



FORT BEND COUNTY LID 7

Serving New Territory since 1989
HARVEY UPDATE

HURRICANE HARVEY

Quick Facts for New Territory

- Category 4 Hurricane
- Mandatory Evacuation
 - 8/28/17 - 9/3/17
- Brazos River reached 55.2”
- Levee held, with no breach
- 30” of rainfall in 4 days (New Territory)
- 3 structures flooded (out of over 4600)
 - 1 home
 - 1 garage
 - 1 addition
- Street flooding and ponding
 - Normal in a significant rain event

HURRICANE HARVEY

STORM STATISTICS

- One of the most destructive storms to ever hit the United States
- Estimated over \$190 billion in damages
- 50 years since the last Category 4 hurricane hit Texas
 - (Hurricane Carla in 1961)
- 52” of rain
- 9 days of heavy rain
- Approximately 15 trillion gallons of rain
 - (Katrina - 6.5 trillion)

Communication

- www.NewTerritory.org
- Currently found under CONTACT/ LID and MUD Information
- Meeting dates and locations
- Lists Board of Directors
- Link to TCEQ
- Resident Requests
 - Hurricane Harvey Facts
 - Map of levee system (LIDAR)
 - Short and Long Term plans
 - FAQ

CURRENT LEVEE DESIGN

The levee system managed by LID 7 is currently designed to protect the residents and homes in New Territory during 3 types of severe weather situations:

- RIVER EVENT
- RAIN EVENT
- COMBINATION RIVER & RAIN EVENT

CURRENT LEVEE DESIGN

RIVER EVENT

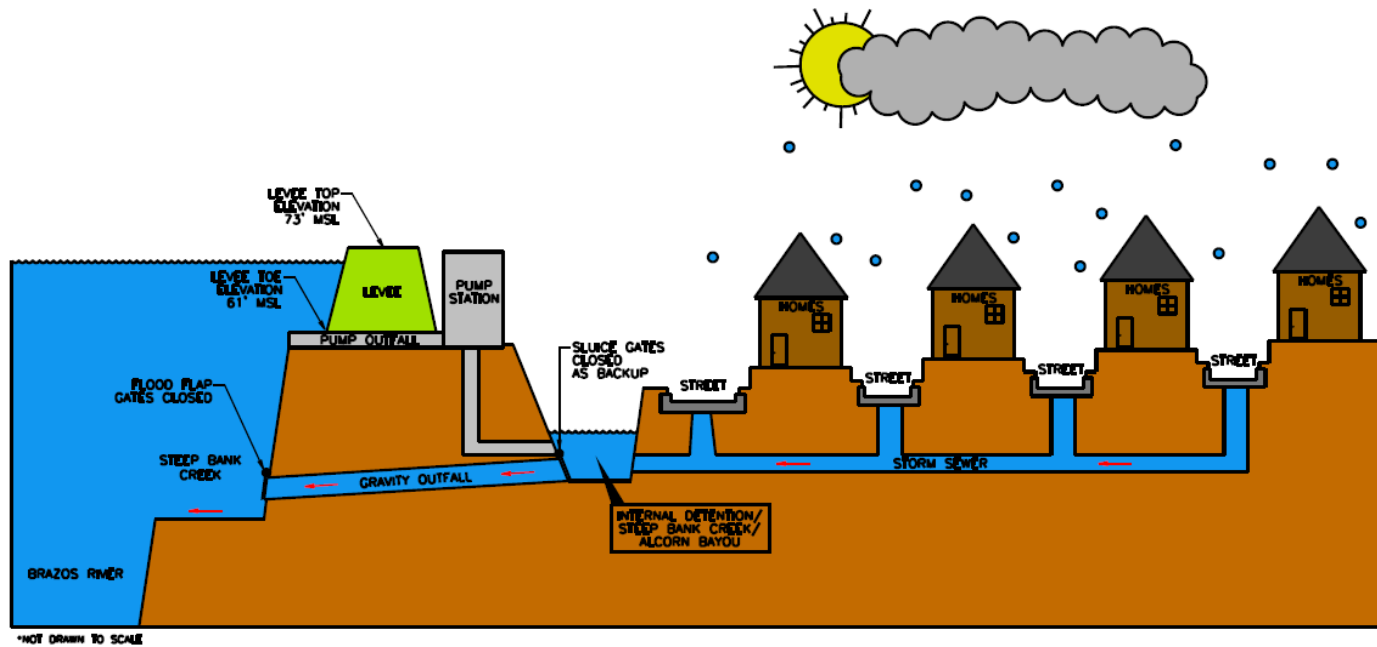
Protect New Territory residents and homes in the event of Brazos River flooding due to upstream events.

- Current levee protection is 4' above FEMA's 100-year flood event standards.
- Current natural ground protection is 2' above FEMA's 100-year flood event standards.

Brazos River Flood Levels

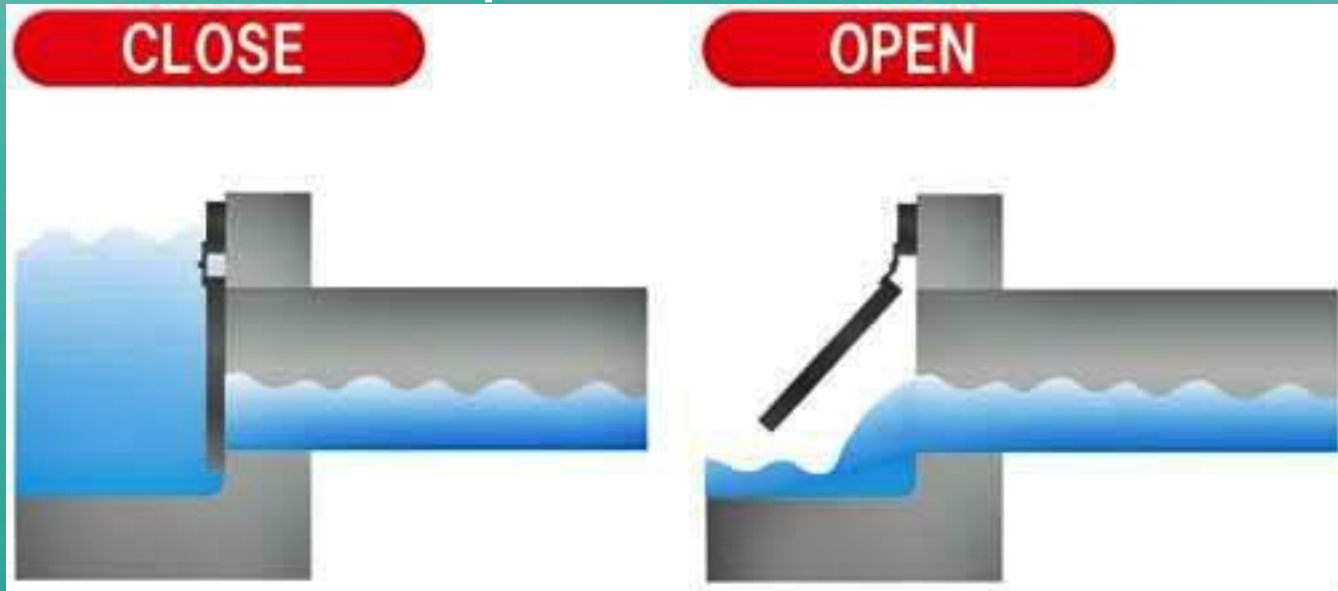
100 Year

NORMAL OPERATIONS 100YR - BRAZOS RIVER FLOOD LEVEL



Flap Gate Operation

- Flap Gates are designed to close automatically as the water level in the Brazos River rises.
- Brazos River Up Brazos River Down



CURRENT LEVEE DESIGN

RAIN EVENT

Protect New Territory residents and homes in the event of heavy rains.

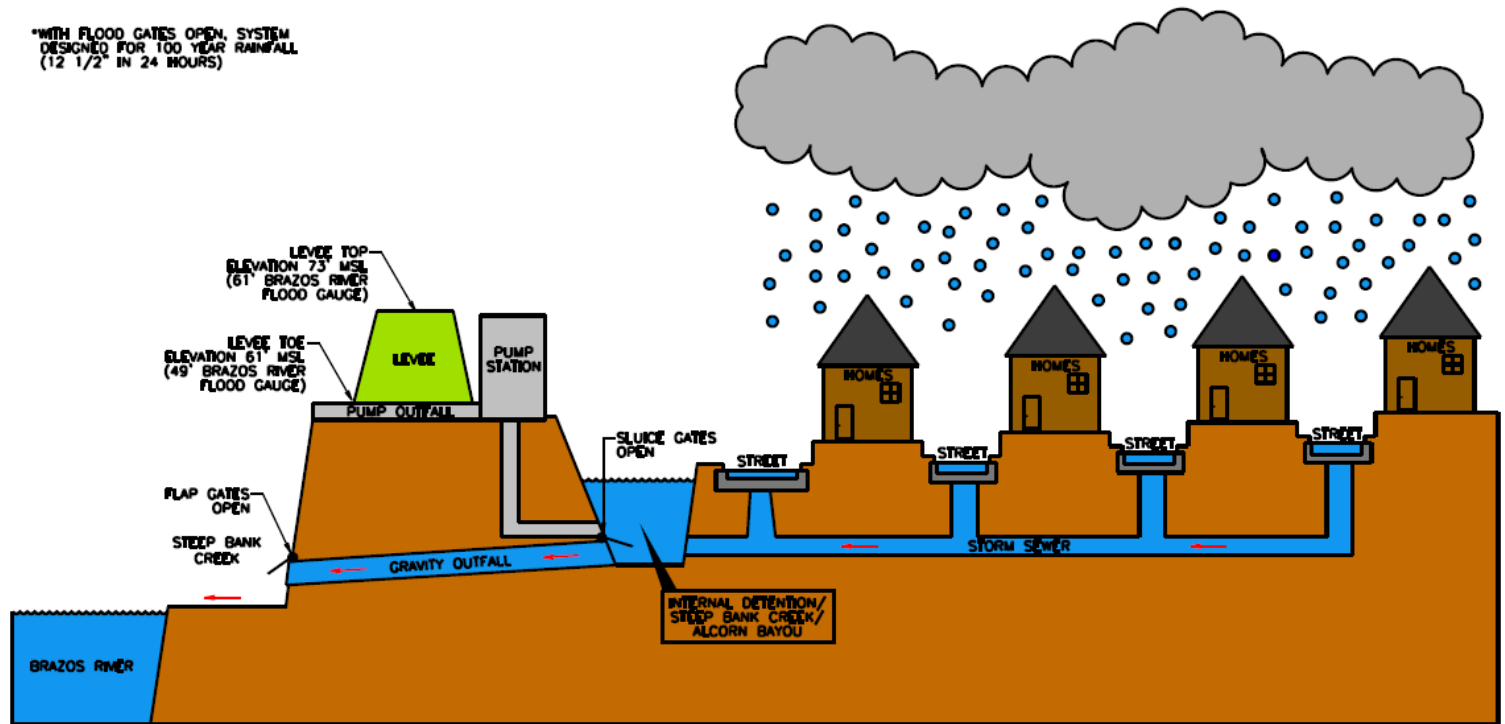
- Current system protection is designed to withstand up to 12.5" of rain in a 24-hour period.
- Assumes the river is down with no restrictions on gravity flow.

Heavy Rainfall

100 Year

NORMAL OPERATIONS 100YR - INTERNAL RAINFALL

*WITH FLOOD GATES OPEN, SYSTEM
DESIGNED FOR 100 YEAR RAINFALL
(12 1/2" IN 24 HOURS)



CURRENT LEVEE DESIGN

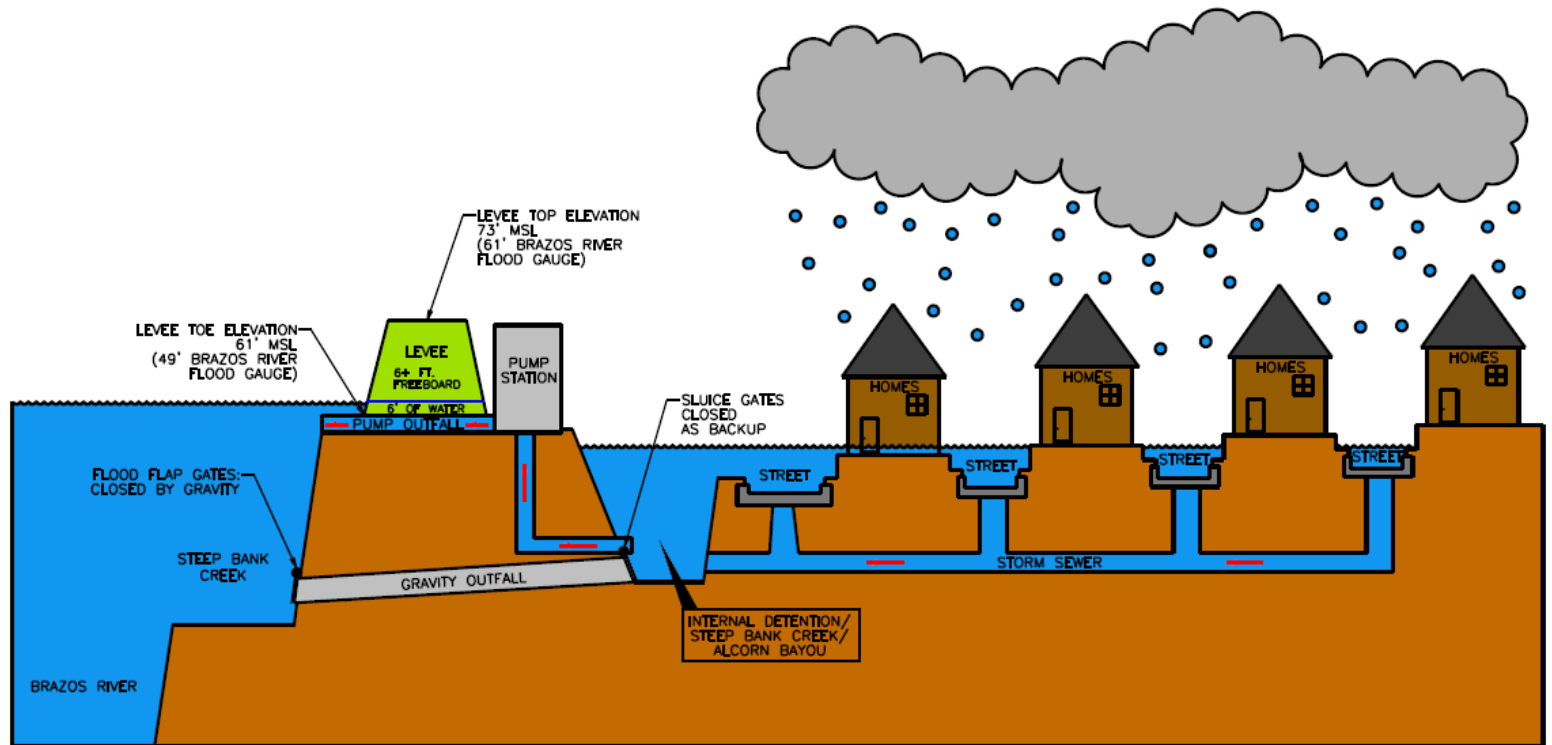
COMBINATION RIVER & RAIN EVENT

Protect New Territory in the event the Brazos River is high and there is rainfall within the district.

- Based on recent storm events, the system protection can withstand up to 30” of rain in a 48-hour period
- AND the Brazos River at flood levels of 55.2’

Heavy Rain and Brazos River at Flood Levels Combined

COINCIDENTAL EVENT OPERATIONS (HURRICANE HARVEY)



CURRENT LEVEE DESIGN

HURRICANE HARVEY

How did LID 7 protect New Territory residents and homes during this historic event?

- Utilizing the District's EAP
- Tiger Tubes
- 4 pumps with no loss of electricity.

CURRENT LEVEE DESIGN

HURRICANE HARVEY FLOODING

The flooding that occurred during Harvey was solely do to rainfall within the district. Water from the Brazos River was prevented from entering by the levee.

- 1 home
- 1 garage
- 1 addition (extra room added by homeowner)



What's Next for LID 7

PLAN OF ACTION

NEAR TERM PRIORITIES

The overarching goal of LID 7 is to protect New Territory homeowners and property while increasing property values within the district.

- Request review of all systems-REQUESTED
- Receive recommendations from engineers and system manager for “Quick Fixes”
- Request permission to issue existing bonds to fund short term updates-REQUESTED
- NE Flood Wall
- NW Levee Improvements
- Pump Station Improvements-APPROVED

LONG TERM PRIORITIES

- Determine appropriate benchmark from which to set new design guidelines.
 - Harvey + 10%?
 - River levels at 59'?
- Prevent further River Bank Erosion
- Determine Break Even of Cost vs. Level of Protection
- Keep LID 7 taxes as low as possible while increasing protection
- Prepare for Bond Election

QUESTIONS?

FBLID 7 is committed to listening to the community it serves. Please join us at our next meeting! Due to regulations, all discussions between board members **MUST** be held during open meetings, in public.

- Visit our web page on the NTRCA website! www.NewTerritory.org
- Email us any time at lid@newterritory.org
- Thank you for allowing us to serve!