900	CY
Primary Containment Dike	11,000	LF
Sand Fencing	8,700	LF

Borrow Area

Plan View

- 4 Permitted Areas
 - 3 Sand Sources
 - 2 Marsh Sources
- Average Pumping Distance: ~2 miles



Cross-Sections

S1 & S2: -8 < Sand Cut < -16 ft.

D1: -10 < Marsh Cut < -18 ft.

D1: -18 < Sand Cut < -26 ft.

Quatre Bayou: -10 < Marsh Cut < -18

Project Status

- Funded through NRDA
- Designed by Coastal Planning and Engineering (CB&I)
- NOAA/NMFS to bid for construction
- DNR/OCM Consistency and USACE Permit approved
- Land agreements to be completed
- Oyster lease acquisition ongoing
- Scheduled to bid Fall 2015
- Estimated construction duration: 310 days

QUESTIONS

Restoration Projects

Design Complete/ Construction Funds Available

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- 4. Oyster Bayou Marsh Restoration**
5. Cameron Creole Watershed Grand Bayou Marsh Creation
6. Bayou Bonfouca Marsh Creation
7. Living Shoreline Demonstration Project

Marsh
Creation



Oyster Bayou Marsh Restoration (CS-59)

Kodi Guillory, P.E.
Engineering Division



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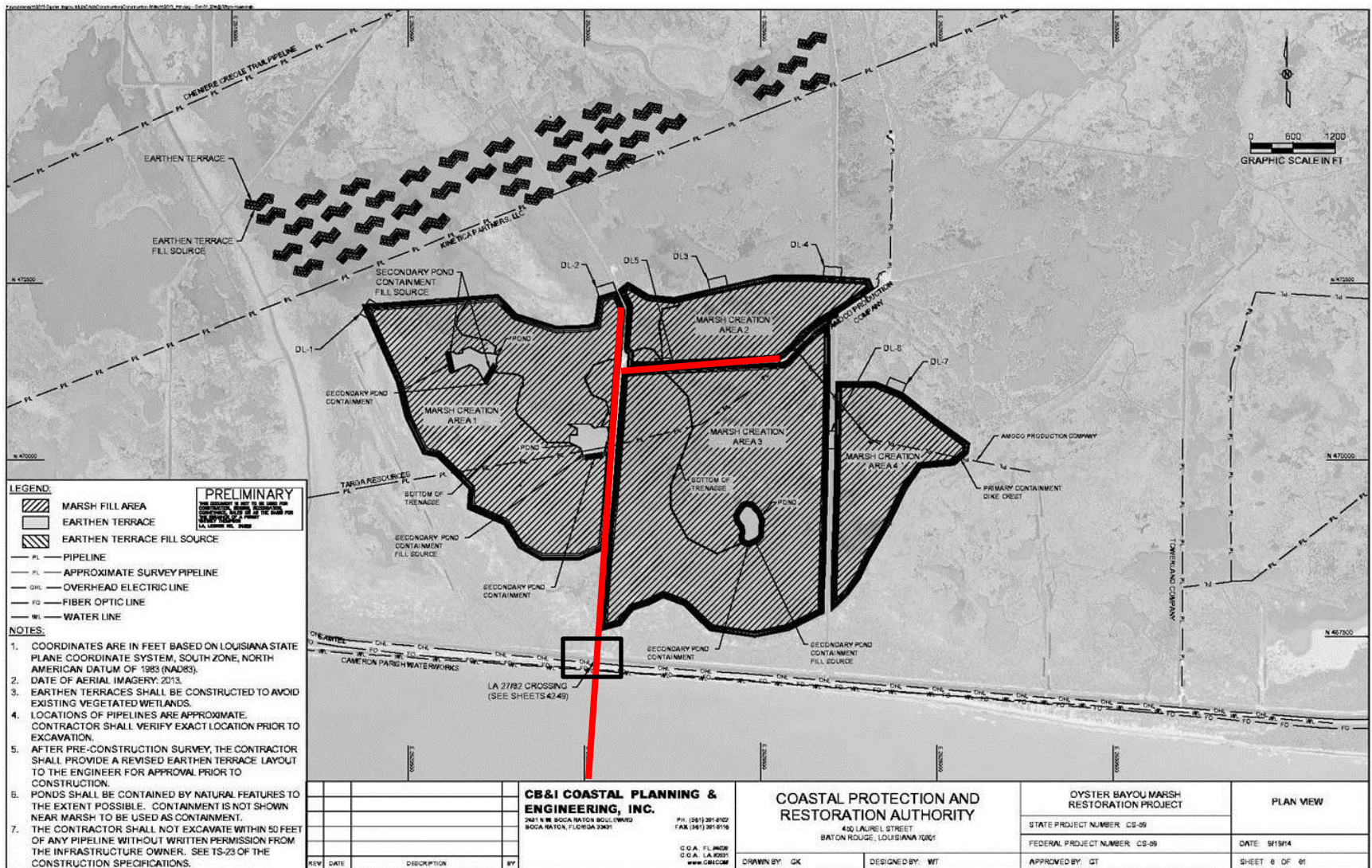
Vicinity Map



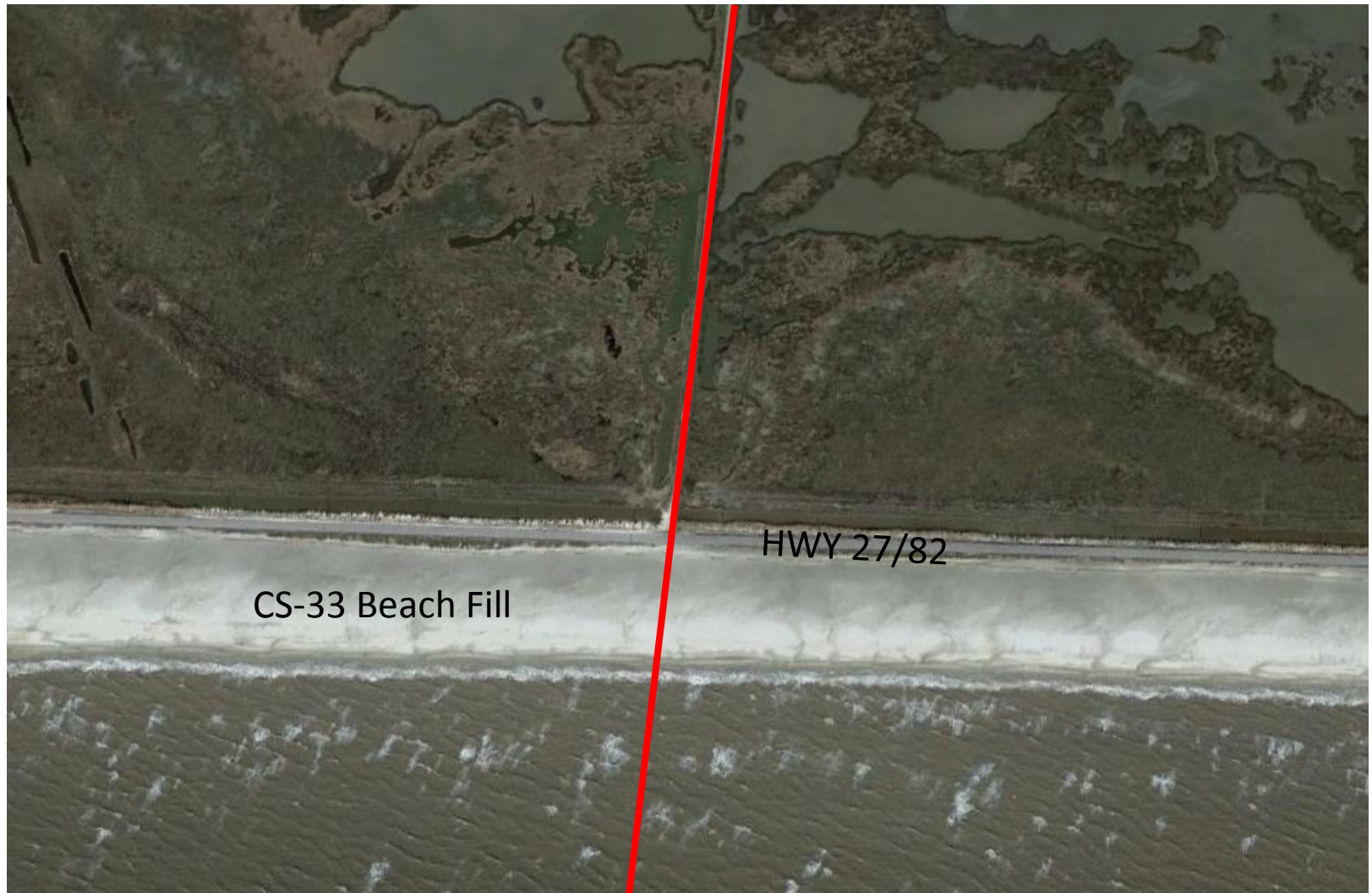
Project Information

- CWPPRA PPL 21
 - Federal Sponsor: NOAA's National Marine Fisheries Service (NMFS) is the
 - Creates/Nourishes 605 acres of marsh
 - Phase 2 Funding Request: Approved in January 2015
-
- Dredge Volume (cut): 3,307,660 CY
 - Earthen Containment Dikes: 45,000 LF
 - Earthen Terraces: 17,550 LF
 - Maximum Pump Distance: 5.5 miles

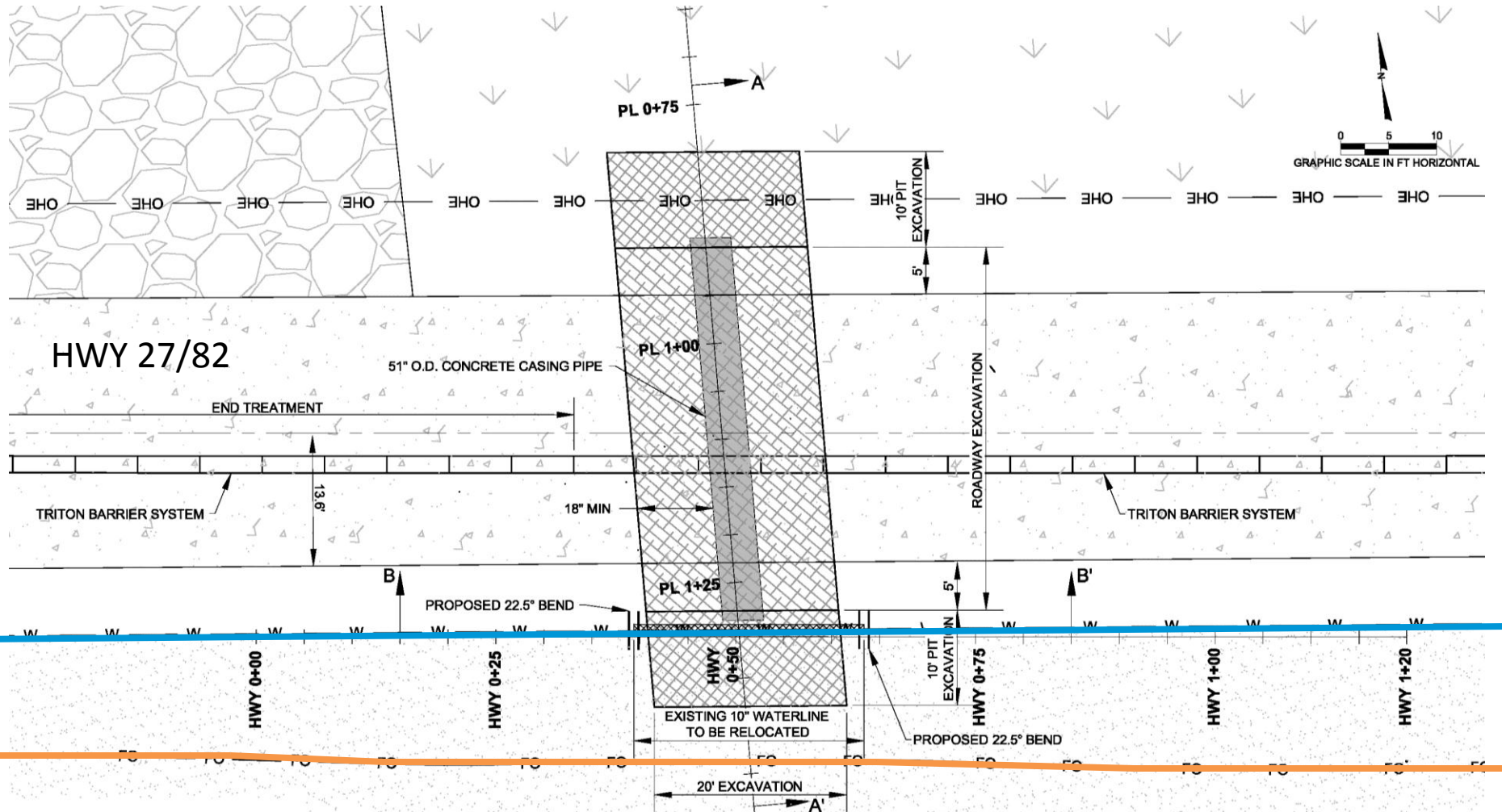
Project Layout



Dredge Pipeline Corridor



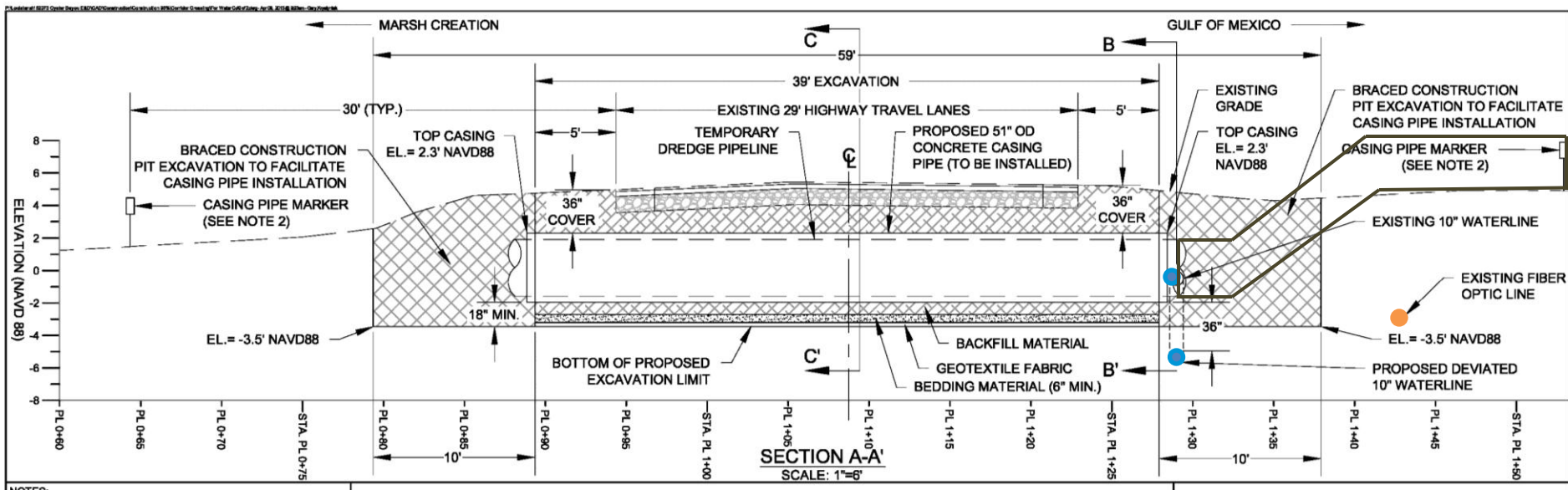
Dredge Pipeline Corridor



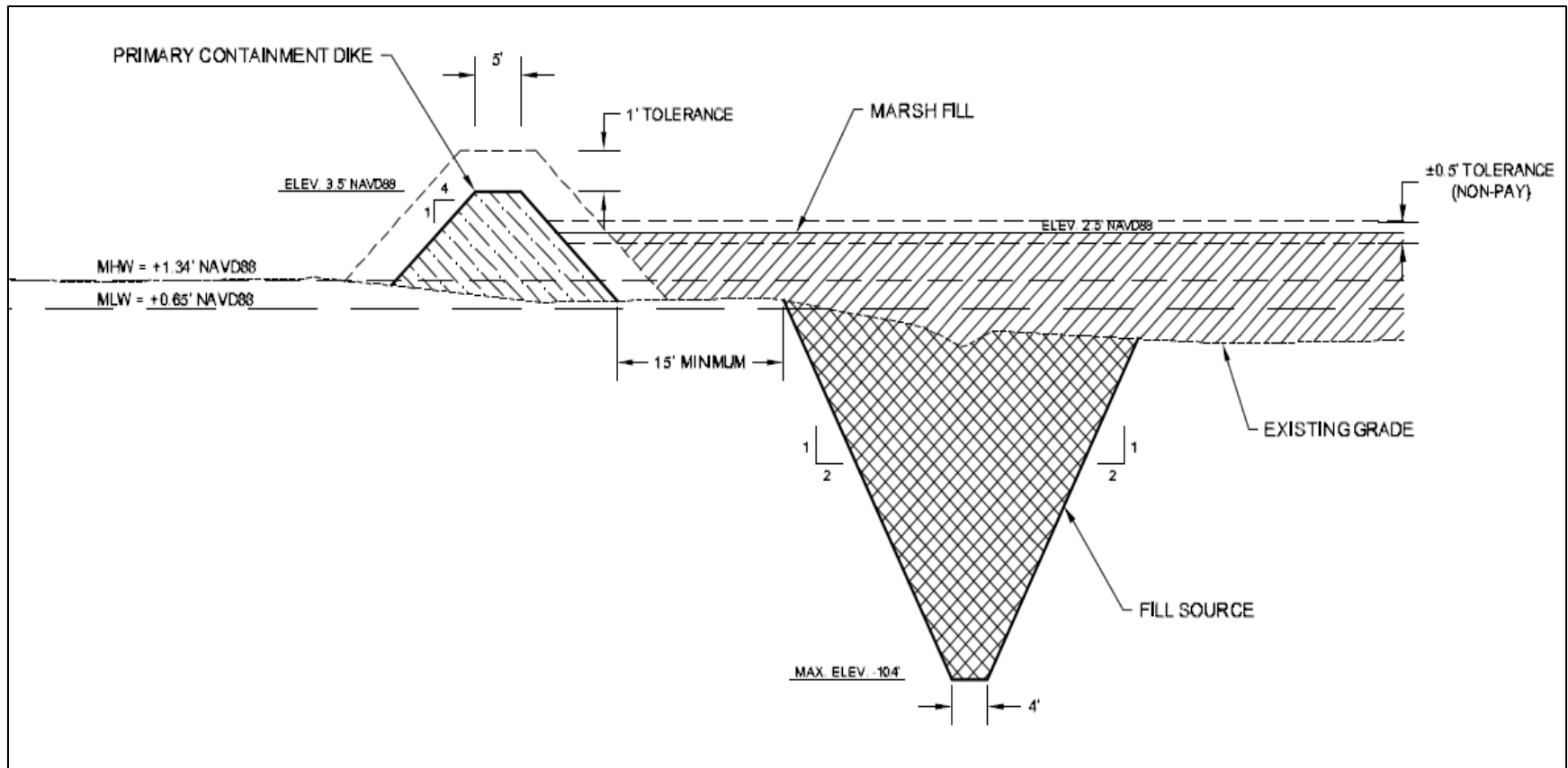
CS-33 Beach Fill

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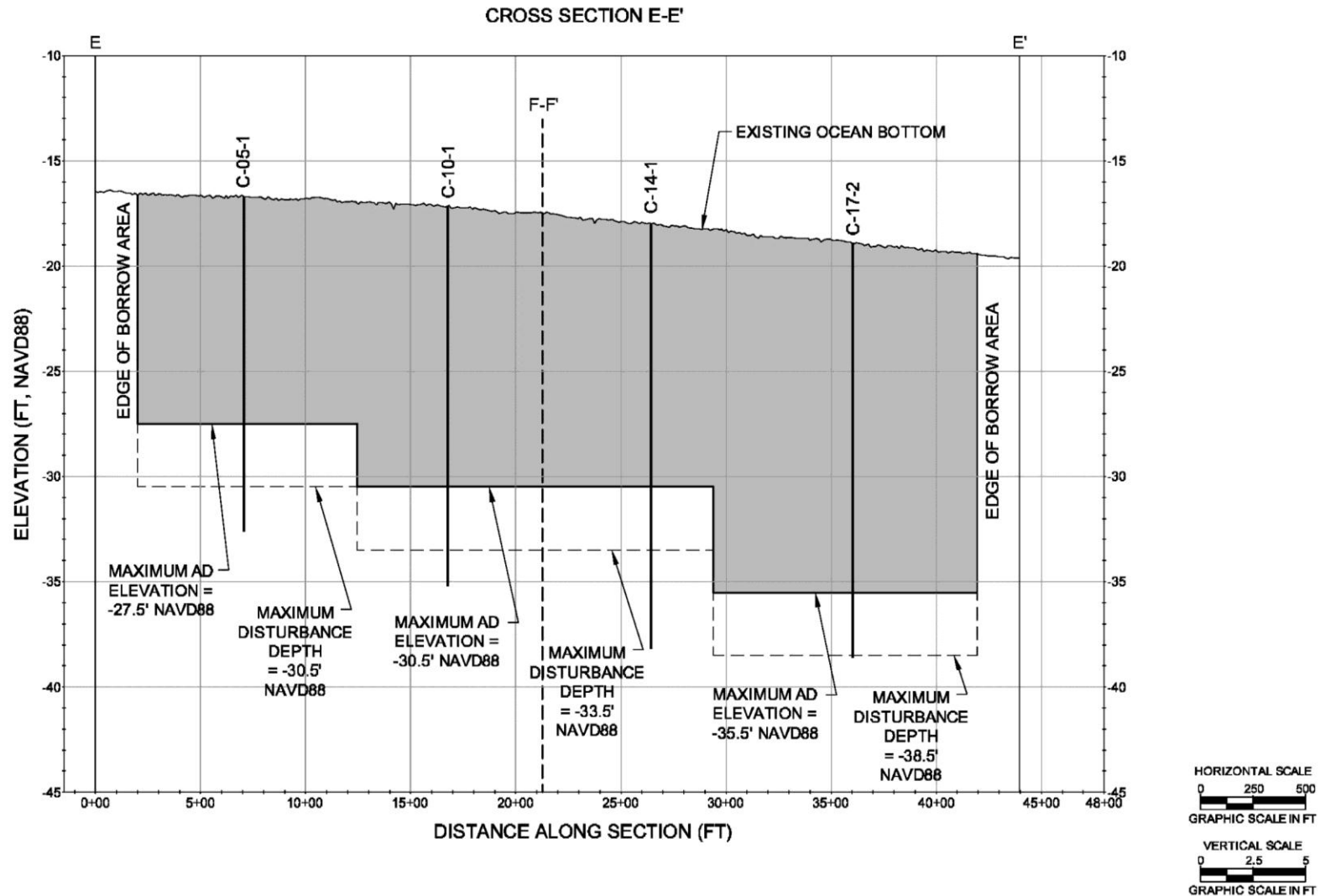
Dredge Pipeline Corridor



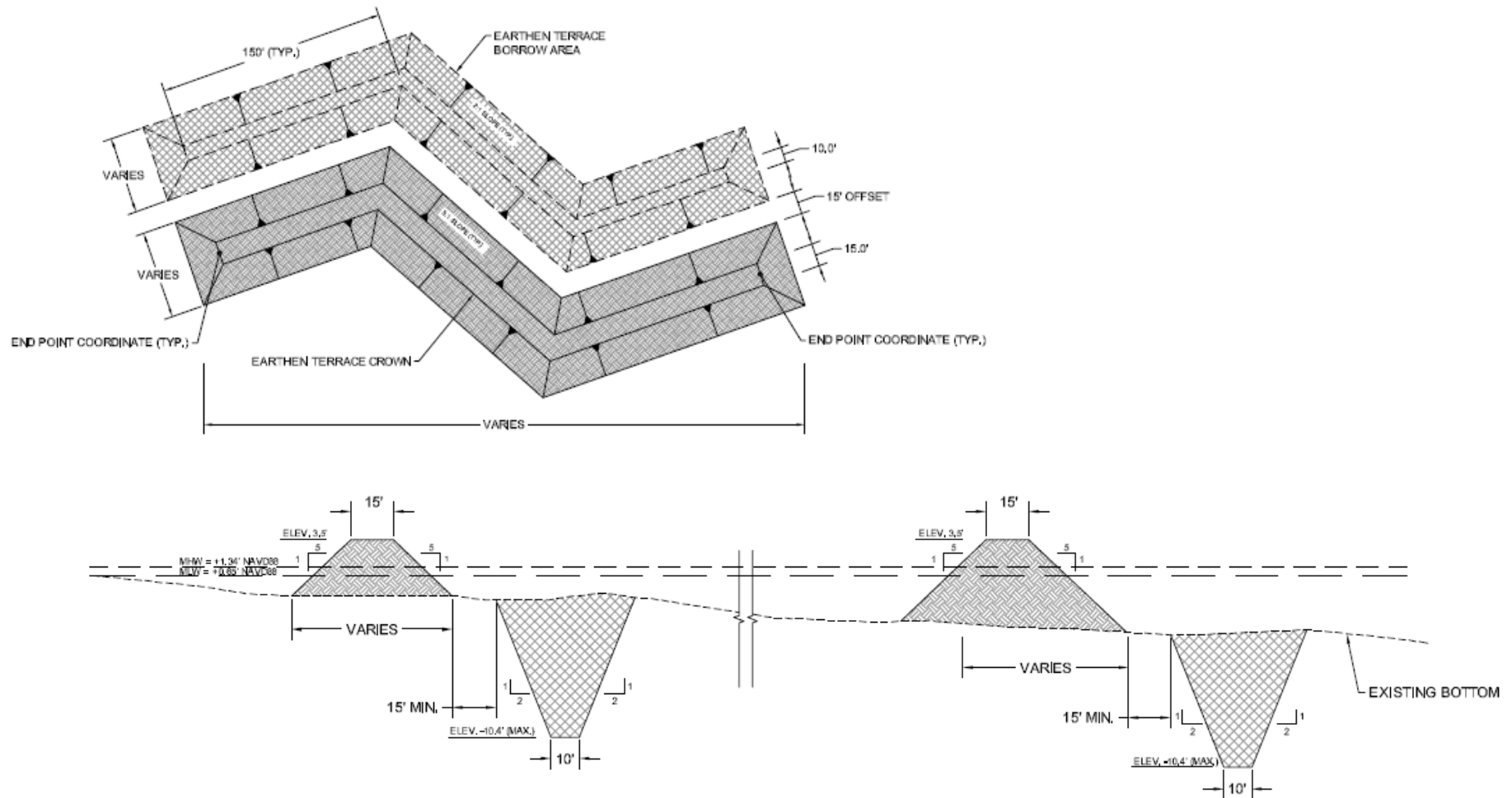
Typical Section – Marsh Creation



Typical Section – Offshore Borrow



Typical Section – Earthen Terraces



TYPICAL EARTHEN TERRACE CROSS SECTION

NOT TO SCALE

Schedule

- Phase 2 Funding Request: Approved in January 2015
- Design: Substantially Complete (dredge pipeline crossing at highway)
- Permitting: Underway
- Landrights/Servitude Agreements: Underway
- Advertisement: Late 2015/Early 2016

QUESTIONS

Restoration Projects

Design Complete/ Construction Funds Available

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Marsh
Creation





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Cameron-Creole Watershed Grand Bayou Marsh Creation

Thomas McLain, E.I.
Engineering Division
April 14, 2015

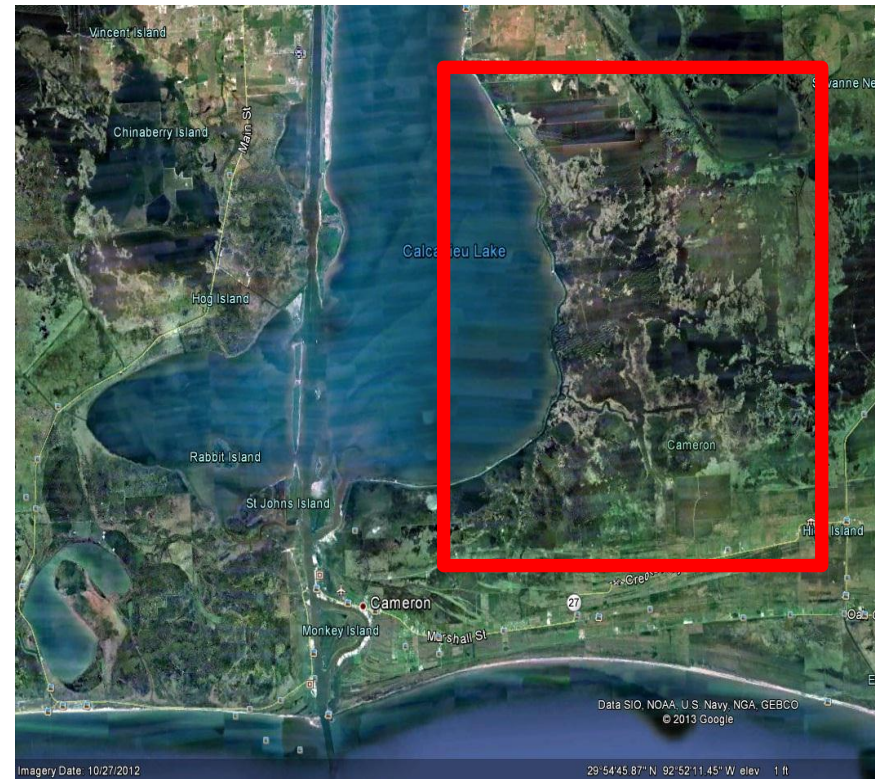


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Cameron-Creole Watershed Grand Bayou Marsh Creation

Summary

- Cameron Parish
- 617 Acres of Marsh Creation
 - Northern Cell: 219 Acres
 - Southern Cell: 398 Acres
- Borrow Source: Calcasieu Lake
- Federal Sponsor: US Fish & Wildlife Service

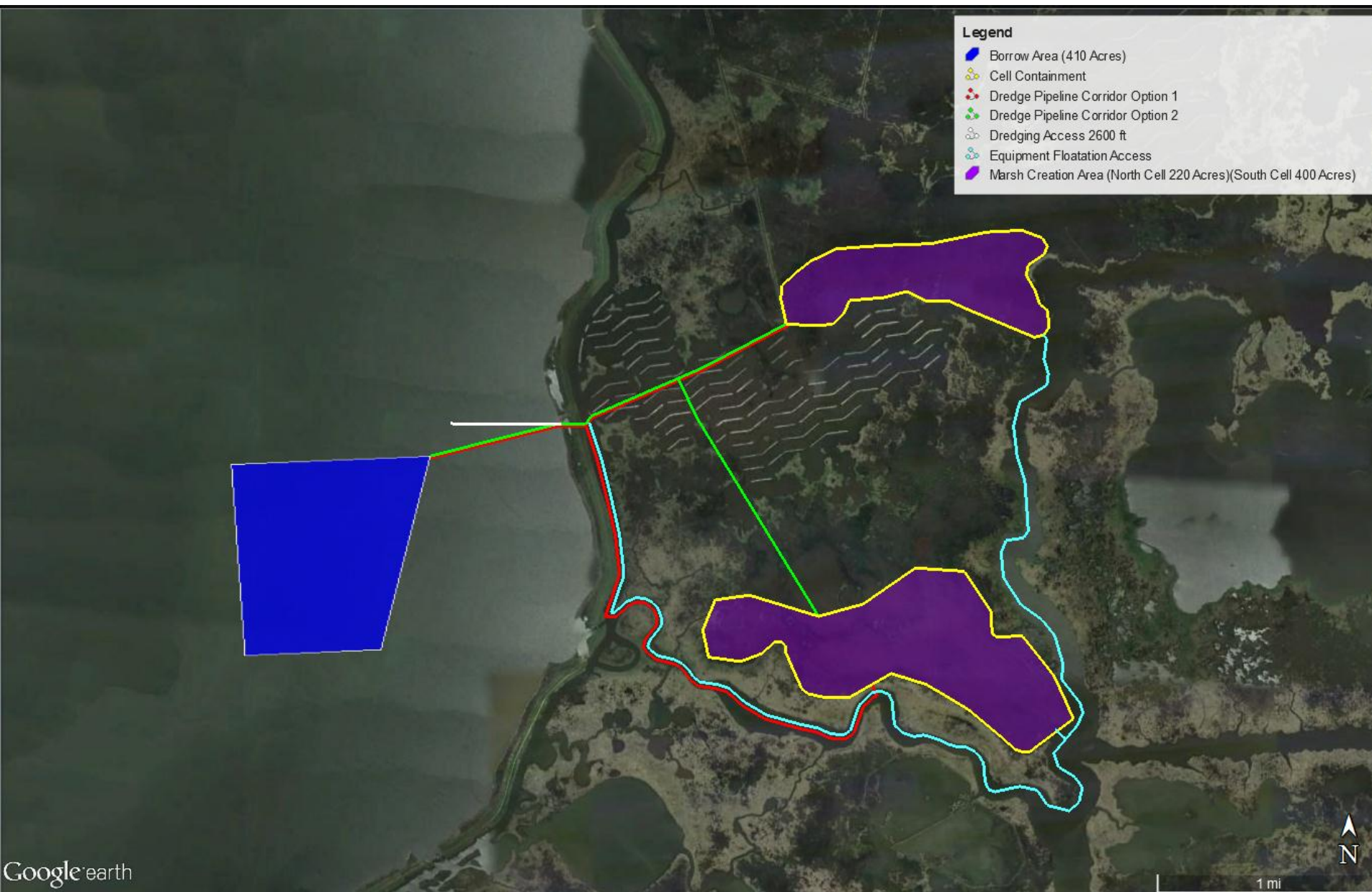


Federal PM:
Angela Trahan, USFWS

CPRA PM:
Garvin Pittman, CB&I



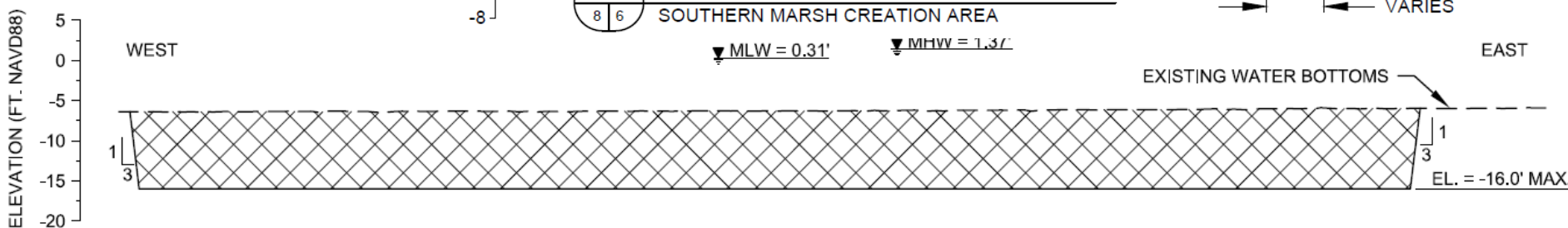
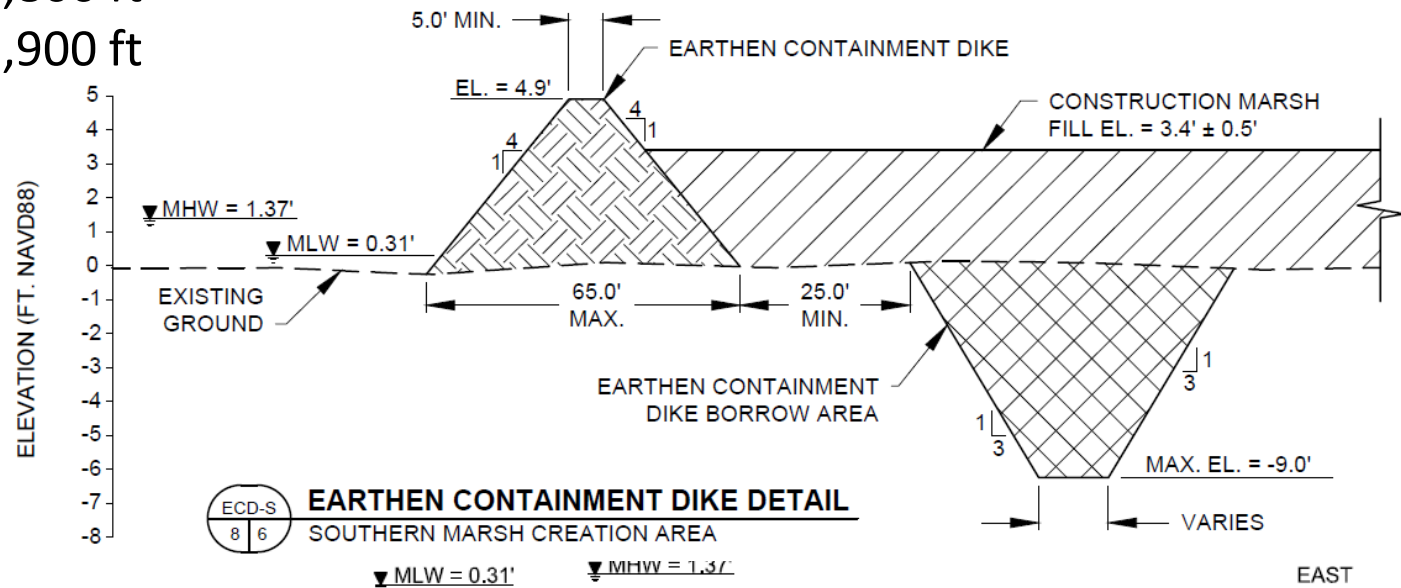
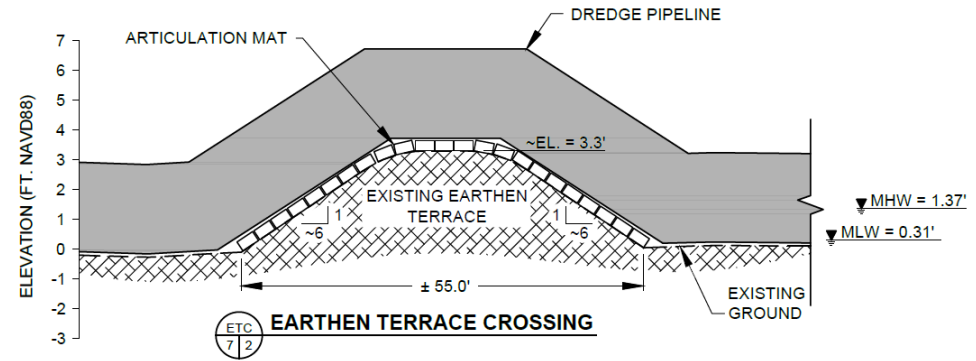
Cameron-Creole Watershed Grand Bayou Marsh Creation



Cameron-Creole Watershed Grand Bayou Marsh Creation

Quantities

- Cut Volume
 - 2,565,250 CY
 - 10 ft Cut Depth
- Containment Length
 - North Cell: 16,800 ft
 - South Cell: 21,900 ft



Cameron-Creole Watershed Grand Bayou Marsh Creation

Recent Milestones

- Received CWPPRA Tech Committee Vote for Phase II Funding Q4 2014
- Coastal Use Permit Application Submitted Q2 2015

Path Forward

- Developing Plans & Specifications
- Plan to go for Bidding Q4 2015

Issues/ Concerns

- LDWF has Expressed Turbidity Concerns in Calcasieu Lake

QUESTIONS

Restoration Projects

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- 6. Bayou Bonfouca Marsh Creation**
7. Living Shoreline Demonstration Project

Marsh
Creation





**Coastal Protection and
Restoration Authority of Louisiana**

Bonfouca Marsh Creation (PO-104)

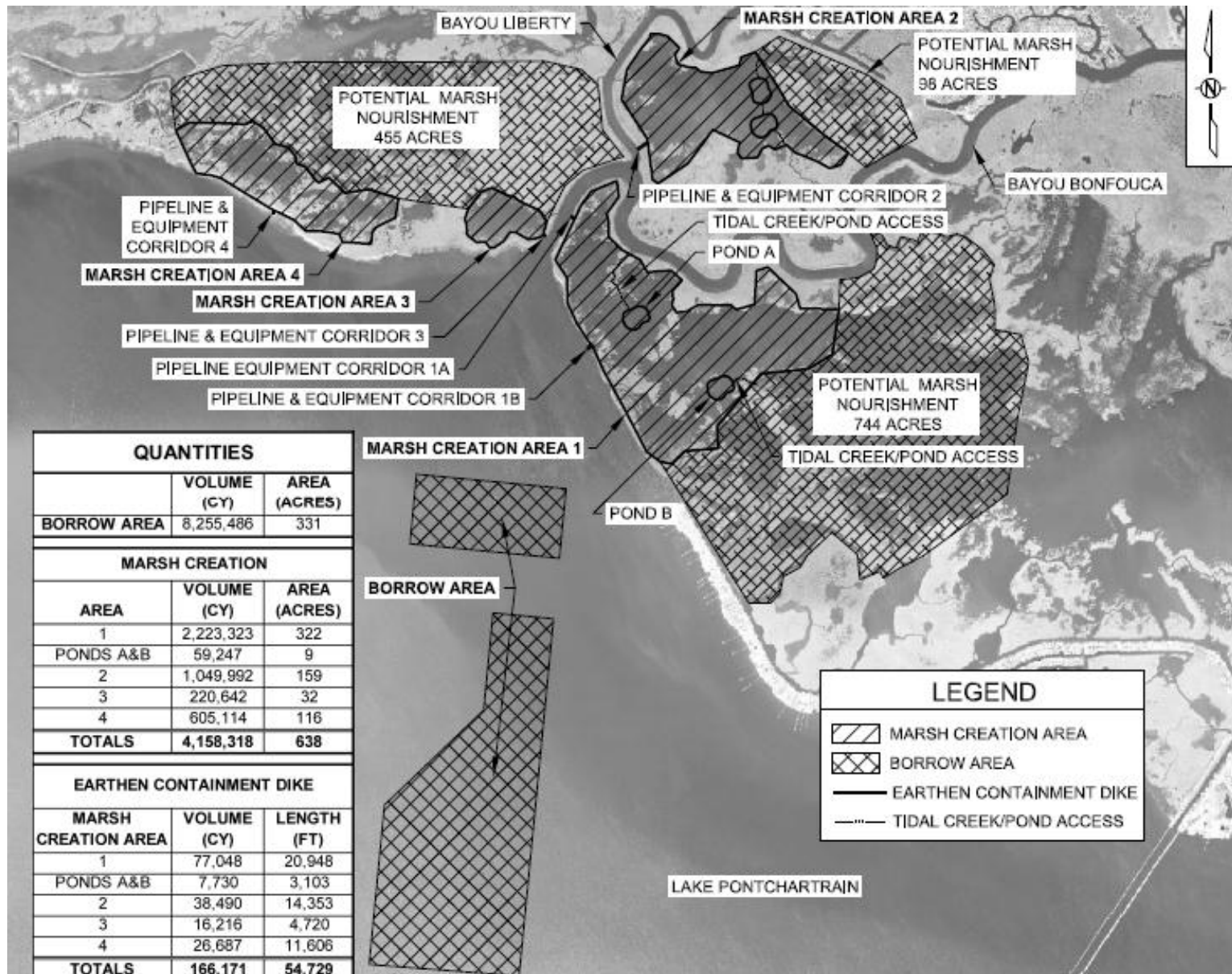
Shannon Haynes, P.E.
Engineering Division
April 14, 2015



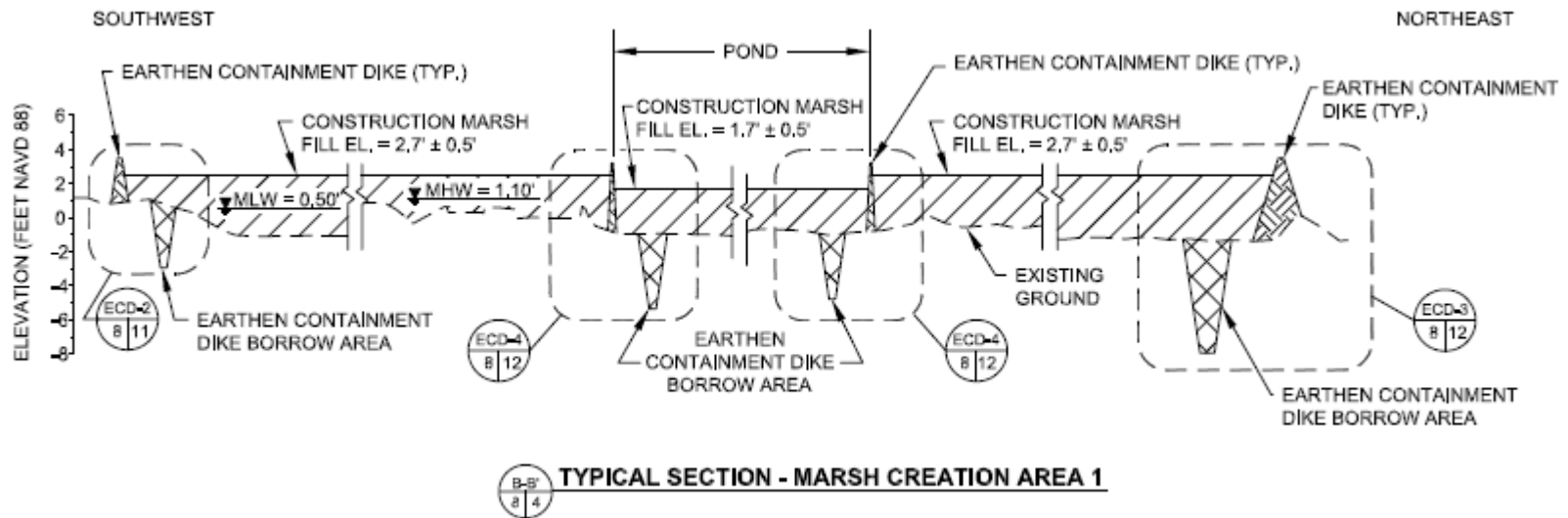
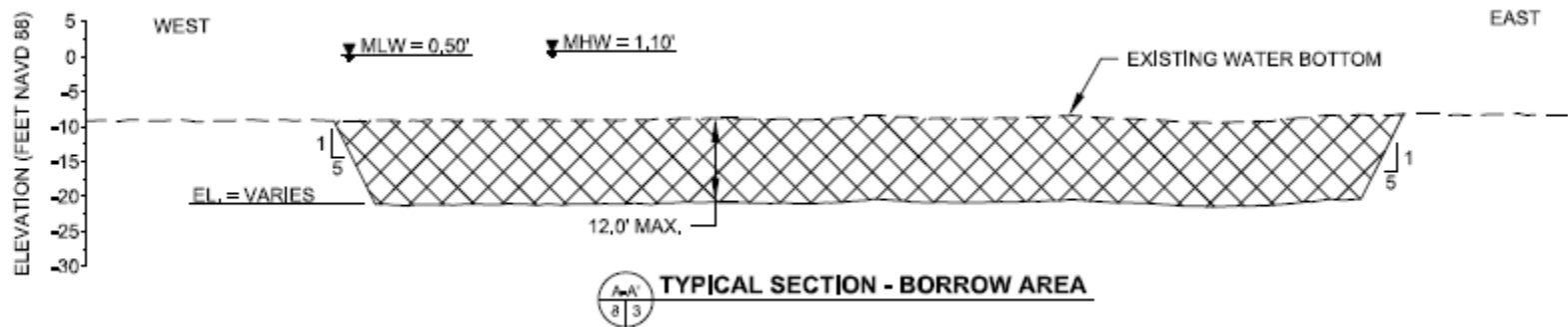
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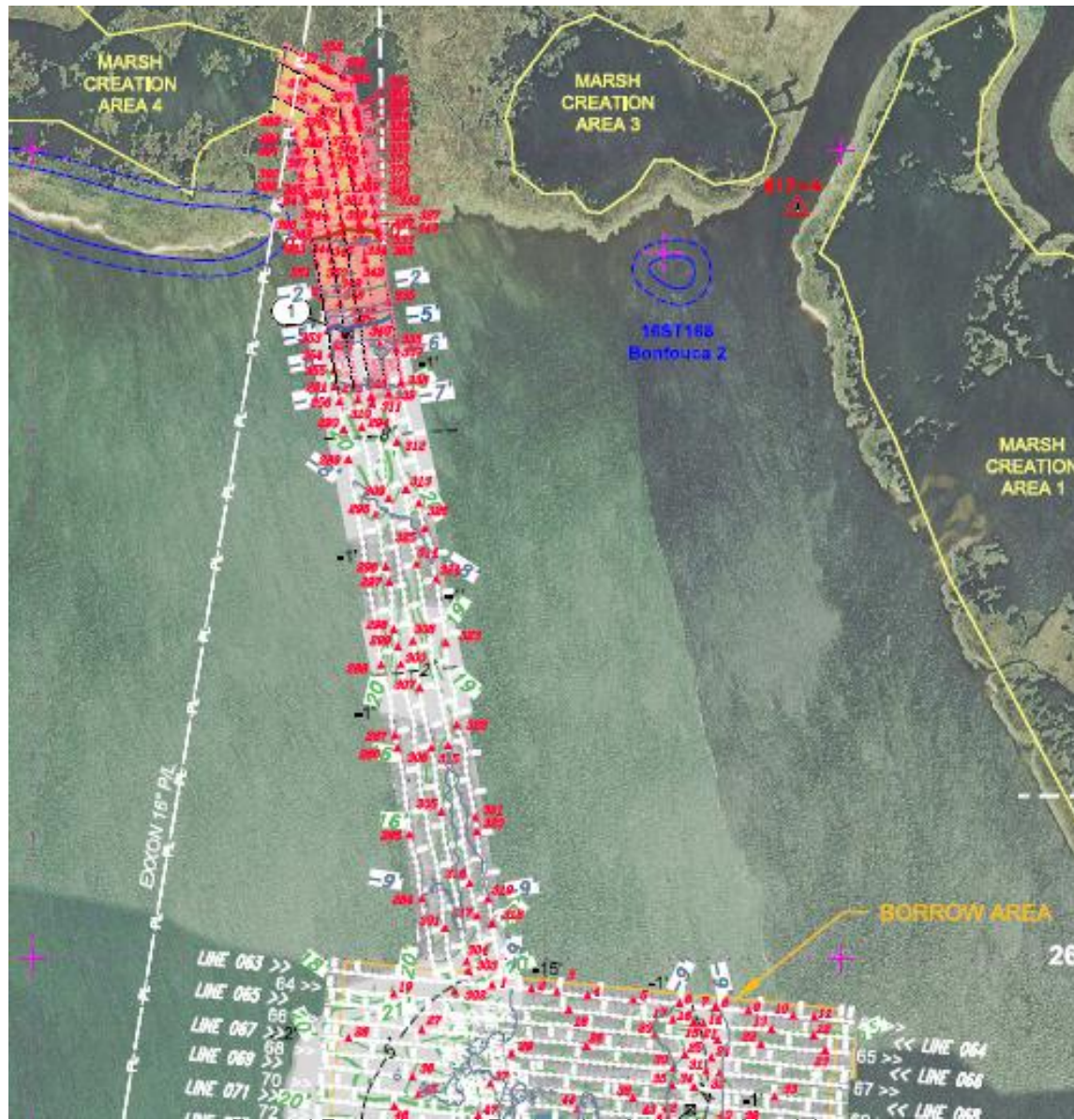
Project Plan



Proposed Project Features



Design Issues/Constraints



Estimated Schedule

- Engineering and Permitting - October 2015
- Construction is funded
- No Dredging Window for Sturgeon
- Construction Start – January 2016

QUESTIONS

Restoration Projects

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Oyster
Barrier Reef





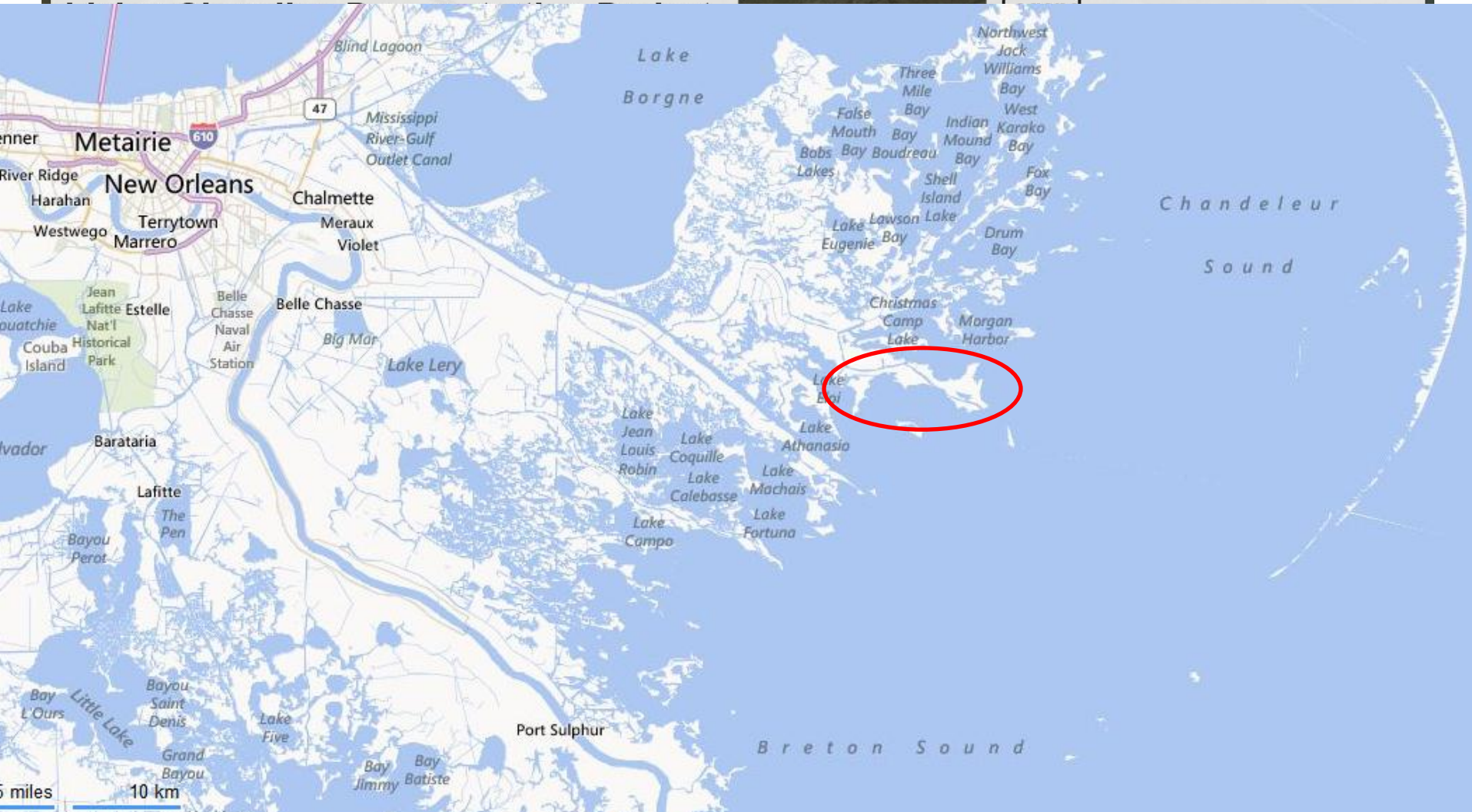
Tye Fitzgerald, P.E.
Engineering Division
April 14, 2015



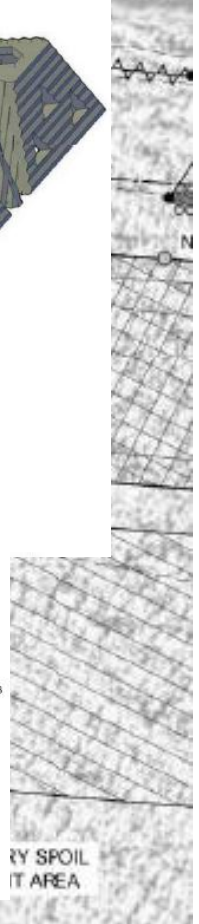
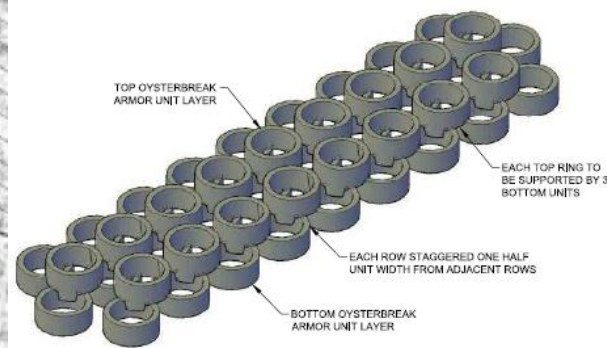
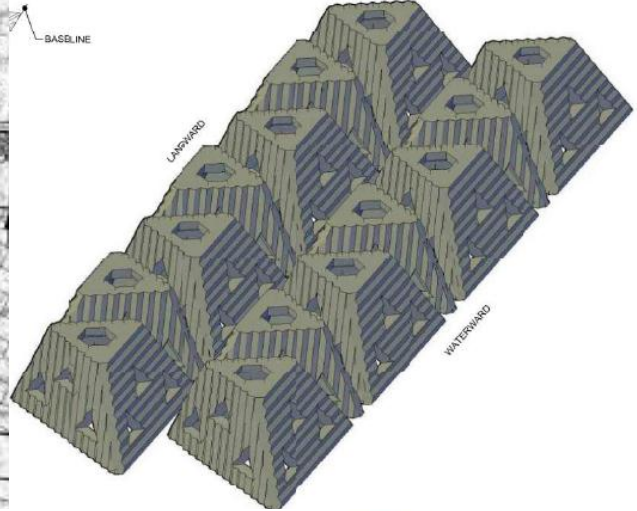
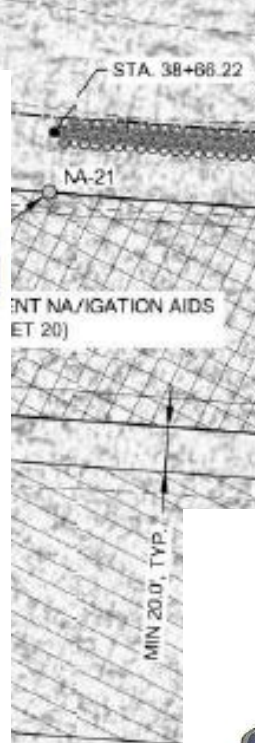
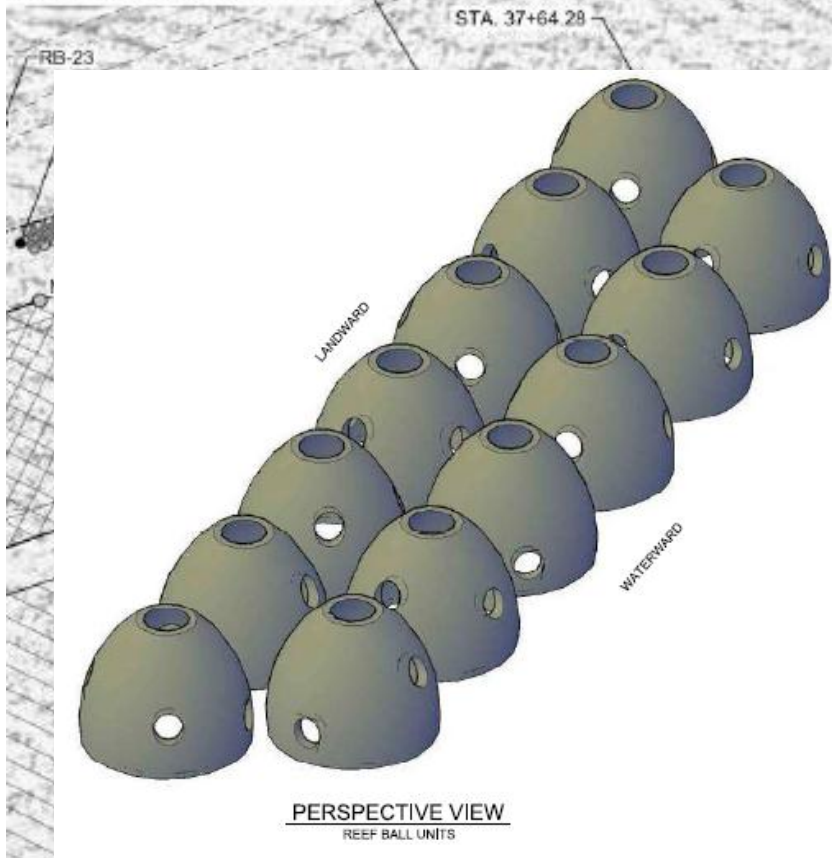
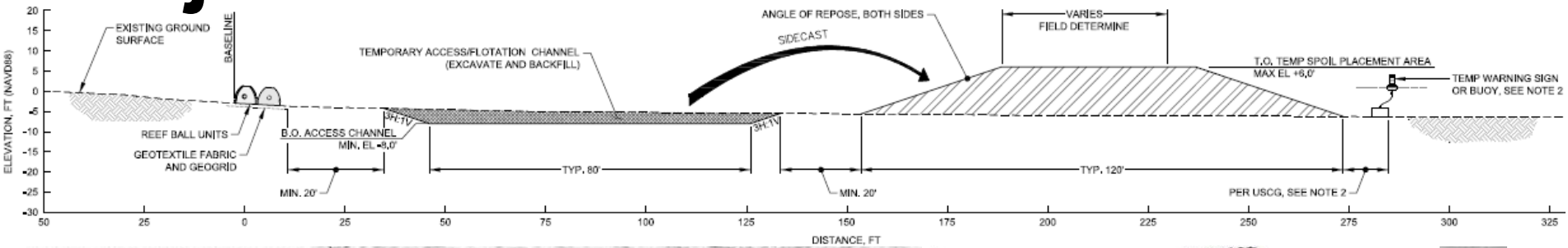
Project Background

- Located in St. Bernard Parish
- Proposing Living Breakwater Structures (approximately 4 different products)
- Approximately 11,200 LF of Shoreline Protection
- CIAP Funded

PO-148 Project Location



Project Features



Project Schedule

- Permits Summer 2015
- Plans & Specifications Summer 2015
- Bid Advertisement Fall 2015

QUESTIONS

Flood Protection Projects

1. Morganza to the Gulf Reach L
2. Delcambre-Avery Canal – Control Structure
3. Bayou Tigre – Control Structure
4. Bayou Tigre – Pump Station

Structural
Protection





Coastal Protection and
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Flood Protection Projects

TE-78 MTOG Reach L

TV-57 Delcambre-Avery Canal – Control Structure

TV-67 Bayou Tigre – Control Structure

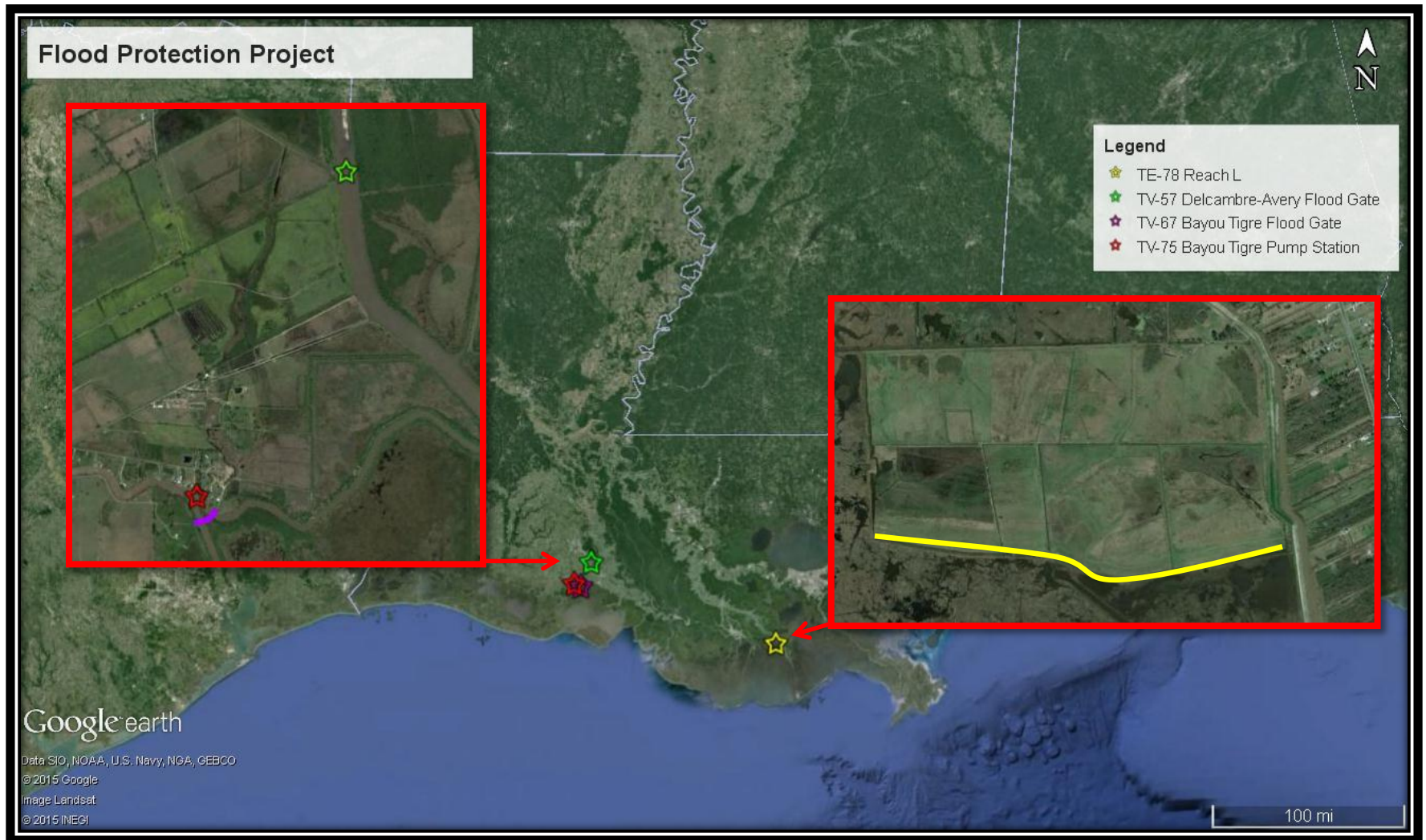
TV-75 Bayou Tigre – Pump Station

Binh Dao, E.I.
Engineering Division
April 14, 2015



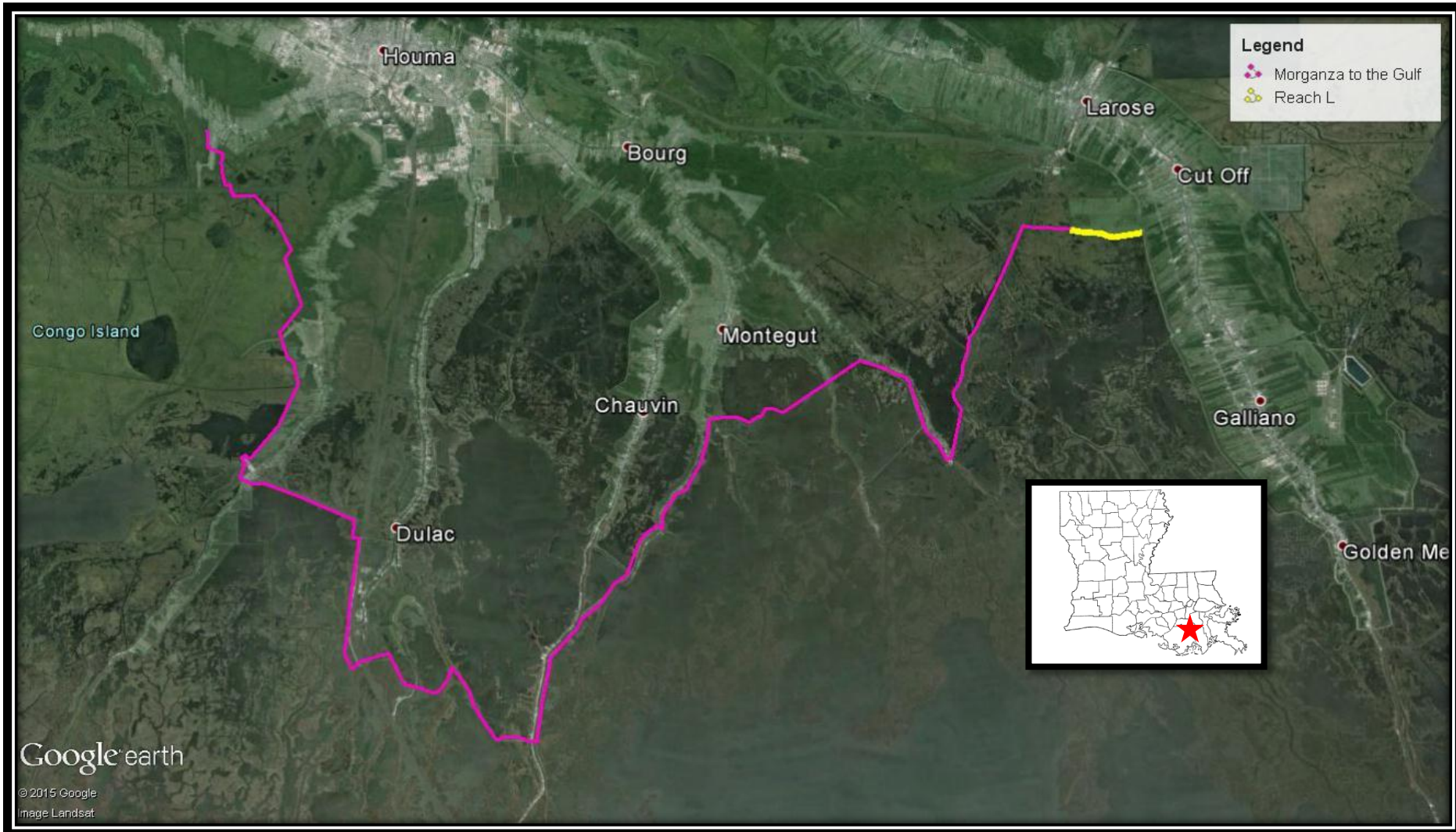
committed to **our coast**

Project Overview



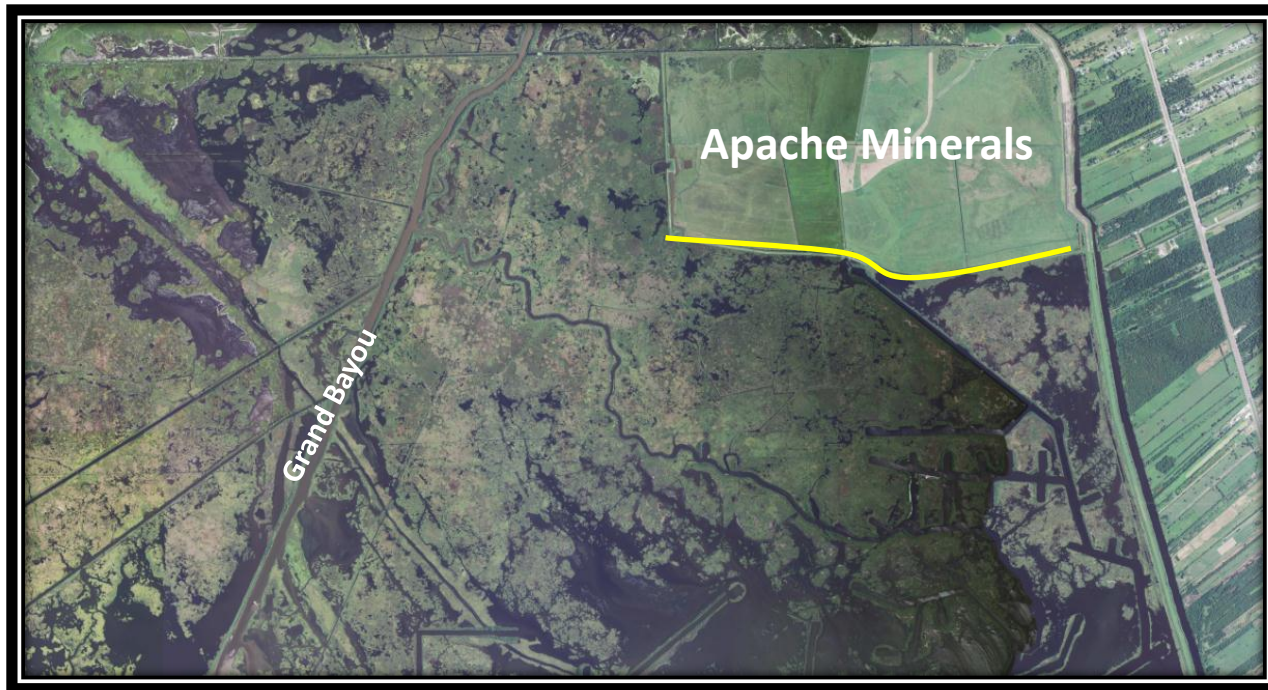
Project Background

Cut Off/Pointe-Aux-Chene Levee Rehabilitation

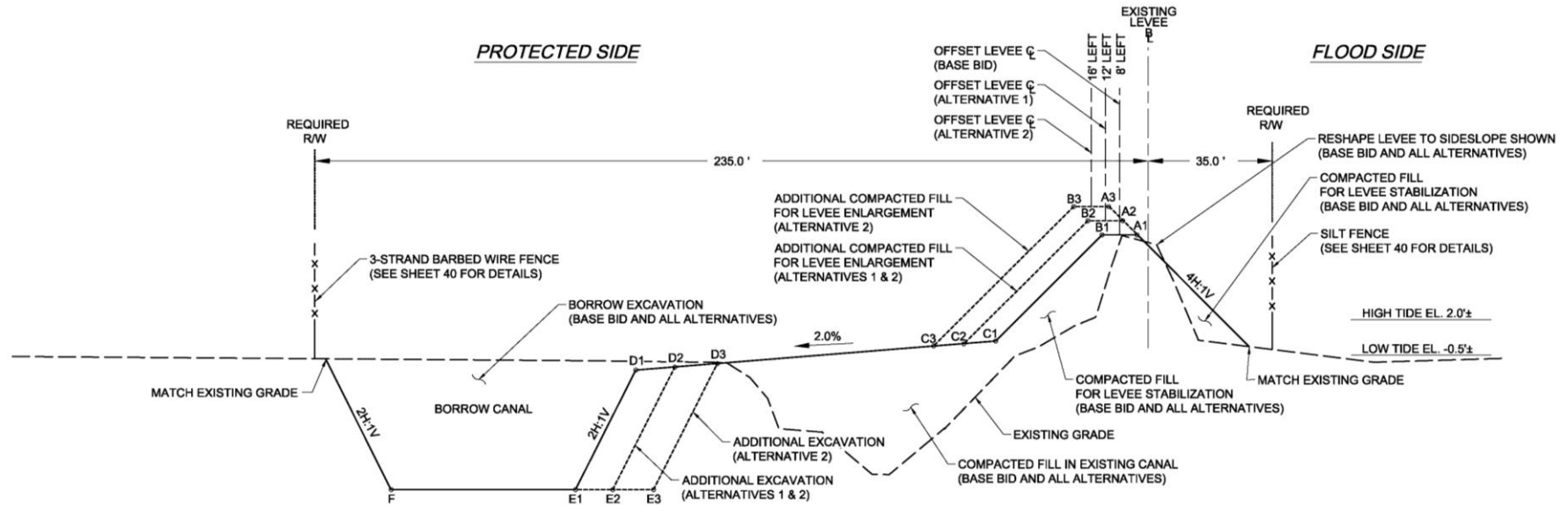


Project Background

- Apache Minerals
- Existing levee elevation



Levee Design



STA. 468+00 TO STA. 512+50 AND STA. 517+00 TO STA. 578+00

TYPICAL SECTION - LEVEE AND BORROW CANAL

N.T.S

BASE BID

MARK	DESCRIPTION	OFFSET	ELEVATION
A1	LEVEE CROWN - FLOOD SIDE	-3.00	8.00
B1	LEVEE CROWN - PROTECTED SIDE	-13.00	8.00
C1	LEVEE TOE - PROTECTED SIDE	-43.00	0.50
D1	BORROW AREA - TOP OF SLOPE (RIGHT)	-144.50	-1.55
E1	BORROW AREA - BOTTOM OF SLOPE (RIGHT)	-161.50	-10.00
F	BORROW AREA - BOTTOM OF SLOPE (LEFT)	-213.50	-10.00

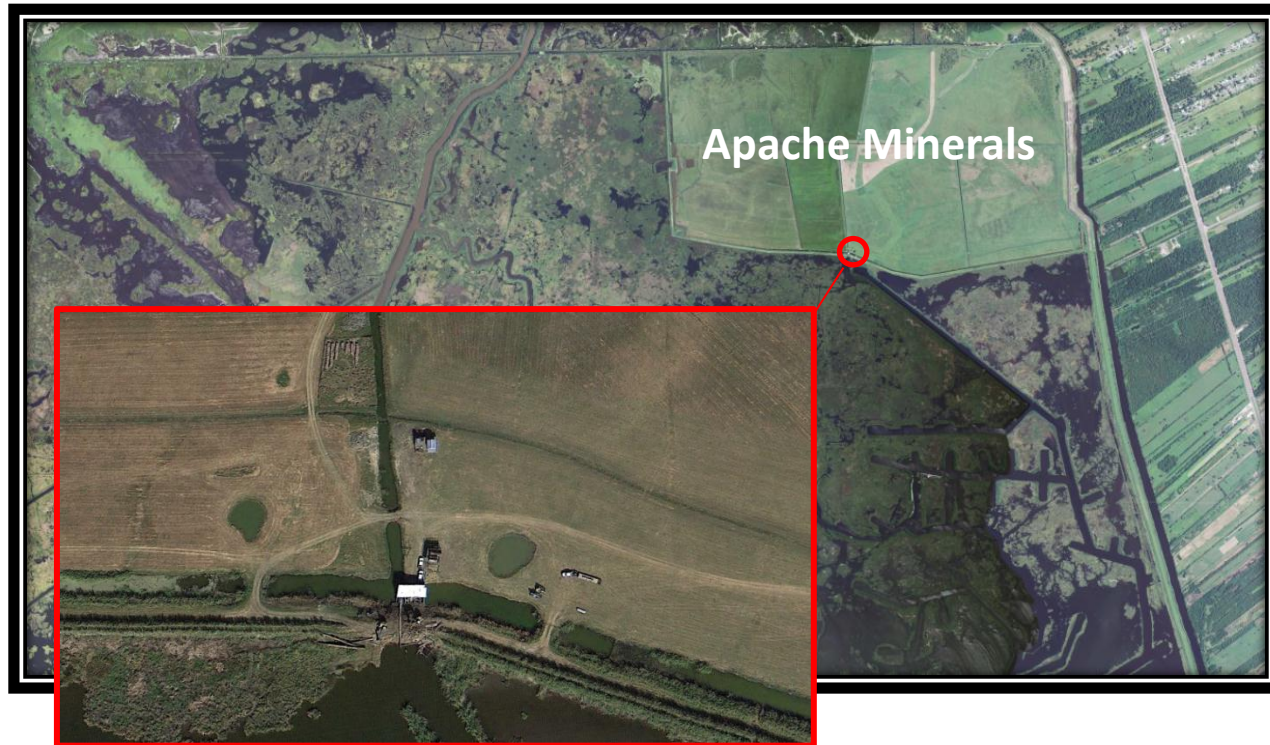
ALTERNATIVE NO. 1

MARK	DESCRIPTION	OFFSET	ELEVATION
A2	LEVEE CROWN - FLOOD SIDE	-8.00	9.00
B2	LEVEE CROWN - PROTECTED SIDE	-18.00	9.00
C2	LEVEE TOE - PROTECTED SIDE	-52.00	0.30
D2	BORROW AREA - TOP OF SLOPE (RIGHT)	-133.50	-1.35
E2	BORROW AREA - BOTTOM OF SLOPE (RIGHT)	-151.00	-10.00
F	BORROW AREA - BOTTOM OF SLOPE (LEFT)	-213.50	-10.00

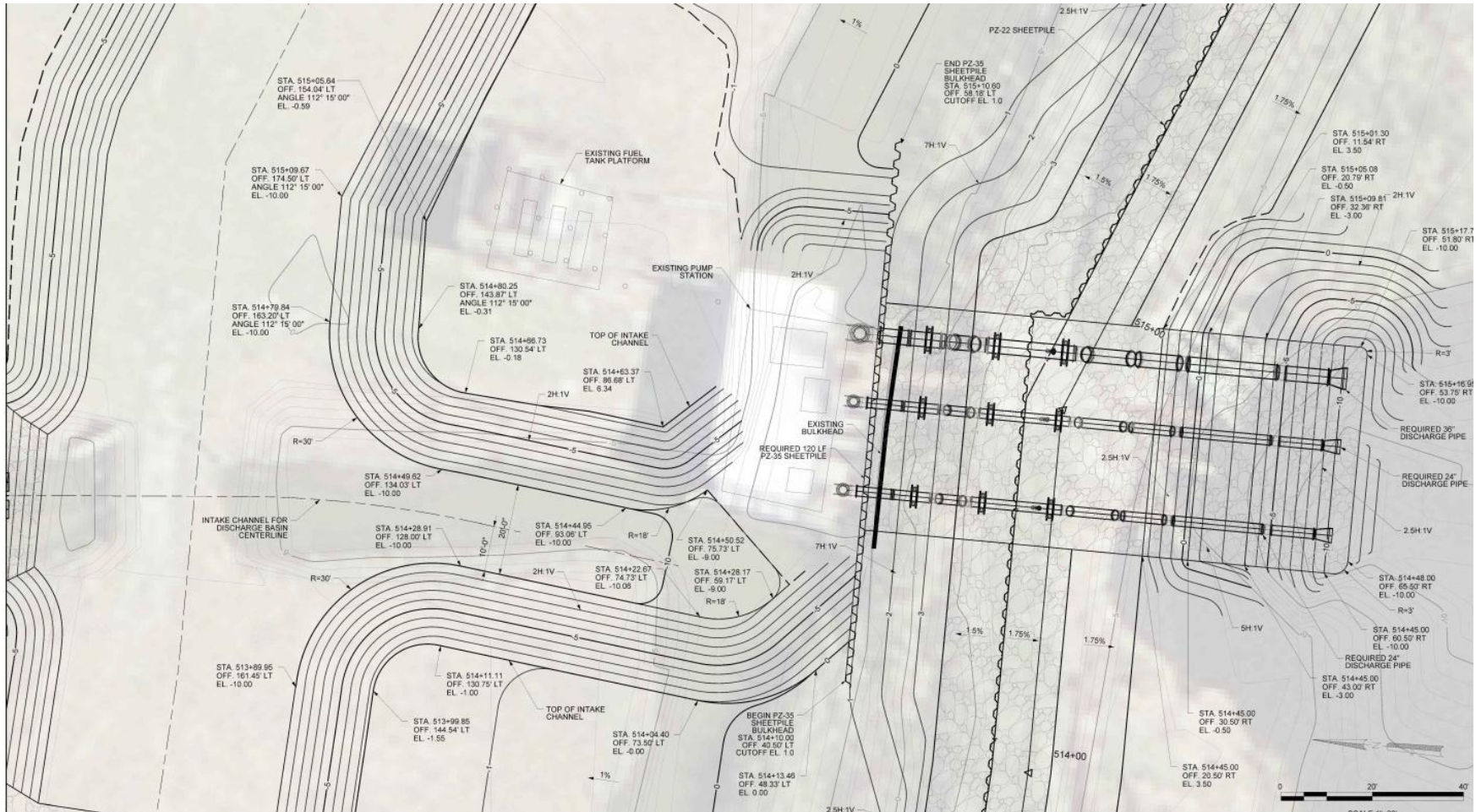
ALTERNATIVE NO. 2

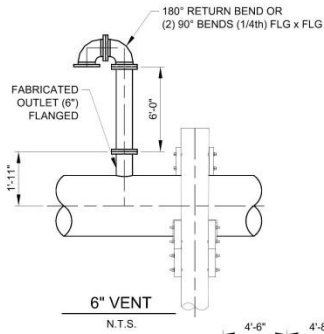
MARK	DESCRIPTION	OFFSET	ELEVATION
A3	LEVEE CROWN - FLOOD SIDE	-11.00	10.00
B3	LEVEE CROWN - PROTECTED SIDE	-21.00	10.00
C3	LEVEE TOE - PROTECTED SIDE	-60.50	0.15
D3	BORROW AREA - TOP OF SLOPE (RIGHT)	-121.50	-1.10
E3	BORROW AREA - BOTTOM OF SLOPE (RIGHT)	-139.50	-10.00
F	BORROW AREA - BOTTOM OF SLOPE (LEFT)	-213.50	-10.00

Project Plan View of Pump Station



Pump Station

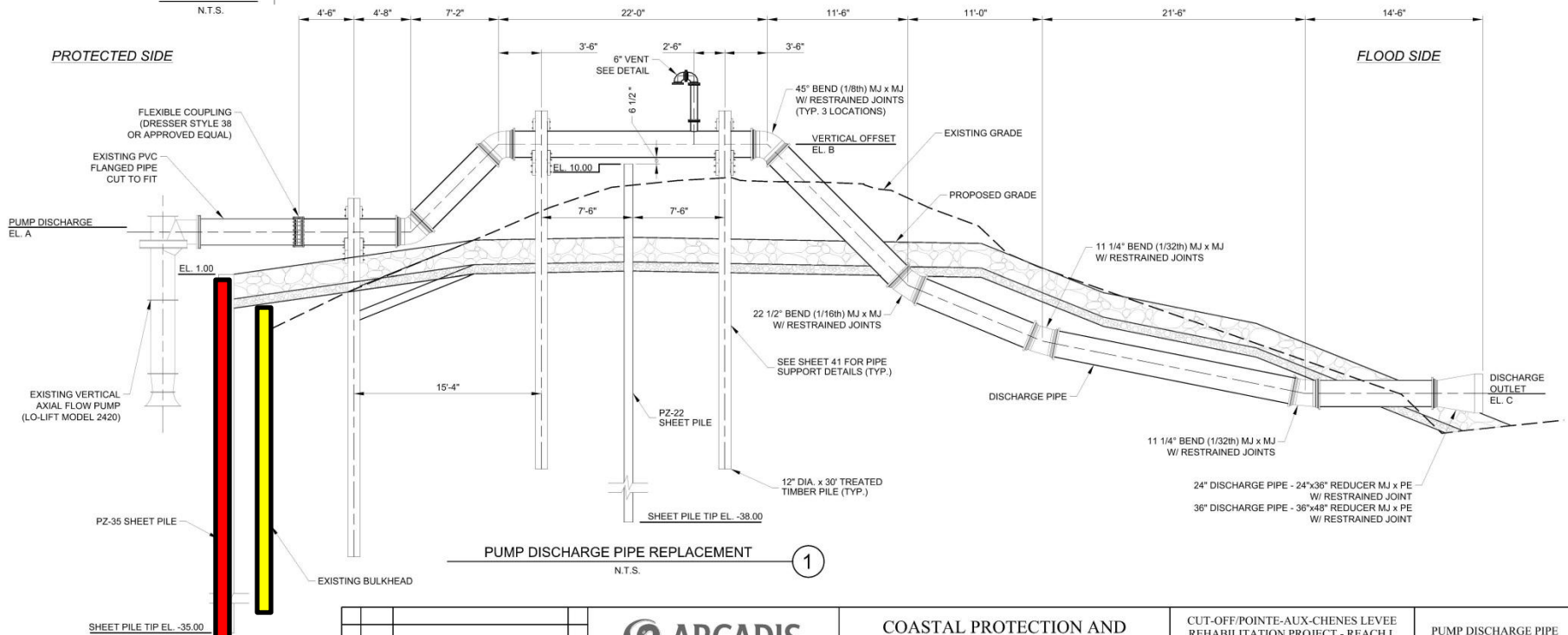




PIPE DIA.	ELEVATION		
	A	B	C
24"	4.60	11.75	-8.60
36"	5.10	12.25	-8.10

NOTES:

1. ALL PIPE TO BE PLAIN END DUCTILE IRON, CLASS 250, EXCEPT WHERE NOTED.
2. ALL FITTINGS TO BE MECHANICAL JOINT WITH RESTRAINT. RESTRAINING GLAND TO BE MEGALUG SERIES 1100 OR APPROVED EQUAL.



REV	DATE	DESCRIPTION	BY

ARCADIS
Infrastructure · Water · Environment · Buildings
10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LOUISIANA 70816
T. 225.292.1004 | F. 225.218.9677

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AJL

DESIGNED BY: GJK

CUT-OFF/POINTE-AUX-CHENES LEVEE REHABILITATION PROJECT - REACH L

STATE PROJECT NUMBER: TE-78

FEDERAL PROJECT NUMBER: N/A

APPROVED BY: DLF

PUMP DISCHARGE PIPE REPLACEMENT

DATE: 4/16/2014

SHEET 23 OF 44

Quantities

Estimated Quantities		
Separator Geotextile	SY	5,000
Embankment, Compacted Fill	CY	225,000
Piling, Steel	SF	18,800
Seeding & Mulching	AC	45
24" Culvert	LF	800
Filter Stone	CY	400
55-LB Class Riprap	TON	3,700

TE-78 Reach L

Estimated Schedule

Task	Estimated Date
E&D	September 2014
Permitting & Land Rights	Summer 2015
Estimated Construction	Fall 2015

Project Background

TV-57 Delcambre-Avery Canal

- Project Location:
Iberia Parish



TV-57
Delcambre-Avery Canal

Delcambre-Avery Canal

Google earth

© 2015 Google

2 mi

Proposed Project Features

Project Information

- Potentially reduces inland flooding to portions of Iberia and Vermilion Parishes due to small storms and rainfall events
- Site selection, design criteria and associated cost estimates will be a part of the Basis of Design (Phase 1) document
- Level of protection is restricted by the surrounding topography

Project Features

- Flood gate structure across Delcambre-Avery Canal
- The maximum width for a control structure across Delcambre-Avery canal is approximately 125 feet

TV-57 Delcambre-Avery

- Estimated Schedule

Task	Completion Date
Intergovernmental Agreement	Pending
Basis of Design Document	Fall 2015

Project Background

TV-67 Bayou Tigre- Flood Gate

TV-75 Bayou Tigre – Pump Station

- Project Location:
Vermilion Parish



TV-67 Bayou Tigre – Flood Gate

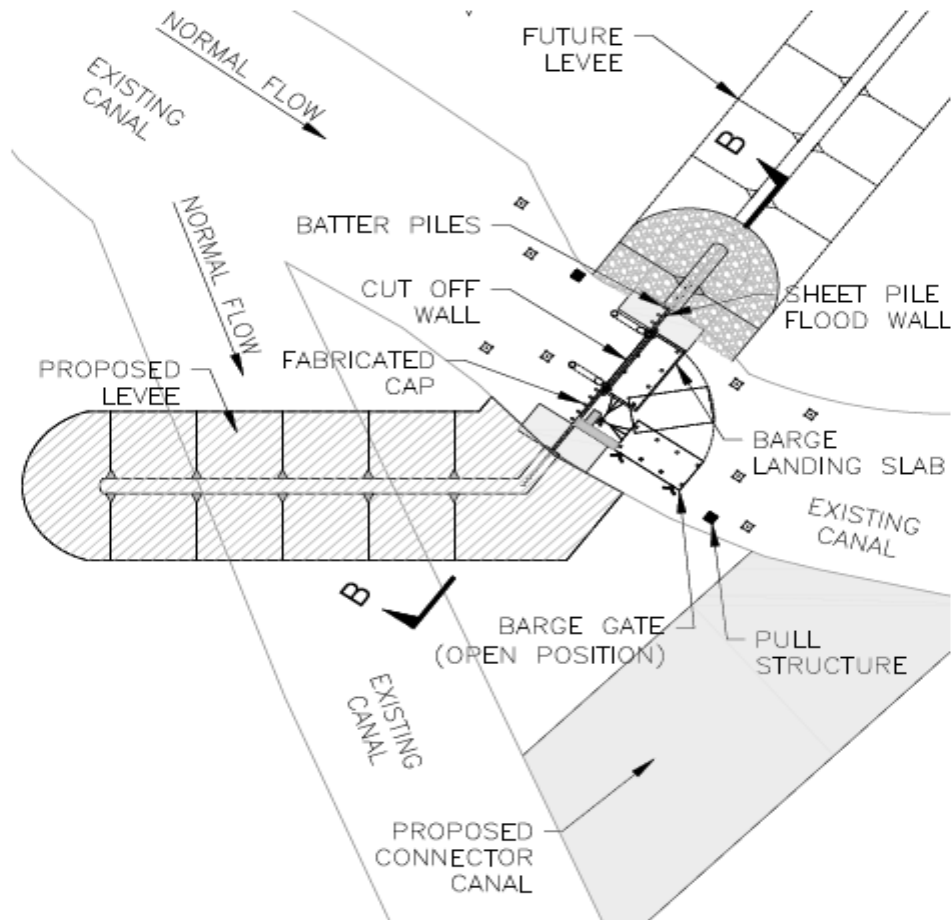
Project Information

- Proposed elevation is +17.0 ft. 50 year event (2% AEP)
- 50-year design life
- Potentially reduces inland flooding to portions of Vermilion Parish during small storm & rainfall event
- Level of protection is restricted by the surrounding topography

Project Features

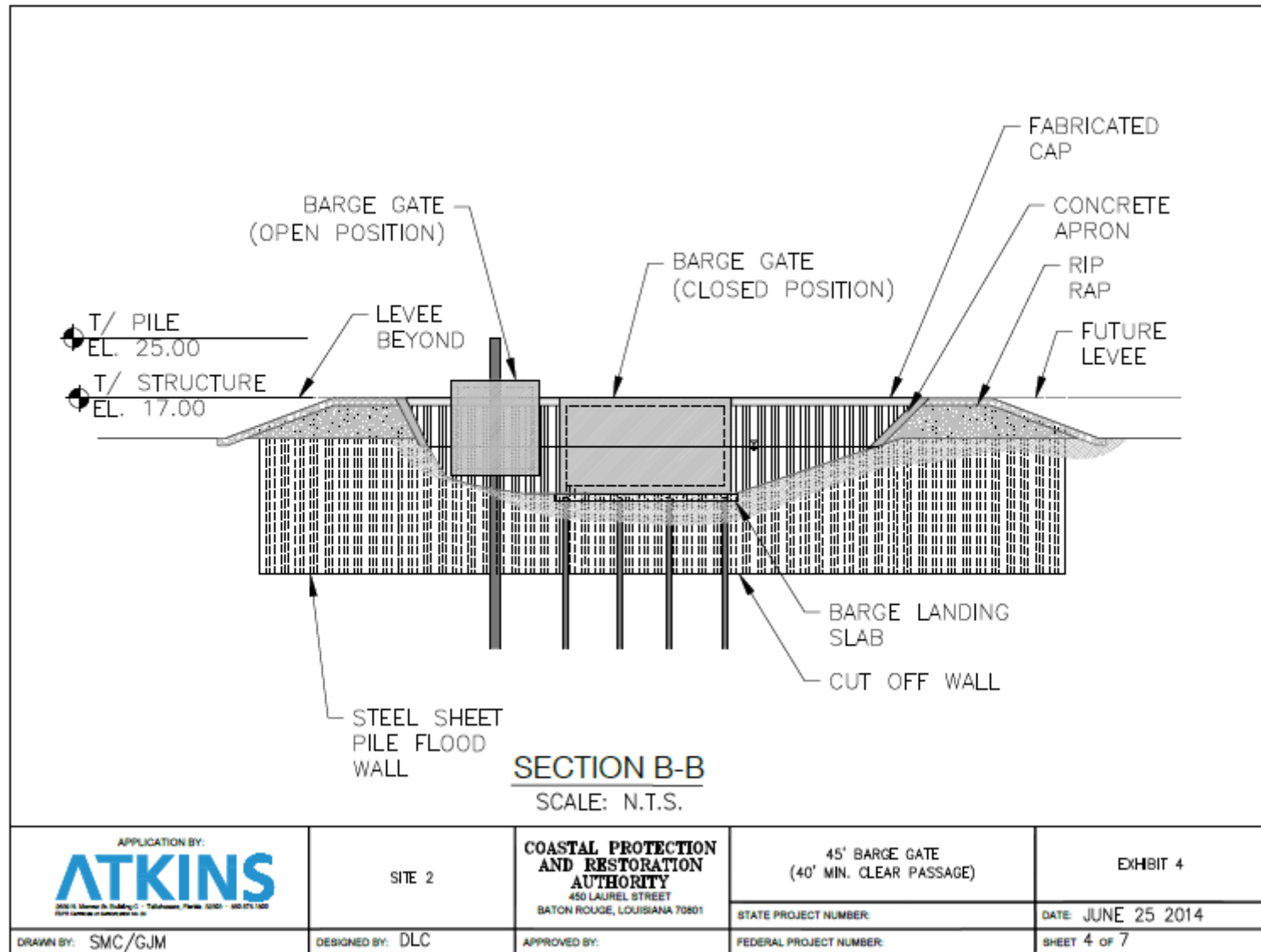
- Approximately 40-foot-wide steel barge gate with structural tie-ins
- Canal depth are approximately 12-14 ft deep

Proposed Project Features



APPLICATION BY: ATKINS <small>2000 N. Morris St. Building C - Tallahassee, Florida 32301 - 904.475.1500</small> <small>ATKINS is a subsidiary of Jacobs Group, Inc.</small>	SITE 2	COASTAL PROTECTION AND RESTORATION AUTHORITY <small>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</small>	45' BARGE GATE (40' MIN. CLEAR PASSAGE)	EXHIBIT 3
			STATE PROJECT NUMBER:	DATE: JUNE 25 2014
DRAWN BY: SMC/GJM	DESIGNED BY: DLC	APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 3 of 7

Proposed Swing Gate Features

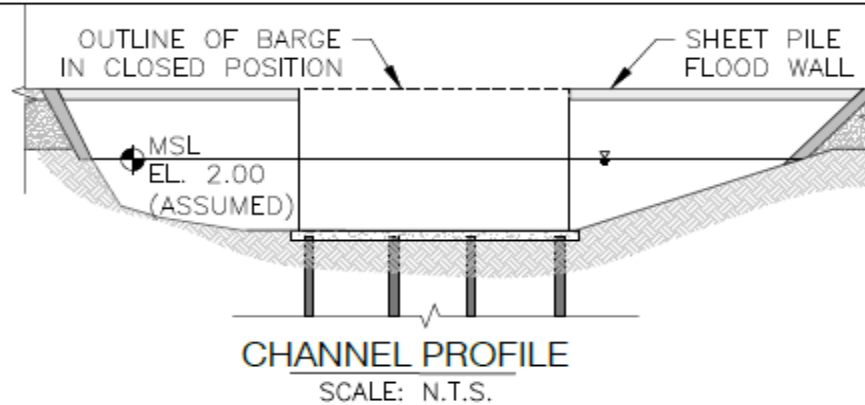


Proposed Swing Gate Features

- Maximum Swing Gate Closing Time (4 hours maximum)
- Occupancy (3 personnel maximum)
- Minimized Maintenance (Corrosion Protection/Sacrificial)
- Redundancy
- Power (120V/240V/Diesel)
- Pumps

Channel Profile

T/ STRUCT.
 EL. 17.00
 EX. GRADE
 EL. 4.00 (VARIES)
 MUDLINE
 EL. (-)11.00



MSL
 EL. 2.00
 (ASSUMED)



MSL
 EL. 2.00
 (ASSUMED)



APPLICATION BY: ATKINS <small>2000 St. Bernard St. Building C - Tallahassee, Florida 32301 - 904.475.1500 100% Corporate or Government Use Only</small>	VARIES	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	CHANNEL PROFILE	EXHIBIT 7
			STATE PROJECT NUMBER:	DATE: JUNE 25 2014
DRAWN BY: SMC/GJM	DESIGNED BY: DLC	APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 7 OF 7

Proposed Project Features

TV-75 Bayou Tigre – Pump Station

Project Information

- Site selection, design criteria & the associated cost for this project will be determined during Basis of Design (Phase 1)
- Will aide in pumping water to the flood side once Bayou Tigre flood gate is in the closed position

Project Features

- According to the Four Closures Structure study completed by Fenstermaker & Associates in 2013, an estimated capacity of 530 cfs is required to relieve upstream ponding due to the closure of the structures

Bayou Tigre – Flood Gate

Estimated Schedule

Task	Estimated Date
Field Data Collection	Ongoing
Phase 2 (Preliminary Design)	Fall 2015
Phase 3 (Final Design)	Spring 2016
Develop Bid Documents	Spring 2016
Flood Gate Construction	Spring 2016

Bayou Tigre – Pump Station

Estimated Schedule

Task	Estimated Date
Scope of Work Development	Ongoing
Pump Station Design Completion	Spring 2016

QUESTIONS

