

Chenier Ronquille Barrier Island Restoration Project (BA-76)



Coastal Protection and
Restoration Authority of Louisiana

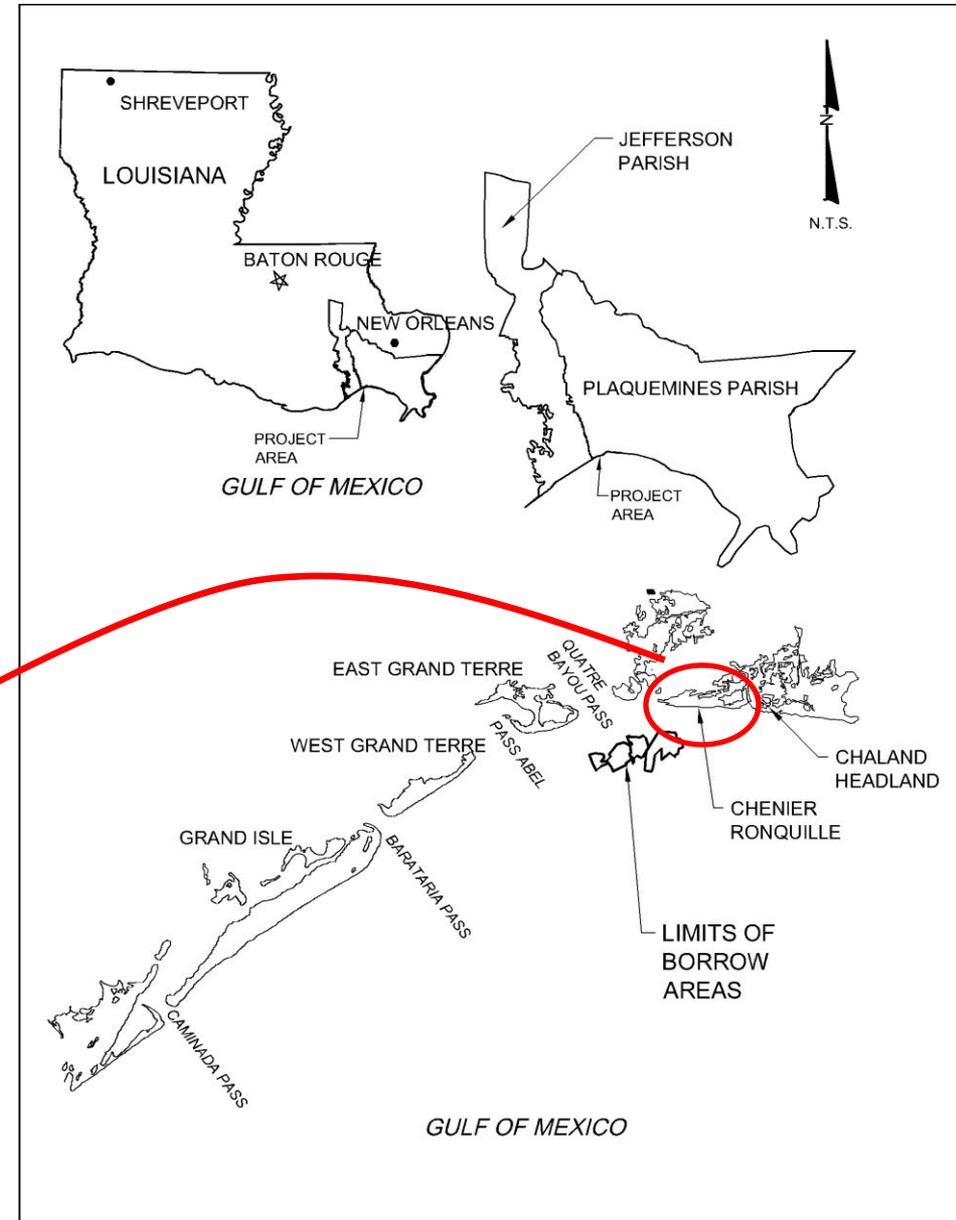
Kenneth Bahlinger
CPRA- Project Management Division
May 8, 2014



committed to our coast

Introduction

- Located in Plaquemines Parish
- CWPPRA Project (NOAA/NMFS) Authorized for Engineering and Design in 2010
- Designed by Coastal Planning and Engineering (CB&I)
- 95% Complete Design

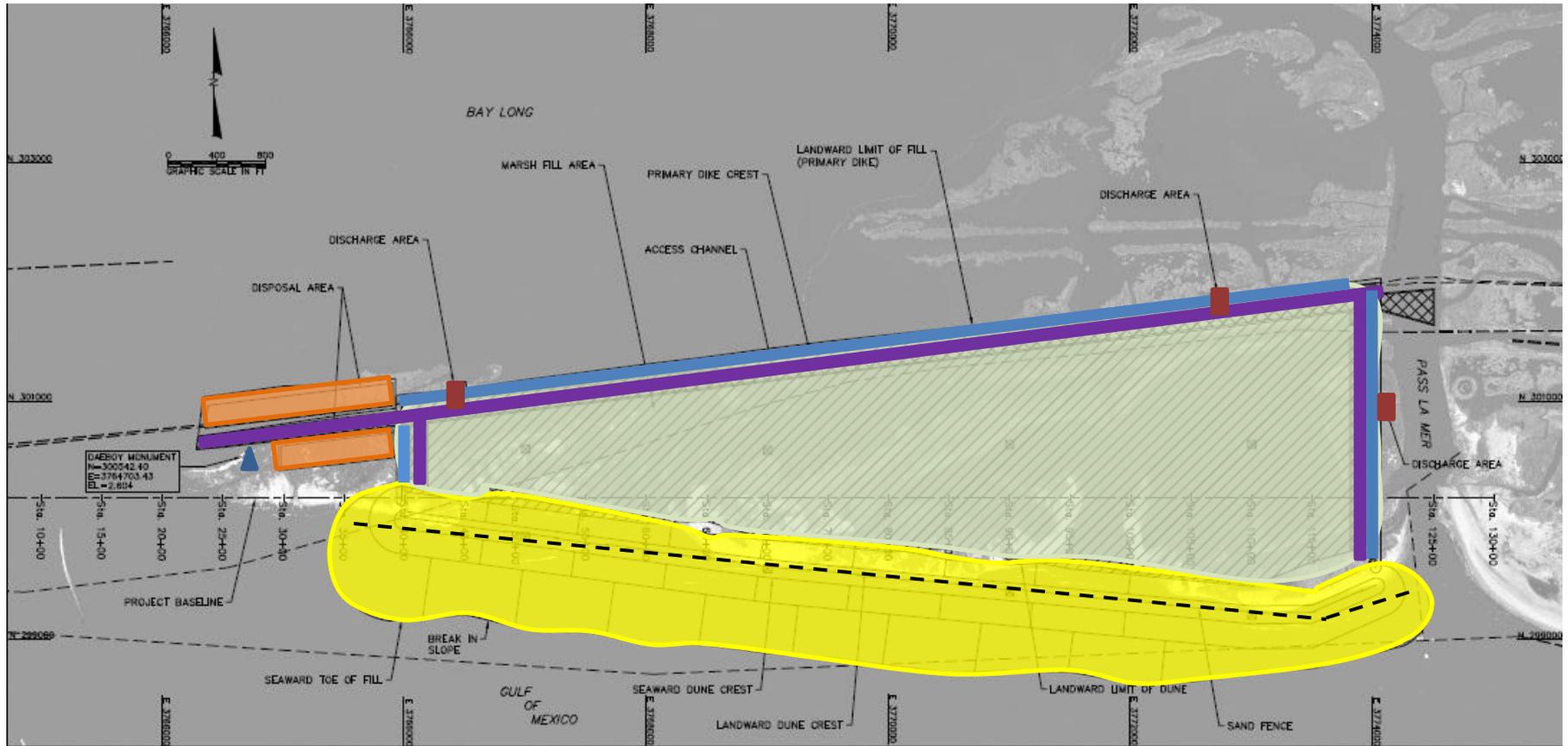


Project Background

- Shoreline erosion, interior wetland loss, overwash, and breakup.
- Eroding 38 ft/yr in 1988 to 2006
- Rate accelerated by storms in 2005 and 2008



Fill Area: Plan View



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

Estimated Bid Quantities

Project:	Chenier Ronquille Barrier Island Restoration	Date:	7-May-13
Computed by:	NOAA, CPE, CPRA		
Item No.	Work or Material	Quantity	Unit
1	Mob/Demobilization	1	LS
2	Beach Fill	1,611,002	CY
3	Marsh Fill	1,207,934	CY
4	Primary Dikes	11,000	LF
5	Settlement Plates	10	EA
6	Sand Fencing	8,800	LF
7	Pre-Construction Survey	1	LS
8	As-Built Survey	1	LS

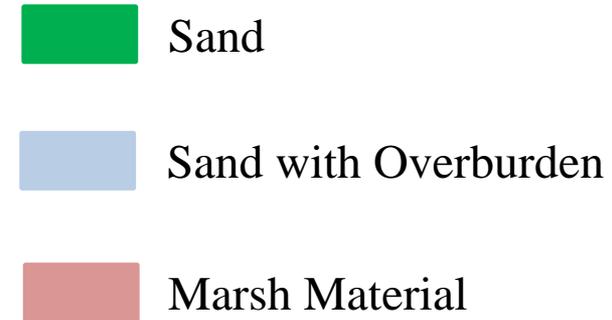
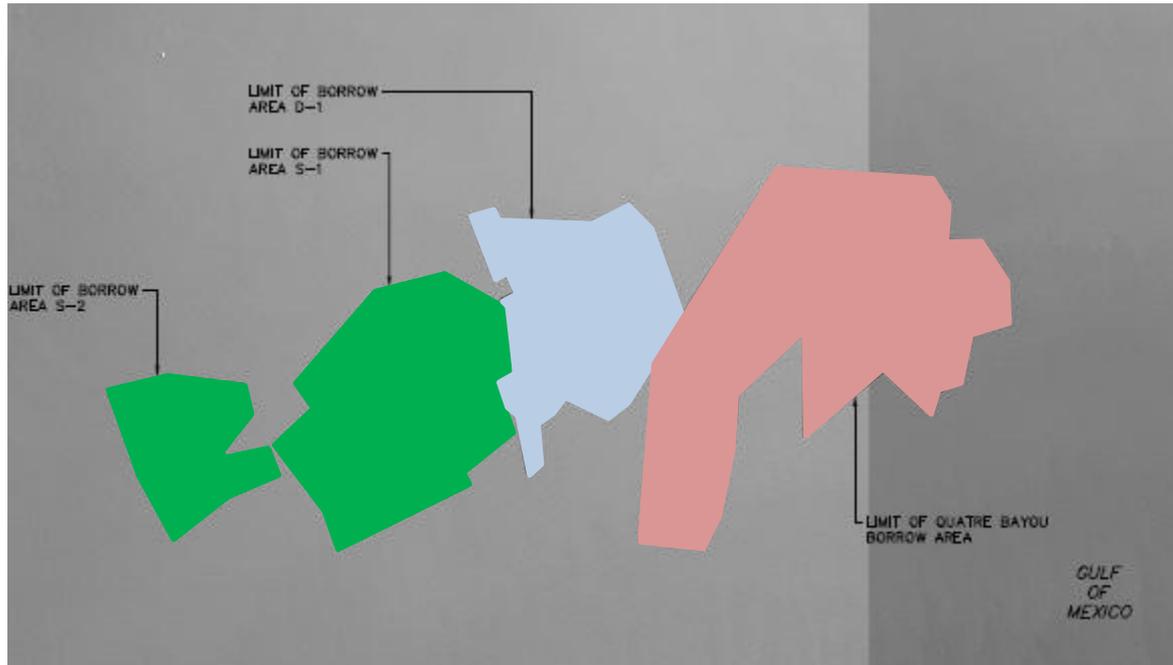
Pumping Distances

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



Borrow Area	Grain Size (mm)	Silt (%)	Beach Fill (MCY)	Marsh Fill (MCY)
S-1	0.11	15	1.65	-
S-2	0.11	17	.70	-
D-1	0.11	28	1.9	-
D-1	-	-	-	1.4
Quatre Bayou	-	-	-	5.09
Total			4.25	6.49

Borrow Areas: Plan View and Cross-Sections



S1 & S2:

-8 < Sand Cut < -16 ft. NAVD 88

D1:

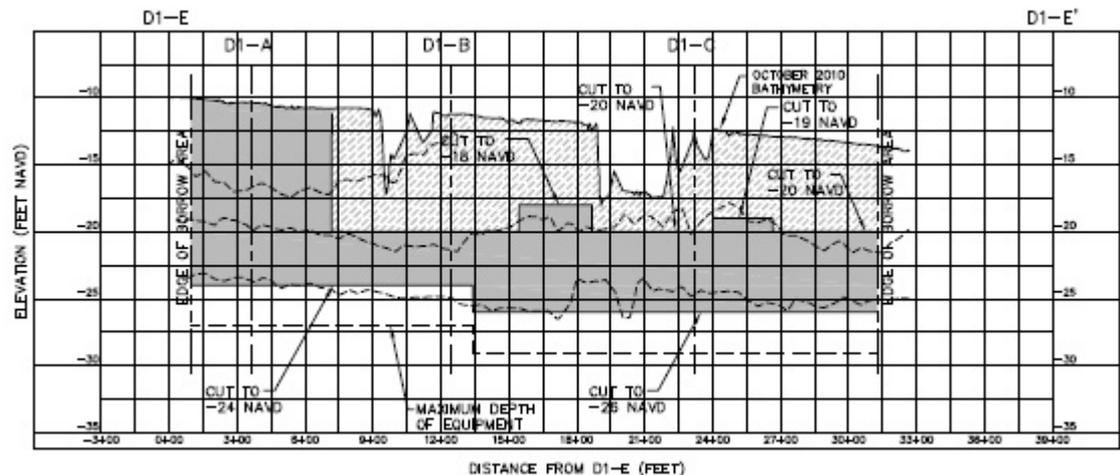
-18 < Sand Cut < -26 ft. NAVD 88

D1:

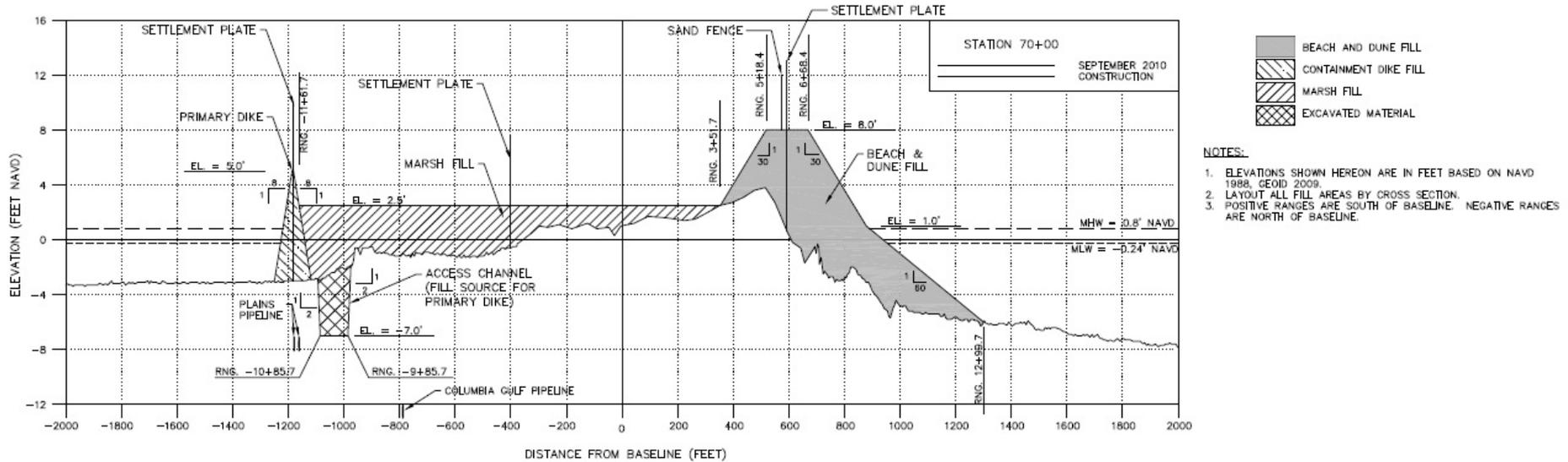
-10 < Marsh Cut < -18 ft. NAVD 88

Quatre Bayou:

-10 < Marsh Cut < -18 ft. NAVD 88

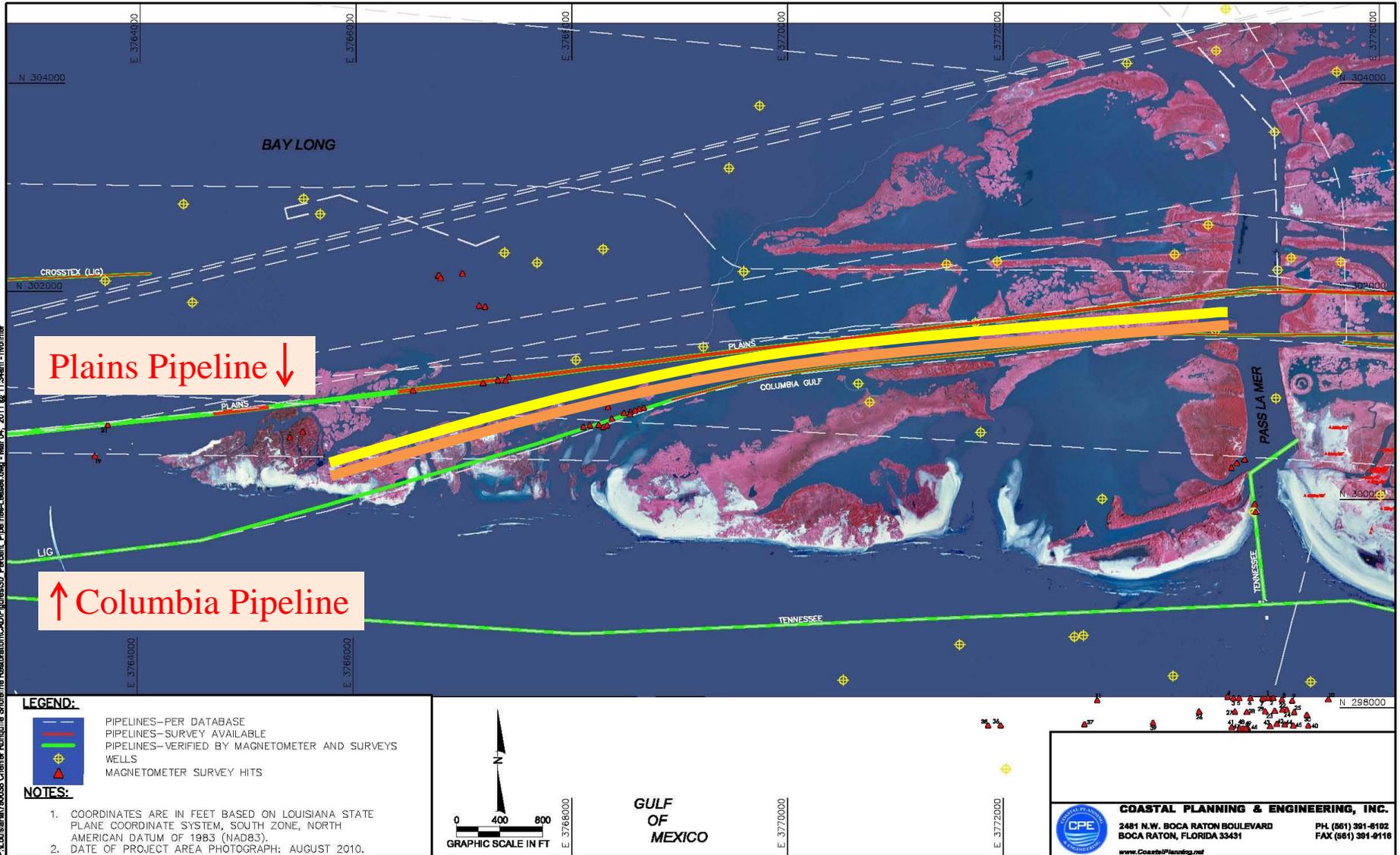


Fill Area: Cross-Sections



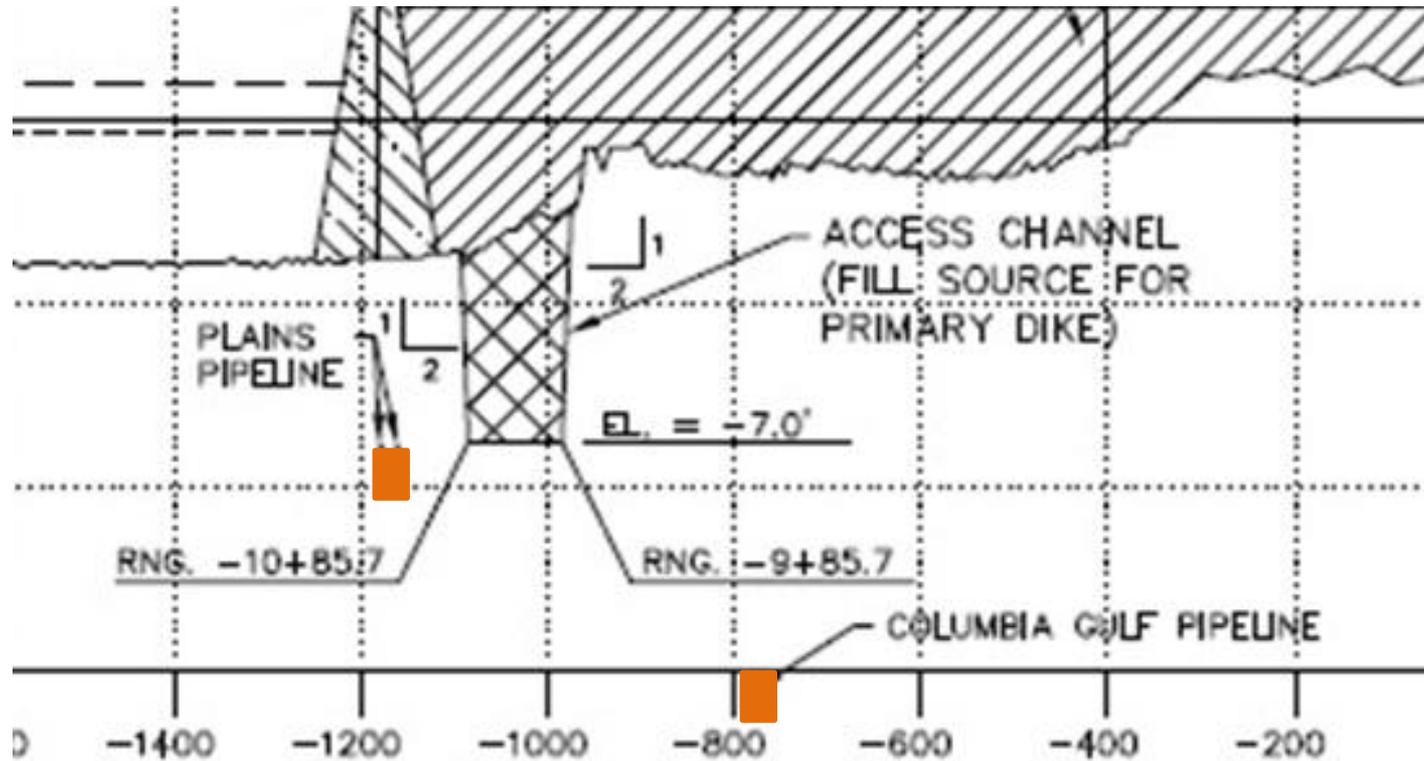
- Dune Height: +8.0 ft. NAVD88
- Marsh Fill Height: +2.5 ft. NAVD88
- Containment Dike Height: +5.0 ft. NAVD88
- Access Channel Depth: -7.0 ft. NAVD88

Special Conditions 1: Pipelines



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Fill Area: Access Dredging



Special Conditions 2: Endangered Species



SEA TURTLES



PIPING PLOVER



MIGRATORY BIRDS

Project Status

- DNR/OCM Consistency and USACOE Permit approved
- Land agreements to be completed
- Oyster leases to be surveyed, appraised, and acquired
- Did NOT receive CWPPRA Phase II construction funding
- Anticipated funding through NRDA
- NOAA/NMFS to bid for construction

QUESTIONS???