

INTERNATIONAL BOUNDARY AND WATER COMMISSION UNITED STATES AND MEXICO



Lower Rio Grande Flood Control Project
Levee Improvements
April 2009

Lower Rio Grande Food Control Project

- Authorized by Act of Congress, August 19, 1935
- Federal Project improved upon a system built by the counties in the late 1920's
- The Project raised, improved, and extended the river levee and developed the interior floodway system.



Levee Terminology

Riverside

Levee

Landside

Freeboard

Base Flood Elevation

(1% annual chance of occurrence) = 100yr event

Overtopping

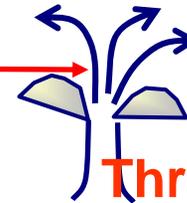
Slope failure

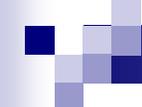
Foundation

Structural Integrity

Through seepage

Underseepage
(sand boils)





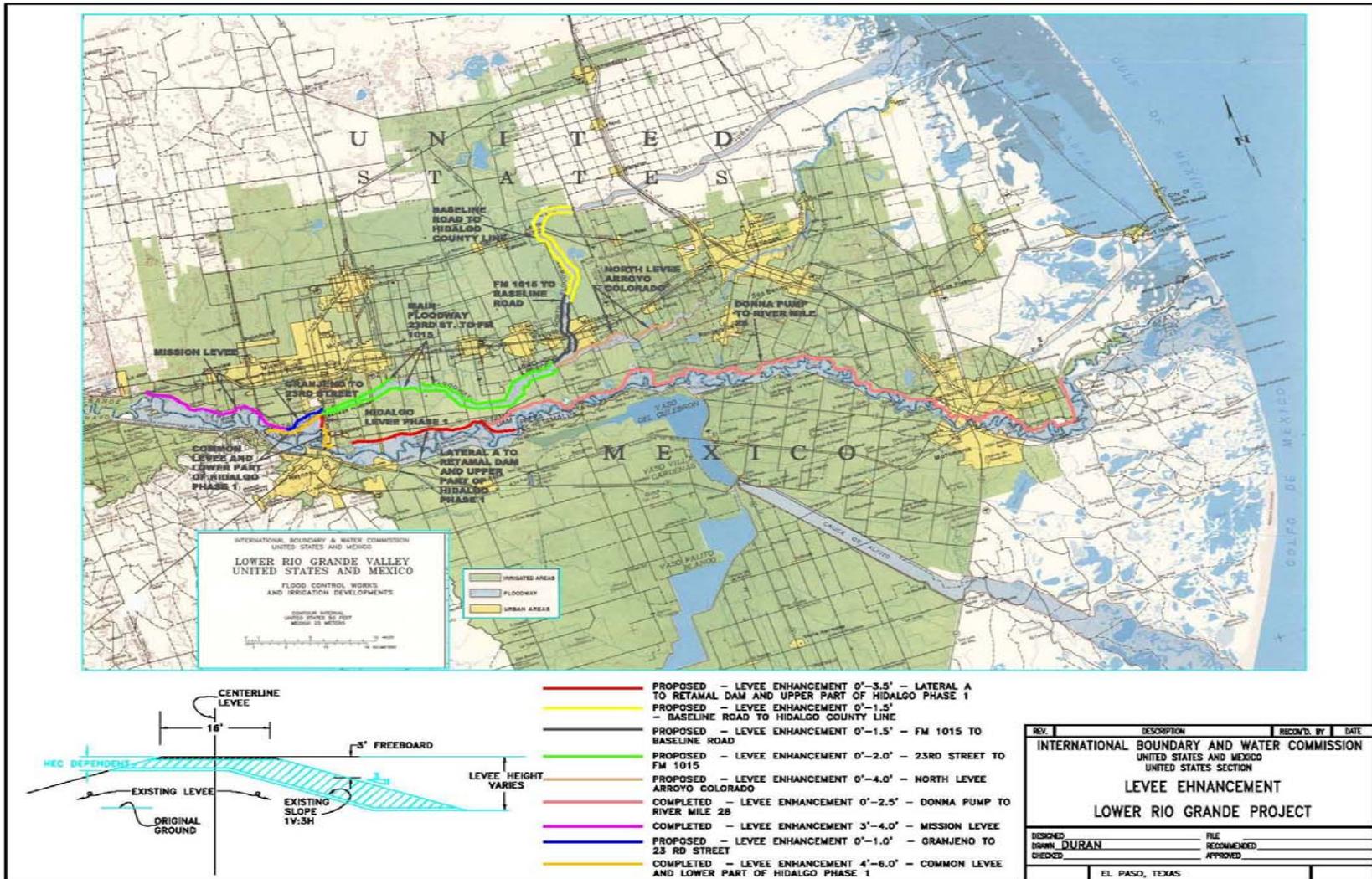
Why Perform Levee Improvements?

- FEMA is updating flood insurance rate maps
- FEMA requires levees to contain the 100-year flood with 3 ft. freeboard
- USIBWC notified FEMA in 2006 that it could not certify all levees as meeting this requirement

Recovery Act Projects

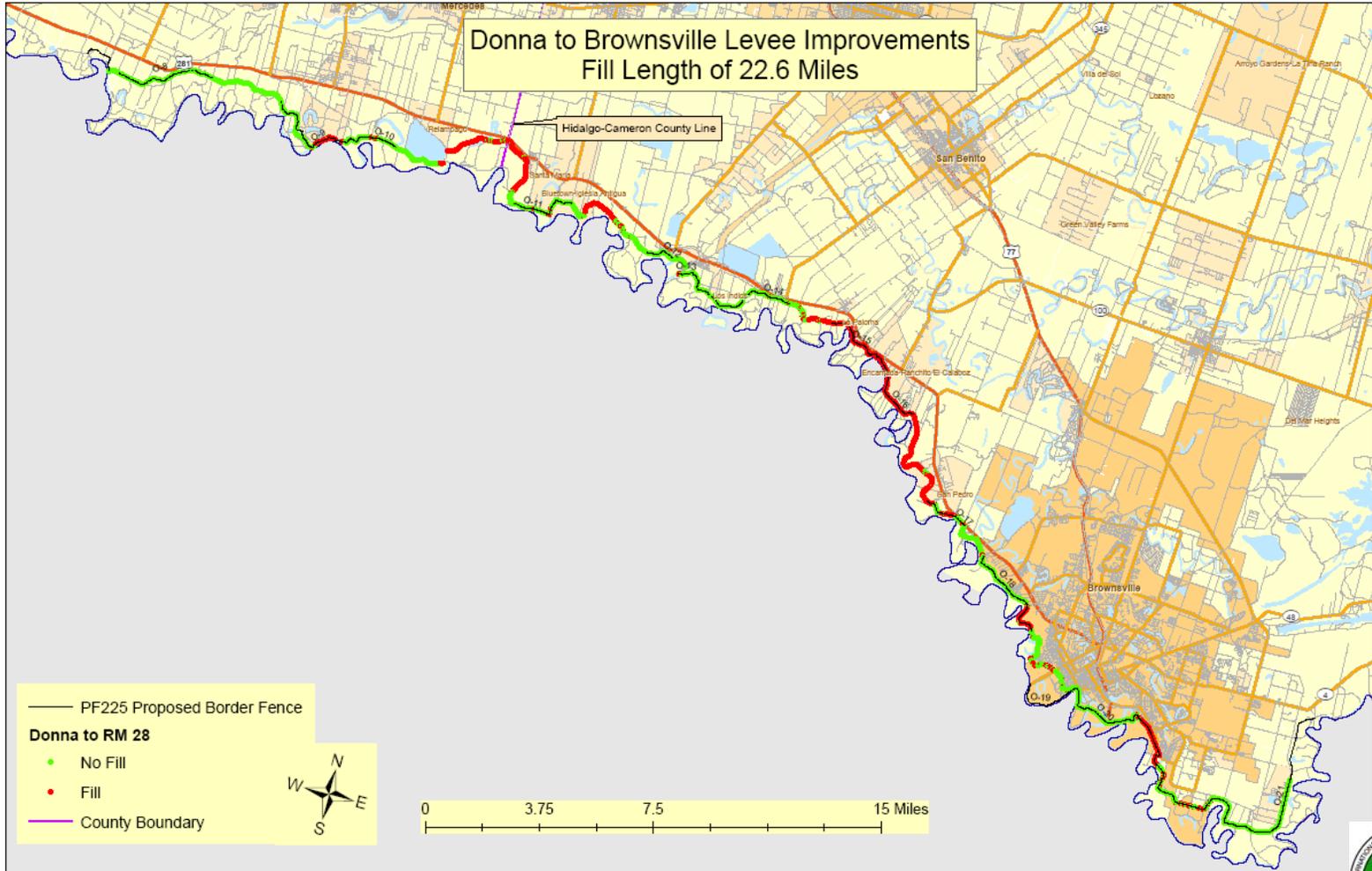


PROPOSED AND COMPLETED LEVEE ENHANCEMENT PROJECTS



REHABILITATION PROJECTS

Donna Pump to Brownsville Area

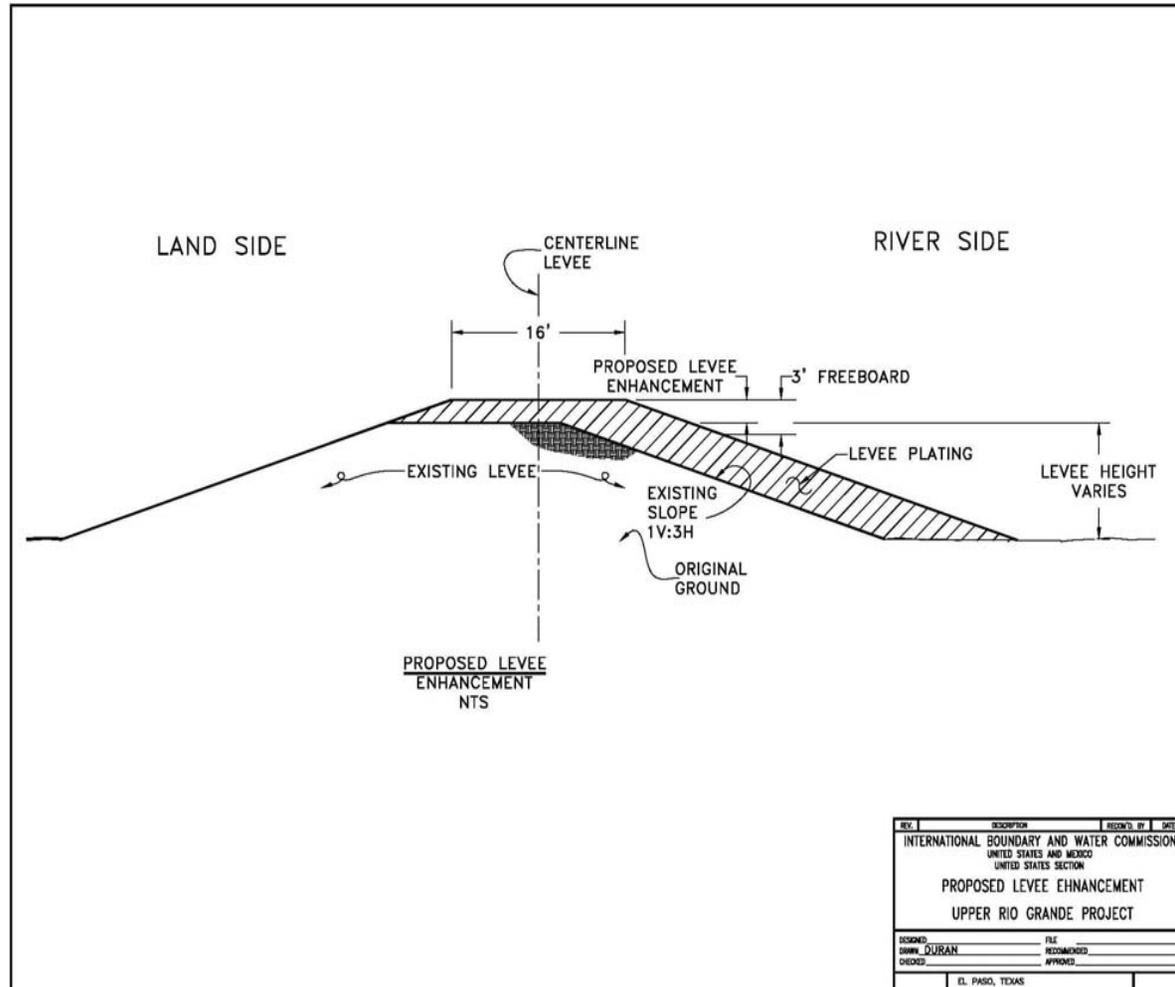


REHABILITATION PROJECTS

Peñitas to Retamal Dam



LEVEE ENHANCEMENT TYPICAL SECTION



LEVEE REHABILITATION PROJECTS

	Length, mi.
■ Lateral A to Retamal Dam	13.0
■ Edinburg Pump Channel	0.1
■ Hidalgo Phase 1	0.8
■ Granjeno to 23 rd Street	3.0
● Main Floodway 23rd St. to FM 1015	43.3
■ Main Floodway FM 1015 to Baseline Rd	14.0
■ Arroyo Colorado North Levee	
□ FM 1015 to Wilacy Canal	6.7



LEEVE REHABILITATION

Design and Out Year Project

	Length, mi.
■ Baseline Rd to County Line	23.5
■ Arroyo Colorado North Levee	
□ Wilacy Canal to White Ranch Rd.	3.7



LEVEE ENHANCMENT EQUIPMENT ON LEVEE







FEMA Contact Information

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Denton, Texas 76209

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WORK EXPECTATIONS

- Working Hours:
 - Monday – Friday 7:00 Am to 5:00 PM (Some Saturdays Possible) subject to change

- Noise: Construction Equipment

- Dirt and Dust:
 - USIBWC will manage dust

- Levee Traffic:
 - Construction Equipment/Pickups

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Contact Information

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www.ibwc.state.gov