

Greater New Orleans Hurricane & Storm Damage Risk Reduction System

Eastern Tie-In

Hwy 23 Crossing

Invisible Floodwall

T. Carr

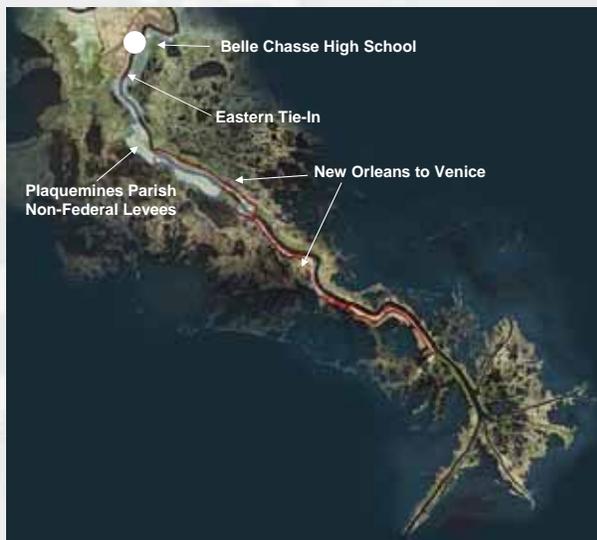
Public Workshop
Sept. 19, 2009
Belle Chasse High School



US Army Corps of Engineers
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Plaquemines Parish Risk Reduction



Three distinct but connected projects reduce risk for residences and businesses in Plaquemines Parish



Eastern Tie – Project Orientation

IER 13: Hero to Oakville Proposed Action Alignment

Proposed Floodgate Location



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Background

- Corps projects must be environmentally compliant
- Eastern Tie-In is an integral piece of the hurricane system
- Original Corps proposed action was a swing gate to cross Highway 23
- Individual Environmental Report 13, the Eastern Tie-In project document, was released for public review Apr. 3, 2009
- Public input led to refine designs to minimize visual impacts



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Hwy 23 Crossing Refinements

- Four alternatives under consideration:
 - Roller gate
 - Swing Gate
 - Ramp
 - Invisible Floodwall
- This session: Invisible Floodwall



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Invisible Floodwall



Based on public feedback, the Corps further developed the concept of constructing an Invisible Floodwall in spring 2009.



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Invisible Floodwall

Kicker Columns and Piles

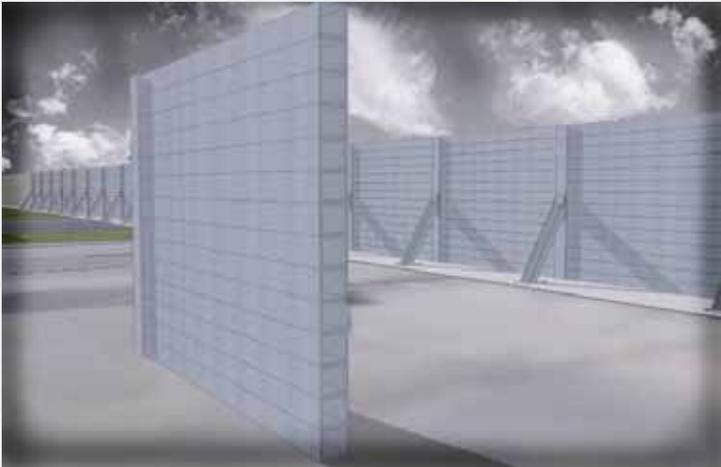


In advance of a storm event 9 ft tall 170 lbs aluminum columns, 75 lb kicker piles, and industrial aluminum tubes would be assembled to prevent storm surge from reaching the Belle Chasse sub-basin



Invisible Flood Wall

Aluminum Tubes



The Invisible Floodwall alternative would include about 400 industrial-aluminum tubes about 12 ft wide by 8 inches tall and weighing 215 lbs.



Railroad Swing Gate



The Swing Gate option to cross Highway 23 would include a third gate to block surge at the railroad tracks.



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Emergency Bypass



An Emergency Bypass road would be constructed at the project site no matter which option to cross highway 23 is selected.



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Storage Shed and Assembly Equipment



Pieces to assemble the Invisible Floodwall would be stored in a building near the project site.



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Closed Floodwall

Southbound View



Due to the amount of time needed to construct the floodwall, it would require the most lead time of any option and the earliest evacuation.



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Other Uses of Invisible Floodwall



East Grand Forks, MN



Europe



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Invisible Floodwall Flyover



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Questions and Comments



Next Steps

- Feedback offered today will be incorporated into Individual Environmental Report 13 Addendum
- Individual Environmental Report 13 Addendum is scheduled for release in Oct. 2009
- Public meeting to discuss the proposed action is scheduled for Oct. 20, 2009 at Belle Chasse High School



Resources

www.nolaenvironmental.gov



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

