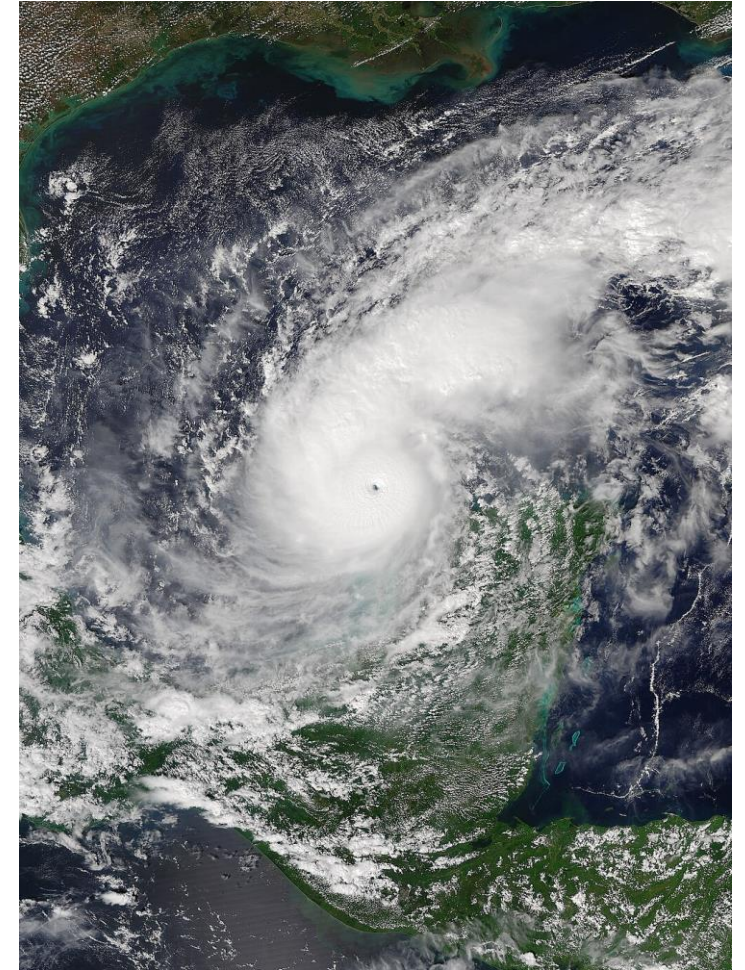


# HURRICANE PREPAREDNESS PUBLIC WORKS

June 2025

# REMEMBER WHEN

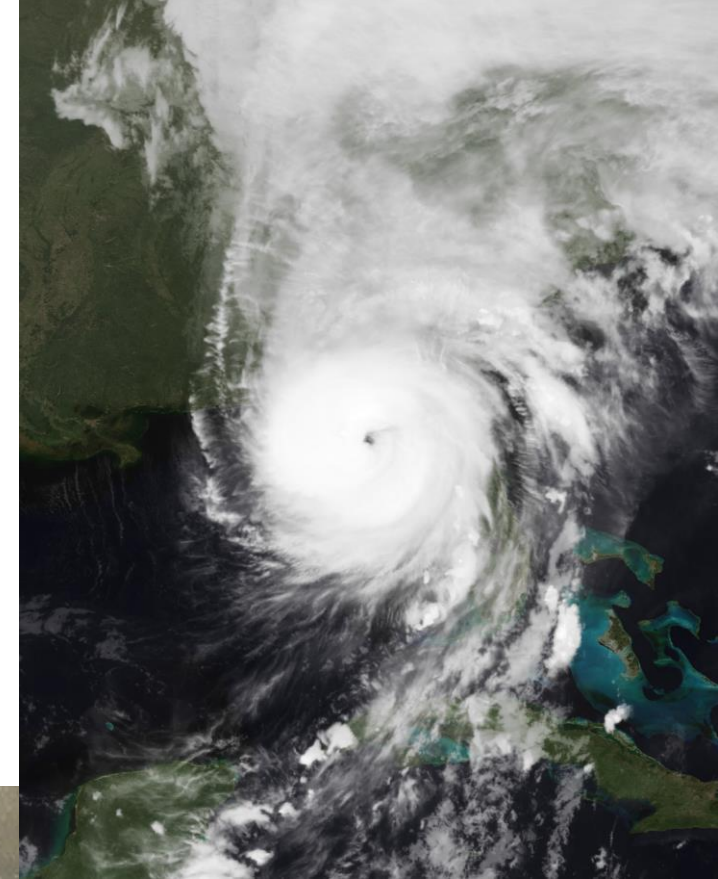
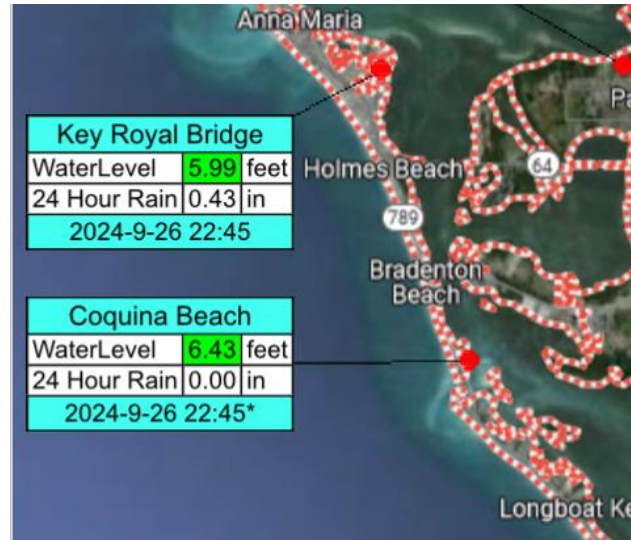
1. Hurricane Debby August 4<sup>th</sup>
2. 200-year storm August 22<sup>nd</sup>  
**5" of Rain** in 30 Minutes
3. 100-year storm August 29<sup>th</sup>  
**3 to 4" of Rain** in 30 Minutes
4. Hurricane Helene September 26<sup>th</sup>  
**6.0' NAVD or ~7' Storm Surge**
5. Hurricane Milton October 9<sup>th</sup>  
**4.8' NAVD or ~5.5' Storm surge** and Cat 3 winds





# HURRICANE HELENE – September 26th

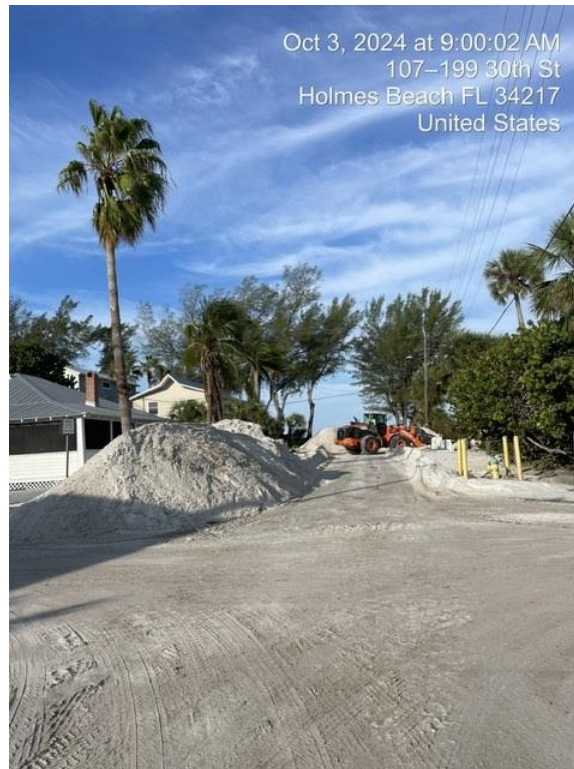
- 7' Storm Surge
- 4' + Sand
- Road Damage
- Flooding Damage





# HURRICANE HELENE

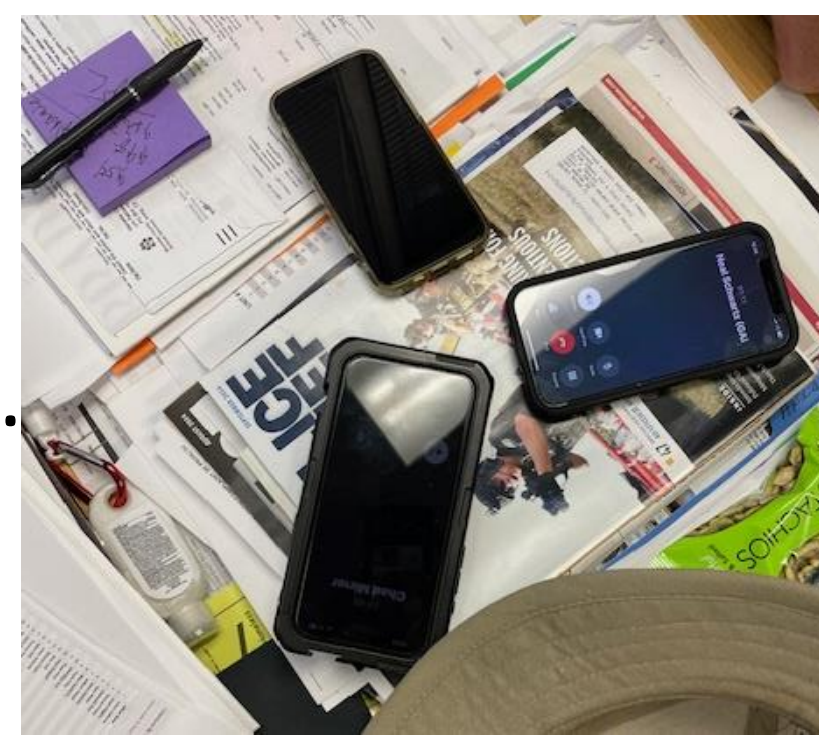
- Began Pushing Sand off Roadways Immediately (Manatee Co and City)
- Barricading Hazards
- Began Prepping Long Term Debris Removal





# STORM PREPARATION MILTON (ROUND 3)

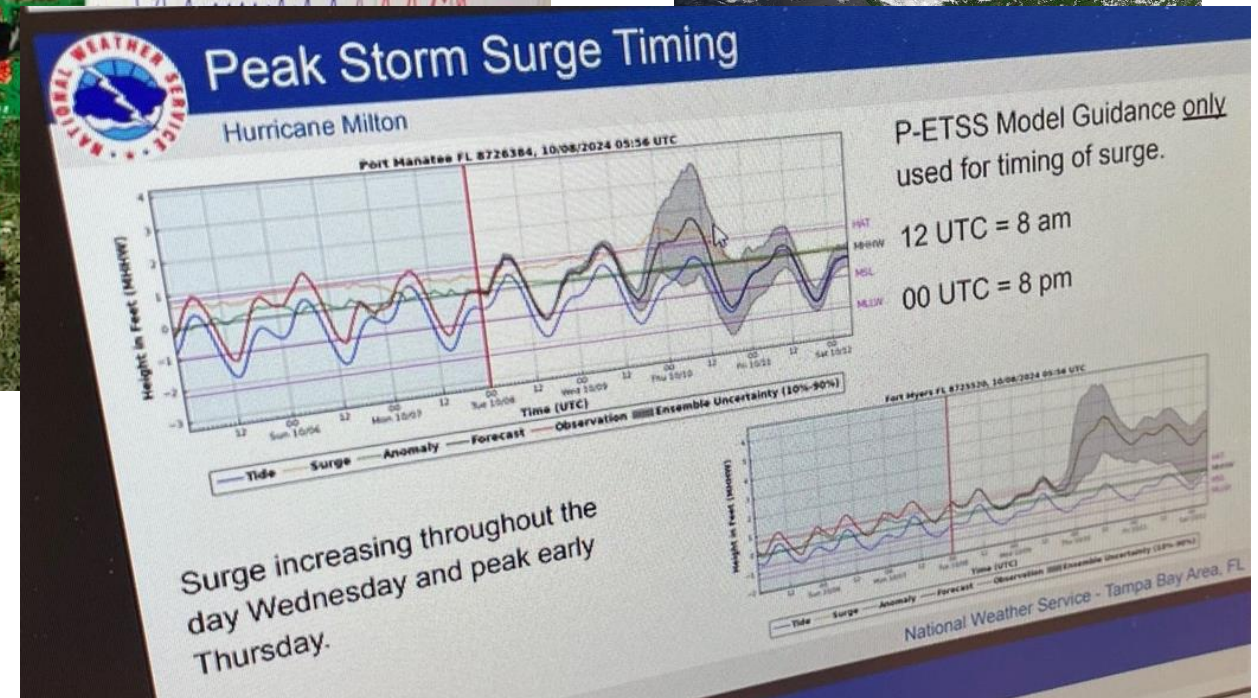
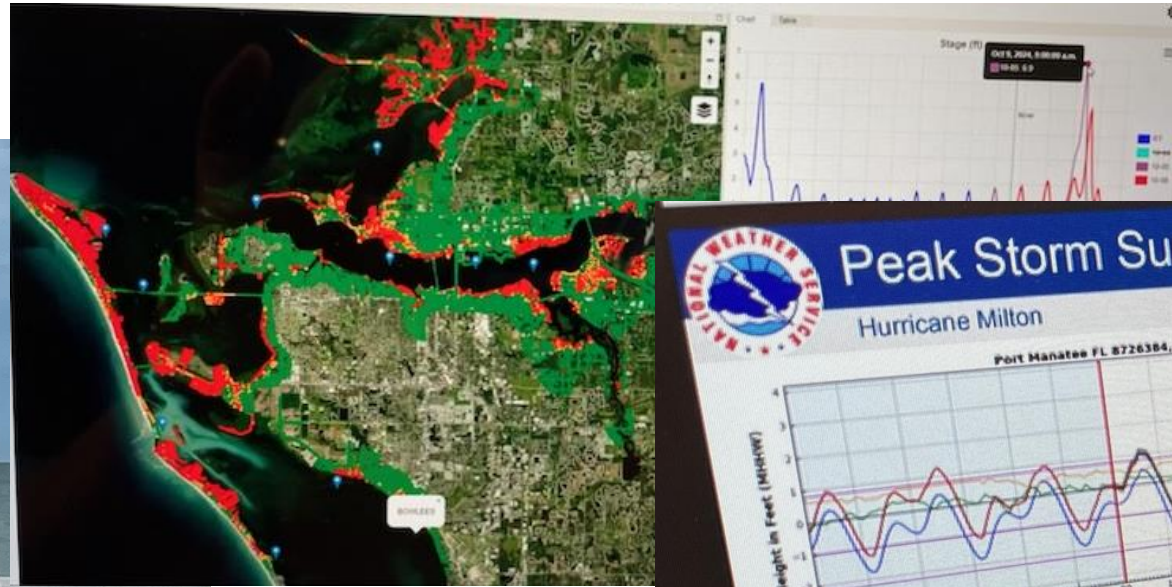
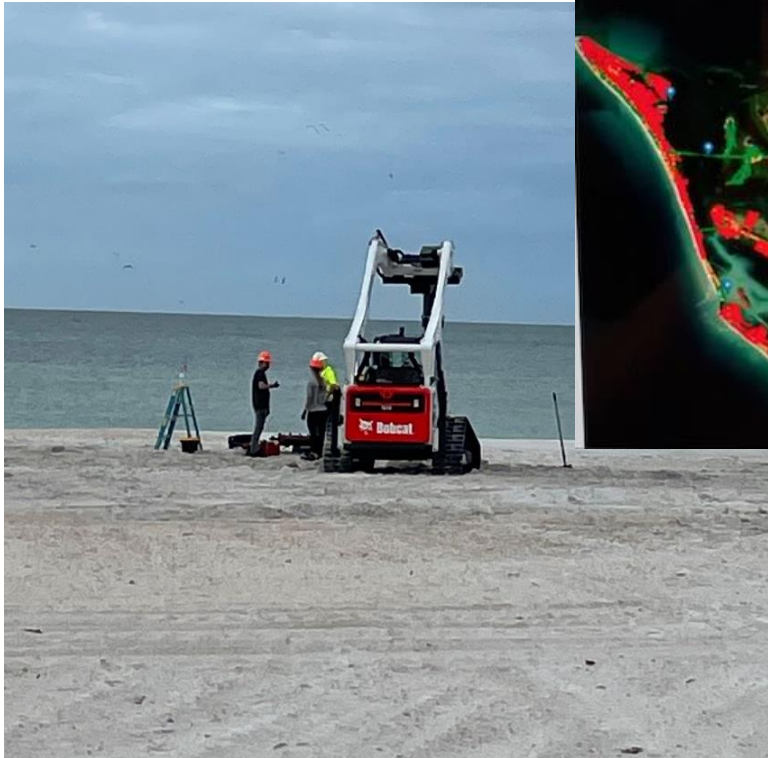
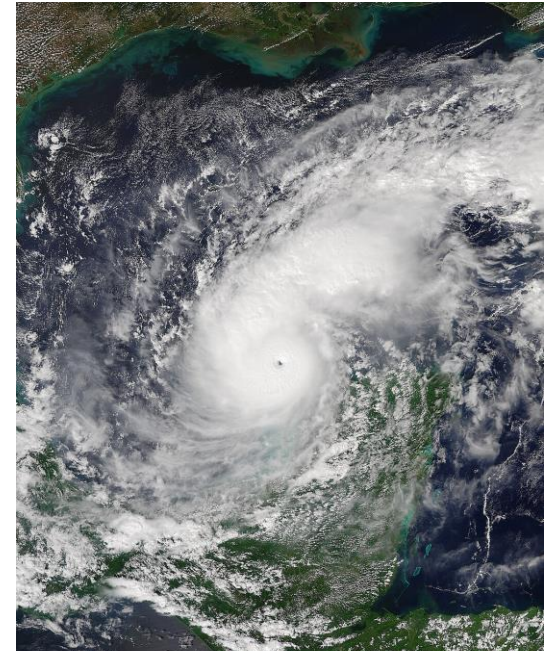
- Transitioned To Urgent Debris Removal
- City Staff, Contractors, FDOT, County, etc.
- Storm Drain and Pipe Cleaning
- Focus Was Urgency





# HURRICANE MILTON

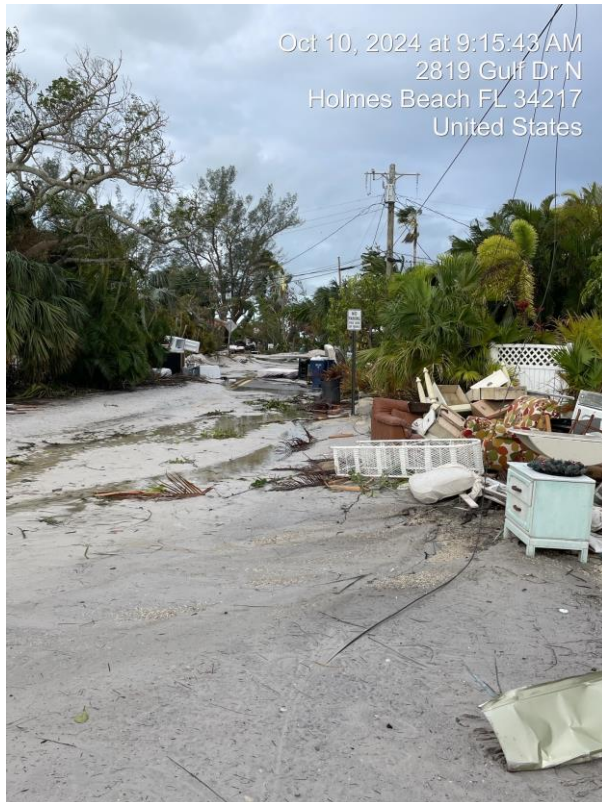
- Category 3 Winds
- Added Vegetative and Wind Damage Debris





# HURRICANE MILTON

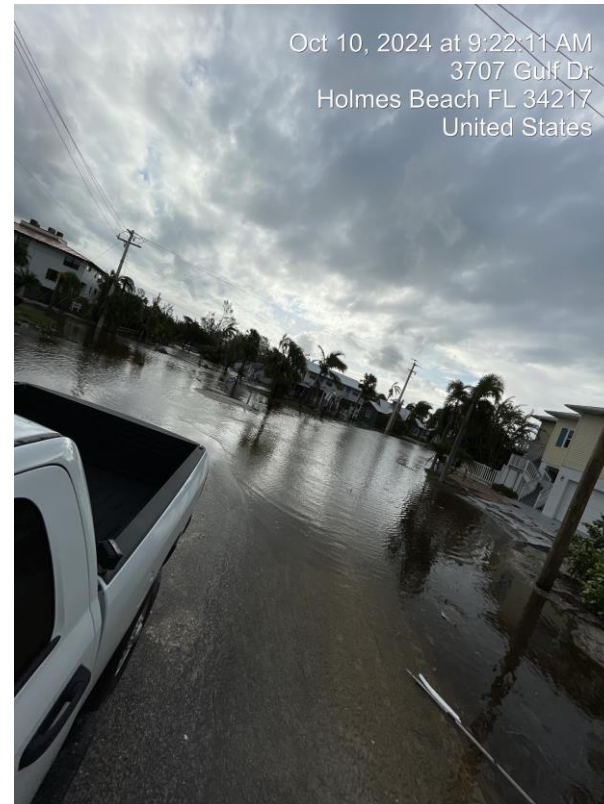
- First Push Teams Initial Assessment
- Open Roadways and Clear Debris for Re-Entry PD, PW, SAR, FD





# HURRICANE MILTON

- Down Trees, Powerlines, Flooding, and Debris





# HURRICANE MILTON RECOVERY

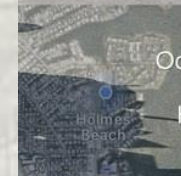
- Incident Management Team Support
- Debris First Push Finished Day 1
- City PW Prepped Debris Site





# HURRICANE RECOVERY

- Debris Removal – from City Limits to Debris Site, Debris Site to Lena Landfill, Sand to Manatee County Coquina Park
- Removed over 127,000 CY (5,389 Loads) Debris and Sand. **23.9 Football Fields, 3' deep.**



Oct 19, 2024 at 10:12:36 AM  
5909 Flotilla Dr  
Holmes Beach FL 34217  
United States



# FEMA Hurricane Reimbursements

## Ian

- Requested \$328,399.84
- Received \$328,399.84

## Idalia

- Requested \$14,782.41
- Received \$14,782.41

## Debby

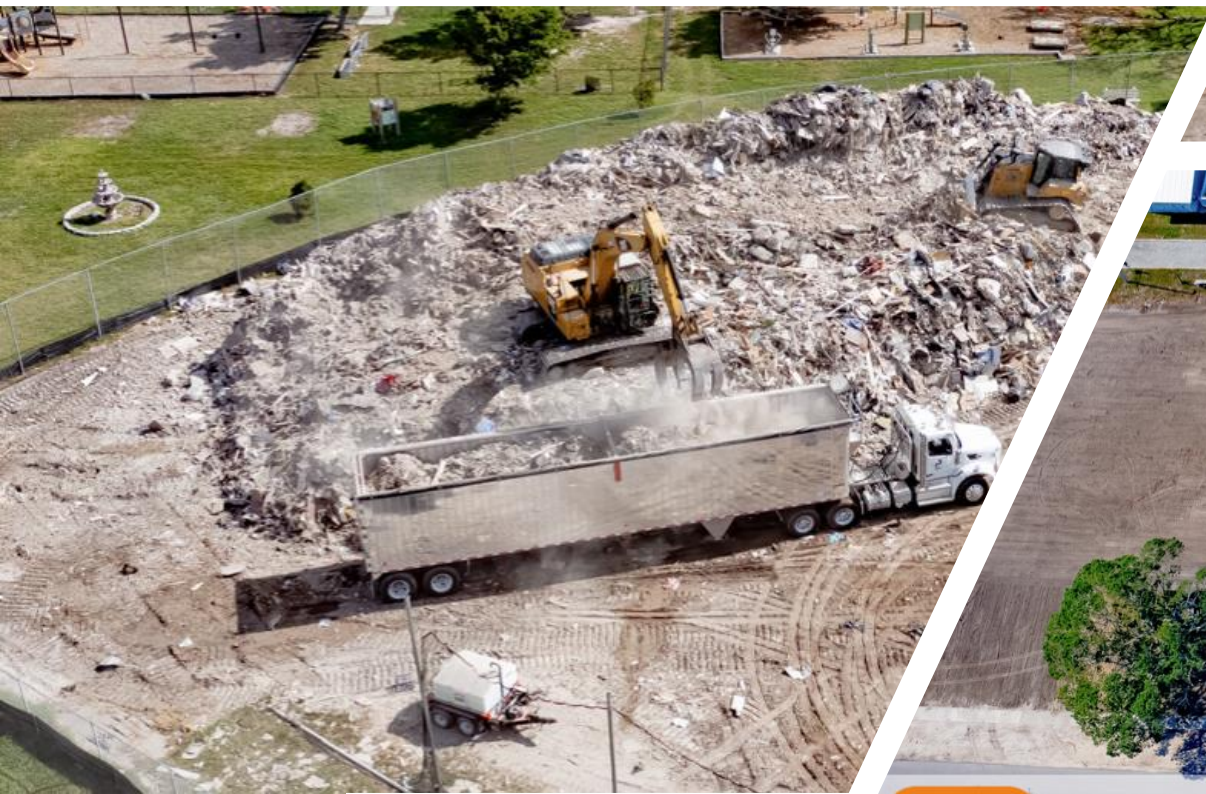
- Requested \$ 25,009.30
- Received \$ 23,657.45 to date

## Helene and Milton

- C&D and Sand Debris 104,456.50 CY
- Vegetative Debris 22,726.10 CY
- Total Debris 127,182 CY
- Requested \$2,883,328.93
- Received \$2,358,216.08 to date









# HURRICANE RECOVERY – MAJOR RECONSTRUCTION

- 15 Road Segments
- 3 Major Sidewalk Segments
- 5 Tidal Check Valves
- 3 RRFBs
- 7 Stormwater Swales
- 4 Miles of Infiltration

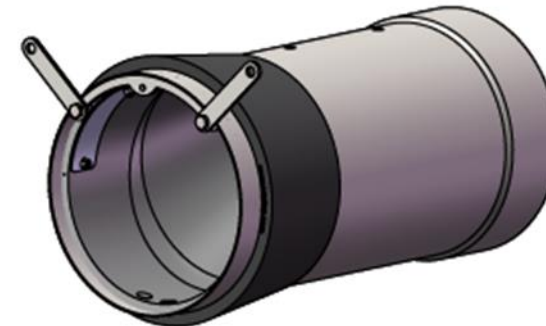
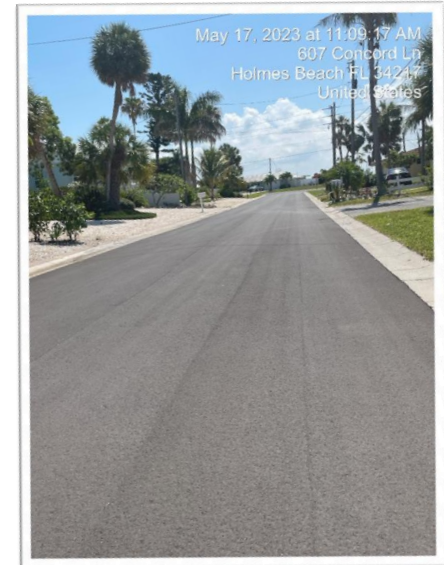




# Public Works By the Numbers

3.9 miles  
10.7 miles  
2.5 miles  
125  
24  
1,069  
166  
76  
40  
109  
7.1 Miles  
32.9 Miles  
0.5 Miles  
4  
322  
3.9 miles  
11(2,632 LF)  
25

Infiltration Trenches  
Storm Pipe  
Ditches/Swales  
Storm Pipe Outfalls  
Tide Valve/Wastop Outfalls  
Storm Structures  
Memorial Benches (44 found)  
Boat Slips  
Parks/Islands  
Carpentry Structures  
Mowing & Edging  
Road Centerline  
Unpaved Roads  
Traffic Signals  
Regulatory and Warning Signs (and Counting)  
Sidewalks  
City Seawalls  
Rolling Stock: Vehicles and Equipment



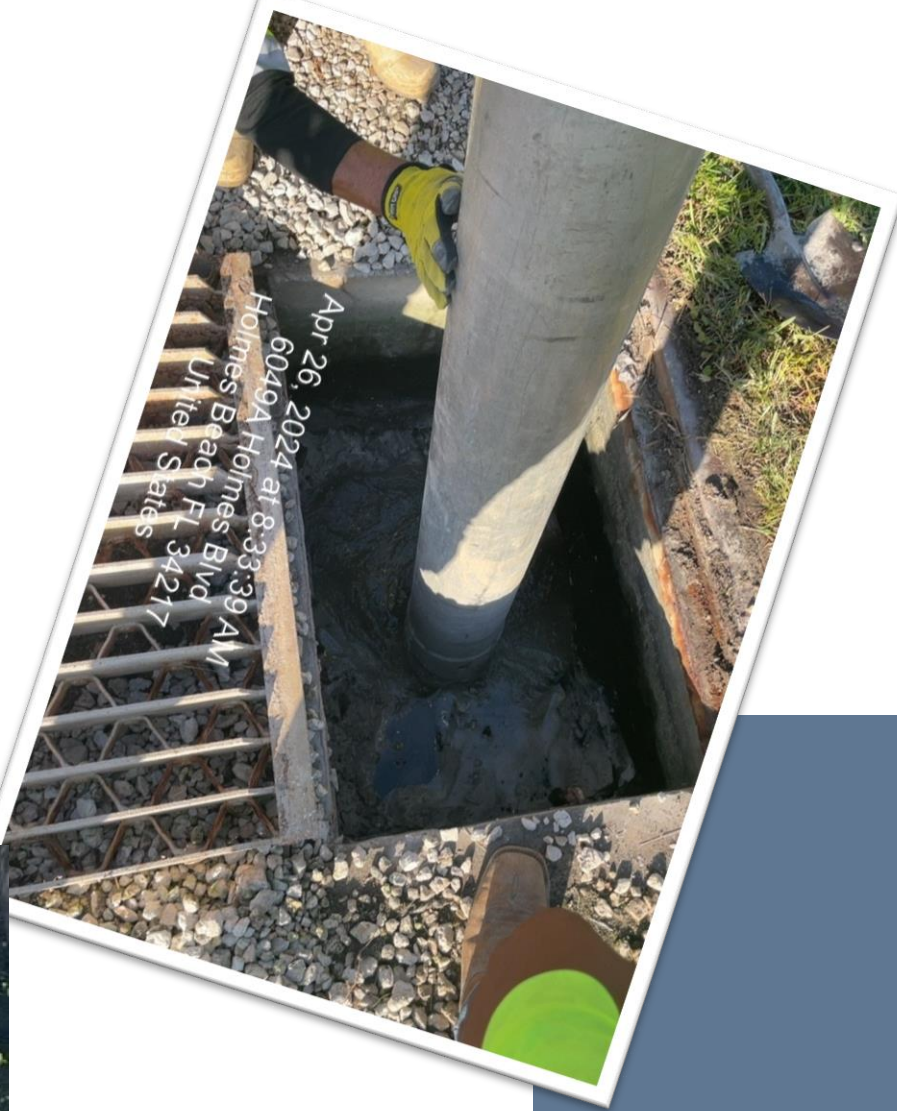


# Emergency Preparation

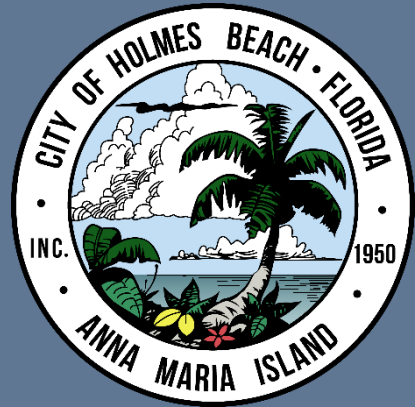
## Pre-Award Contracts and Emergency Op Plan

- Emergency Planning/FEMA PA Assistance
- Debris Hauling
- Debris Monitoring
- General Labor
- Waterway Transportation
- Emergency Sheltering
- Turnkey Insurance Policy

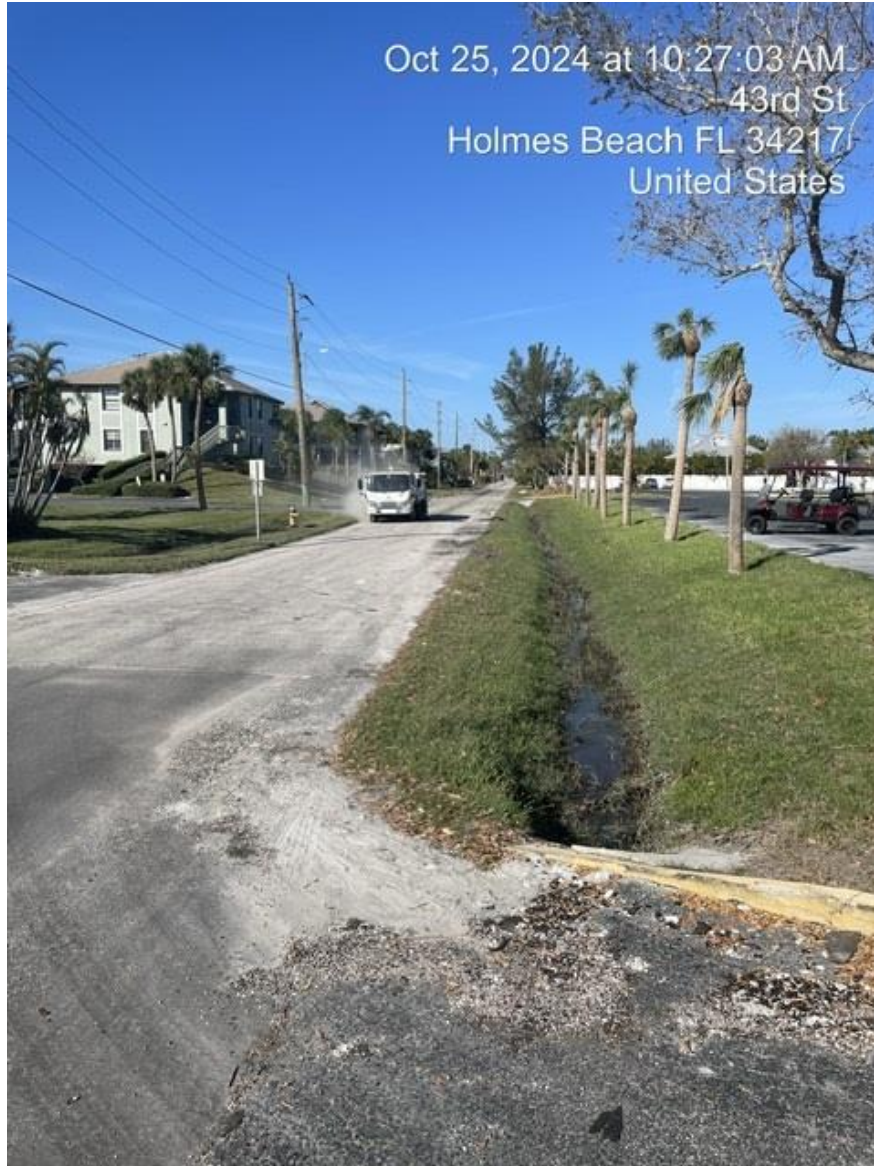




# Stormwater Pipe Cleaning







# City-Wide Street Sweeping







7/26/24, 11:56 AM  
+27.510974,-82.71477  
6001 Marina Dr  
Holmes Beach FL 34217  
United States



May 5, 2025 at 8:10:03 AM  
6001 Marina Dr  
Holmes Beach FL 34217  
United States



6001 Marina Dr  
Holmes Beach FL 34217  
United States  
City Of Holmes Beach City Park





# Mutual Aid





# Debris Removal Guidelines





# Storm Surge Pole

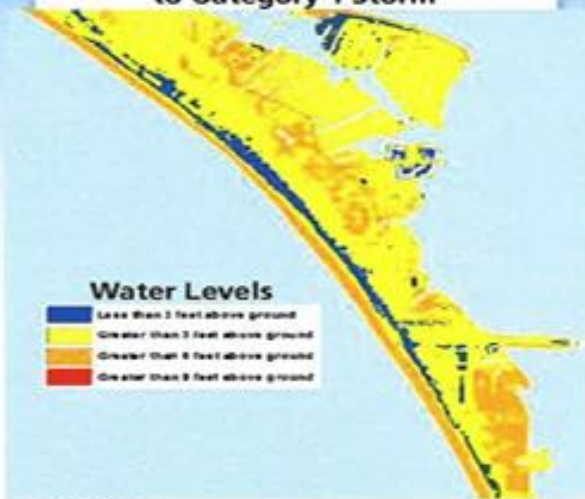


Run from **Water**. Hide from **Wind**.

## STORM SURGE

can be the greatest threat to life and property during any coastal storm. Storm surge is the abnormal rise of water generated by a storm over and above the normal tide. It happens when the winds of a coastal storm push water onto land. Large and destructive waves can ride in on top of the surge. Storm surge can occur year round.

Predicted Water Level Risk Due to Category 1 Storm



The pole provides a way to visualize how high water could rise above the ground during a severe weather event. The colors are those used on Potential Storm Surge Flooding Maps which forecasts how high surge may rise.

The National Weather Service issues flood related watches and warnings along with potential storm surge flooding maps.

*These predict how many feet of water to expect above normally dry ground.*

*This information should only be used as a tool for general education and awareness of the storm surge hazard.*

View forecasts and flood impact information at [weather.gov](http://weather.gov) or [hurricanes.gov](http://hurricanes.gov)



[weather.gov](http://weather.gov)  
[hurricanes.gov](http://hurricanes.gov)  
[nhc.noaa.gov/surge/](http://nhc.noaa.gov/surge/)

