Permanent Canal Closures & Pumps:

Operable System Features of Option 1, Option 2, and Option 2a Pump Stations







Agenda

- Congressional Authority
- Aerials
- Operable System Features of Option 1, Option 2, and Option 2a Pump Stations
- Providing Operable Systems: Options 2 / 2a
- Option 1 Graphics
- Option 2 Graphics
- Construction Activities
- Option 2a
- Project Schedule

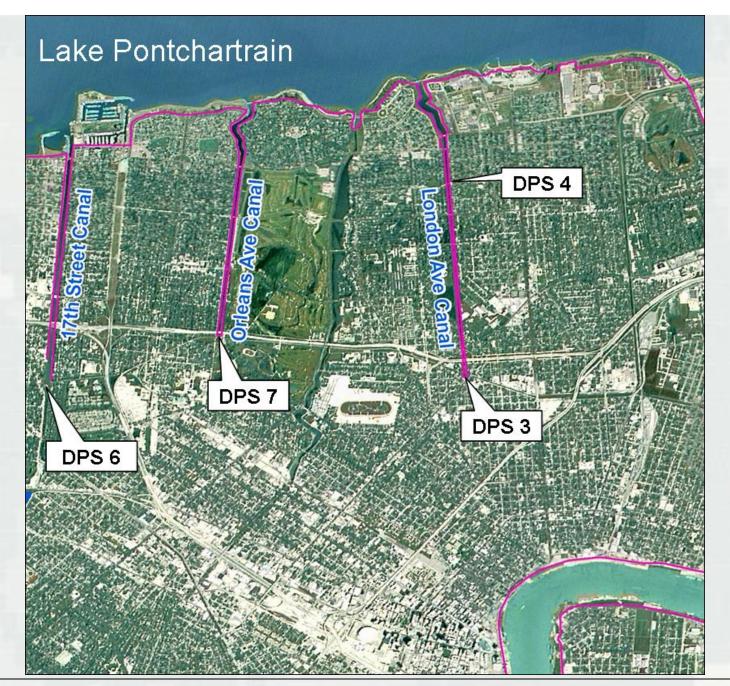


Congressional Authority

4th Supplemental

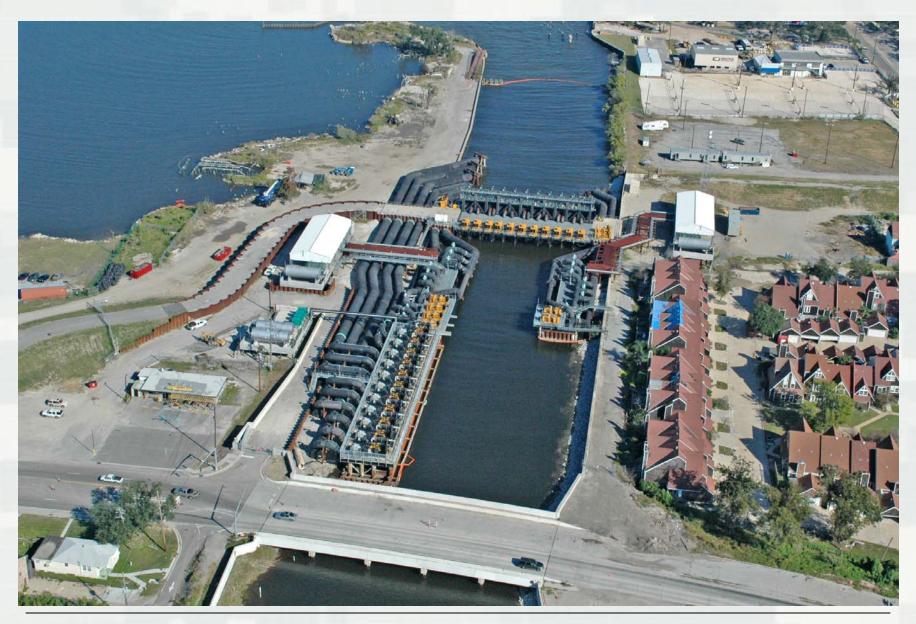
In June 2006, Congress passed Public Law 109-234 giving the Corps authorization and appropriations to design and construct Permanent Pumps for the outfall canals – specifically, to "...modify the 17th Street, Orleans Avenue, and London Avenue drainage canals and install pumps and closure structures at or near the lakefront..."







17th Street Canal



Selected Maximum Footprints





London Avenue Canal

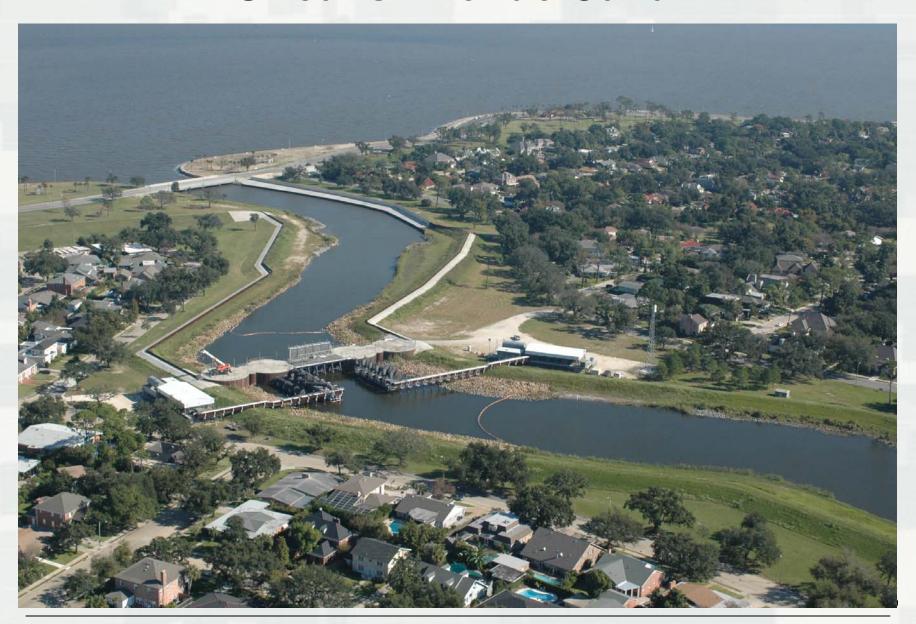


Selected Maximum Footprints

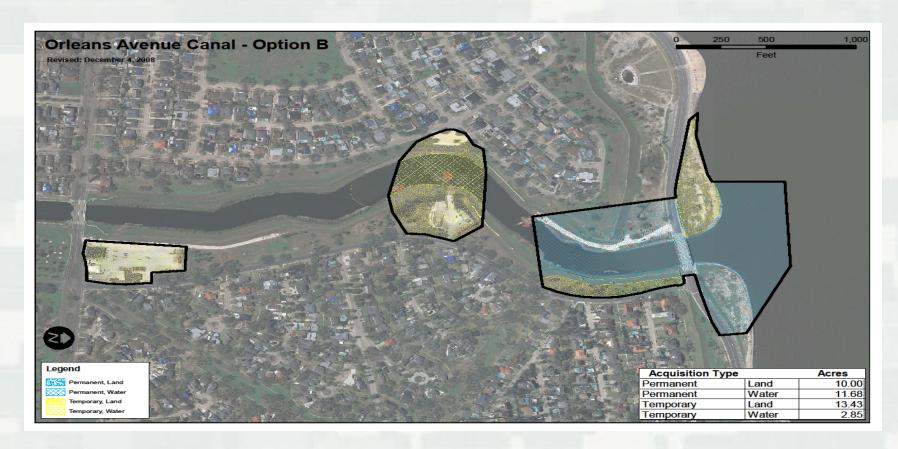




Orleans Avenue Canal



Selected Maximum Footprints





Operable System Features of Option 1, Option 2, and Option 2a Pump Stations

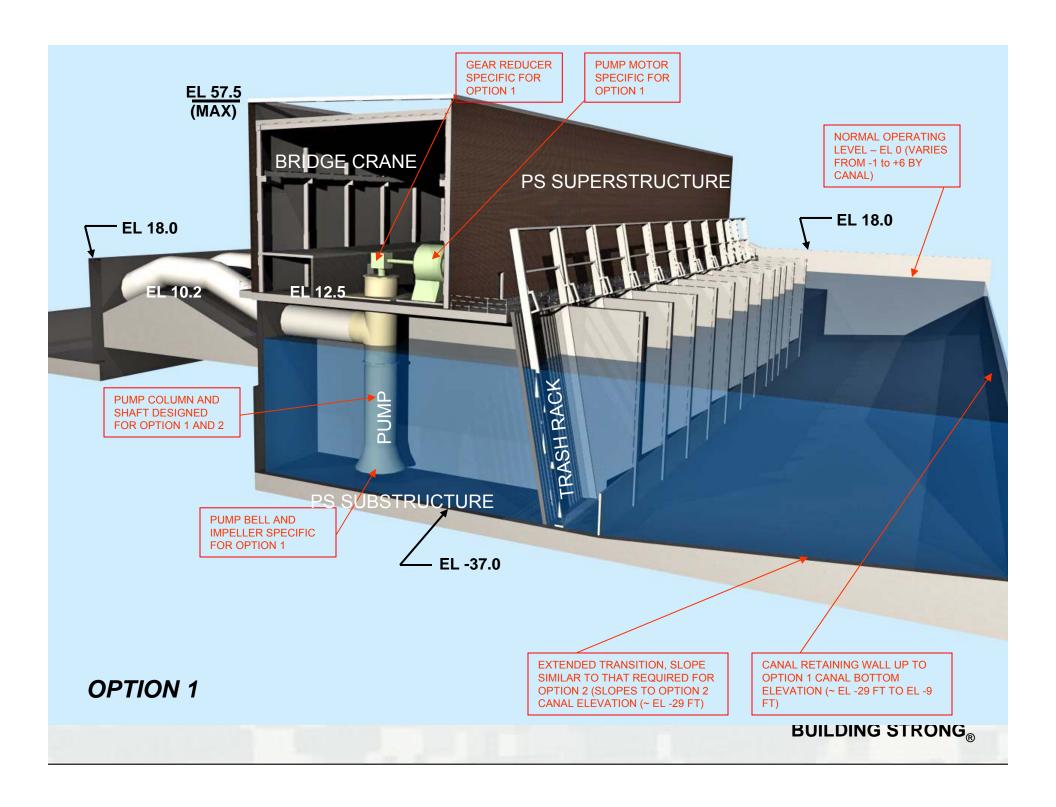
- Pump Station Substructure Intake Sill Elevation
- Pump Station Substructure Sized For Option 2/2a without need for removal
- Pump Station Superstructure
- General Site Development, Access and Pump Station Foot Print
- Channel Transition
- Pump Column and Shaft
- Expandable Generating Station
- Bridge Crane rails and supports (will be estimated based on Option 2/2a weight requirements)

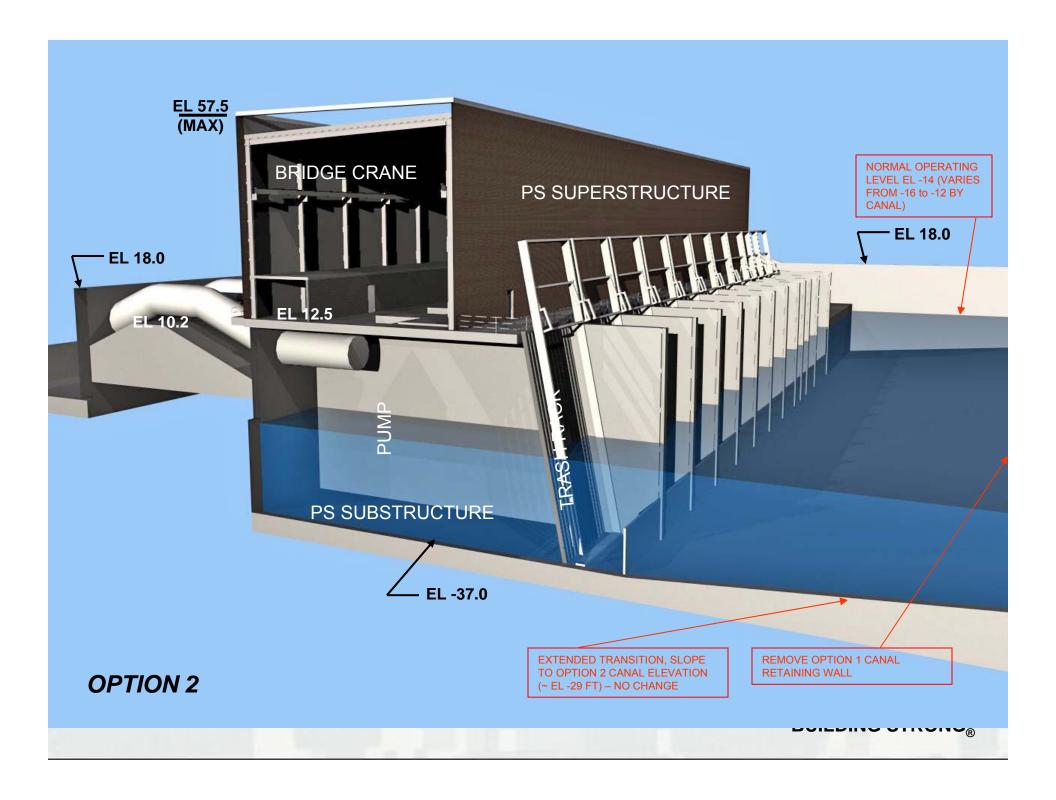


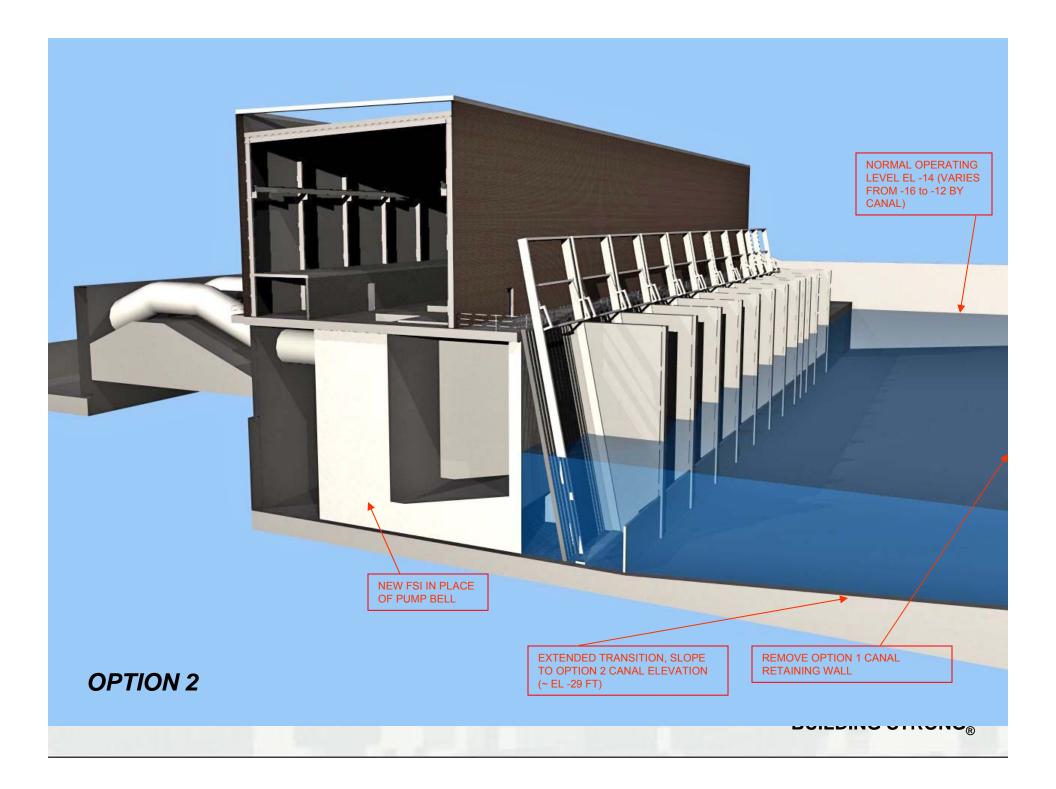
Providing Operable Systems: Options 2 / 2a

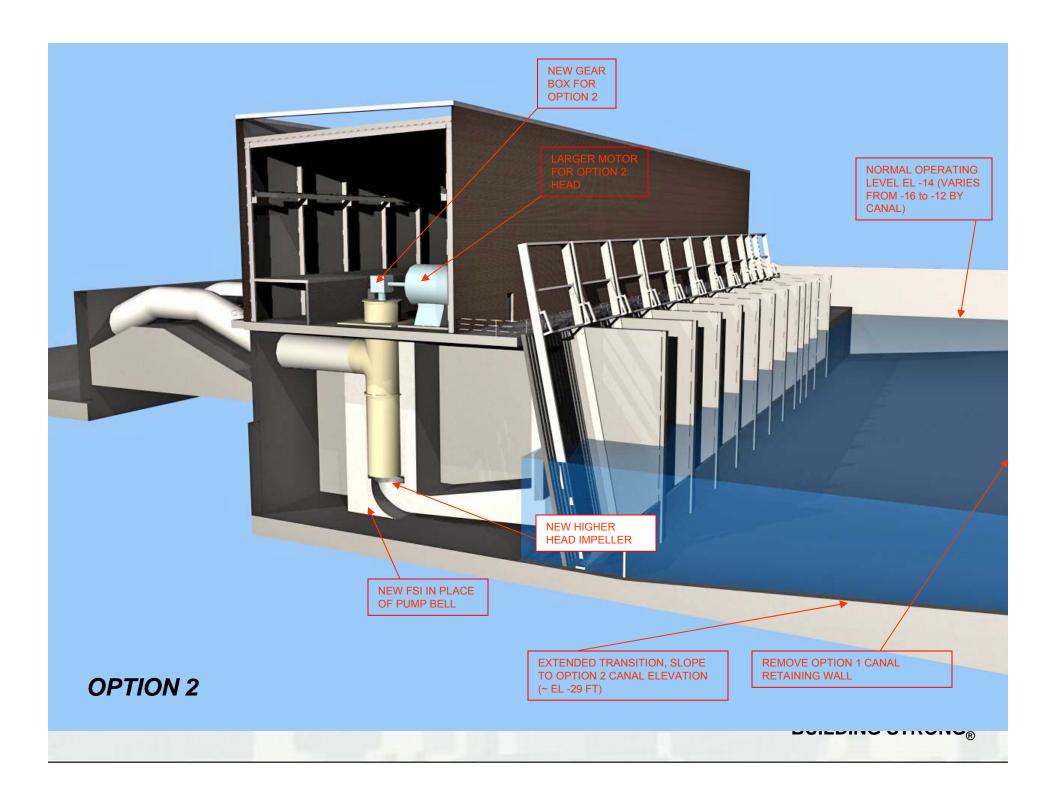
- Add Formed Suction Inlet and Remove Pump Bell
- Replace Driver Motor with Larger Size
- Change Pump Impeller Type
- Replace Gear Reducer
- Increase Number of Generators, Number of Fuel Tanks, HVAC Capacity and Size of Electrical Switch Gear
- Permanently Close the Gates

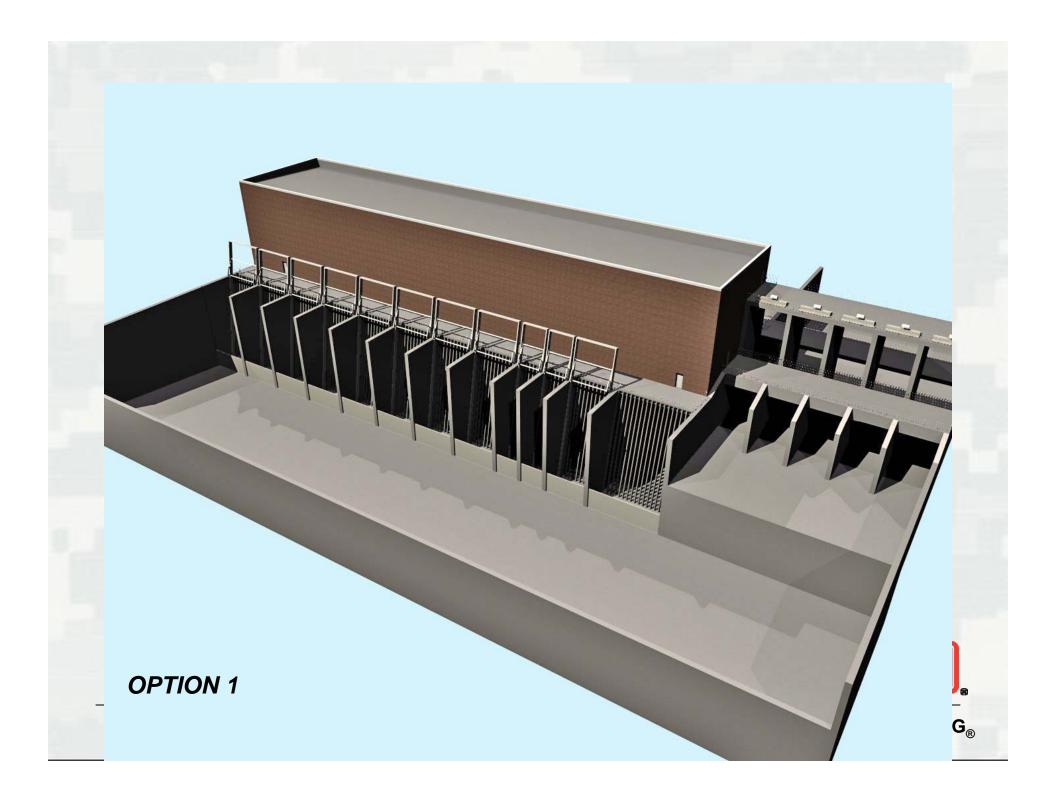


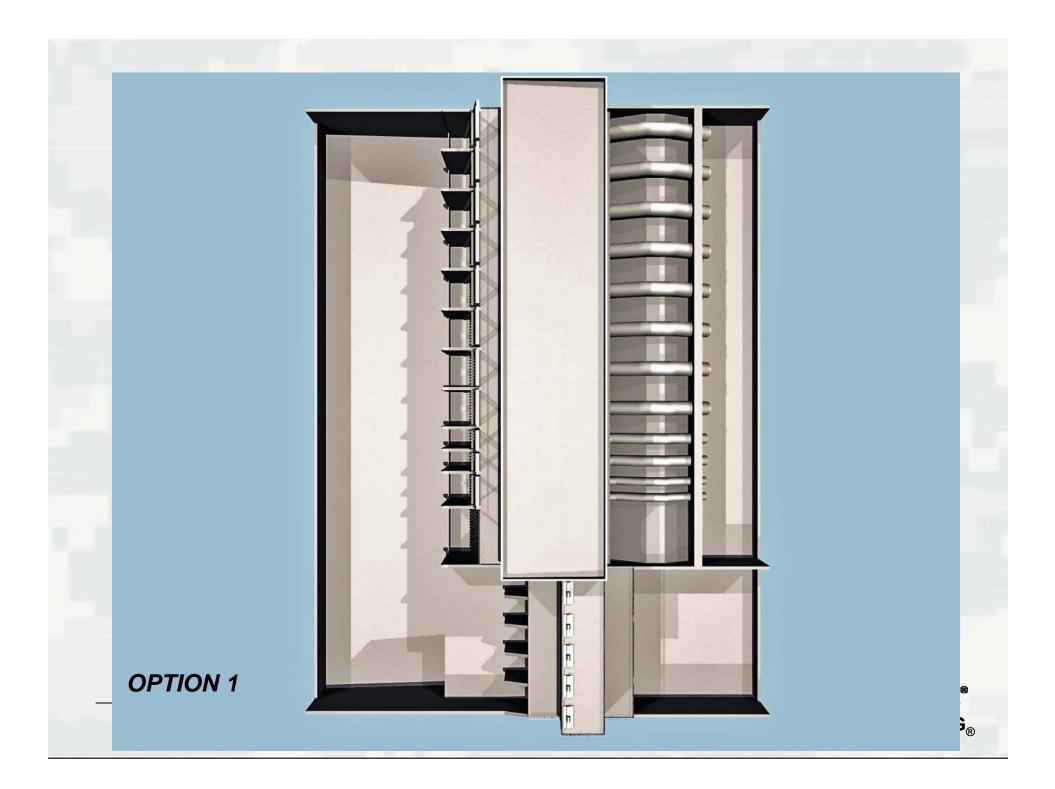














Construction Activities

Option 1 adaptable with Pump Station

- 1.Build Pump Station
- 2.Remove ICS

Option 2 with Pump Station

- 1.Build Pump Station
- 2.Remove ICS
- 3.Deepen Canals
- 4.Bypass Drainage Pump Stations
- 5.Floodwall and Levee Removal Along Outfall Canals

Option 2a with

- Pump Station
- 1.Build Pump Stations
- 2.Remove ICS
- 3.Deepen Canals
- 4.Construct Diversion (Hoey's Basin)
- 5.Bypass Drainage Pump Stations
- 6.Floodwall and Levee Removal Along Outfall Canals



Option 2a

- The "a" in 2a is the diversion
 - Hoey's Basin
 - Drain approximately 2500 acres
 - Will divert rain water to the Mississippi River instead of the 17th Street Canal via new pump station

