



2015 Pilot Projects



Improvements Since 2015 Delmar



King Tide
September 28, 2015

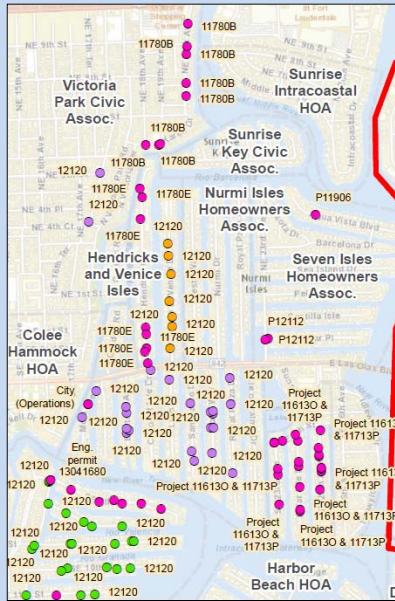


King Tide
September 29, 2015



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Retrofitting to Reduce Tidal Flooding



**116 Tidal Valves Installed
27 pending**

LEGEND

- Tidal Valve 2010-2016
- Venice Isles Tidal Valves 2016
- Rio Vista Tidal Valves 2016
- Las Olas Tidal Valves 2016
- Tidal Valves 2016-17
- City Limits

Improvements Since 2015 NE 11th Court



**King Tide
September 2015**



**King Tide
October 2016**



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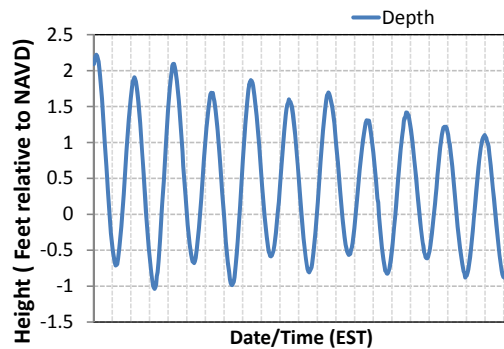
Improvements Since 2015 Las Olas Blvd



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Improvements Since 2015

Tide Measurements (10/18/16 - 10/23/16)





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Tidal Flooding on Flamingo Drive 2015

Improvements Since 2015 – Raised Electrical Panels for Pumps




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Improvements Since 2015



Adopted Seawall Ordinance
ULDR Section 47-19.3

- Sets min and max seawall elevations
- Requires maintaining seawalls in good repair
- Requires owners to prevent tidal waters entering their property from impacting others



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Breached Seawalls During King Tides

Private Owned Seawalls (24 locations)

Harbor Inlet Rio Vista
Navaro Isles Las Olas Isles
Hendricks Isles Riviera Isles
Coral Ridge
Intra-Coastal Waterway at 32d St

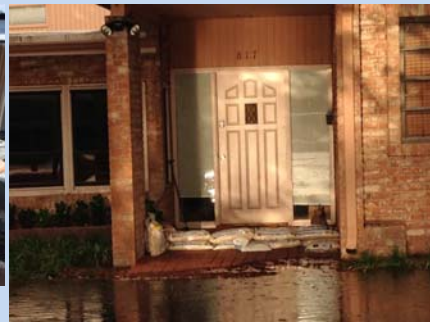
City Owned Seawalls (6 locations)

Las Olas Blvd
 Lido to San Marco Dr (100 ft)
 Coral Way to Las Olas Isles (100 ft)
Mola Dr (40 ft)
Isles of Palm Dr (888 ft)
Cordova Rd (2200 ft)
Riviera Isles (160 ft)
Rio Vista Blvd (400 ft)

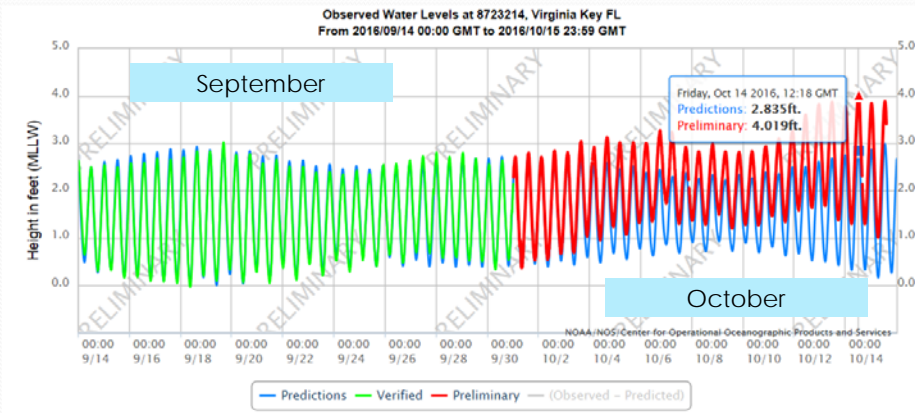


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Neighbor Investments



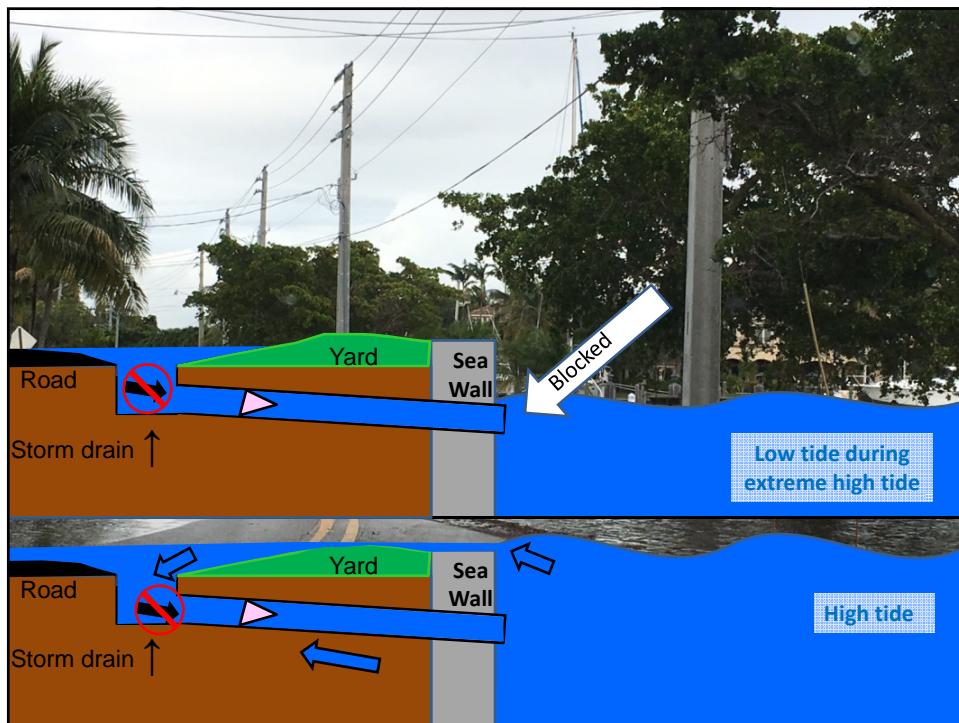
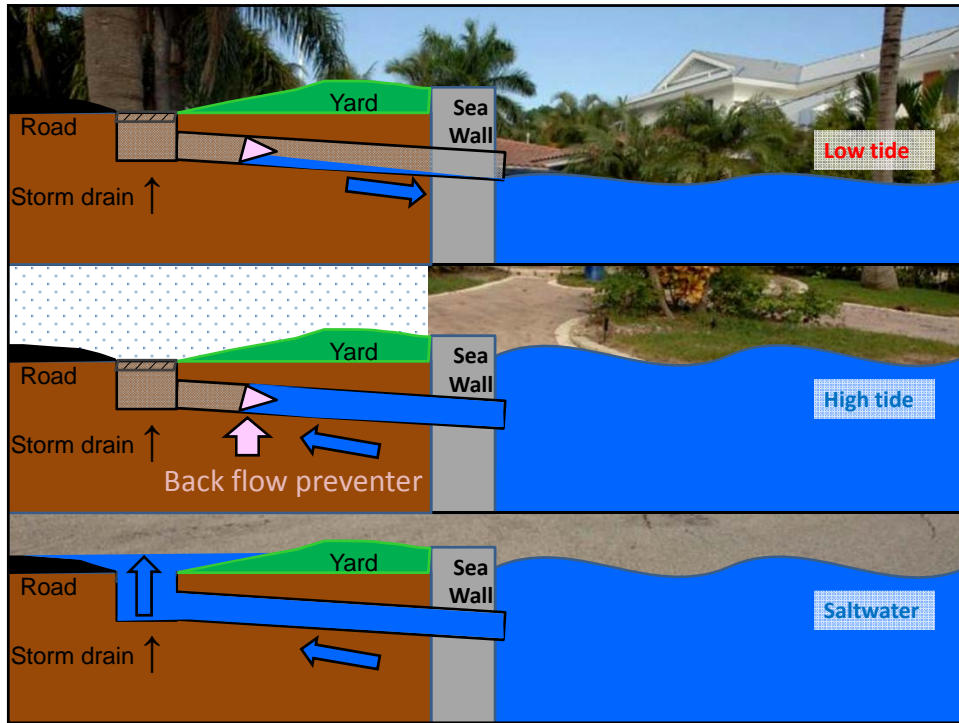
King Tide in 2016

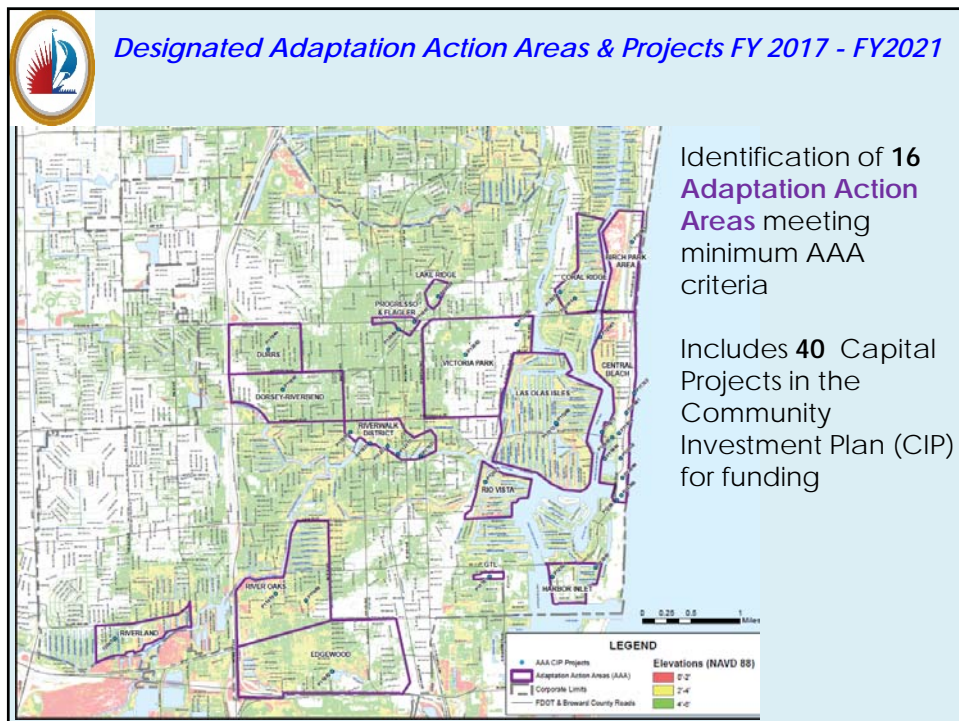



<http://tidesandcurrents.noaa.gov/waterlevels.html>




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Existing



Bringing Seawall to 4.0 ft NAVD

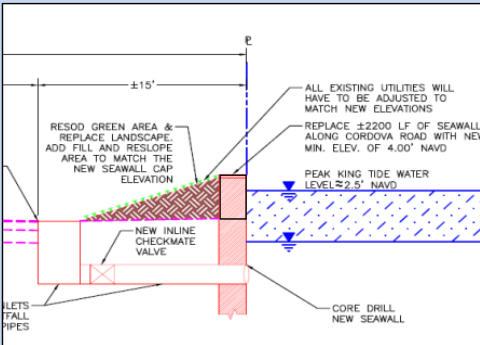


Diagram illustrating the seawall project details:

- RESOD GREEN AREA & REPLACE LANDSCAPE. ADD FILL AND RESLOPE AREA TO MATCH THE NEW SEAWALL CAP ELEVATION
- ±15'
- ALL EXISTING UTILITIES WILL HAVE TO BE ADJUSTED TO MATCH NEW ELEVATIONS
- REPLACE ±2200 LF OF SEAWALL ALONG CORDOVA ROAD WITH NEW MIN. ELEV. OF 4.00' NAVD
- PEAK KING TIDE WATER LEVEL ±2.5' NAVD
- NEW INLINE CHECKMATE VALVE
- LET'S FALL PIPES
- CORE DRILL NEW SEAWALL

**Example:
Cordova Road**


**Estimated Project Cost
2200 LF New Seawall**

\$ 4,946,580


CITY OF FORT LAUDERDALE

WE ARE READY

We are a resilient and safe coastal community.



Questions?



Public Works Department