

Greater New Orleans Hurricane & Storm Damage Risk Reduction System

Orleans Metro

Construction Impacts Meeting

September 14, 2009

St. Dominic's School



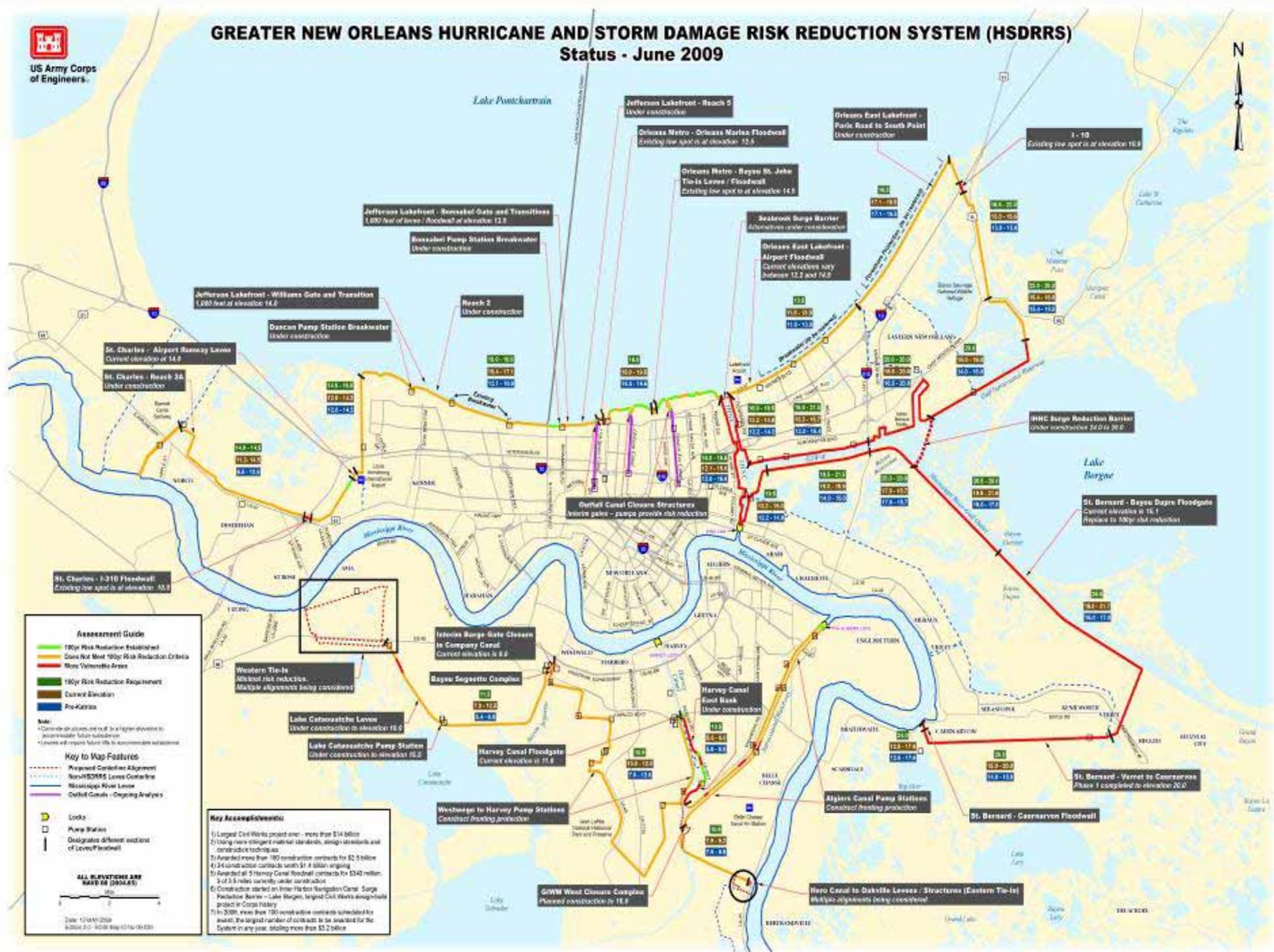
US Army Corps of Engineers
BUILDING STRONG





GREATER NEW ORLEANS HURRICANE AND STORM DAMAGE RISK REDUCTION SYSTEM (HSDRRS)

Status - June 2009



Assessment Guide

- 100yr Risk Reduction Established
- Does Not Meet 100yr Risk Reduction Criteria
- More Vulnerable Areas
- 100yr Risk Reduction Requirement
- Current Elevation
- Pre-Katrina

Key to Map Features

- Proposed Centerline Alignment
- Non-HSDRRS Levee Centerline
- Mississippi River Levee
- Outlet Canals - Ongoing Analysis

Icons

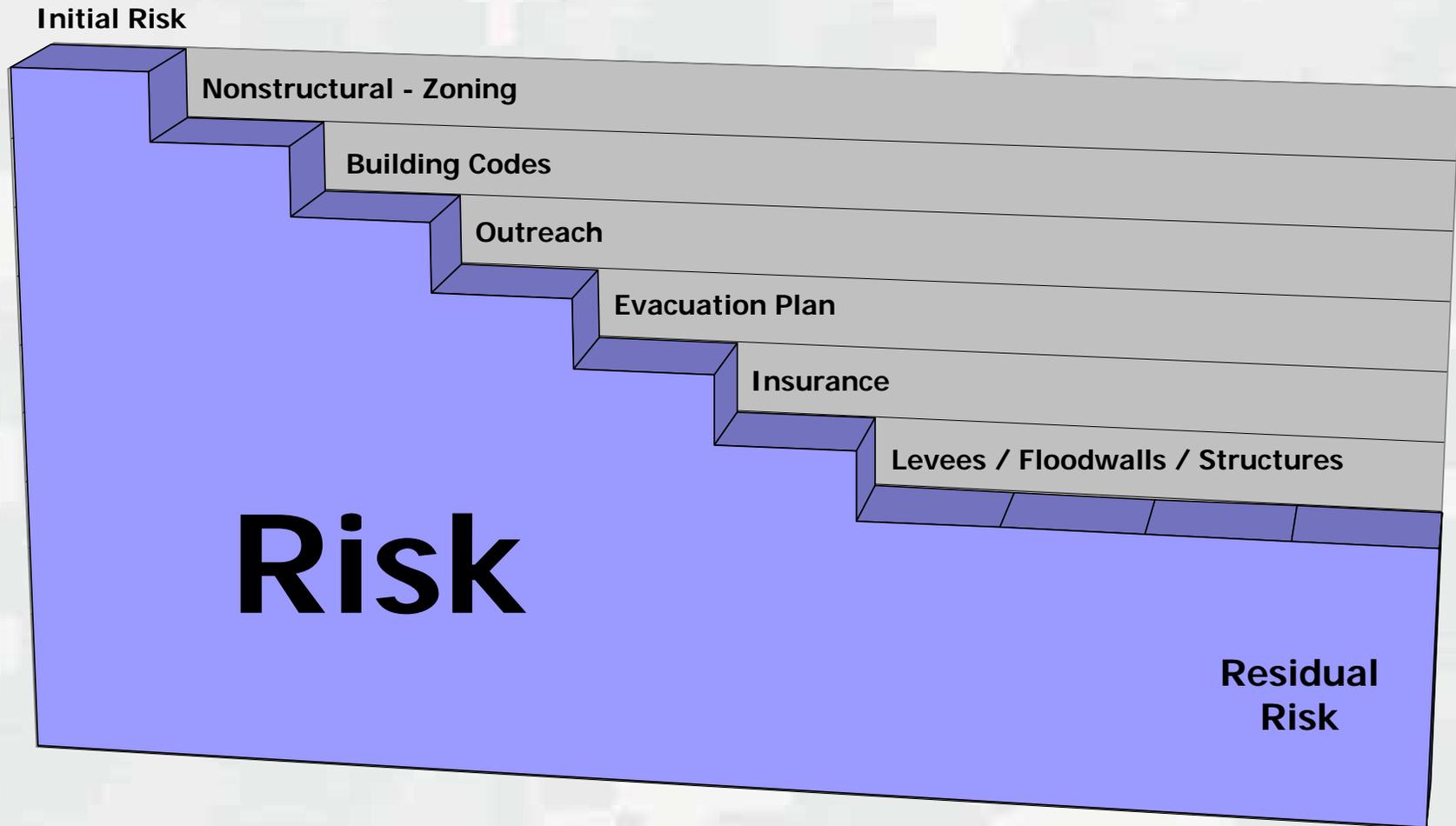
- Pump Station
- Designates different sections of Levee/Floodwall

ALL ELEVATIONS ARE BASED ON 1988(A.S.L.)

Date: 12/04/08
 8:00a.m. to 3:00p.m. May 12/14/09/09

- Key Accomplishments**
- 1) Largest Civil Works project ever - more than \$14 billion
 - 2) Using more stringent material standards, design standards and construction techniques
 - 3) Awarded more than 180 construction contracts for \$2.5 billion
 - 4) 24 construction contracts worth \$1.4 billion ongoing
 - 5) Awarded all 5 Harvey Canal floodwall contracts for \$240 million, 3 of 5 miles currently under contract
 - 6) Construction started on Intra Harbor Navigation Canal - Surge Reduction Barrier - Lake Borgne, largest Civil Works design-phase project in Corps history
 - 7) In 2009, more than 100 construction contracts scheduled for award, the largest number of contracts to be awarded for the System in any year, totaling more than \$2.2 billion

Buying Down Risk



Current Construction: Phase 1 - 100% complete

100-year level of protection - More than 90% complete



LPV 102

Topaz Street to
Orleans Avenue:

*Contract Awarded
3 Oct '07*

100% Complete

LPV 103

Orleans Avenue
Canal to London
Avenue Canal:

*Contract Awarded
3 Dec '07*

100% Complete

LPV 104

London Avenue
Canal to Inner
Harbor Navigation
Canal:

*Contract Awarded
13 July '07*

100% Complete



New Orleans Lakefront Levee Phase 1A & 2 100-year level of protection

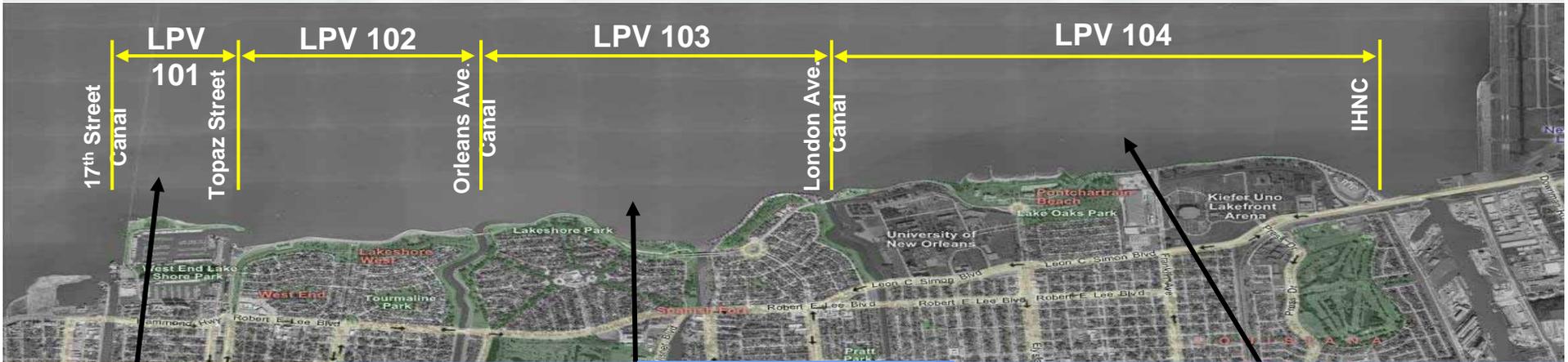


Proposed Work:

- Modifications or replacement of floodwalls / gates
- Additional embankment work to meet new design criteria
- Raise road ramps
- Armoring of transitions & utility crossings



Phase 1A & 2 of 100-year level of protection



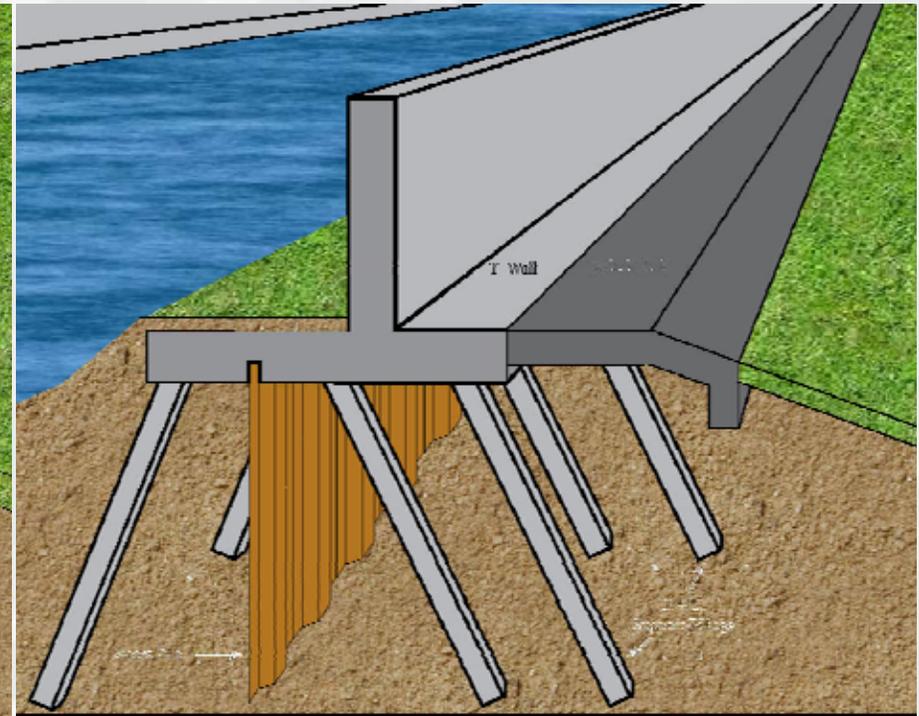
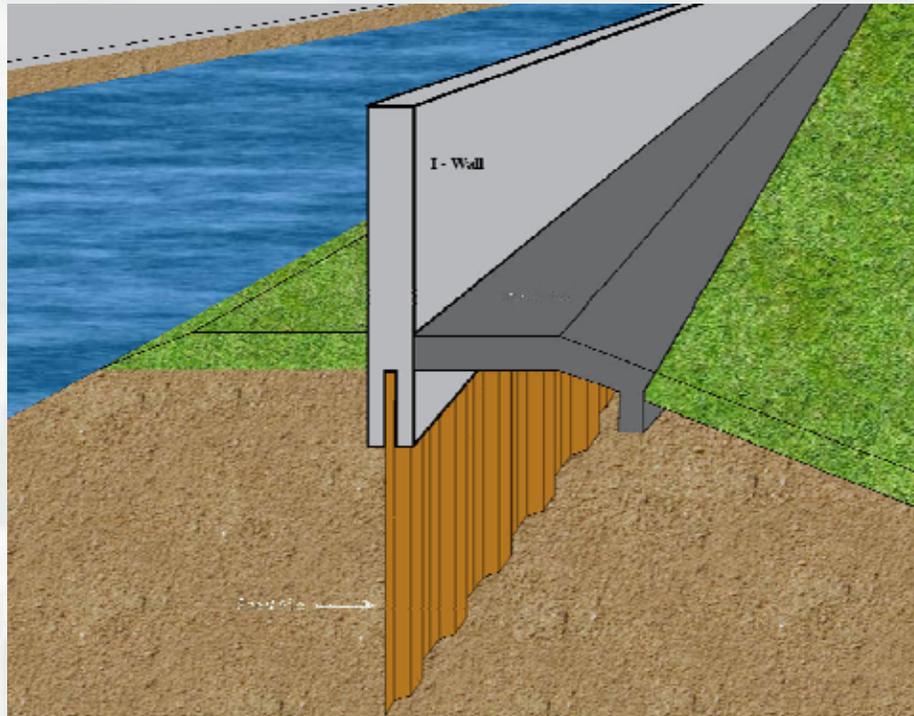
LPV 101.02	LPV 103.01A	LPV 103.01A2	LPV 104.01A	LPV 104.02
17th Street Canal to Topaz Street:	Orleans Canal to London	Topaz to London Canal	London Canal to IHNC:	London Canal to IHNC:
Contract Award: Summer '09	Contract Award: Summer '09	Contract Award: Winter '10	Contract Award: Fall '09	Contract Award: Fall '09
Duration: 18 months	Duration: 13 months	Duration: 6 months	Duration: 14 months	Duration: 18 months



Floodwall Improvements

I-Wall

T-Wall

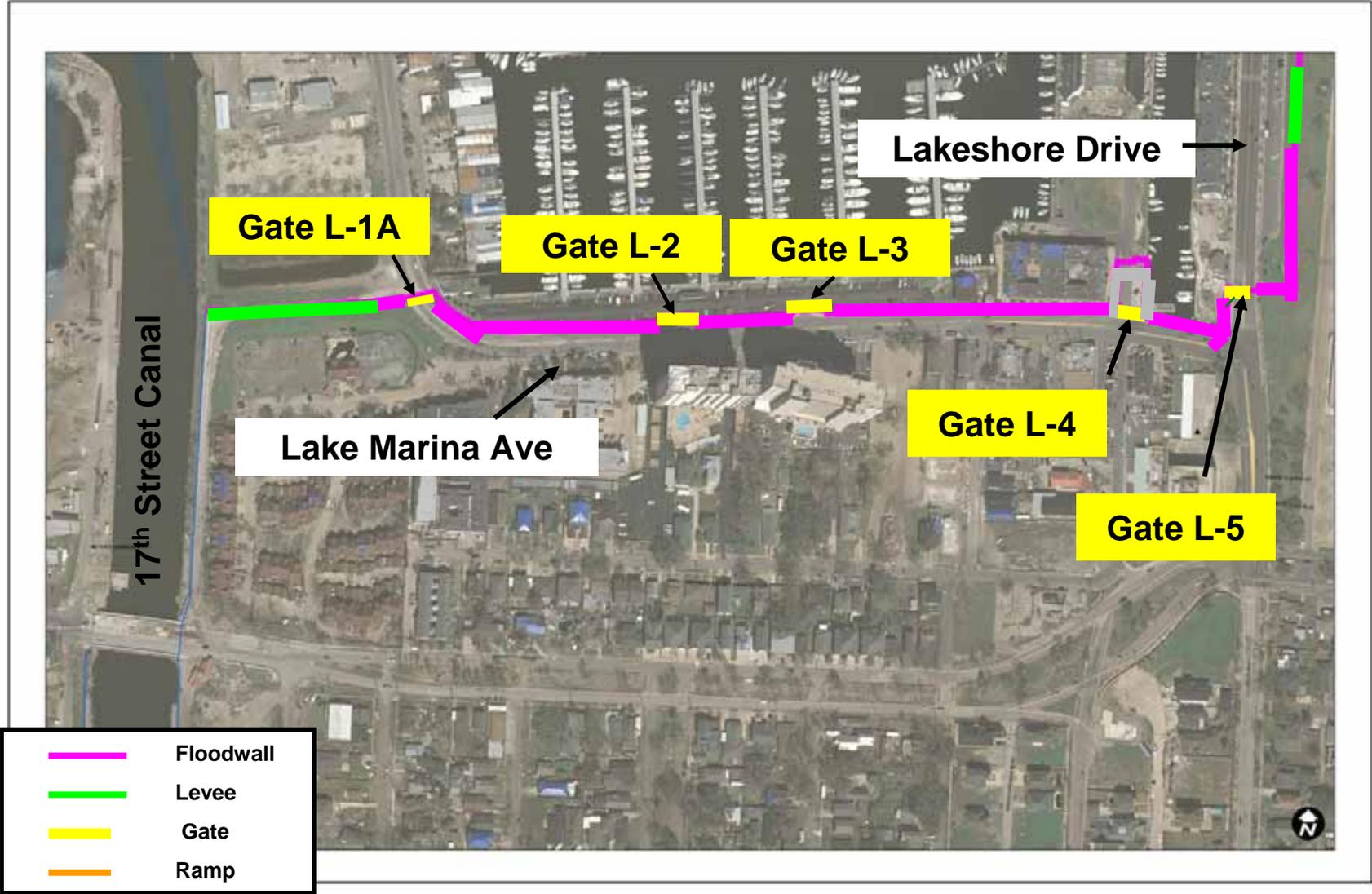


Pre-Hurricane Katrina

Post-Hurricane Katrina



LPV 101.02 - 17th Street to Topaz Street



LPV 101.02 - 17th Street to Topaz Street

- ✓ \$33 million contract awarded to Tetra-Tech Inc.
- ✓ Construction will begin in September 2009

- **West End levee**
 - Construct floodwall along existing levee alignment

- **Gate L-1A**
 - Remove and replace existing gate

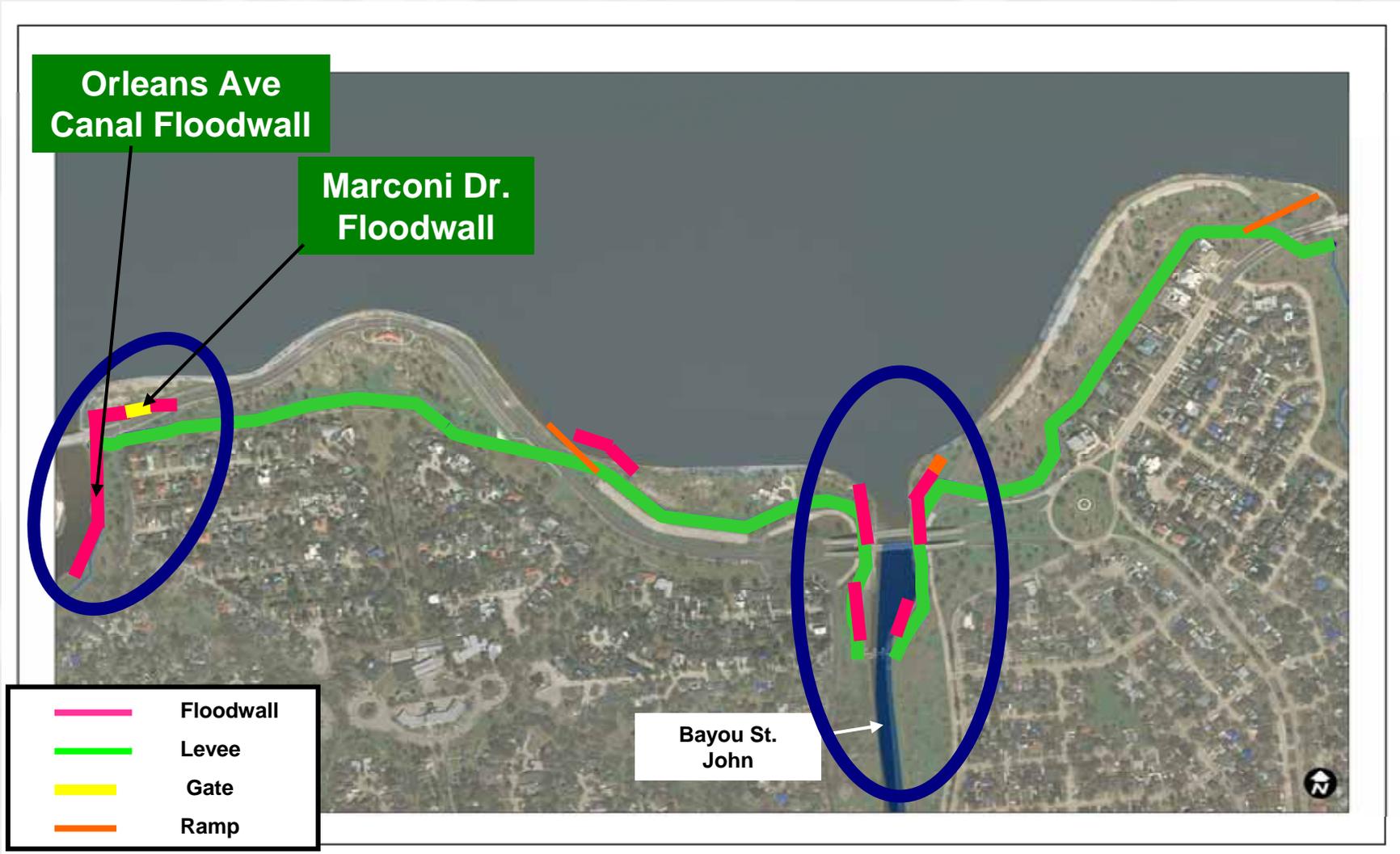
- **Existing floodwall between gates L-1A and L-5**
 - Retrofit / replace existing floodwall and gates

- **Gate L-4 and floodwalls along Pontchartrain Blvd**
 - Realign and construct new floodwall and gate L-4A adjacent to Lake Marina Avenue

- **East End levee between Topaz Street and Gate L5**
 - Construct floodwall along existing levee alignment



LPV 103.01A1 - Orleans to London Avenue



LPV 103.01A1 - Orleans to London Avenue

- ✓ \$10 million contract awarded to AquaTerra-CAYO Joint Venture
- ✓ Construction will begin in October 2009

- **Marconi Drive floodwall**
 - Retrofit / replace

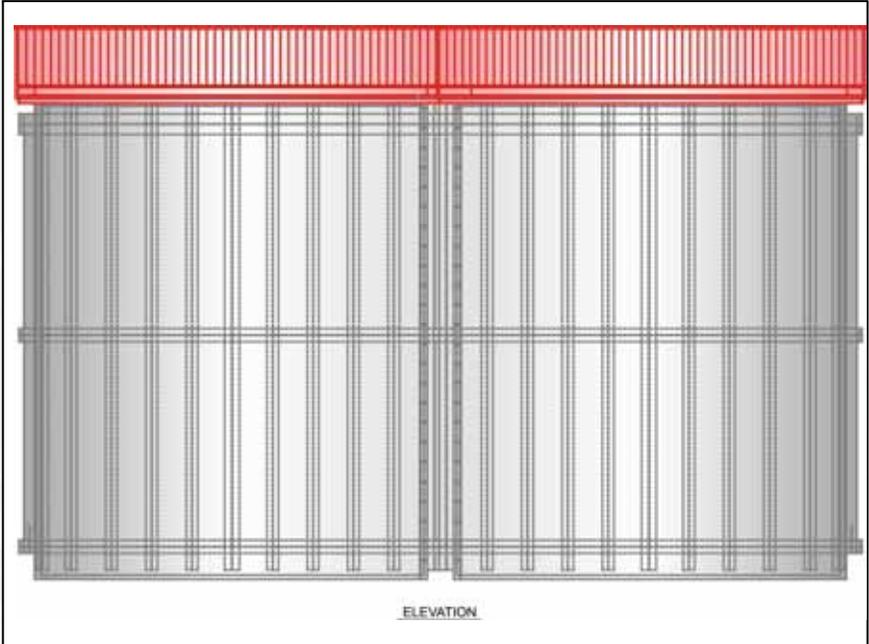
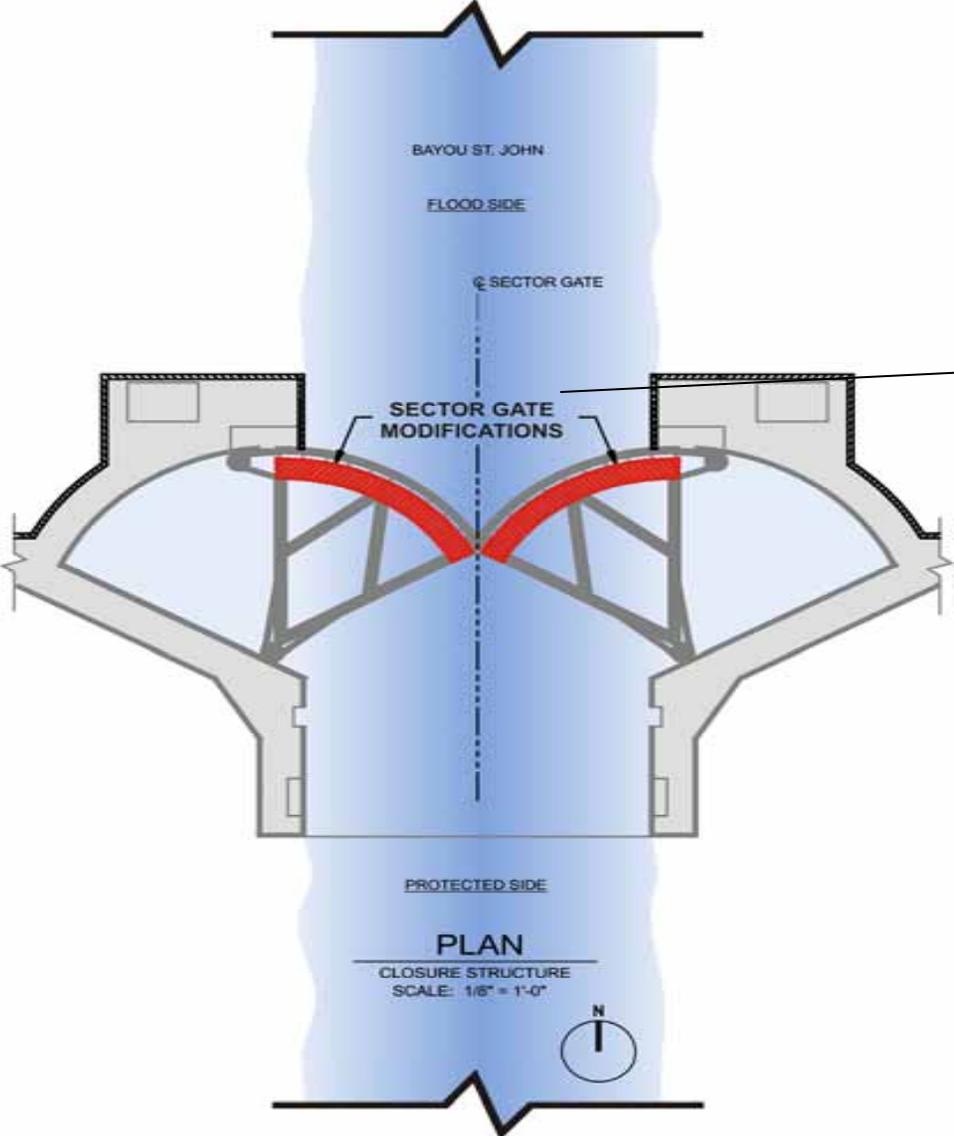
- **Orleans Avenue canal floodwall**
 - Minor rehabilitation work along scour protection and transformer locations

- **Bayou St. John floodwall & sector gate structure**
 - Raise existing sector gate structure; modify or replace existing adjacent floodwalls and levees



Bayou St. John Sector Gate Modification

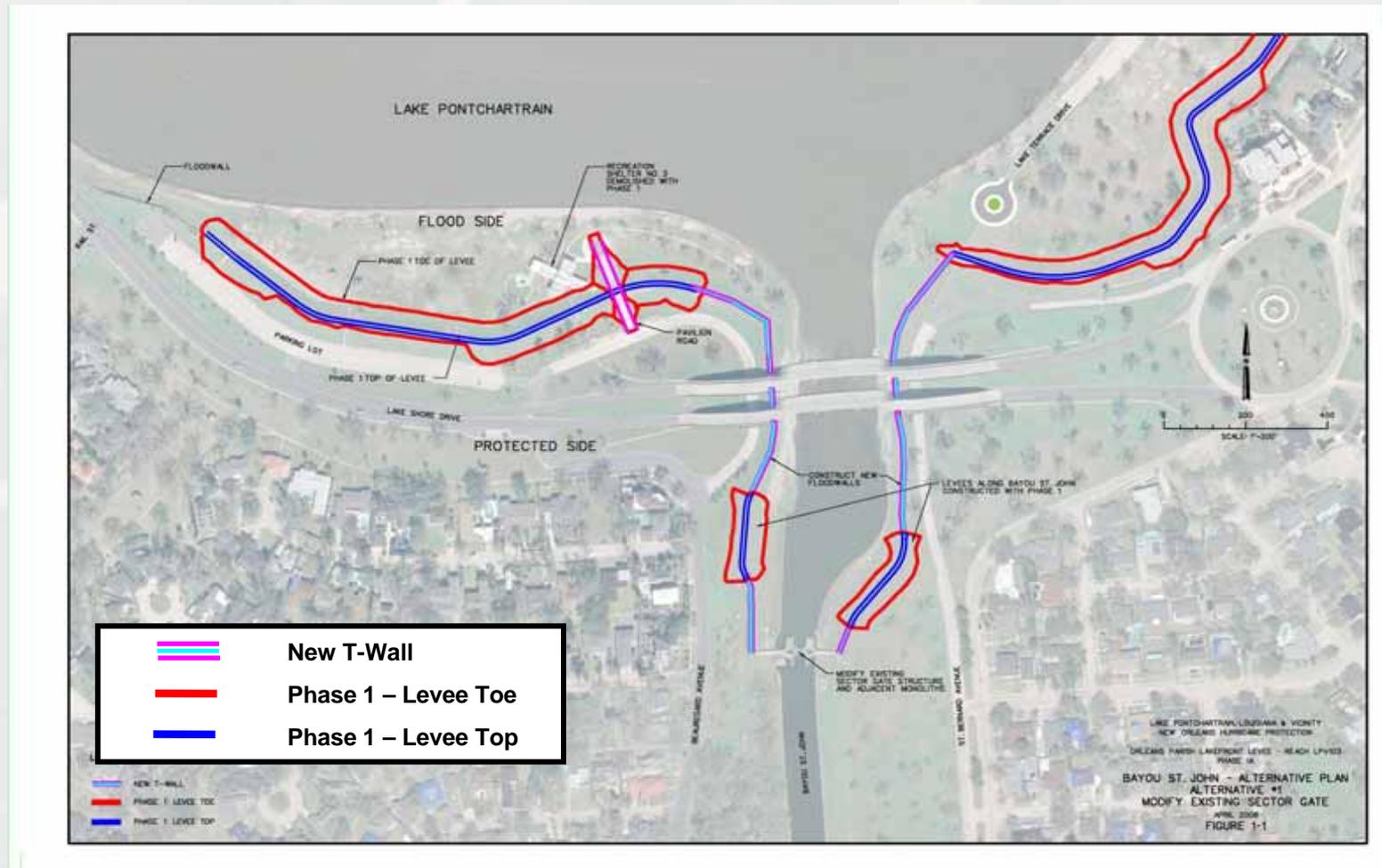
Drawing is not to scale



6" steel plate



LPV 103.01A1 – Bayou St. John Walls on existing alignment

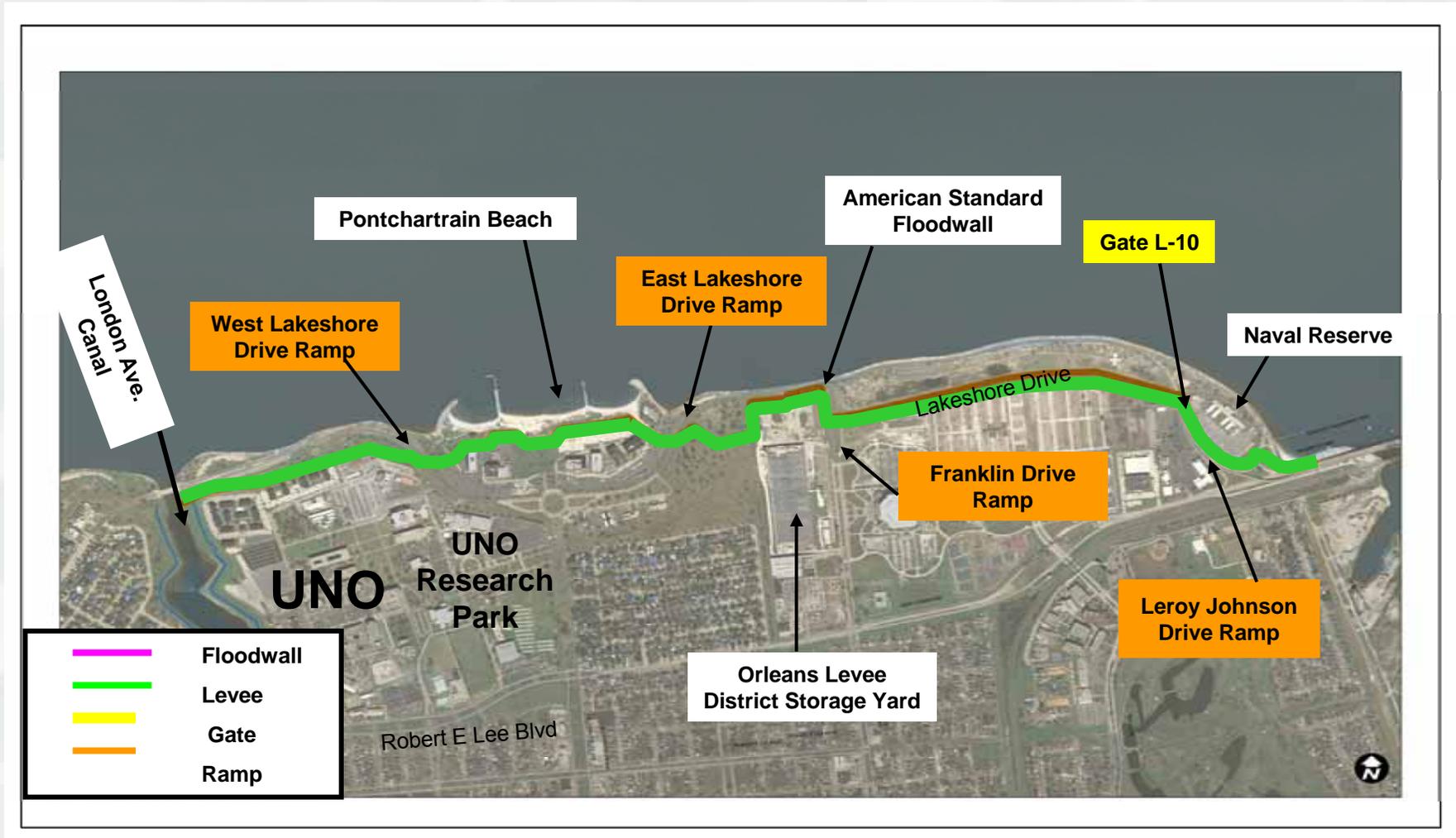


LPV 103.01A2 - Orleans to London Avenue

- **Rail Street ramp**
 - Construct new floodgate
- **Lakeshore Drive at London Avenue Canal ramp**
 - Construct new floodgate



LPV 104.01 - London Avenue Canal to IHNC



LPV 104.01- London Avenue Canal to IHNC

- **Canal Blvd ramp**
 - Raise ramps
- **Lakeshore Drive ramps east / west of UNO research facility**
 - Raise ramps
- **Pontchartrain Beach**
 - Convert I-wall to L-wall on current alignment

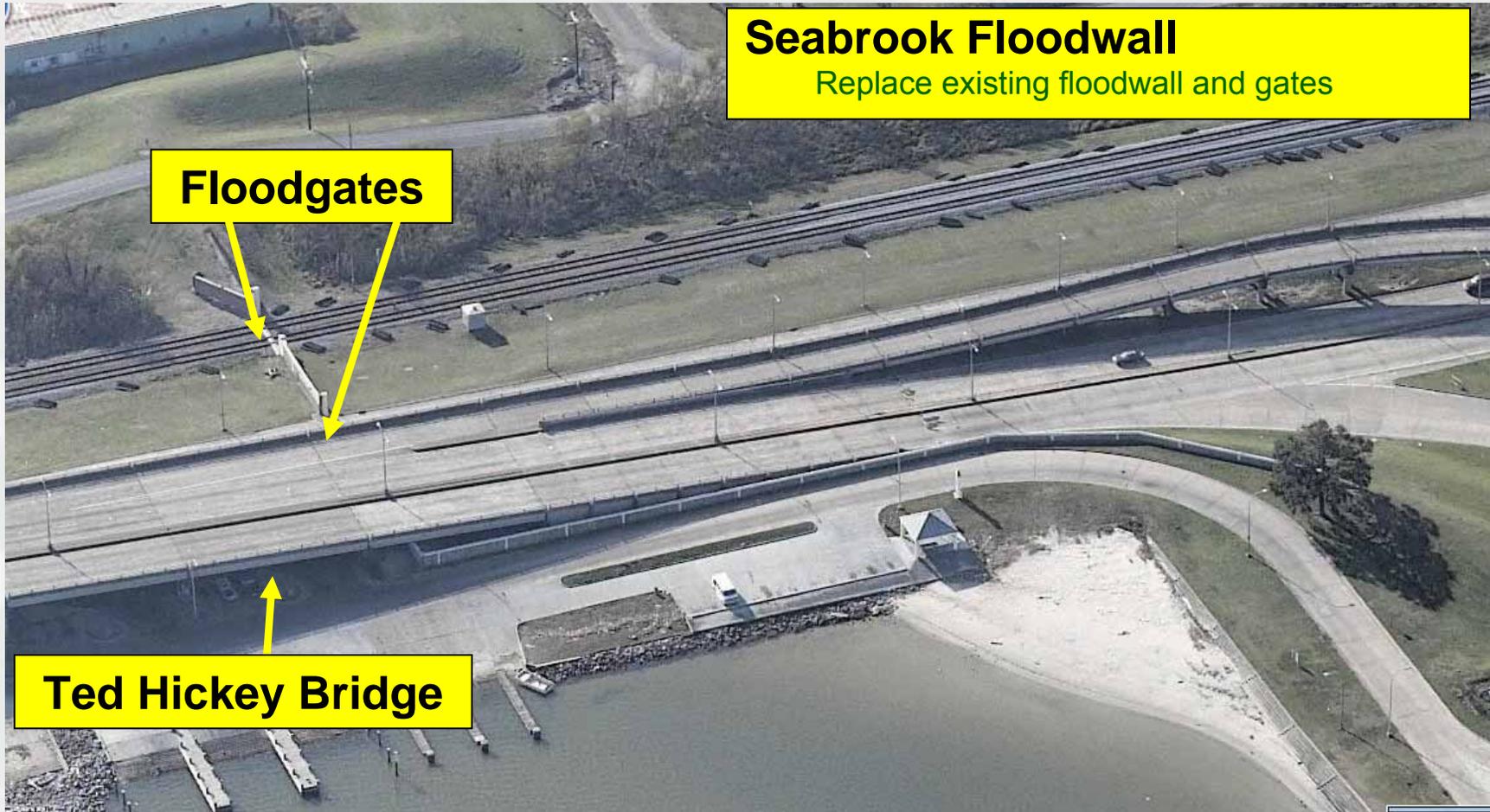


LPV 104.01 - London Avenue Canal to IHNC

- **American Standard floodwall**
 - Add scour protection behind I-wall and leave T-wall as is
- **Leroy Johnson Drive Ramp / Franklin Ave Ramp**
 - Raise ramp
- **Gate L-10**
 - Remove gate and replace with levee section
- **Gate L-11**
 - Modify or replace gate



LPV 104.02 - London Avenue Canal to IHNC



LPV 104.02 - London Avenue Canal to IHNC

- **Seabrook Floodwall**
 - Demolish and construct new floodwall
- **UNO Lakefront Campus ramp**
 - Construct new ramp
- **Railroad**
 - Replace floodgate



What To Expect During Construction

- **Construction impacts**
 - Elevated noise levels from motors, pumps, generators, pile driving, etc.
 - Increased truck traffic (trucks will utilize approved haul routes)
 - Road access will be limited at times
 - Extended work hours (6 days per week of pile driving up to 12 hours per day)
- **Corps' efforts to minimize impacts**
 - Roads will be watered (to minimize dust)
 - Working with Department of Public Works on road closures



Onsite Inspection

Quality Control/Quality Assurance

- Onsite Corps employee oversight
- Monitors the construction contractor
- Ensures sites are safe and signage is clear
- Confirms traffic control measures are maintained and meet safety standards
- Knowledgeable of site activities



Opportunities for Public Input

- Regular public meetings throughout the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Area
- Make sure to sign in tonight to get on our meeting notification mailing list
- Comments can be submitted at any time at www.nolaenvironmental.gov

Questions and comments may be submitted to
Telephone: 504-862-2201

[E-mail: AskTheCorps@usace.army.mil](mailto:AskTheCorps@usace.army.mil)



Upcoming Public Meetings

Saturday, Sept. 19, 2009

Eastern Tie In and Plaquemines Parish Non-Federal Levee public workshop

Belle Chasse High School

8346 Highway 23

Belle Chasse, LA 70037-2694

Opening remarks 9 a.m.

Sessions 9:30 a.m.



Web-based Resources

www.nolaenvironmental.gov

<http://www.mvn.usace.army.mil>

