



**US Army Corps
of Engineers®**



U.S. Army Corps of Engineers

City Council Meeting

6 August 2009

"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers®

Agenda



- HSDRRS Construction / Funding Update
- MRGO Closure
- IHNC Update
- Orleans Parish Recent / Upcoming Awards
- St. Bernard Parish Update
- Permanent Pumps / Outfall Canals
- SELA Update

"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers®



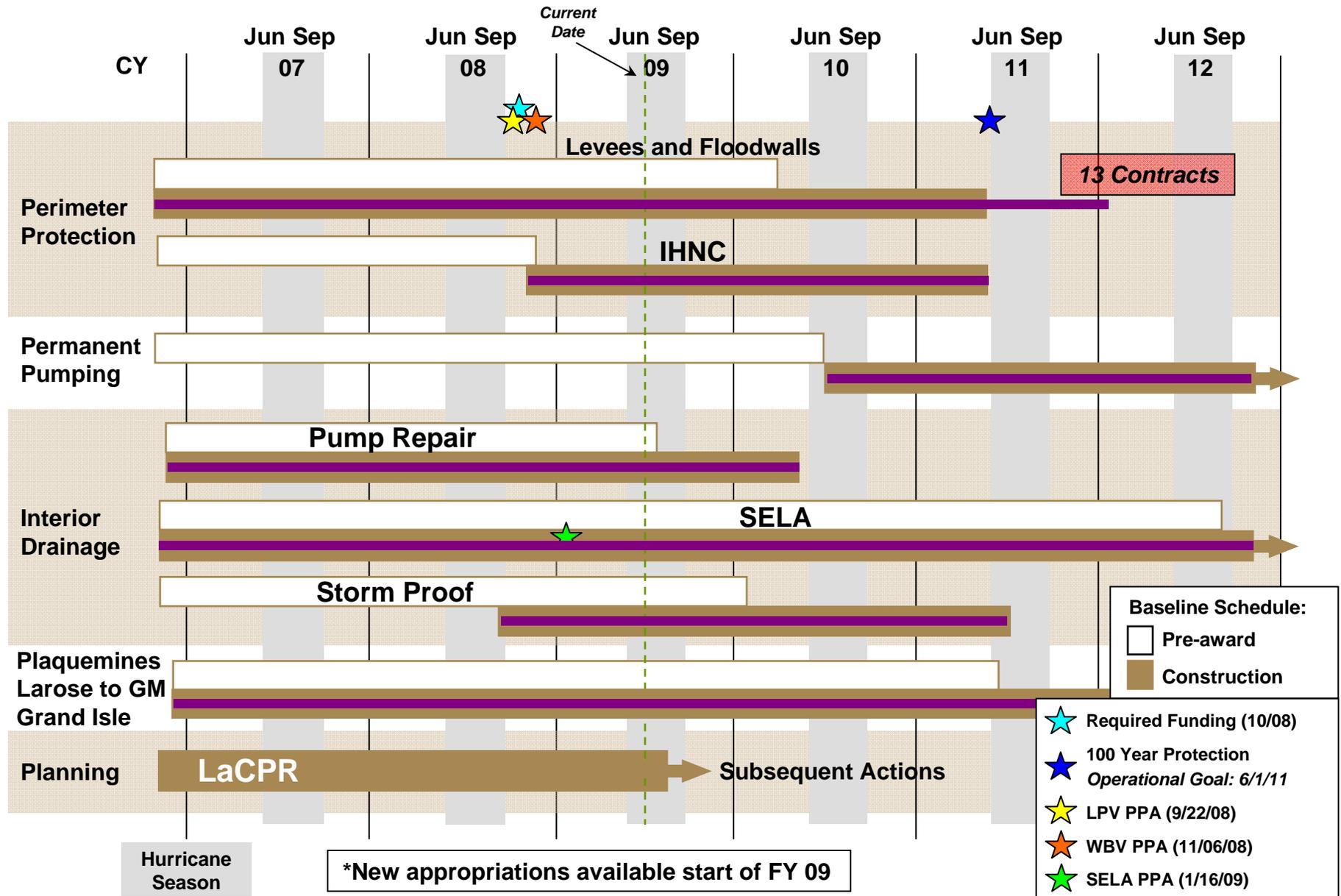
HSDRRS Construction Contract Summary		
	Overall	100-yr
Total contracts	353	110
Awarded	198	36
Complete	154	17
Remaining	159	74

HSDRRS Funding Summary	
Committed	\$6.06 B
Obligated	\$5.47 B
Expended	\$3.11 B

As of 4 Aug 2009

"Disciplined People, Disciplined Thought, Disciplined Action"

Current System Programmatic Schedule



"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers®

Contracts Projected Past 1 June 2011



<u>Contract</u>	<u>100-yr Date</u>
WBV-12 Hero Canal Reach 1, 2nd Enlgt	6-Jun-11
LPV-03.2B West Return Floodwall (Northern Segment) - Phase 2	18-Jun-11
WBV-37 Ames / Mt. Kennedy Pump Stations	20-Jun-11
WBV-16b Segnette PS Fronting Protection & Modifications	25-Jun-11
LPV-146 Chalmette Loop Levee - Bayou Dupre to Hwy 46	16-Jul-11
LPV-03.2A West Return Floodwall (Southern Segment) - Phase 2	16-Jul-11
LPV-106.01 Foreshore Protection in front of 106-108	29-Jul-11*
LPV-145 Chalmette Loop Levee - Bayou Bienvenue to Bayou Dupre.	23-Aug-11
LPV-148.02 Chalmette Loop Levee Hwy 46 to River	7-Sep-11
WBV-16.2 Bayou Segnette Complex	12-Sep-11
LPV-111.01 NOE Back Levee - CSX RR to Michoud Canal	27-Sep-11
LPV-109.02a NOE Levee - South Point to CSX RR	21-Dec-11
LPV-17.2 Bridge abutment and FW Tie-ins at Causeway Bridge -Ph 2	9-Feb-12*

*** Schedule above assumed Formal Environmental Consultation – schedule update pending**

“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers

Mississippi River Gulf Outlet



***MRGO Closure
completed on 9 July!***



Mississippi River Gulf Outlet Closure

Image #907026034
Date :07.02.2009
Photo 888.542.0231

"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers®

IHNC West Wall Deep Soil Mixing



(100% complete)

"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers®

IHNC East Wall Relief Wells



(75% complete)

"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers

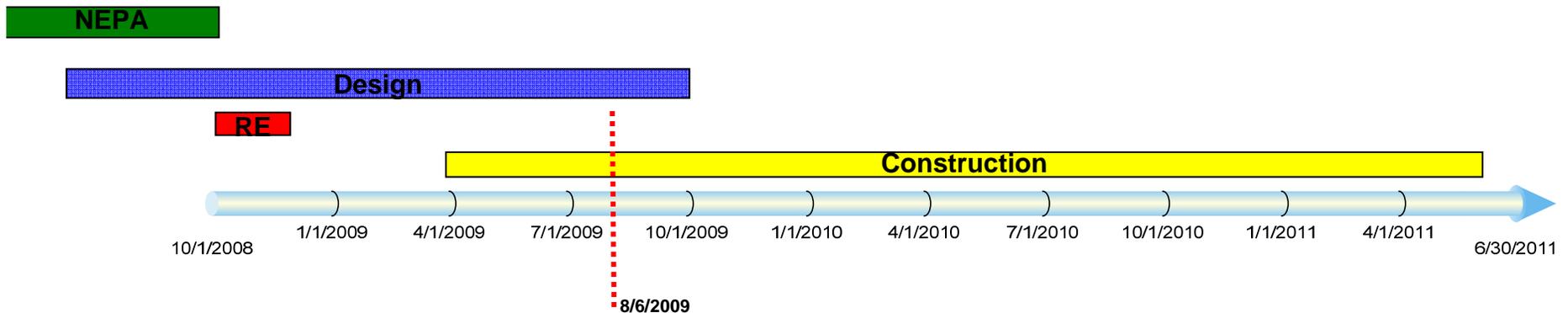
IHNC – 02 Lake Borgne



Proposed Action: Construct a surge barrier with a 1.5 miles (10,000 feet) of floodwall / gate system extending from the east of Michoud Canal to the Chalmette Loop Levee just south of Bayou Bienvenue.

Current Status: Four and a half months spent assuring navigational safety and meeting NEPA requirements. **Over half of the base structure will be in place by peak of hurricane season;** main elements of wall construction are on or ahead of projected construction rates; **MRGO fill operation will be complete by 13 August,** ahead of schedule; pile driving for 66” spun cast piles, closure piles, batter piles, and foundation piles are exceeding expected driving rates, all **working 24/7** with one or two headings.

Schedule:



“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers®

Spun Cast Piles



These piles are 66" in diameter and are being used to construct the IHNC Lake Borgne Surge Barrier

"Disciplined People, Disciplined Thought, Disciplined Action"

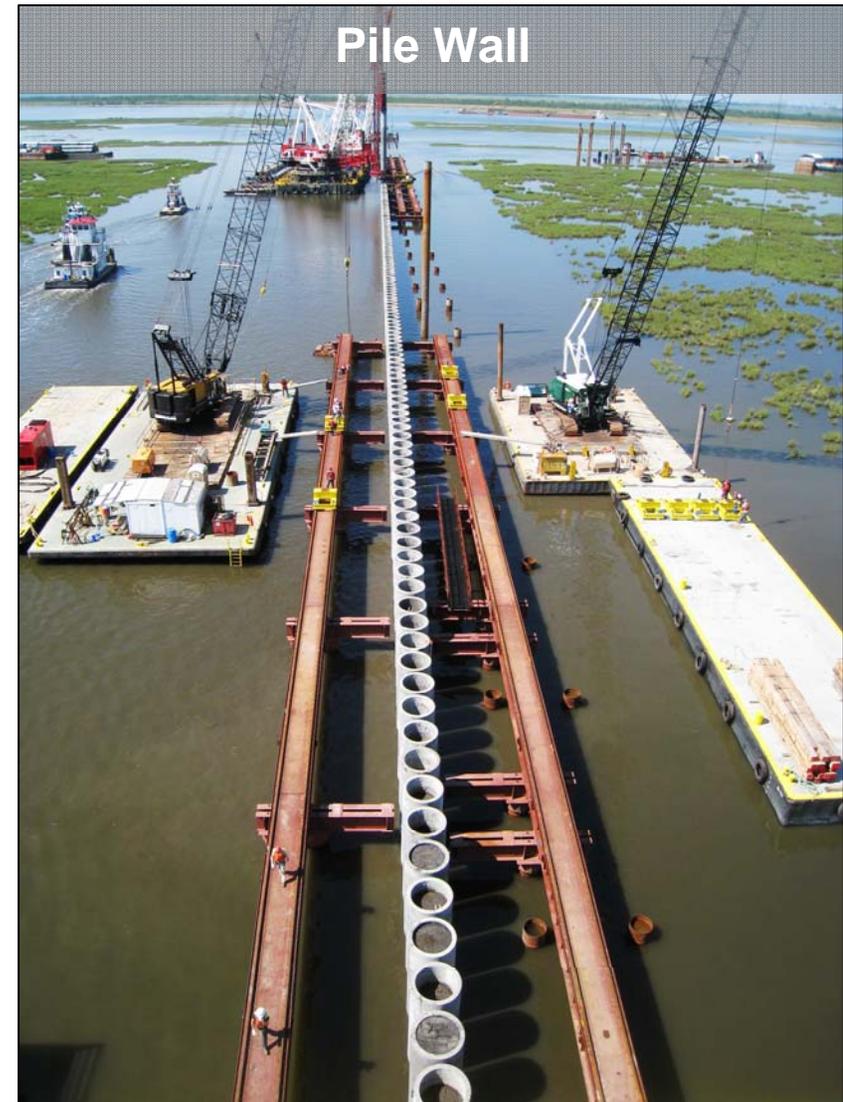


US Army Corps
of Engineers

IHNC Pile Driving



- 724 / 1274 piles driven (57%) 66" piles cumulative driven on the North and South Floodwall Headings
- 416 / 2548 (16%) closure piles driven



"Disciplined People, Disciplined Thought, Disciplined Action"



**US Army Corps
of Engineers**



"Disciplined People, Disciplined Thought, Disciplined Action"



**US Army Corps
of Engineers**

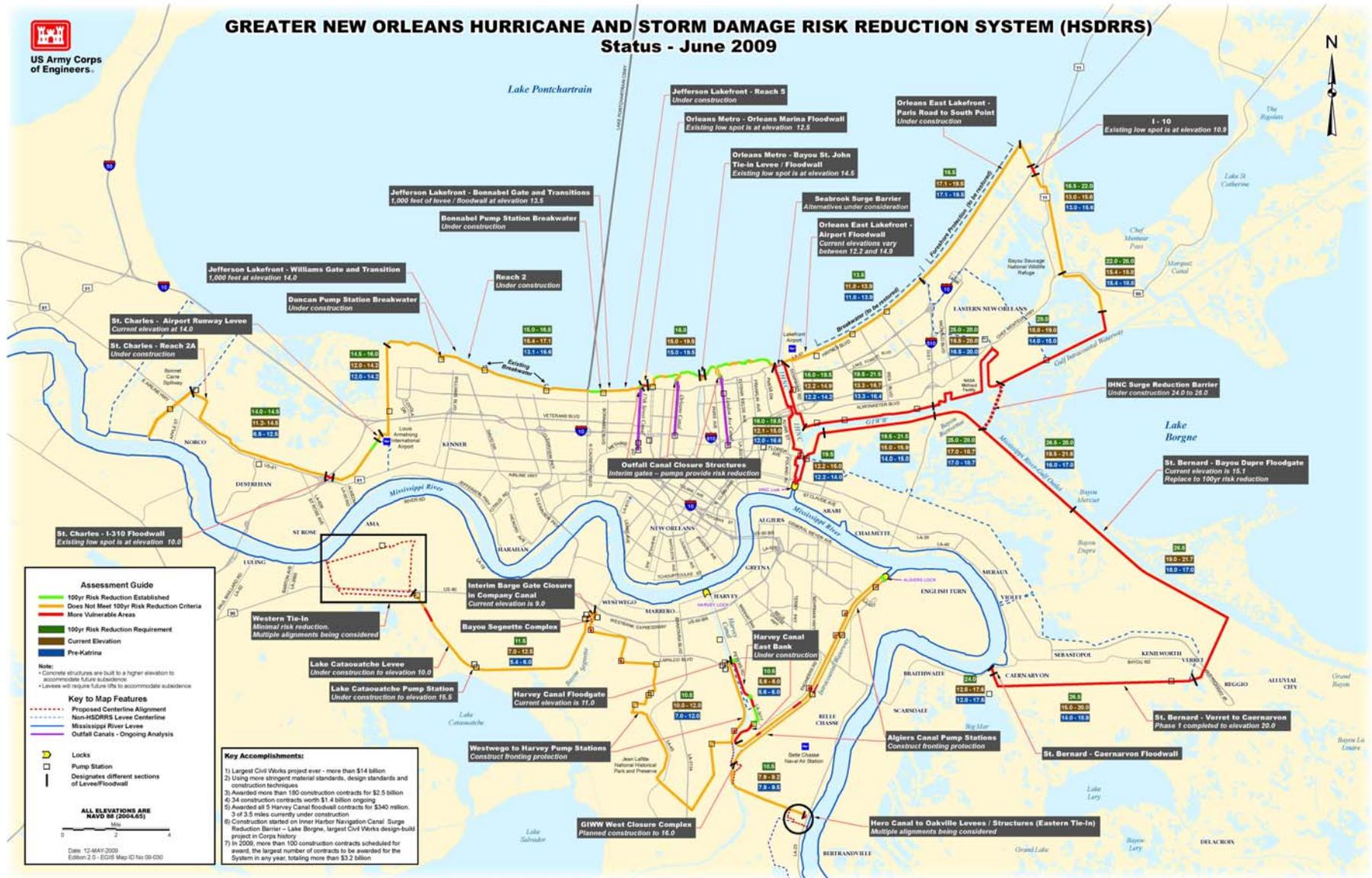


“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps of Engineers

HSDRRS Design Heights



"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers

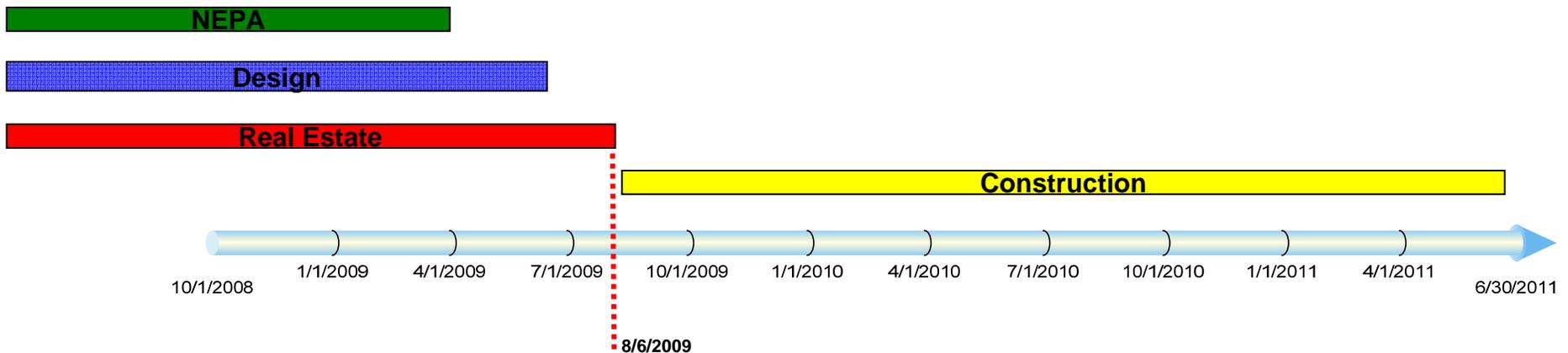
Orleans Metro - 5 Contracts



Proposed Actions: Raise approximately **6 miles** of levees and replace / strengthen **1.5 miles** of existing floodwalls, and improve all road crossings / gates from 17th St. Canal to west side of IHNC. Modify the existing floodgate at Bayou St. John.

Current Status: The levee work is **99% complete**; Design for floodwalls, ramps, and gates is **95% complete**; **Decision Record for IER 4 signed** in Mar 2009. **LPV 101.02 contract awarded** on 31 July; construction will begin on this remaining work in 3rd Qtr FY 09.

Schedule:



"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers

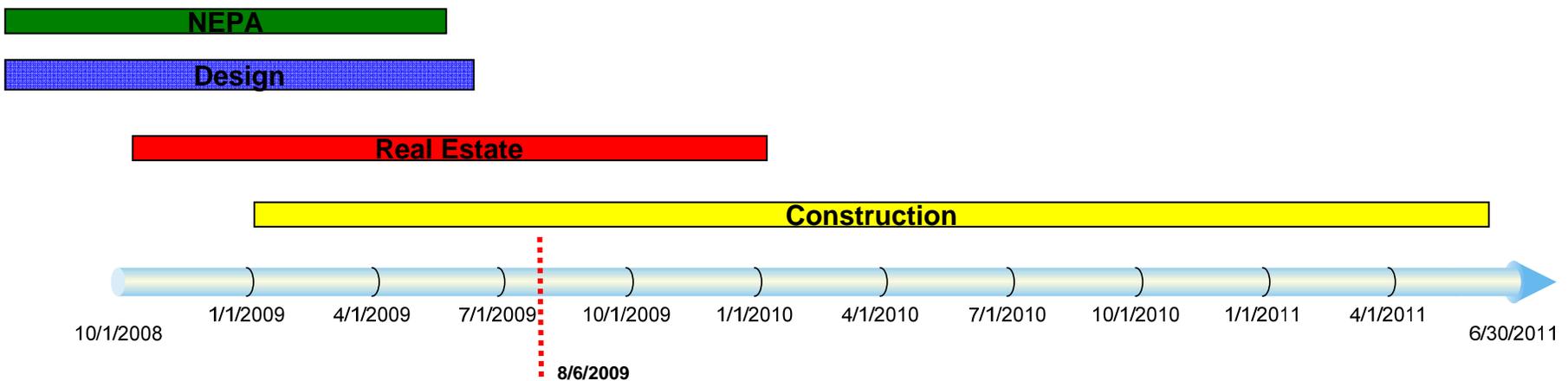
New Orleans East -16 Contracts



Proposed Actions: Raise approximately **25 miles** of levee and construct approximately **2 miles** of T-Wall from Lakefront Airport to Michoud Canal. Replace existing gates on Highways 11 and 90.

Current Status: LPV 109 levee work (**6.3 miles**) along Lake Pontchartrain (Paris Rd. to South Point) is 95% complete. T-Walls and highway relocations are in design; **awarded ECI contract** for LPV 111 in Jun 09; **awarded NASA betterment contract** in Jul 09; **Decision Records for IERs 6 & 7 signed** in June 2009.

Schedule:

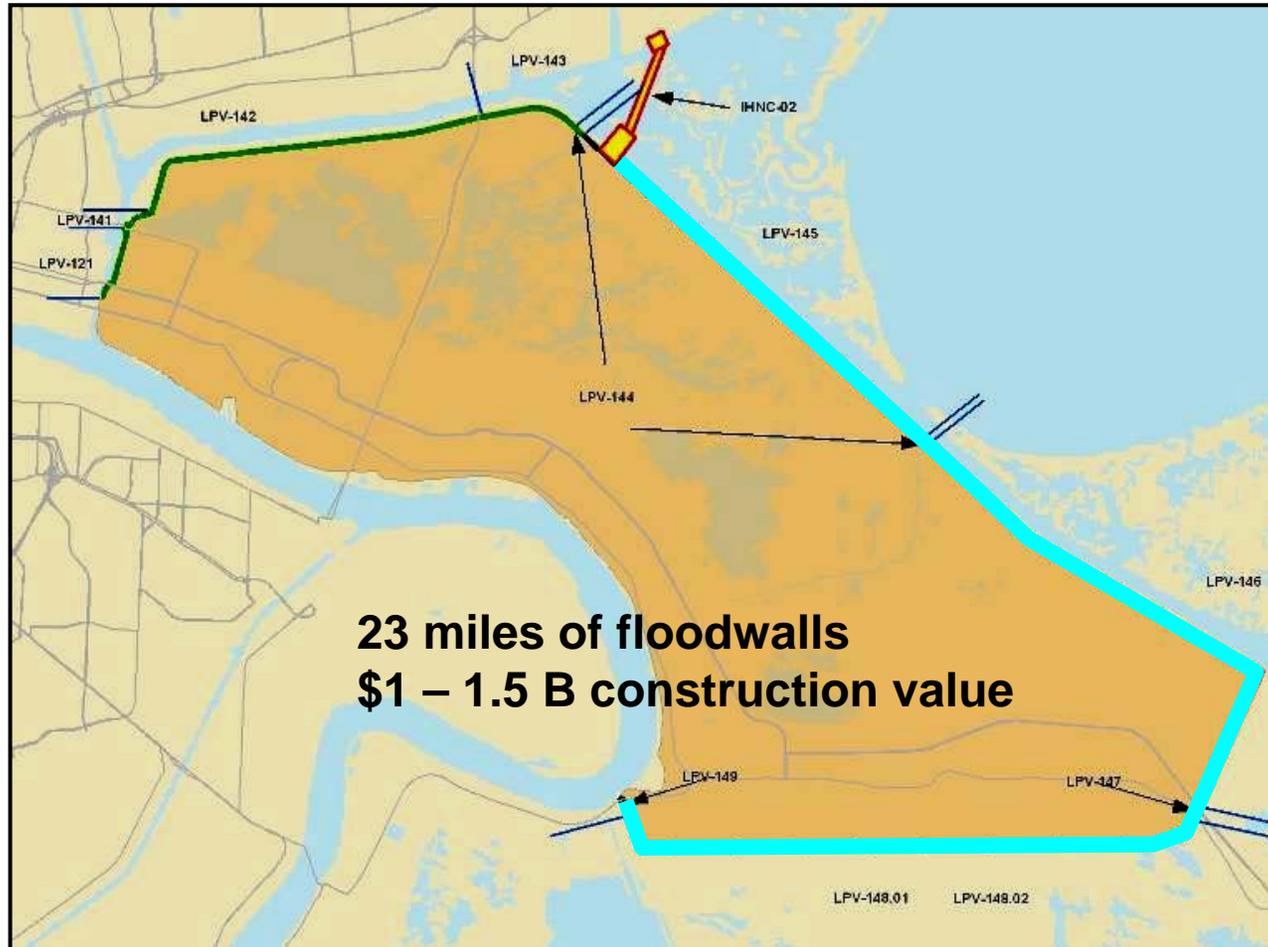


"Disciplined People, Disciplined Thought, Disciplined Action"



US Army Corps
of Engineers

St. Bernard Parish



“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers

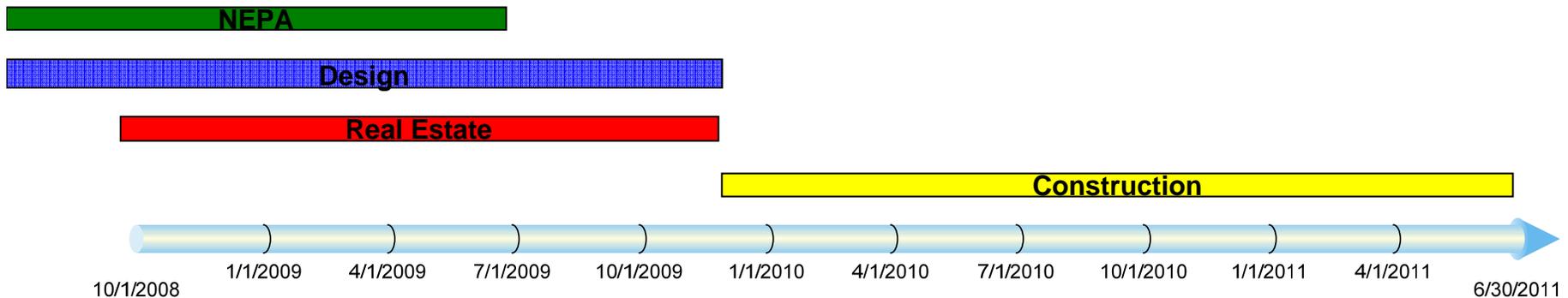
St. Bernard Parish



Proposed Action: Construct approximately **23 miles** of new floodwalls from Bayou Bienvenue to Caernarvon (raising from 20- to 29-feet and, in some places, to 31.5-feet). Construct new sector gate at Bayou Dupre. Relocate Highway 46 (bridge over a T-Wall) and replace floodgate at Bayou Road. Construct new floodwalls and sector gate across Caernarvon Canal and along the Freshwater Diversion Channel back to Highway 39.

Current Status: All projects are currently in the **design phase**; LPV 148.01–**completed raising 8 miles of levee to 20 foot elevation**; **Decision Record for IER 10 signed** in May 2009; **Decision Record for IER 8 signed** in June 2009; **ECI contract awarded** in Jul 2009 for preconstruction services on LPV 145; LPV 146 and 148.02 will also utilize the ECI process.

Schedule:



“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers

Permanent Pumps / Outfall Canals



30 Jun 09	IER Decision Record signed
15 Aug 09	Lake Pontchartrain & Vicinity PPA Amendment
1 Sep 09	Issue Phase I Request For Proposals
Oct 09	Community Design Forum
Nov 09	Community Design Forum
Dec 09	Community Design Forum
Jan 10	Issue Phase II Request For Proposals
Aug 10	Award Design-Build contract
Dec 13	Est. construction completion

Safe Water Elevations Analysis

- Draft report for London Ave is under review (Black & Veatch)
- Draft report for Orleans Ave under review
- Draft report for 17th St due in September

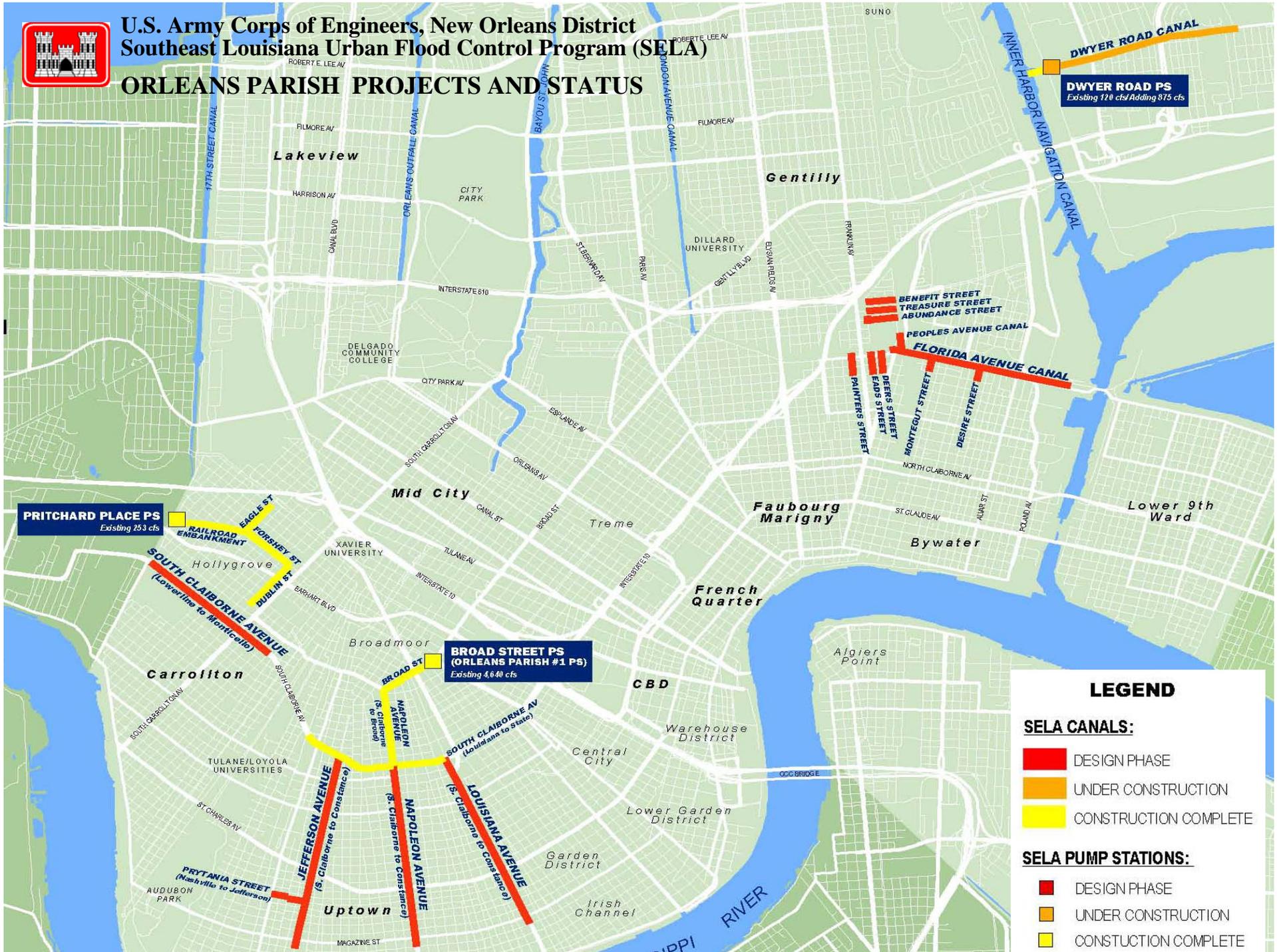
****Current Safe Water Elevations were validated by the reports***

"Disciplined People, Disciplined Thought, Disciplined Action"



U.S. Army Corps of Engineers, New Orleans District
Southeast Louisiana Urban Flood Control Program (SELA)

ORLEANS PARISH PROJECTS AND STATUS



LEGEND

SELA CANALS:

- DESIGN PHASE
- UNDER CONSTRUCTION
- CONSTRUCTION COMPLETE

SELA PUMP STATIONS:

- DESIGN PHASE
- UNDER CONSTRUCTION
- CONSTRUCTION COMPLETE

PRITCHARD PLACE PS
Existing 253 cfs

BROAD STREET PS (ORLEANS PARISH #1 PS)
Existing 4,640 cfs

DWYER ROAD PS
Existing 120 cfs/Adding 875 cfs



US Army Corps
of Engineers®

Florida Ave. Canal Phase 1



- **Advertise: August 2009**
- **Estimated Cost: \$20M-\$50M**

Construction

- Remove existing drainage paralleling Florida Ave.
- Construct 1,300 linear ft of 43.5- by 13-ft useable section (49.6- by 15-ft total section) pile-founded concrete flume in the Florida Ave. Canal.
- Phase 1 of the Florida Ave. Canal begins at Drainage Pump Station Number 19 and continues to Mazant St.

“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers®

Uptown, Napoleon Ave. Phase 2



- **Advertise: October 2009**
- **Estimated Cost: \$20M-\$50M**

Construction

- Construct approximately 4,300 linear feet of single-barreled, pile-founded concrete box culvert (with varying dimensions of 28 by 10 ft, 24 by 10 ft, and 18 by 10 ft) under the median along Napoleon Ave., from South Claiborne Ave. to Carondelet St.
- The new culvert will tie in to the existing culvert at South Claiborne Ave. designed and built under SELA and the culvert to be constructed under the Uptown, Napoleon Ave. Phase 3 contract at Carondelet St.

“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers®

Uptown, South Claiborne Ave, Phase 1



- **Advertise: January 2010**
- **Estimated Cost: \$20M-\$50M**

Construction

- Construct approximately 2,500 linear feet of single-barreled reinforced concrete culvert (useable area of 18.5 by 10 ft) under the median along South Claiborne Ave., from Monticello Ave. to Leonidas St.
- The new culvert will tie in to the existing Monticello Canal and the culvert to be constructed under the Uptown, South Claiborne Ave. Phase 2 contract at Leonidas St.

“Disciplined People, Disciplined Thought, Disciplined Action”



US Army Corps
of Engineers

Schedule for Award of Remaining SELA Orleans Contracts



SELA-19	Florida Ave--Phase I	Nov 09
SELA-23	Napoleon Ave Phase 2--Claiborne to Carondelet	Jan 10
SELA-24a	S Claiborne Phase I--Monticello to Leonidas	Apr 10
SELA-23a	Napoleon Ave Phase 3--Carondelet to Constance	Oct 10
SELA-20	Florida Ave--Phase 2	Dec 10
SELA-25	Florida Ave--Phase 3	Mar 11
SELA-24b	S Claiborne Phase 2--Leonidas to Lowerline	May 11
SELA-21	Jefferson Ave Phase I--Claiborne to Dryades	Nov 11
SELA-22	Jefferson Ave Phase 2--Dryades to Constance	Mar 12
SELA-27	Louisiana Ave--Claiborne to Constance	Jun 12
SELA-26	Florida Ave--Phase 4	Nov 12

"Disciplined People, Disciplined Thought, Disciplined Action"