



# LAUDERTRAC



## INFRASTRUCTURE AND RESILIENCE UPDATE

Tracking Progress on Fort Lauderdale Commission Priorities for 2022

March 2022

### INVESTING IN OUR FUTURE

The City Commission has listed Infrastructure and Resilience as one of four top priorities for 2022. In doing so, the Commission continues to recognize the need to identify and implement improvements that will address infrastructure needs relating to water, wastewater, stormwater, and the public rights-of-way, as well as resilience needs relating to extreme weather events, greenhouse gas reduction, and sea level rise. To address this Commission Top Priority, staff will focus on improvements to seven major categories:

- ▶ Water Treatment and Distribution
- ▶ Wastewater Collection and Treatment
- ▶ Street, Roadway, Sidewalk, Seawall, and Bridge Maintenance and Replacement
- ▶ Stormwater Management
- ▶ Asset Management
- ▶ Beach Resilience
- ▶ Sea Level Rise

In addition to regular maintenance, repairs, and Community Investment Plan (CIP) Projects, the City is preparing to undertake the following major projects and initiatives:



*Hydrant flushing as part of preventative maintenance.*

#### Water Treatment and Distribution

- ▶ Complete a system-wide mapping survey of the water distribution system and implement a preventative maintenance program
- ▶ Enter into a comprehensive agreement for a Public Private Partnership to initiate the design and construction of a new water treatment plant to replace the existing Fiveash Regional Water Treatment Plant
- ▶ Continue reliability upgrades at the Fiveash Regional Water Treatment Plant to ensure plant functionality until the replacement plant is operational
- ▶ Initiate the process to issue a new \$200 million bond in 2023 to implement recommendations related to the water treatment and distribution system within the Comprehensive Utility Strategic Master Plan
- ▶ Procure a vendor to initiate the installation of Advanced Metering Infrastructure (AMI)



*Redundant sewer force main construction in Coral Ridge.*

#### Wastewater Collection and Treatment

- ▶ As part of the voluntary consent order issued by the Florida Department of Environmental Protection (FDEP), repair or replace significant portions of the wastewater system, including force mains, gravity mains, pump stations, and in-kind projects
- ▶ Initiate the process to issue a new \$200 million bond in 2023 to implement recommendations related to the wastewater collection and treatment system within the Comprehensive Utility Strategic Master Plan

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Rendering of South Ocean Drive Bridge Replacement Project.



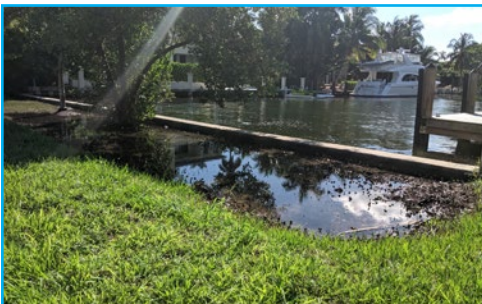
City crews respond to stormwater flooding in River Oaks using pump trucks.



Construction at Pump Station A-7 in Downtown.



Fort Lauderdale Beach dunes protected by fencing.



Seawall along Las Olas Boulevard during king tides.

## Street, Roadway, Sidewalk, Seawall, and Bridge Maintenance and Replacement

- ▶ Initiate a program to provide for resurfacing and reconstruction of alleyways
- ▶ Explore options to update roadway and sidewalk condition assessments
- ▶ Begin construction of the bridge replacement at South Ocean Drive as identified in the Bridge Master Plan
- ▶ Seek grant opportunities to accelerate the design and construction of bridge repairs and replacements identified in the Bridge Master Plan as funding becomes available
- ▶ Request transportation surtax funding and initiate bidding for construction of the West Lake Drive Bridge Repair
- ▶ Initiate an update to the Bridge Master Plan
- ▶ Initiate the design for SE 8th Street and SE 13th Street bridge replacements

## Stormwater Management

- ▶ Complete construction of Stormwater Master Plan improvements in the Edgewood and River Oaks neighborhoods
- ▶ Procure a contractor to complete Stormwater Master Plan improvements in the Durrs and Dorsey-Riverbend neighborhoods
- ▶ Pursue funding mechanisms for implementing the remainder of the Stormwater Master Plan, including bond validation and Water Infrastructure Finance and Innovation Act (WIFIA) loan funds
- ▶ Initiate the design of stormwater improvements in the Melrose Manors neighborhood
- ▶ Complete design work, permitting, procurement, and installation of back-up generators for the stormwater pumps at Storm Station 1 and 2 in the downtown area
- ▶ Implement the Watershed Asset Management Plan by clarifying the jurisdiction of stormwater infrastructure within City rights-of-way

## Asset Management

- ▶ Develop a Citywide Asset Management Policy
- ▶ Finalize the implementation of the Cityworks asset management system for wastewater and stormwater assets and initiate the work order management system
- ▶ Begin to expand the Cityworks system beyond utility horizontal assets, such as water distribution and wastewater collection pipes, to include vertical assets such as water and wastewater treatment plants

## Beach Resilience

- ▶ Support the Broward County/US Army Corps of Engineers Coastal Storm Risk Reduction Project, which provides for beach nourishment in response to Hurricane Irma's impacts to Fort Lauderdale Beach
- ▶ Using grant funds from Broward County, support an Adopt-a-Dune project on Fort Lauderdale Beach

## Sea Level Rise

- ▶ Pending approval of FDEP grant funding, initiate a vulnerability study to determine which areas of the City are most vulnerable to sea level rise
- ▶ Initiate construction of Las Olas Boulevard seawall improvements and other seawalls prioritized in Fiscal Year 2022/2023 for repair, elevation, or replacement as indicated in the Seawall Master Plan
- ▶ Adopt the Broward County Regional Tidal Barrier Elevation Standard
- ▶ Initiate the development of a policy on road elevation