



# LAUDERTRAC



## INFRASTRUCTURE UPDATE FORT LAUDERDALE

Tracking Progress on Commission Priorities for 2020

August 2020

### INVESTING IN OUR FUTURE



#### Water System Modeling Key to Future Planning

Fort Lauderdale is working with Hazen and Sawyer on a hydraulic model of the City's water distribution system. A water model is a powerful simulation tool that can help analyze a number of factors and conditions affecting the operation of a water system including flow; pressure; pipe size; valve locations; system capacity; and more. Data that will be used to build the model has already been collected and is currently being analyzed as the model is developed. Upon completion, the hydraulic model will help the City evaluate impacts on the water system from proposed developments and new connections. The information will be used to refine procedures for the water capacity allocation process for new developments. Modeling will also be used to help identify any current or potential future deficiencies in water service based on projected demands and system capacity.



#### Water Valve Maintenance Program Progressing

An ongoing water valve maintenance program is a key component of a high performing water distribution system. In the event of a water main break, knowing where valves are located, verifying they are in good working condition, and ensuring they are functioning properly, enables crews to quickly isolate water flows, and make fast and efficient repairs with minimal water service disruption. The City currently follows the American Water Works Association's (AWWA) best practices for water valve maintenance, which recommends completing a full cycle of valve inspections and maintenance every five years. Based on these guidelines, the Public Works Utilities Division is in the final stages of developing its own standard operating procedures for this important preventative maintenance program. This calendar year, crews have already inspected and exercised 3,391 (or 26%) of the system's 12,915 valves. They have also collected GPS data on approximately 11,700 valves which will be used as part of the City's mapping process to ensure accurate and precise locations of water valves.



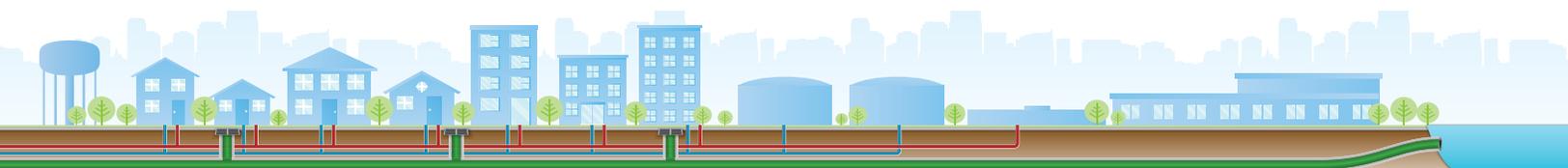
#### Stormwater Improvements for Edgewood and River Oaks

More than \$70 million in stormwater infrastructure improvements are coming to Fort Lauderdale's Edgewood and River Oaks neighborhoods. Construction plans are currently being reviewed by Broward County. Once approved, a competitive bidding process will take place, a contractor will be selected, and construction work should begin in early 2021. The combined project scope for both neighborhoods will include: 40,000 linear feet (LF) of new storm sewers; 10,000 LF of storm sewer replacement; 5,500 LF of exfiltration trench; 19,000 square yards (SY) of new swales; 35,000 SY of permeable pavement; nine water quality structures and two stormwater pump stations. It is estimated that the projects will be completed in approximately 36 months.



#### Restoration Set for Hector and Virginia Young Parks

The restoration of Hector Park and Virginia Young Park is moving forward. In the coming weeks, a contractor will begin mobilizing with materials, equipment, and supplies to prepare the sites for construction. The project scope will feature stormwater improvements that include 19 new drainage structures, 850 linear feet (LF) of new exfiltration trench, and 200 LF of new storm drain pipe. A new 8-inch water main will be installed, along with new curbing, concrete gutters, and sidewalks. Streets and roadways will be milled and resurfaced. Restoration efforts in the parks will include removing existing soil and installing new playground equipment, lighting, irrigation, artificial turf and other park amenities. Construction is expected to be substantially completed by November 2020.



# The City of Fort Lauderdale has over 150 infrastructure projects in the active stages of planning, design, bidding and construction.

Following is a snapshot of a variety of projects that are underway. To view more projects, visit LauderWorks at [www.fortlauderdale.gov/lauderworks](http://www.fortlauderdale.gov/lauderworks).

- 1. Fiveash Water Treatment Plant Improvements**  
Address: 4321 NW 9th Avenue  
This project will include replacing the carbon dioxide injection system at the Fiveash Water Treatment Plant, installing a new building roof, and other enhancements and upgrades to maintain operational reliability. Investment: \$17 million; Status: planning and design; estimated project completion in June 2022.
- 2. NE 65th Court Pump Station Replacement**  
Address: 3701 NE 65th Court  
This project will replace the existing wastewater pump station with a new duplex station with two submersible pumps. Investment: \$687,000; Status: Bidding; estimated project completion in May 2021
- 3. NE 23rd Avenue Stormwater Improvements**  
Address: 4848 NE 23rd Avenue  
Crews have successfully completed installing new stormwater infrastructure to address flooding issues at the site. Investment: \$425,000; Status: Completed
- 4. NE 25th Avenue 24-Inch Force Main Replacement**  
Address: NE 25th Avenue from Commercial Boulevard to Oakland Park Boulevard  
This project will replace approximately 5,500 linear feet of 24-inch sewer force main. Investment: \$4.78 million; Status: Design; estimated project completion in December 2022
- 5. NE 38th Street 42-Inch Force Main Replacement**  
Address: along NE 38th Street between N. Dixie Highway and Coral Ridge Country Club and along NE 19th Avenue between NE 38th Street and NE 32nd Street  
The first phase of this project will consist of replacing approximately 8,000 linear feet of 42-inch sewer force main. Investment: \$11 million; Status: Design; estimated project completion in June 2023
- 6. Bermuda Riviera Water Main Improvements**  
Address: 63 Fort Royale Isle  
This project is replacing existing water mains with approximately 25,000 linear feet of new 8-inch water mains. Investment: \$4.9 million; Status: Construction; the project is 98% complete and is estimated to be finished in August 2020
- 7. Coral Shores Water Main Improvements**  
Address: 2884 NE 21st Street  
This project will replace existing water mains with approximately 6,200 linear feet of new 6-inch water mains. Investment: \$1.8 million; Status: Bidding; estimated project completion in October 2020
- 8. Victoria Park North Water Main Improvements**  
Address: NE 7th Street and NE 19th Avenue  
Crews have successfully replaced approximately 26,500 linear feet of existing water mains with new 6-inch and 8-inch water mains and improved fire hydrant coverage. Investment: \$6 million; Status: Completed
- 9. Victoria Park South Water Main Improvements**  
Address: the area generally bounded by NE 6th Street, Broward Blvd., Federal Hwy., and Victoria Park Road.  
This project is replacing approximately 29,000 linear feet of existing water mains with new 6-inch and 8-inch water mains and improving fire hydrant coverage. Investment: \$7 million; Status: Construction; estimated project completion in January 2021
- 10. Victoria Park Sewer Basin Rehabilitation**  
Address: 625 NE 19th Avenue  
This project is rehabilitating mainline sewers, manholes, and service laterals in Victoria Park. Investment: \$7 million; Status: Construction; estimated project completion in December 2020
- 11. Isle of Palms Seawall Replacement**  
Address: Isle of Palms Drive  
This project is replacing the Isle of Palms seawall which was identified in the Seawall Master Plan as the top priority seawall replacement within the City. Investment: \$2.8 million; Status: Construction; estimated project completion in August 2020
- 12. Flagler Heights Sewer Basin Laterals**  
Address: 630 NE 2nd Avenue  
This project is rehabilitating sewer laterals in the Flagler Heights Sewer Basin. Investment: \$2.6 million; Status: Construction; estimated project completion in December 2020
- 13. Bridge Replacement at South Ocean Drive**  
Address: South Ocean Drive  
This project will replace an existing bridge on South Ocean Drive in the Harbor Beach area. Investment: \$3.6 million; Status: Bidding; estimated project completion in August 2021
- 14. Bridge Replacement at Coconut Isle**  
Address: Coconut Isle Drive  
This project is replacing the existing Coconut Isle Bridge in the Las Olas Isles neighborhood. Investment: \$2 million; Status: Construction; estimated project completion in January 2021
- 15. Dorsey-Riverbend Sanitary Sewer Collection System Rehabilitation**  
Address: 1410 NW 4th Street  
This project is rehabilitating the sanitary sewer collection system located in the Dorsey-Riverbend neighborhood. The project scope includes relining the sanitary sewer collection mains and laterals. Investment: \$8 million; Status: Construction; estimated project completion in September 2020
- 16. Riverland Road Area Pump Station Replacements**  
Address: Riverland Road area at SW 37th Avenue and Fairfax Drive  
This project will replace the existing pumps at the Riverland Road Pump Station with higher capacity models. Station piping valves and the wet well will be upgraded as necessary. Investment: \$350,000; Status: Design; estimated project completion in February 2022
- 17. Effluent Pumps Standby Generator & Administration Building Improvements**  
Address: 1765 SE 18th Street  
This project will make significant upgrades to the George T. Lohmeyer Wastewater Treatment Plant including installing a 10 megawatt gas-turbine emergency generator to operate the effluent pumps. Investment: \$400,000; Status: Project initiation and planning; estimated project completion in October 2023
- 18. Harbour Inlet Area Force Main Upsizing**  
Address: Harbour Inlet Drive from A1A to Barbara Drive and along Barbara Drive from Harbour Inlet Drive to the Stranahan River  
This project will replace the existing 8-inch and 10-inch force mains with approximately 2,000 linear feet of new 12-inch force main. Investment: \$1.5 million; Status: Bidding; estimated project completion in November 2024
- 19. Tarpon River Sewer Basin Rehabilitation**  
Address: 112 SW 7th Street  
This project includes the rehabilitation of main line sewers utilizing trenchless technology, as well as road restoration and landscaping. The project is part of the Wastewater Conveyance System Long Term Remediation Program. Investment: \$1 million; Status: Design; estimated project completion in June 2021
- 20. 1716 SE 7th Street Stormwater Improvements**  
Address: 1716 SE 7th Street  
This project includes the installation of stormwater infrastructure which will enhance drainage and help alleviate stormwater flooding. Investment: \$382,000; Status: Project initiation and planning

✓ **21. Rio Vista Emergency Force Main Replacement**  
 Address: SE 9th Avenue and SE 10th Street  
 Crews successfully installed a new force main in the Rio Vista neighborhood and connected it to the existing 54-inch line.  
 Investment: \$3.5 million; Status: Completed

**22. Redundant Sewer Force Main Project**  
 Address: From 1765 S.E. 18th Street to Bayview Drive and NE 37th Street  
 Crews are installing a new 7.5 mile wastewater transmission line from the wastewater lift station near Bayview Drive and NE 37th Street to the G.T. Lohmeyer Wastewater Treatment Plant (GTL) on SE 18 Street. Investment: \$65 million; Status: Construction; estimated project completion in June 2021

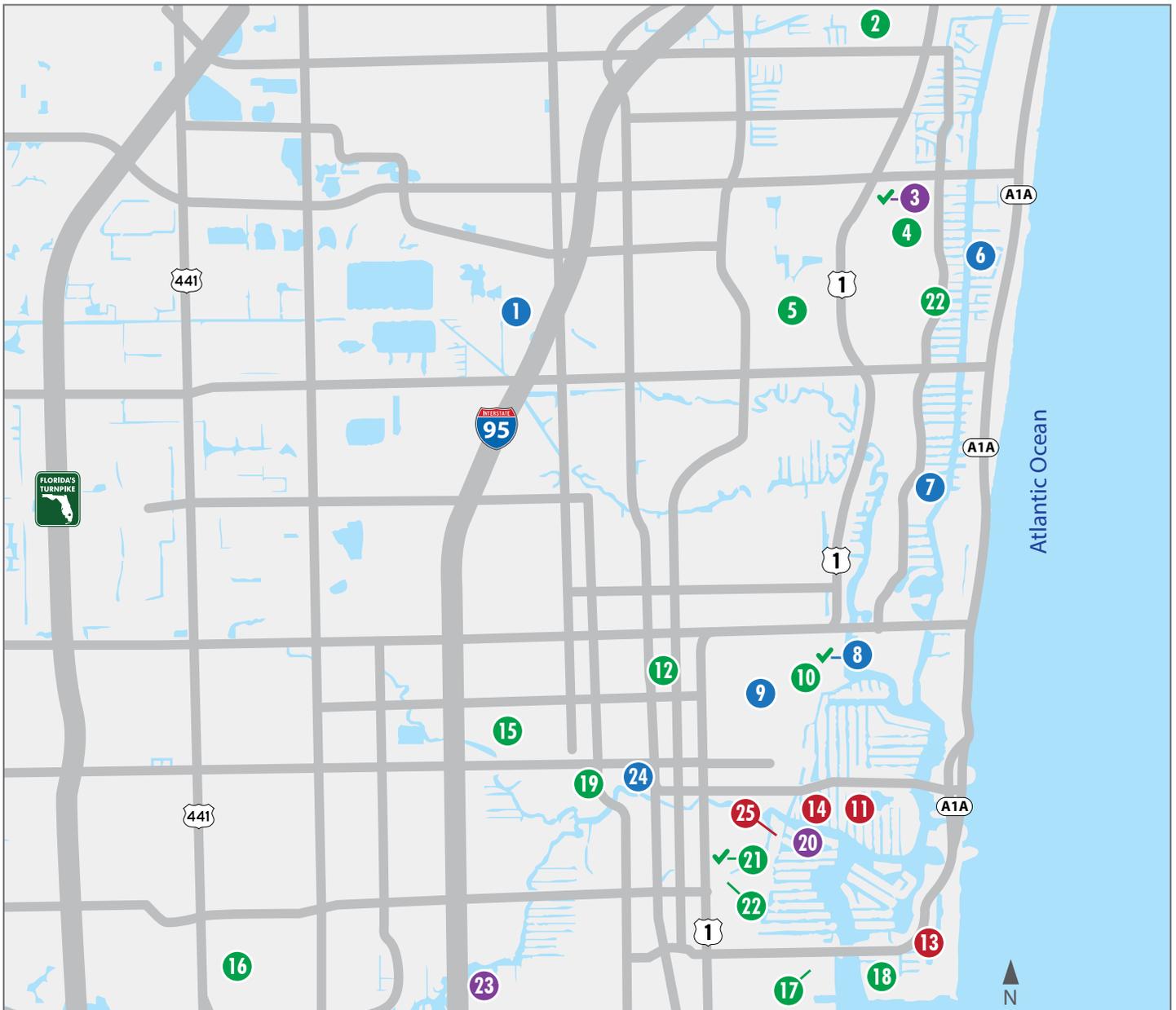
**23. River Oaks Stormwater Park**  
 Address: 2101 SW 19th Avenue  
 A stormwater park is being designed on nine acres of undeveloped land in the River Oaks neighborhood that includes water control basins and an underground conveyance system to improve drainage and decrease flooding. Investment: \$7.7 million; Status: Construction; estimated project completion in September 2020

**24. Central New River Water Main River Crossings**  
 Address: SE 1st Avenue  
 This project includes replacing submerged water mains that run under portions of the New River. Investment: \$1.8 million; Status: Design; estimated project completion in January 2021

**25. Cordova Road Seawall Replacement**  
 Address: Cordova from SE 7 to 12 Streets  
 This project includes the repair and replacement of approximately 2,500 linear feet of seawall along Cordova Road between SE 7th Street and SE 12th Street in the Rio Vista neighborhood to strengthen resiliency and help decrease flooding. Investment: \$5.7 million Status: Construction; estimated project completion in December 2020

## INFRASTRUCTURE PROJECT MAP

● Sewer Projects    
 ● Water Projects    
 ● Stormwater Projects    
 ● Other Projects



# NEWS AND NOTES

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## Victoria Park Water Main

- ▶ The Victoria Park water main project is more than 75% complete. Crews have installed 58,000 linear feet of new water mains with 7,000 linear feet under construction. The project should be completed by the end of the calendar year.

## New Las Olas Force Main

- ▶ The installation of 3,100 feet of new 16-inch force main has been completed along Las Olas Boulevard from Lido Drive to Merle Fogg Park.

## Redundant Sewer Force Main Project

Significant progress is being made on the installation of a new 7.5 mile wastewater transmission line from the lift station near Bayview Drive and NE 37 Street to the G.T. Lohmeyer Wastewater Treatment Plant. The project is 34% complete with 12,700 linear feet of pipe installed and 6,600 linear feet of pipe currently under construction.

## South Redundant Sewer Line

- ▶ The abandonment of the old 54-inch force main under the Tarpon River in the Rio Vista neighborhood has been completed.
- ▶ A short segment of pipe is being installed at SE 9 Avenue and SE 7 Street that will connect two sections of force main (measuring a combined 4,700 feet) that have already been installed along SE 9 Avenue from SE 12 Street to SE 2 Court.
- ▶ 100 feet of pipe has been installed along SE 10 Avenue between SE 12 Avenue and SE 14 Court.
- ▶ Underground drilling continues along NE 11 Avenue between NE 6 Street and SE 2 Street in preparation for the installation of 3,100 feet of new sewer main.



## North Redundant Sewer Line

- ▶ 1,100 feet of pipe has been successfully installed along Bayview Drive from NE 27 Court to NE 30 Street.
- ▶ Underground drilling is taking place in the Coral Ridge Country Club to prepare for the installation of 1,000 feet of force main.
- ▶ Crews are mobilizing to begin fusing 1,100 feet of pipe that will be installed along NE 18 Street from NE 15 Avenue to NE 17 Terrace.



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## GET INFORMATION AND UPDATES

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CITY OF FORT LAUDERDALE

**24-hour Neighbor Call Center:** 954-828-8000

**Website:** [www.fortlauderdale.gov/infrastructure](http://www.fortlauderdale.gov/infrastructure)

**LauderWorks:** [www.fortlauderdale.gov/lauderworks](http://www.fortlauderdale.gov/lauderworks)

**Email Updates:** [www.fortlauderdale.gov/enews](http://www.fortlauderdale.gov/enews)

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