



LAUDERTRAC



INFRASTRUCTURE UPDATE

Tracking Progress on Fort Lauderdale Commission Priorities for 2021

August 2021

INVESTING IN OUR FUTURE



Peele-Dixie Water Treatment Plant

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The City operates two water treatment plants, Fiveash and Peele-Dixie. These facilities process water drawn from the City's wells into quality drinking water for our neighbors. Peele-Dixie became operational in 1925, and was replaced in 2008 with a new facility at the same location. The replacement plant is a membrane treatment plant, with a design capacity capable of treating 12 million gallons of water per day (MGD). Part of the treatment process uses special media in an air-stripping process to remove hydrogen sulfide gasses from the permeated water. After 12 years of operation, the City completed a project to replace the media, as it became coated with mineral deposits, and added an acid wash system to remove future mineral deposits to increase the longevity of the system.

A second component of the project at the Peele-Dixie plant is the replacement of the sodium hypochlorite storage tanks, which are used to disinfect the treated water before dispensing it to the public. The new tanks are designed for a longer lifespan than the original tanks. The estimated completion date for this project is September 30, 2021, and the total cost of the project will be approximately \$1.1 million.



20-inch Diameter Pipe Sewer Force Main Replacement

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Construction is underway to replace a 40 year old force main with a history of failures that crosses under the Intracoastal Waterway from Northeast 9th Street to Bayshore Drive. This project includes 3,300 feet of 20-inch diameter High Density Polyethylene (HDPE) pipe that is resistant to corrosion from the saline environment, by utilizing both open-cut trenching and directional boring, for an estimated cost of just under \$2 million. This project is unique to the City as it includes pulling two pipes through a single bored hole, which will add redundancy to the pipe to maintain service in the event of a future failure. The project will be completed in September.



Crew working on upgrading Pump Station A-7

Pump Station A-7 Improvements

The City operates 174 sewer pump stations and 3 re-pump stations that collectively transport sewage to the George T. Lohmeyer Wastewater Treatment Facility. The A-7 pump station, located near Southwest 1st Avenue and Southwest 2nd Street, is being upgraded. The project will increase the reliability of the system and capacity of the pumps to meet future residential and commercial demand. This project will also include the rehabilitation and/or replacement of the wet well, piping, valves and appurtenances. An odor system will also be implemented to mitigate any unpleasant odors.



Installation of new Sewer Force Main on Northwest 13th Street

Northwest 13th Street Sewer Force Main Replacement

As part of our commitment to upgrade the sewer system, the City recently completed installation of 3,300 feet of new force main along Northwest 13 Street, between Powerline Road and North Andrews Avenue, at a cost of \$2.64 million. This project was accomplished using both open-cut trenching and directional boring, to minimize the duration and magnitude of any impact on traffic and the surrounding neighborhoods. Construction began in January 2021 and was completed in July 2021.

This was the first phase of a four phase project designed to alleviate sewer breaks, reduce service interruptions and improve sewer system reliability, and will ultimately provide 20,200 feet of new sanitary sewer force main. The projected cost of this project is approximately \$16 million.

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LauderWorks: www.fortlauderdale.gov/lauderworks

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