



# LAUDERTRAC



## INFRASTRUCTURE UPDATE

Tracking Progress on Fort Lauderdale Commission Priorities for 2021

September 2021

### INVESTING IN OUR FUTURE



Installation of New Motor Control Centers



Injection well pumps at George T. Lohmeyer Wastewater Treatment Plant

#### The New River Water Main Crossing Project

Construction is underway utilizing horizontal directional drilling to replace an existing 16-inch water main with a new 20-inch high-density polyethylene (HDPE) water main. This type of pipe is resistant to corrosion from the saline environment. The new water main starts north of Las Olas Boulevard on SE 1st Avenue and runs south under the New River and exits into the parking lot of the Broward Sherriff's Office Main Jail. The project includes open cut installation to connect the existing water main at the north and south ends of the project. The total length of the project is approximately 1,100 linear feet (LF) (900 LF of HDD and 200 LF of Open Cut). The project is expected to be completed in October 2021 at a total cost of \$900,000.

#### George T. Lohmeyer Wastewater Treatment Plant Rehabilitation

The City of Fort Lauderdale continues to improve its infrastructure. The Comprehensive Utility Strategic Master Plan identified major electrical control and related equipment at the George T. Lohmeyer Wastewater Treatment Plant in need of replacement. The controls installed in 1984 have exceeded their useful life, with no replacement parts available by the original manufacturers. One project currently underway is the Motor Control Centers (MCC) Rehabilitation Project, valued at \$5.3 million. The project is replacing: 5 MCCs, 4 substations, transformers and high-voltage switchgears and is on track for completion by November 15, 2021.

#### George T. Lohmeyer Wastewater Treatment Plant Emergency Standby Generator

In March 2021, the City identified several areas of infrastructure investment to our water, wastewater and bridges. The voluntary Consent Order issued by the Florida Department of Environmental Protection identified the reliability of powering the injection well pumps at the George T. Lohmeyer Wastewater Treatment Plant. The pumps are the final step in the treatment of wastewater, moving the treated effluent to deep underground wells. Having backup emergency power available will enable our plant operations staff to continue the treatment and disposal of wastewater in the event of a power failure by Florida Power and Light (FPL). The Amended Consent Order provides two steps for the City:

1. Acquire and install a temporary generator to service at least one injection well pump.
2. Provide sufficient power to operate the injection well pumping system at full permitted capacity during periods when there is no electricity.

The City procured the temporary generator, completed design, bidding, installation, testing and startup of the temporary generator and electrical connections ahead of schedule on June 29, 2021 at a cost of just under \$1 million. Staff is currently preparing a design criteria and a procurement package for a design-build firm to implement the permanent emergency power system.