

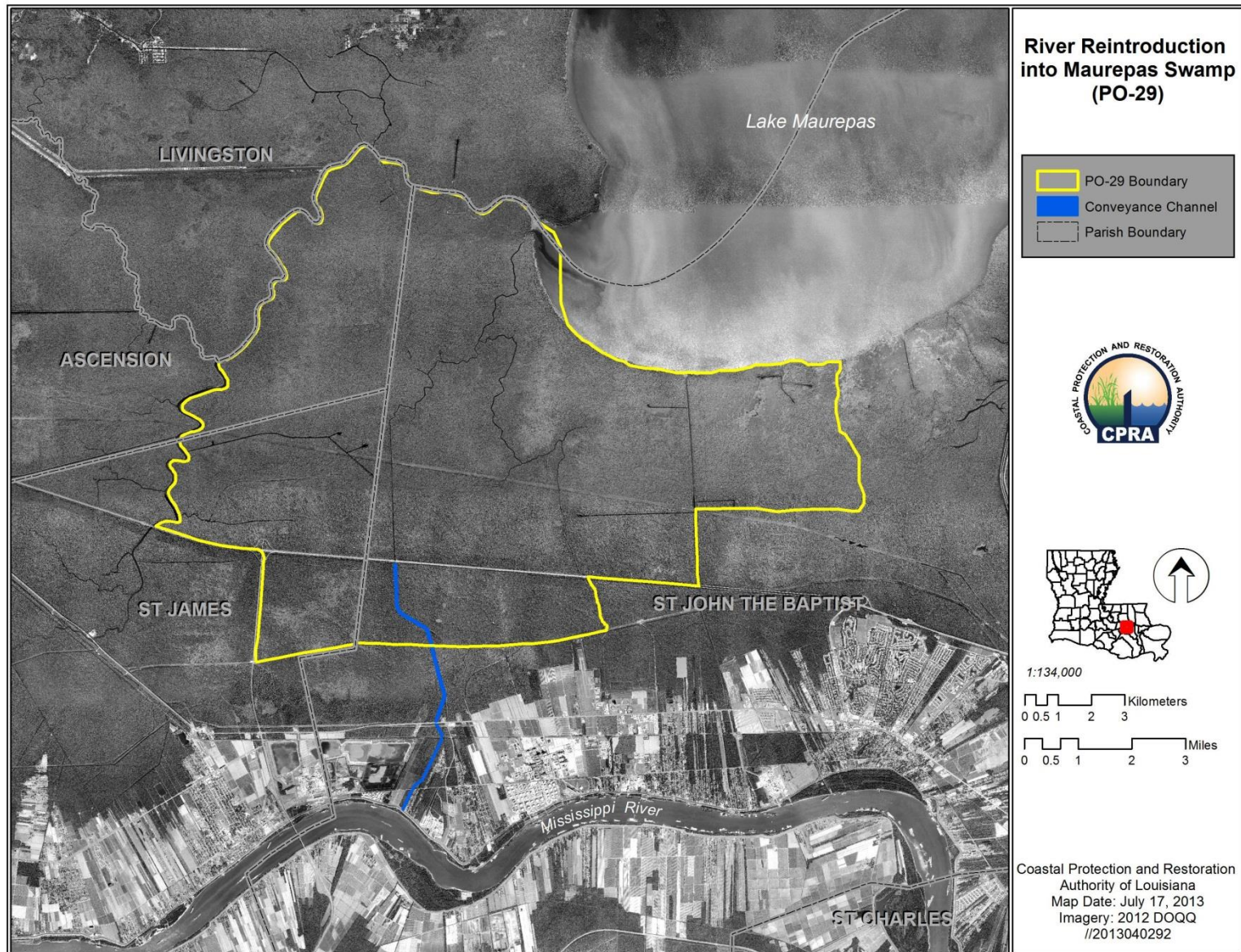


Project Status Update

Brad Miller
CPRA Project Management



PO-29 Project Area (45,000 acres)



Project Goal

Restore the connection between the Mississippi River and the Maurepas Swamp to increase swamp ecosystem health and function



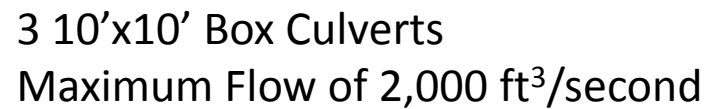
Project Origins

- Included in several restoration plans:
 - Louisiana Coastal Restoration Plan (1993)
 - Louisiana Coast 2050 Report (1998)
 - Mississippi River Sediment, Nutrient and Freshwater Reintroduction Study (1999)
- CWPPRA PPL 11 Project (EPA)- Authorized 2001
- LCA Plan (2004)- Authorized in WRDA 2007 (Hope Canal)
- 2012, 2017 Coastal Master Plans (001.DI.21)
- 2017 Project Receives RESTORE Pot 2 Funds

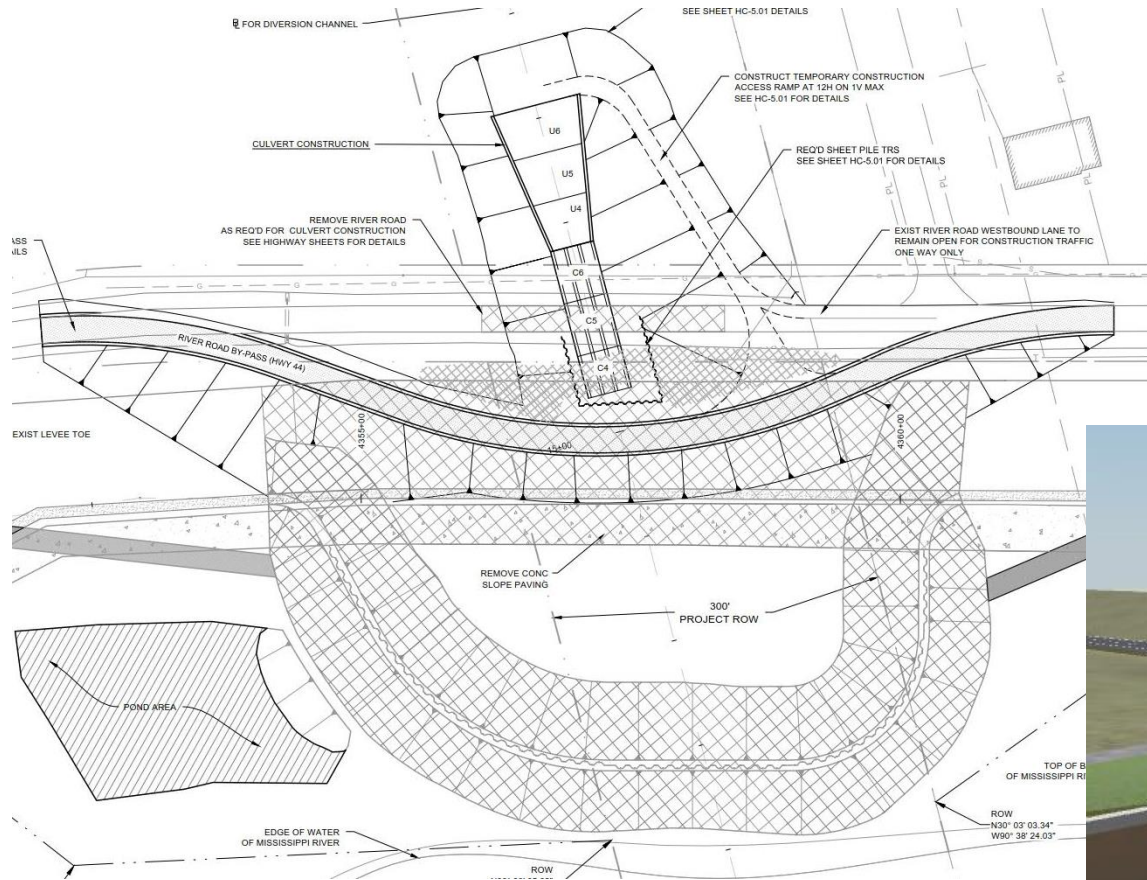
Main Project Features



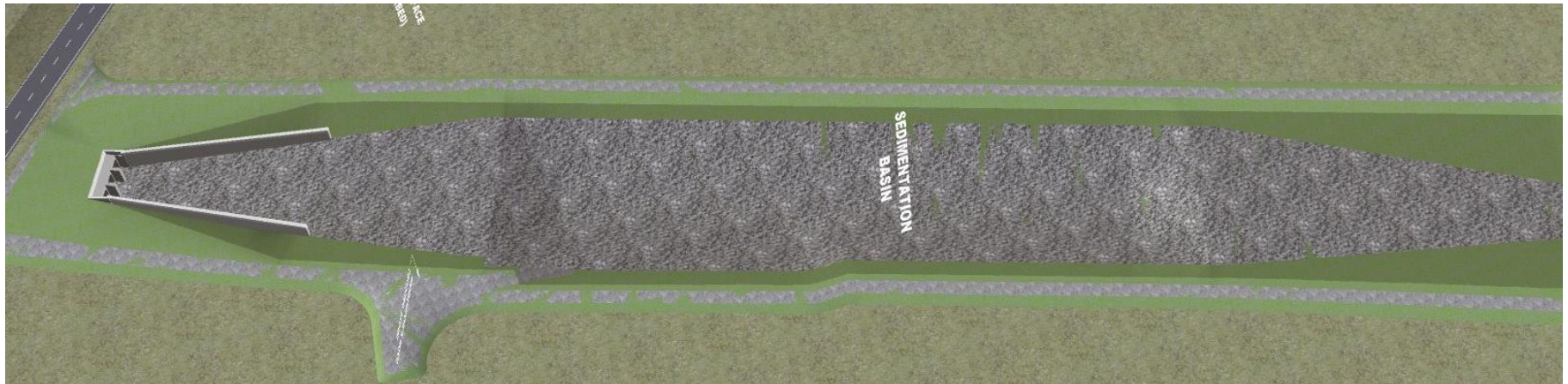
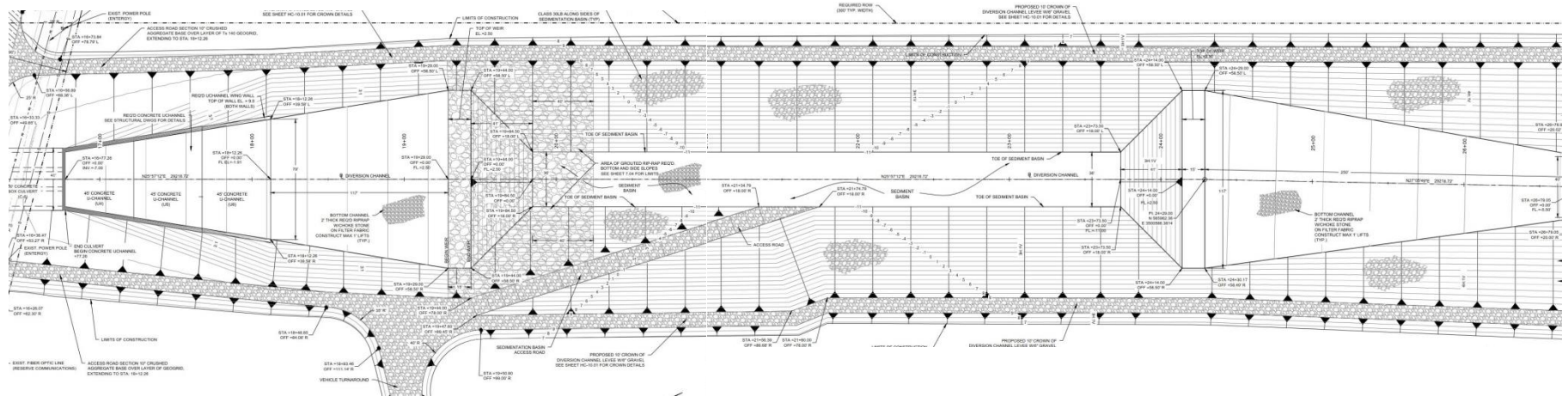
- Mississippi River Intake
- Headworks
- River Road Crossing
- Sedimentation Basin
- CN RR Crossing
- Conveyance Channel
- KCS Railroad
- Airline Highway Crossing
- I-10 Crossing
- Ancillary Features:
 - Lateral Release Valves
 - Check Valves Under I-10
 - Weirs At Bayou Secret & Bourgeois Canal
 - RR Embankment Cuts

[illegible]

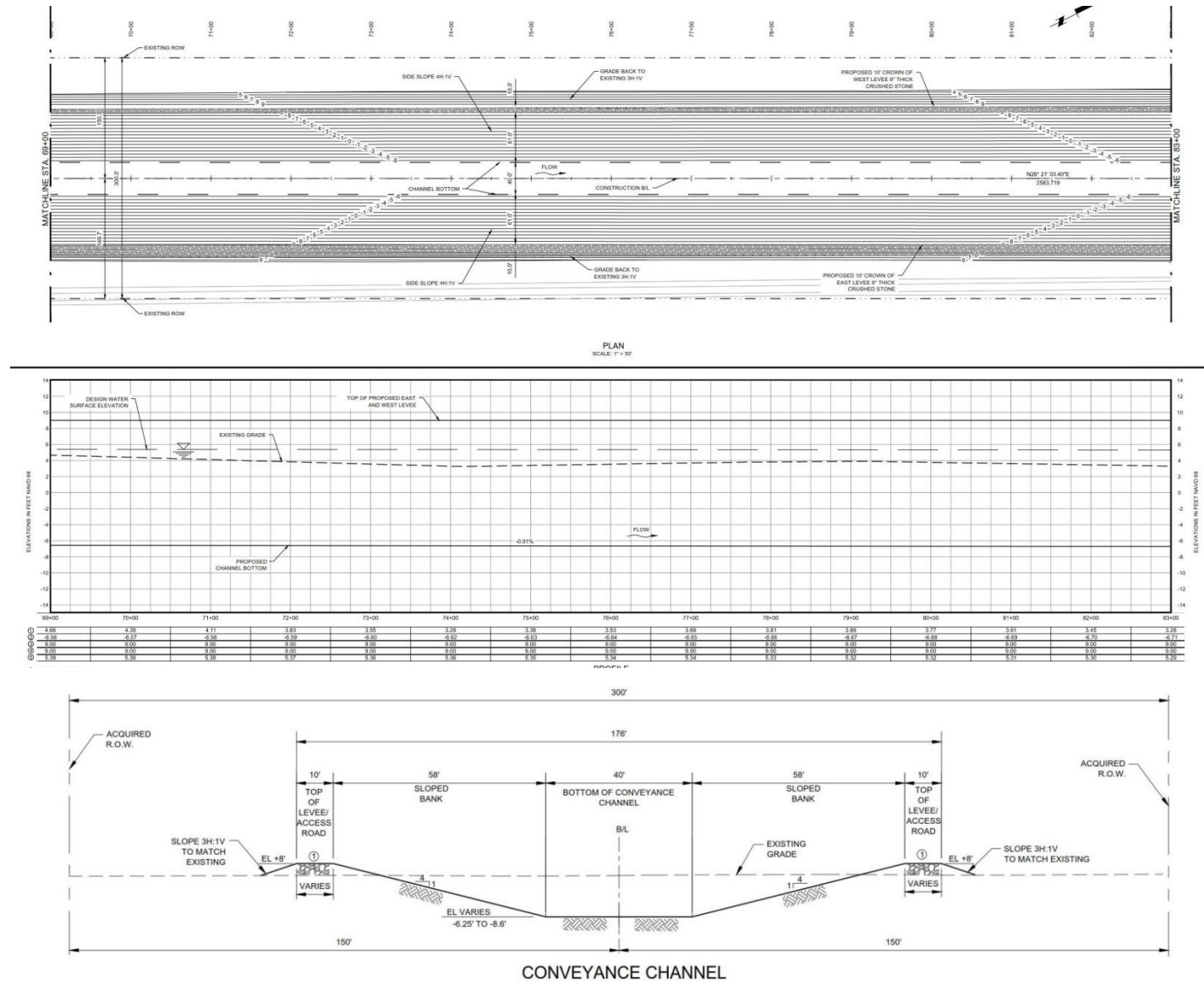
Main Project Features: River Road Crossing



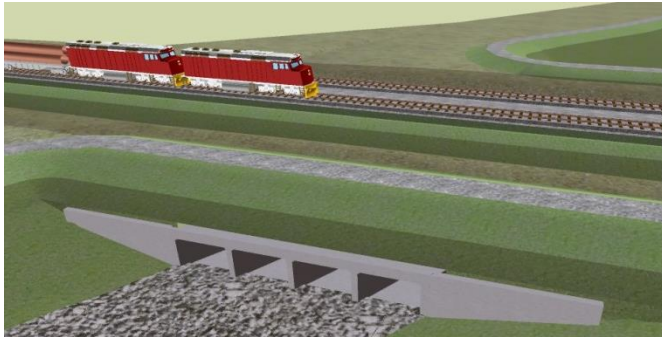
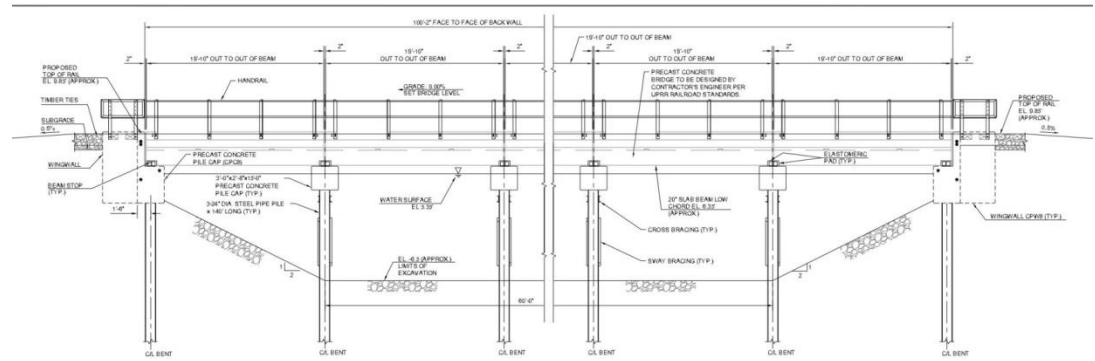
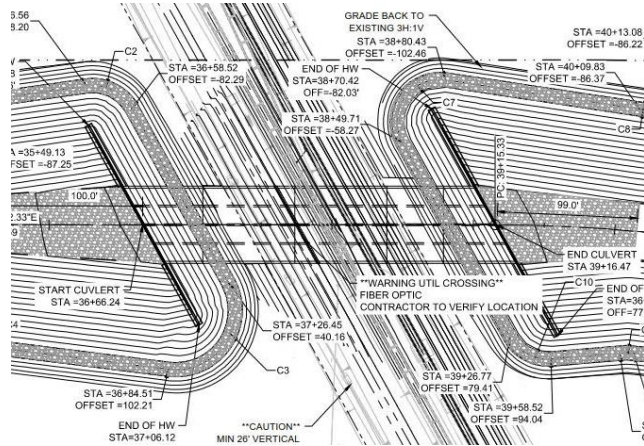
Main Project Features: Sedimentation Basin



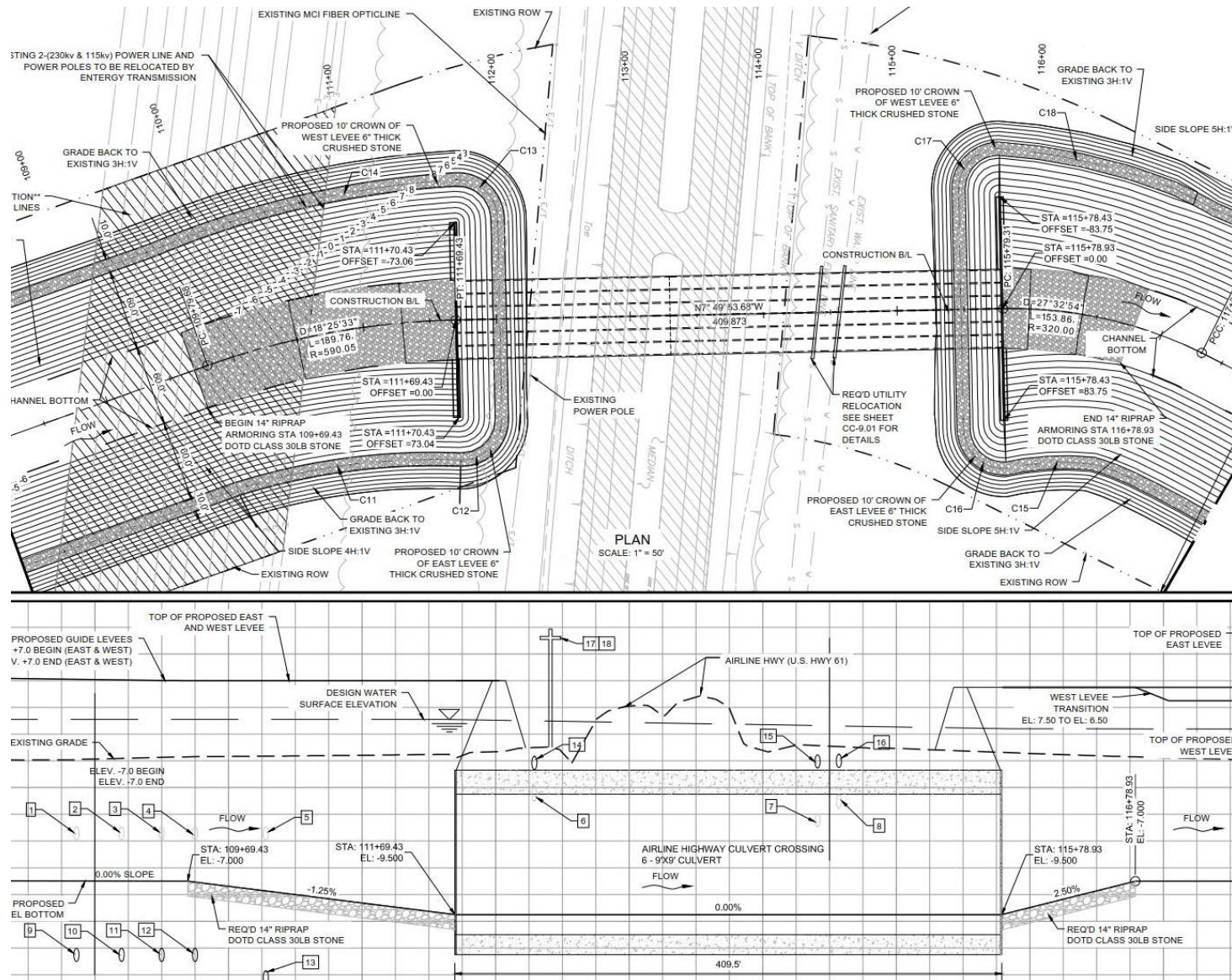
Main Project Features: Conveyance Channel



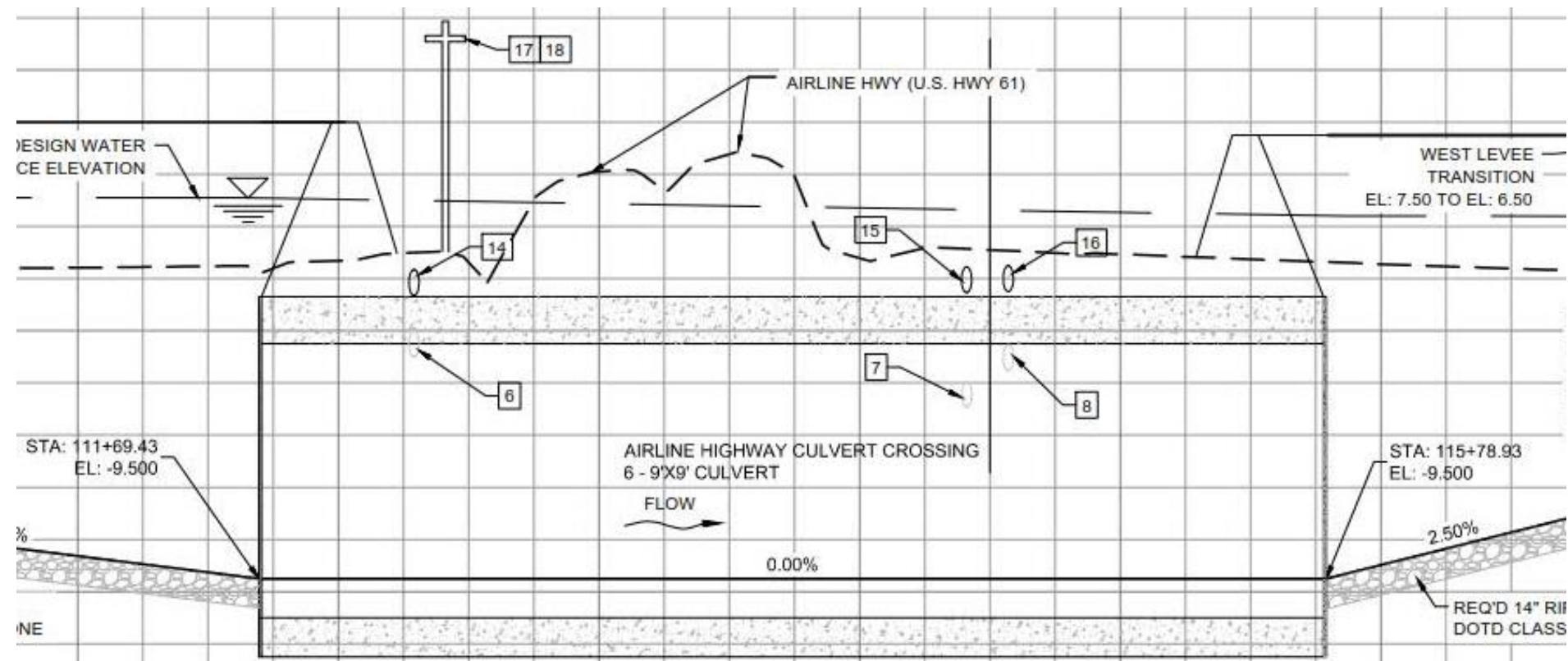
Main Project Features: RR Crossings



Main Project Features: Airline Hwy Crossing

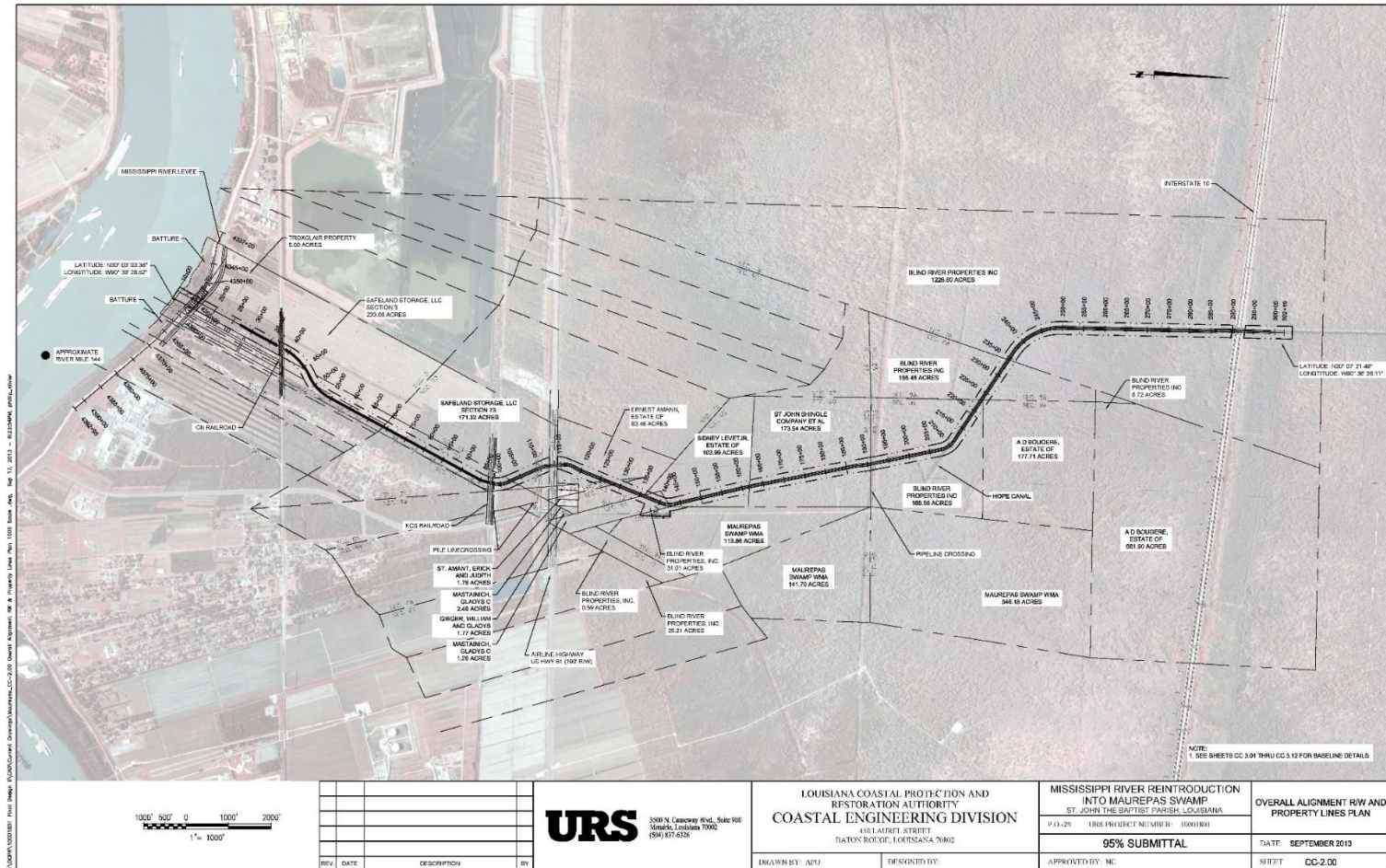


Main Project Features: Airline Hwy Crossing

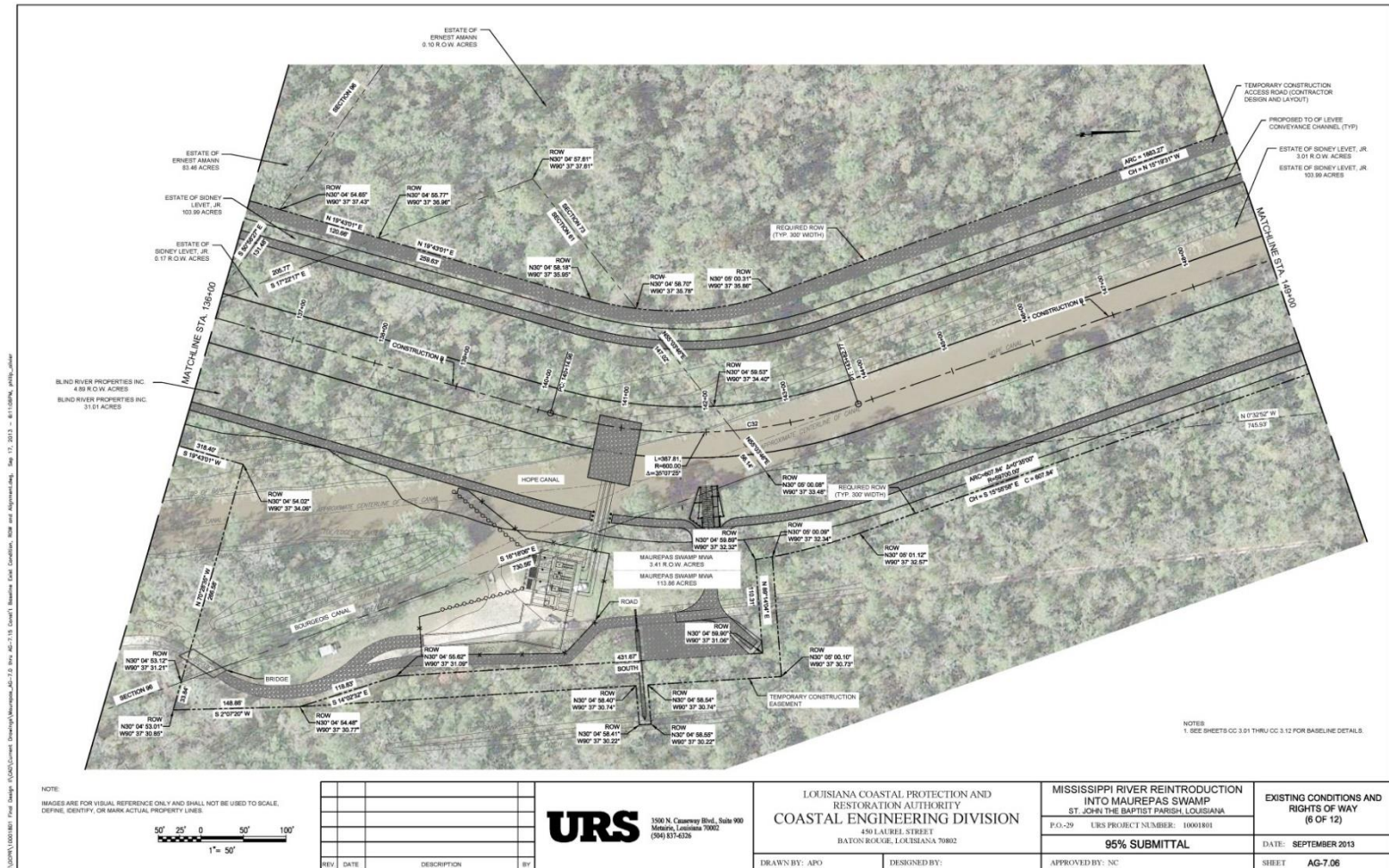


Water flow on drainage ditches paralleling Airline Hwy is maintained

Main Project Features: Pump Station



Main Project Features: Pump Station



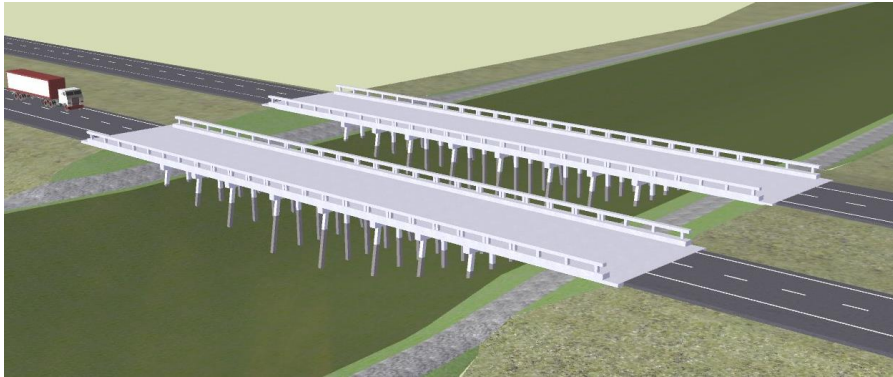
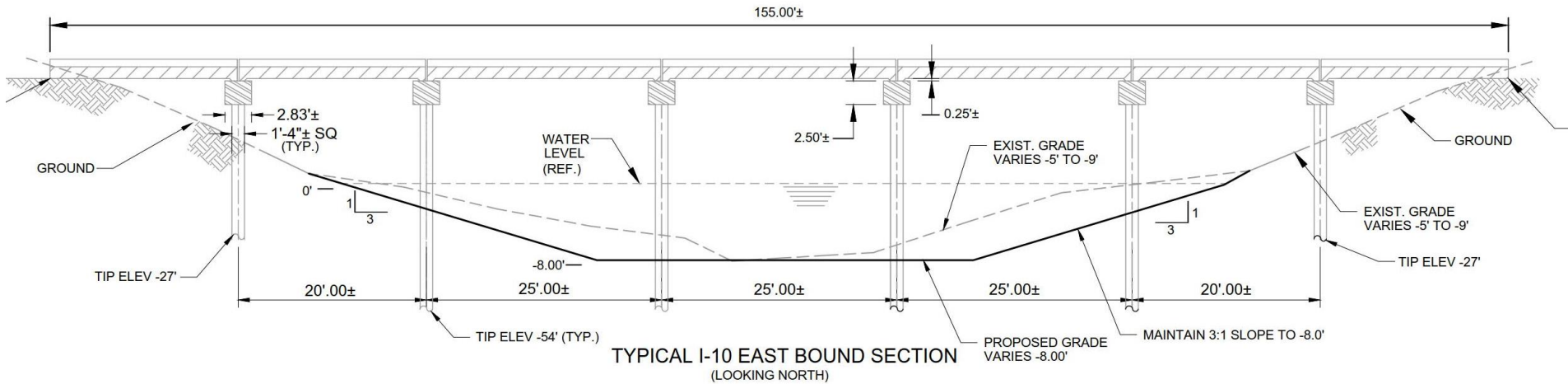
250 CFS Capacity
3 125 CFS Pumps

Coastal Protection and Restoration
Authority

Main Project Features: Pump Station



Main Project Features: I-10 Crossing

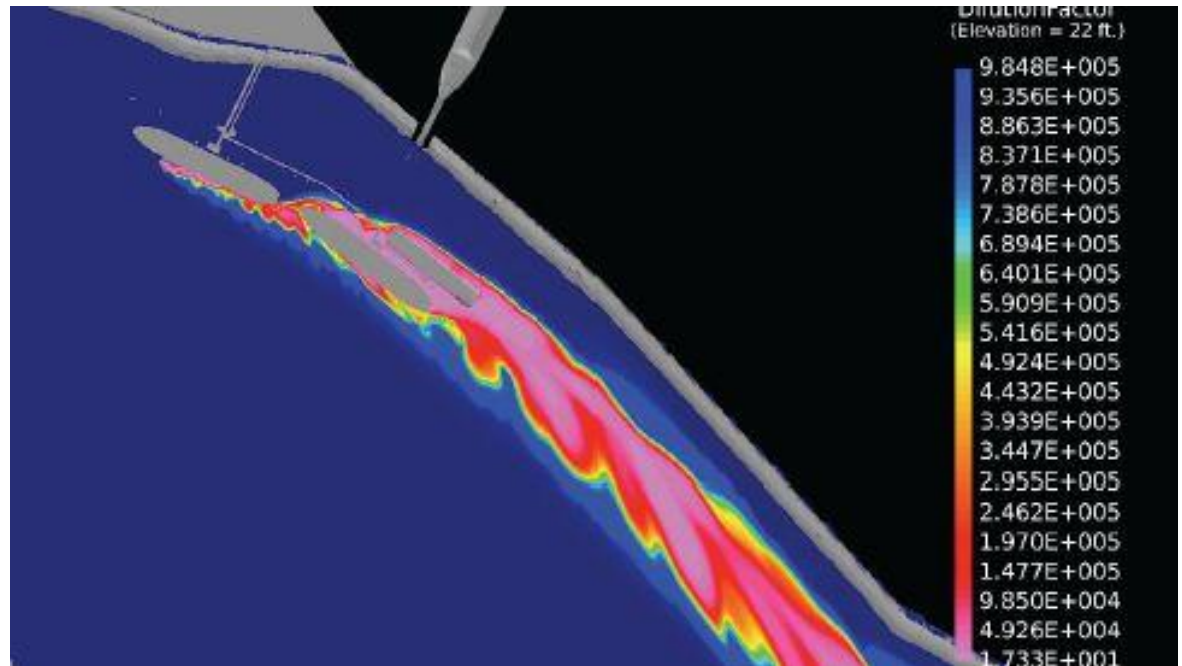


Implementation Progress to Date

- CWPPRA Phase 0 Study (2001)
 - Site Evaluation
 - Size Evaluation
 - Drainage/Water Quality Issues
- Modeling Report (2007)
 - Secondary Benchmark
 - Topographic and Bathymetric Survey
 - Hydrologic Data Collection
 - 1D SWMM Model Study
 - ADCIRC 2D Hydrodynamic Model
- 30% Design Report (2008)
- 95% Design Report (2014)

Implementation Progress to Date (cont'd)

- Simulation of Flow near Proposed Dock Facility (2015, 2017)
 - Analyzed impacts of potential spills in river
 - Unlikely that spills from Pin Oak dock would enter diversion
 - Infrastructure from Dock 2 may decrease velocities and cause sediment deposition in front of intake, but will not affect discharge.
 - New MOU language requires Pin Oak to mitigate for any sedimentation



Moving Forward/Next Steps

- Landrights
- Permitting
- Operations, Maintenance, Monitoring, Adaptive Management (OMM&AM)
- Final Design

Landrights, Permitting, OMMAM, Final Design

- Title updated through May 2015
- Title will need to be brought up to date
- Some access routes have changed, additional title work will be needed
- Acquisition tracts will need to be surveyed and appraised
- Proceed with making offers to owners



Landrights, **Permitting**, OMMAM, Final Design

- Joint Permit Application Spring 2013
- Joint Public Notice August 2013
- USACE determined EIS required May 2014
 - NOI published October 2014
- CPRA re-engaged USACE in Fall 2017

Landrights, Permitting, **OMMAM**, Final Design

- Established Maurepas Technical Advisory Group (TAG) in 2015
 - Provides recommendations for developing Operations, Maintenance, Monitoring, and Adaptive Management (OMM&AM) plan
 - Assists in developing targets for ecological success of the project (Hydrology, Forest Structure Integrity, Salinity, Soil surface elevation, and Nutrients)
 - Assists in addressing remaining scientific uncertainties

Landrights, Permitting, OMMAM, **Final Design**

- H&H model to incorporate landscape changes
- Finalization of main project feature design
- LDOTD permit (US 61), USACE Section 404/408/10 comments
- Pipeline/Parish/Landowner coordination
- Real Estate and ROW drawing updates
- Survey updates
- Supplementary soil sampling
- Possible re-design to accommodate WSLP project
- Final Plans and Specs

Project Schedule

- September 2017: Received RESTORE Funding
- 2017-2020: Permitting, Landrights, Final Design, Pre-construction Monitoring and Modeling
- Construction (if funding secured) ~ 4 years
- Post-construction and beyond: implementation of OMM&AM plan

FAQs

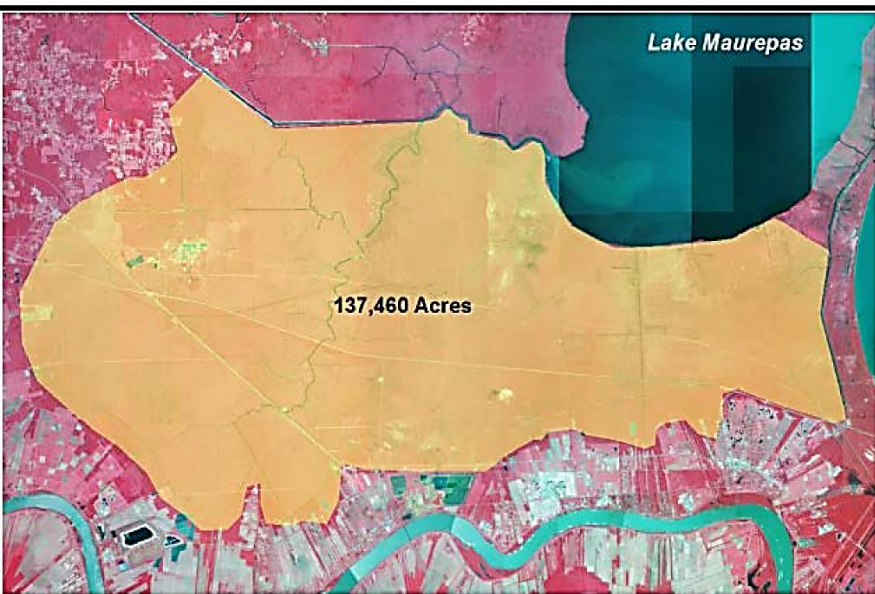
Q. How will the Diversion Impact Local Drainage?

A. Local Drainage will not be negatively impacted.



FAQs

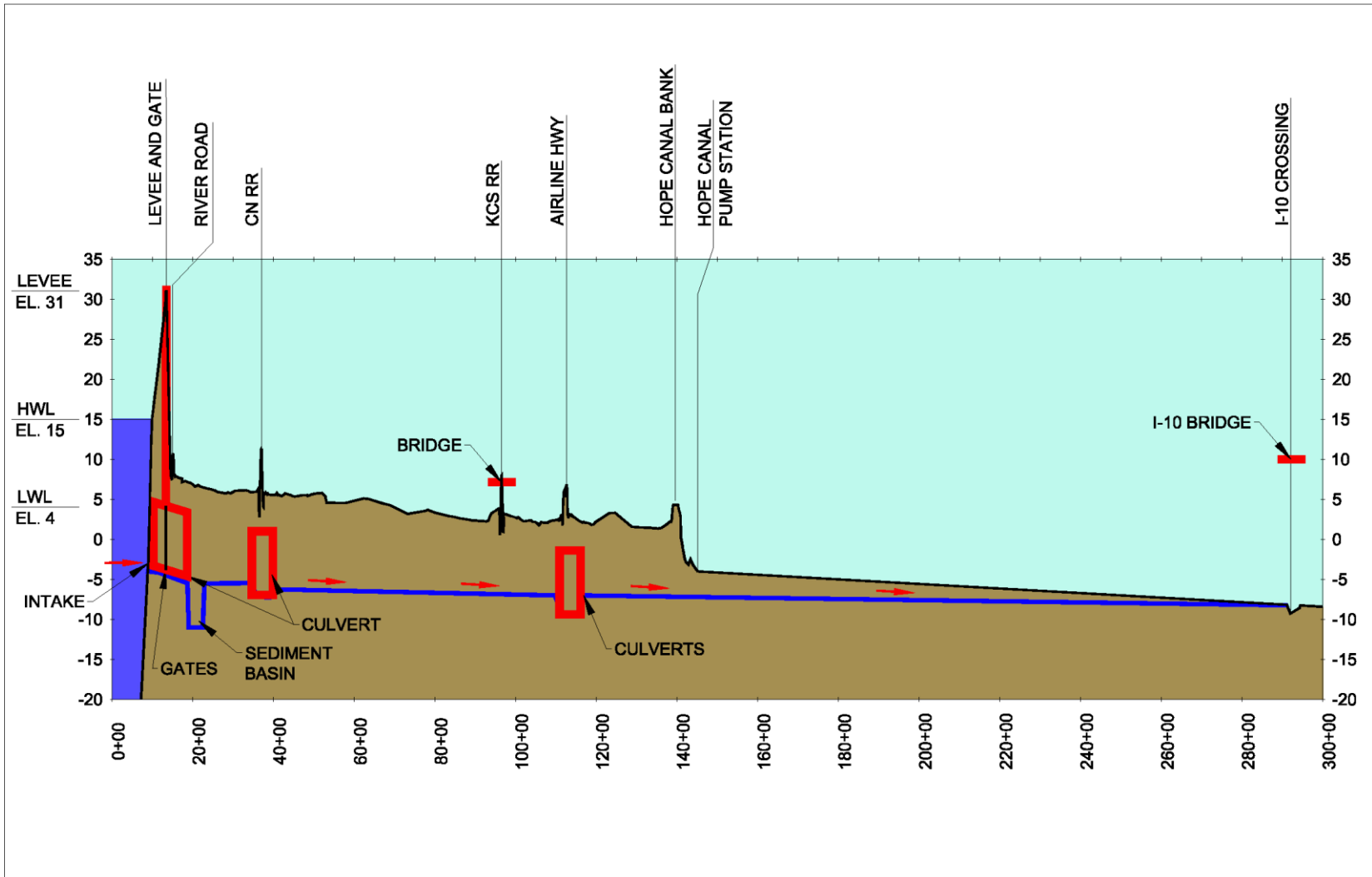
- If the Garyville Reserve area floods can the structure drain flood waters?



Flow Rate (cfs)	Days Required to Drain		
	Drain Entire Basin	Lower Water Level 1-ft	Lower Water Level 0.5-ft
100	3,465	693	347
500	693	139	69
1,000	347	69	35
1,500	231	46	23
2,000	173	35	17
4,000	87	17	9
10,000	35	7	3

FAQs

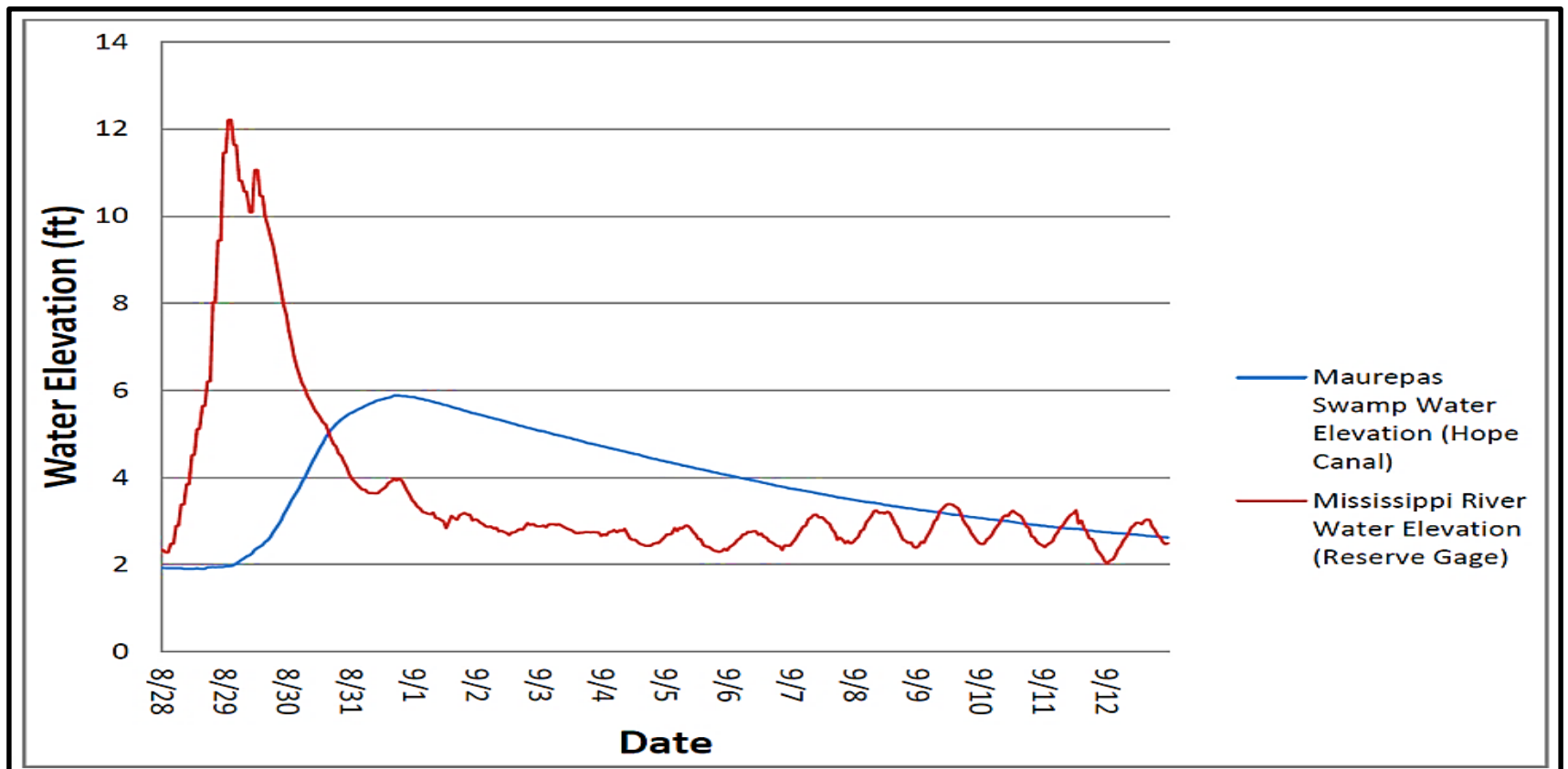
- If the Garyville Reserve area floods can the structure drain flood waters?



FAQs

- If the Garyville Reserve area floods can the structure drain flood waters?

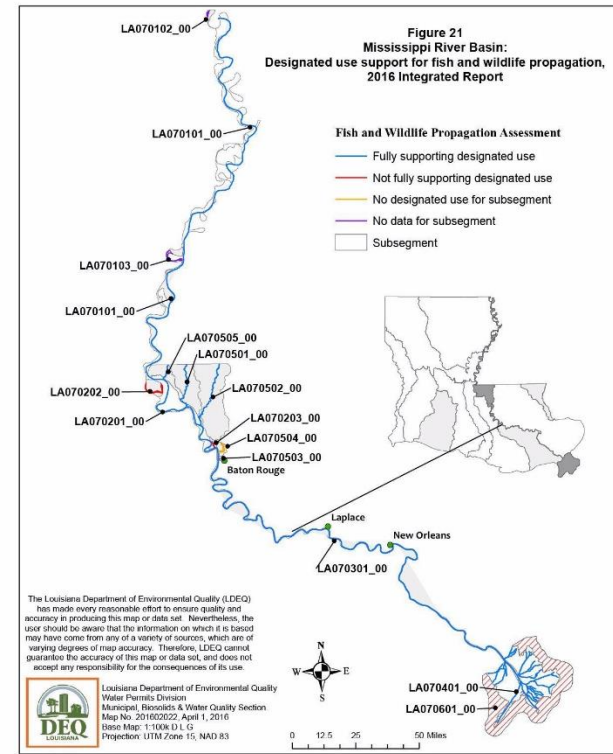
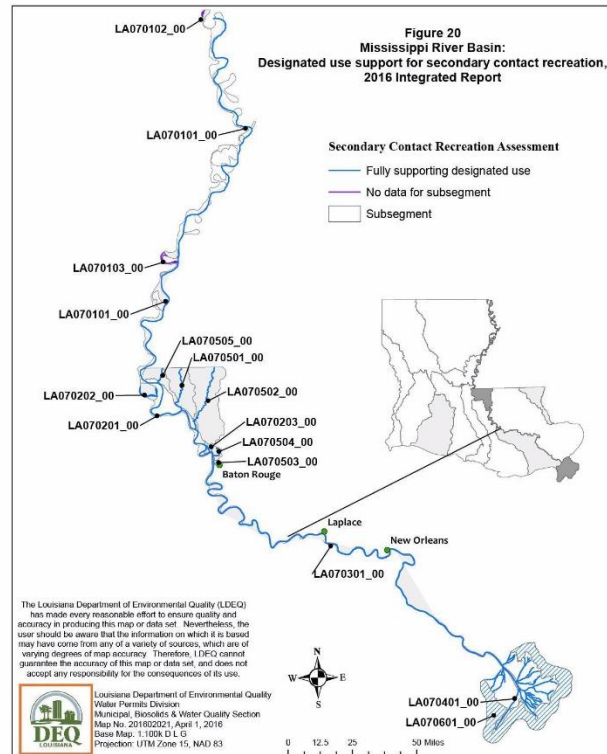
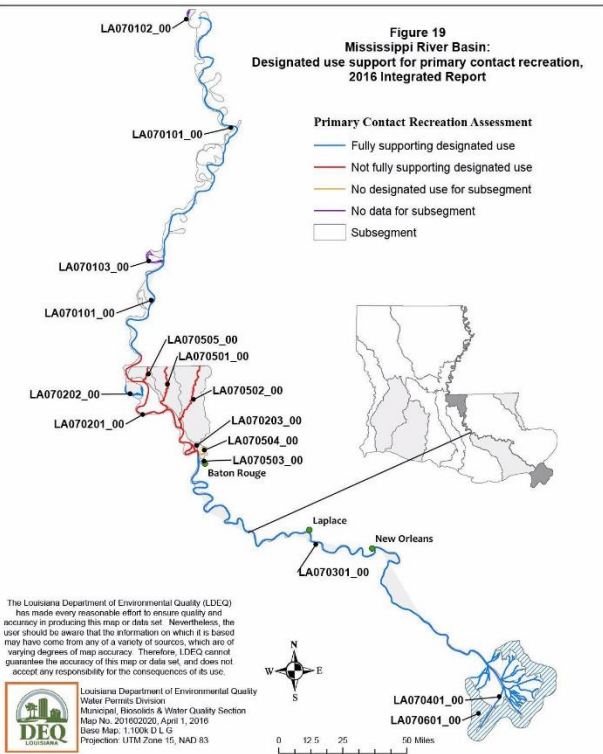
*Swamp & River Water Levels
During Hurricane Isaac*



FAQs

Q. Is Mississippi River water safe to put into the Swamp?

A. The LDEQ has not identified this section of river as impaired for primary contact, secondary contact, or fish and wildlife propagation.






FAQs

Q. Isn't the West Shore Lake Pontchartrain Hurricane Protection Levee Project in the same area? Can the two projects coexist?

A. Yes, with coordination the projects can coexist.

LEGEND:

-  PROPOSED USACE LEVEE
-  DIVERSION CHANNEL
-  CPRA GUIDE LEVEE



Mississippi River Reintroduction into Maurepas Swamp

Questions?





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