Q3 CAPITAL PROJECT UPDATES

FLORIDA
GOVERNMENTAL
UTILITY AUTHORITY

2025

LEHIGH CAPITAL PROJECTS

Lehigh Wastewater Treatment Plant (WWTP) Membrane Bioreactor System

The FGUA has undertaken a rehabilitation project at the Lehigh WWTP in Lehigh Acres to increase capacity. The project consists of the conversion of the existing decommissioned Membrane Bioreactor System (MBR) and ancillary systems to a Kubota MBR system. **Major demolition of the existing MBR and ancillary equipment was performed previously. Construction contracted through Poole & Kent began June 2025 and major Kubota equipment is arriving onsite soon.**

Gateway Estates Bulk Water Interconnect

The FGUA has undertaken a pipeline project in the Gateway Estates community located in Lehigh Acres. The project consists of the installation of approximately 3,000 linear feet of pipeline to connect the Gateway Development District water supply to the FGUA system. **The interconnect is providing beneficial use to the Lehigh Acres Utility System. Verification of site work is underway and final completion and closeout are expected soon.**

LEHIGH CAPITAL PROJECTS

Traveling Bridge Filter No. 1 Refurbishment

This project is part of a continuing effort to refurbish the existing traveling bridge filters at the Lehigh Acres Wastewater Treatment Plant. Filters 2, 3, and 4 have already been refurbished and filter No. 1 will be refurbished under the scope of this project. The filter is an automatic backwash traveling bridge filter, and it will undergo the removal and replacement of underdrain and filter media and refurbishment of the carriage and carriage rails. **Construction is complete and the final change order was approved at the August 17, 2025 Board Meeting.**

Milwaukee Boulevard Water Main Extension

This project, which is currently in the design phase, is one of the recommended capital improvement projects from FGUA's Water Supply Plan and Wastewater System Expansion Plan. Approximately 8,800 linear feet of 12-inch water main will be installed along Milwaukee Boulevard starting from the intersection at Weather Wood Loop and moving south approximately to the intersection at Preston Street in Lehigh Acres. The purpose of this project is to provide a potable water transmission main and leave stub outs for future expansion. Interconnections will also be provided to two water treatment plants. These improvements will improve system reliability and increase water pressure in the Lehigh Acres service area. **Design and permitting is completed. Project on hold pending funding.**

LEHIGH CAPITAL PROJECTS

Lehigh Acres Water Treatment Plant No. 2 – Construct 1.65 MGD Reverse Osmosis Water Treatment Plant for Brackish Water Wells

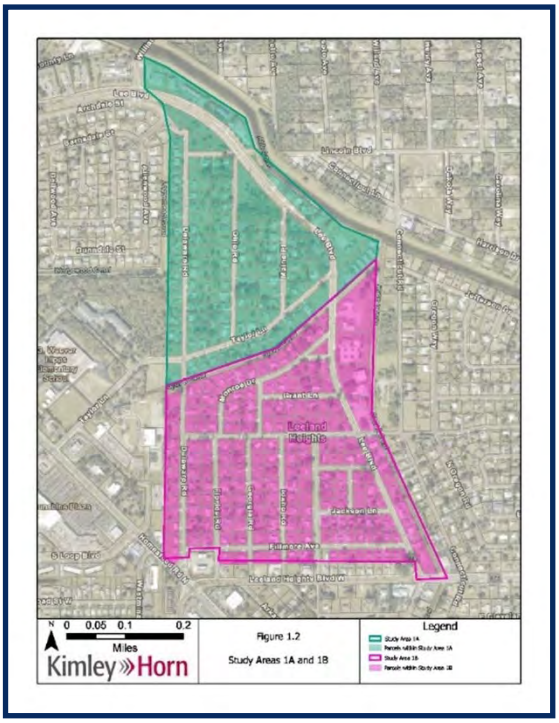
As recommended in the FGUA's water master plan for Lehigh Acres, the FGUA is constructing a 2 MGD (millions of gallons per day) reverse osmosis (RO) facility, Water Treatment Plant No. 2. This project includes brackish water wells, RO skids, air stripping and chemical feed systems along with a Deep Injection Well (DIW) for RO concentrate disposal. The FGUA received a $47.5 million State Revolving Fund Loan for construction of this facility. The DIW is now complete.

The 1.65 MGD facility design-build construction is underway, preparing for what will ultimately be a 3.3 MGD facility. Wells and Water Systems has been awarded the contract to construct two Upper Floridan Aquifer wells. Construction to start September 2025.

LEHIGH CAPITAL PROJECTS

Lehigh Acres Septic-to-Sewer Conversion Project

This project involves evaluating alternatives for expanding the wastewater service area in Lehigh Acres under a septic-to-sewer conversion program previously identified in the 2023 Lee County Countywide Wastewater Management Plan. The study areas are in Lehigh Acres, census tract 403.05, along Lee Boulevard. A draft feasibility report has been completed and a formal request for qualifications (RFQ) has been advertised. Three professional engineering firms to design the project were shortlisted. **Contract awarded to Jones Edmunds at the June 19th Board Meeting to begin design.**



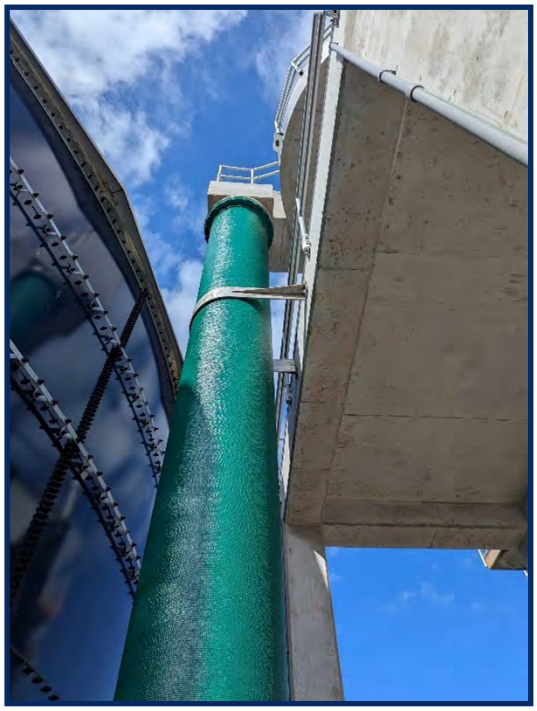
New 28th Street Water Main Extension

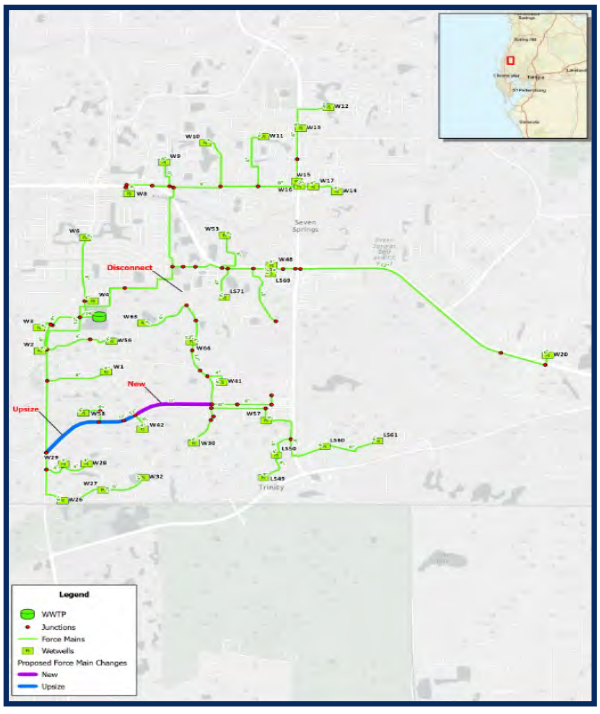
This project involves the design and construction of approximately 4,850 linear feet (lf) of 10-inch water main along 28th Street SW and approximately 4,200 lf of 8-inch water main along the surrounding streets. The purpose of this project is to provide a potable water transmission main. A grant application is currently in process with the Florida Department of Environmental Protection. If approved, this will be the funding source of the project. Johnson Engineering will design the project. **Work authorization was approved by the FGUA Board in June 2025.**

PASCO CAPITAL PROJECTS

Seven Springs Grit Removal Improvements

The FGUA has undertaken a rehabilitation project at the Seven Springs Wastewater Treatment Facility located in Pasco County. The project consists of the replacement of the existing aged grit removal system with a new Pista Grit system. **This project is now complete, awaiting project closeout documentation.**





Seven Springs Utility System Force Main and Related Improvements Project

This project will improve the Seven Springs wastewater collection system by eliminating current bottlenecks in the system. This project includes the construction of approximately 7,900 linear feet of 12-inch force main on Mitchell Boulevard from Trinity Oaks Boulevard to Seven Springs Boulevard. **The design for this project is 100% complete. Bids opened on August 19, 2025.**

Riverside Village Septic to Sewer Project

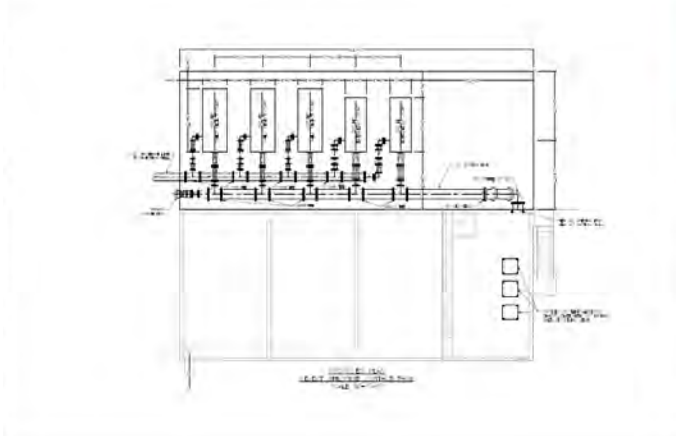
The Riverside Village subdivision, in the Pasco Utility System, is mostly developed. The east section served by the FGUA is on a gravity sewer collection system while the west section, approximately 52 residences, currently has onsite sewage treatment and disposal systems (OSTDS or septic tanks systems). These OSTDSs have consistently failed due to high water levels and subsequent seepage into the drainage swales along their frontage, resulting in high fecal coliform counts and significant odors. This has created a health problem.

As a result of this situation, the FGUA was asked to investigate the feasibility of providing sewers to this area. Subsequently, the FGUA contracted Jones Edmunds, under WA JEA 20-02, to prepare a Preliminary Engineering Report (PER) to develop and analyze alternatives to connect the OSTDSs to a sewer collection system. The PER evaluation included vacuum, low pressure, and gravity sewer (with and without a lift station). The selected alternative, with Pasco County's input, was a gravity sewer system. Jones Edmunds is proceeding with the design work for this project. **30% plans have been received, and survey and utility location work is complete.**

NORTH FORT MYERS CAPITAL PROJECTS

Lift Station LS01 Replacement

The FGUA has undertaken a lift station replacement project near the Del Prado Water Reclamation Facility in North Fort Myers. The project consists of the construction of an inline booster pump station (wastewater) to replace the existing submersible pump lift station. Specifically, the project will include civil site work and the installation of new dry pit submersible pumps, a new diesel driven pump and generator, and electrical instrumentation. **Construction is underway. Current project activities include rebar installation and formwork for pouring major equipment slabs.**

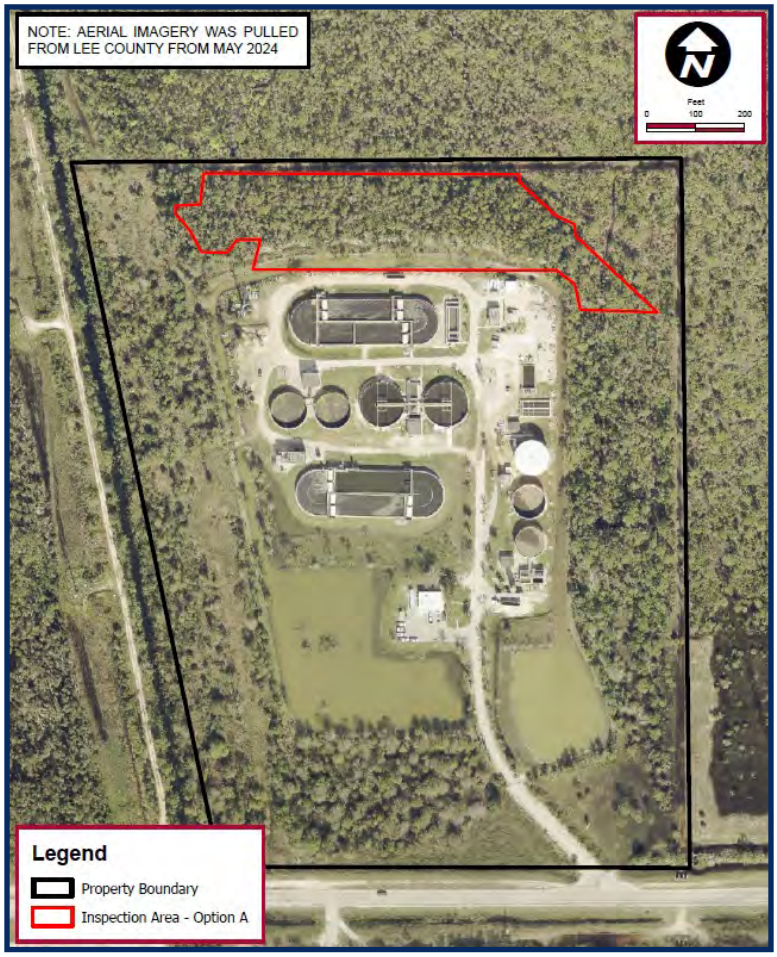


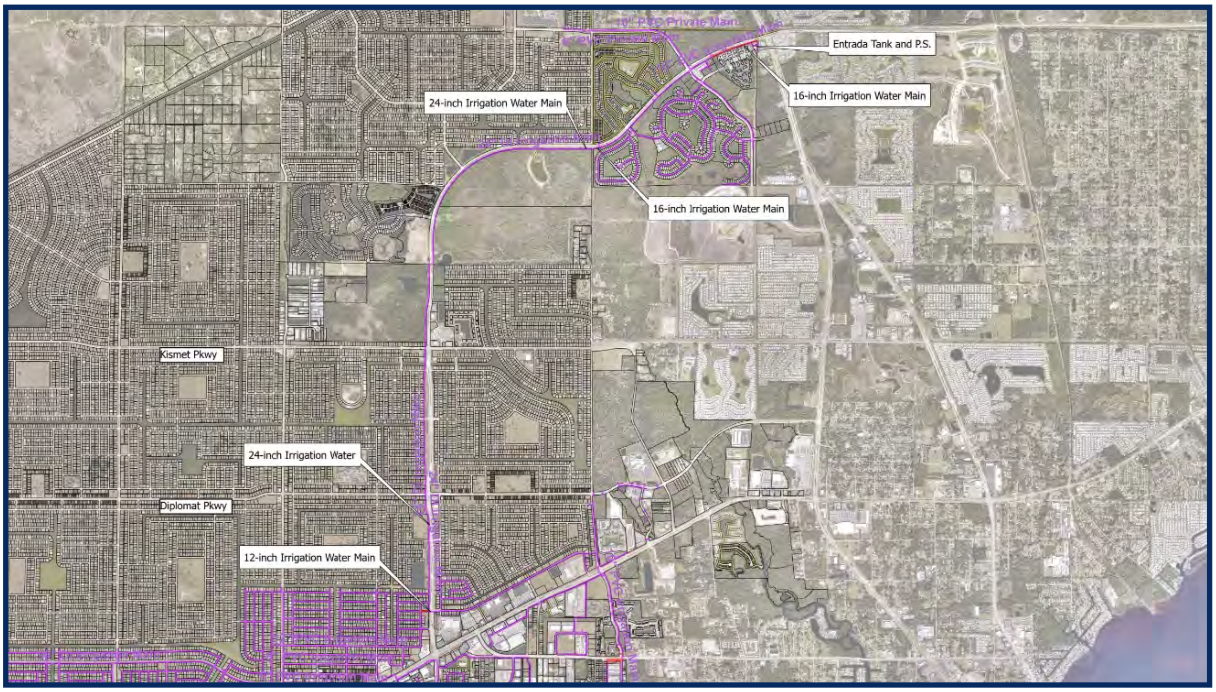
Del Prado Water Reclamation Facility Pump System Improvements

The FGUA has undertaken a project to upgrade and replace the existing Injection Well Pumping System at the Del Prado Water Reclamation Facility located in North Fort Myers. The project includes demolition of the existing system and installation of daily reject and emergency pumps. The new pumping assembly consists of piping and other necessary accessories configured to allow for both system redundancy and bypass. **US Water has received approvals from Lee County and issued the 90% design documents, which are under review.**

Del Prado Water Reclamation Facility Storage System Improvements

The FGUA has undertaken a project to construct a 10-million-gallon storage tank at the Del Prado Water Reclamation Facility located in North Fort Myers. The project includes the installation of a return pumping system and weirs (low dam or barriers) to store water during weather events as well as partition the reject water as needed. **FDEP has issued the formal wetland determination for the project site. Kimley Horn is working to issue 100% design documents by September 2025.**





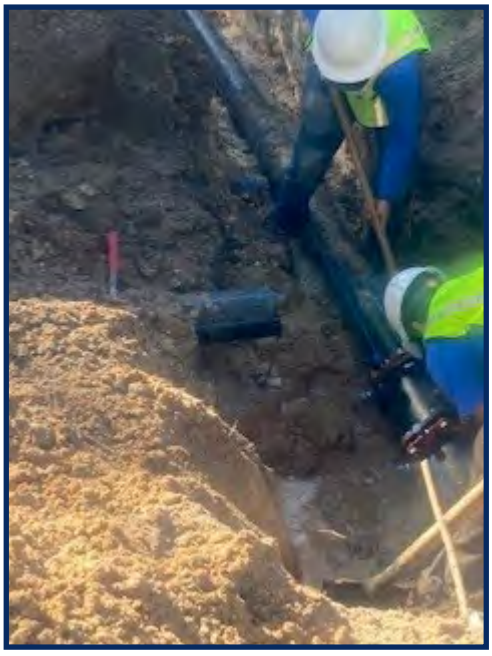
NFP36 Cape Coral Interconnect (New)

The purpose of this project is to provide a Preliminary Design Report to determine how to increase the City of Cape Coral's ability to receive reclaimed water from the FGUA's Del Prado Water Reclamation Facility, with the intention of eliminating the city's supply bottleneck. **The design work authorization with Johnson Engineering has been approved by the FGUA board. Johnson Engineering will now review a hydraulic evaluation report prepared by AECOM to design a solution and identify all necessary permits to remove the bottleneck.**

UNIFIED AQUA CAPITAL PROJECTS

Jungle Den – Inflow and Infiltration Correction and Lift Station Upgrades

This project includes the upgrade of the wastewater collection system in the Jungle Den community in Volusia County. The planning, design and bidding phases of the project have been completed, with the construction underway and expected to be completed Spring 2025. This project includes the upgrade of two lift stations, lining of approximately 1,600 feet of gravity main and 1,400 feet of services laterals, and various accessories. **All work is completed and accepted. Some miscellaneous punch-list items are being performed.**



Arredondo Estates Water Main Replacement Project

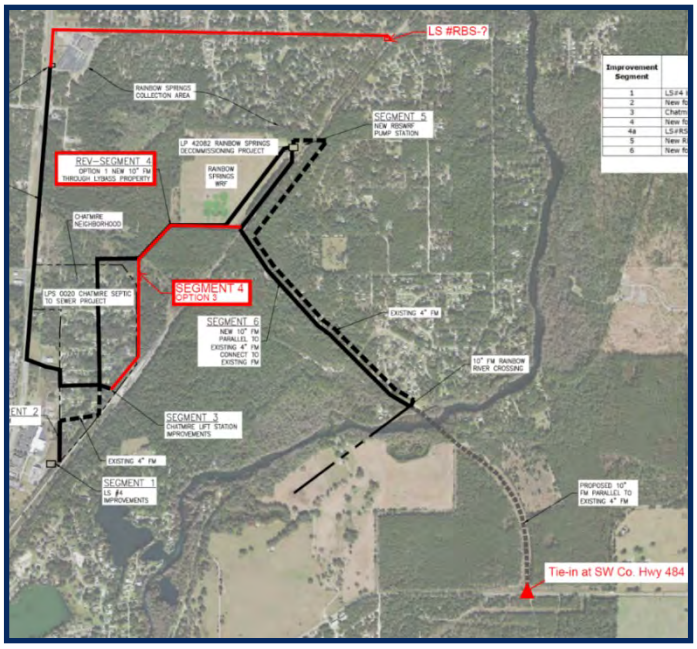
The Arredondo Estates Water Main Replacement Project will replace 2,000 feet of deteriorated water main in the Arredondo Estates community near Gainesville. In addition to replacing the water main, new water service connections will be made to approximately 265 parcels, and new or relocated meters will be readied for service. The project, funded by a State Revolving Fund (SRF) loan program with 90% principal forgiveness, will improve system reliability, water quality, and water pressure in a disadvantaged community. The water main installation and testing are complete. **Construction is complete and the final change order was approved at the June 19, 2025 Board Meeting. Closeout procedures for the SRF loan are in progress.**

DUNELLON CAPITAL PROJECTS

Chatmire Septic to Sewer Project

The FGUA has undertaken a septic to sewer project in the Chatmire community located in the City of Dunnellon. The project includes 210 residential lots with approximately 117 existing septic systems, 14,000 linear feet of gravity sewer collection lines, 1,640 linear feet of force main, a new lift station, and 16,000 linear feet of roadway restoration. The existing septic systems will be abandoned and homes will be connected to the central sewer system. The contractor has started abandonment of septic tanks and connection of properties to the sewer main.

The project will be complete September 2025.



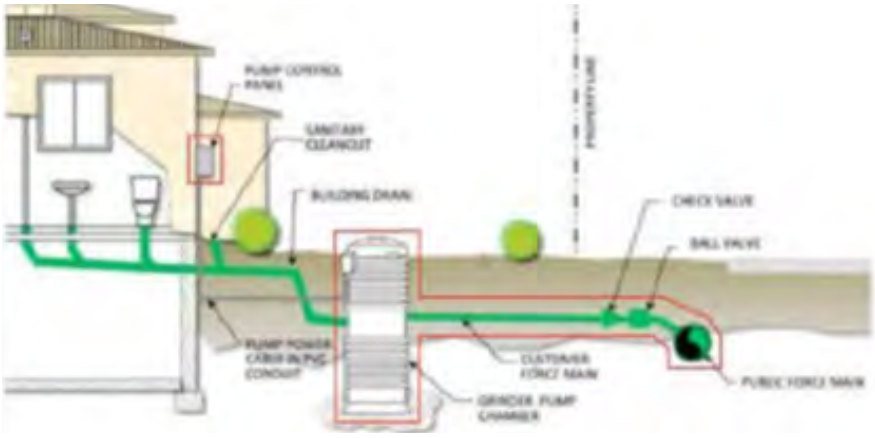
Chatmire Force Main Project

The FGUA has undertaken a force main project to route sewer flow from the Brookes Street lift station to the Rainbow Springs Water Reclamation Facility which is currently being converted to a surge tank. Design for the project is currently underway. The FGUA is working on obtaining additional grant funding for the project.

Jones Edmunds has provided a route study. Staff reviewing route alternatives.

Rio Vista Septic to Sewer Project

The FGUA has undertaken a septic to sewer project in the Rio Vista community located in the City of Dunnellon. The project consists of connecting approximately 333 septic tanks from single family homes in the Rio Vista neighborhood in the Rainbow Springs basin management action plan (BMAP) primary focus area (PFA). This will result in approximately 3,300 lbs/yr in nitrogen reduction in Rainbow Springs. The project includes 154 grinder pump stations, a sanitary sewer gravity collection system, a sanitary sewer transmission line, roadway restoration, and upgrades to an existing lift station. The project's construction is anticipated to last 18 months with the overall completion anticipated in fall 2026. The project's estimated construction costs exceed the current Florida Department of Environmental Protection's springs' restoration grant. The project will be constructed in phases as additional grant funding becomes available. Property owners have commenced submission of the temporary access agreements required to allow FGUA's contractor access to the respective properties during construction. This is needed for the construction of the grinder pump stations and abandonment of the existing septic tanks. **90% submittal is being reviewed. FGUA held a community meeting on June 4th, 2025. Staff is working with its legal team to prepare offer letters for easement acquisition. Offers to be mailed early September 2025.**



DUNELLON CAPITAL PROJECTS

Rainbow Springs Water Reclamation Facility Decommissioning

This project will decommission the Rainbow Springs Reclamation Facility. This will include the design and construction of upgrades and structures to convey wastewater to the Dunnellon Water Reclamation Facility. The Rainbow Springs and the Rainbow River are vital ecological and economic resources impacted by total nitrogen concentrations. Decommissioning this facility will result in significant nitrogen removal from the Rainbow River.

We have successfully completed pressure testing of 4-inch underground piping force main (C900) and 4-inch ductile iron piping above ground. Ductile iron piping was painted with color codes provided by FGUA and the silt fencing along Highway 484 has been removed and disposed. We've installed and tested 4-inch force main, surge pumps and electrical. Control panels have been installed. **The project is now complete.**

180th Avenue Package Plant Abatement

This project provides for the demolition of two existing package wastewater treatment plants located at the State Park and Dunnellon High School properties. The package plants will be replaced with wastewater lift stations that will pump wastewater to the existing FGUA force main located along 180th Avenue.

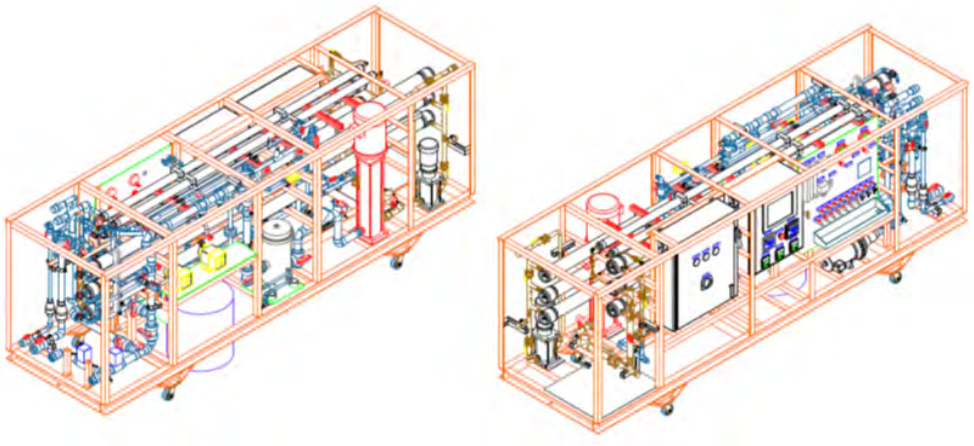
Campground Lift Station: Lift station is complete and tied into force main. Decommissioning of plant is underway.

High School Lift Station: Work at the high school continues and pump station is completed. A partial clearance from the Florida Department of Environmental Protection has been submitted. A new force main from the ball fields will need to be designed to tie in the elementary school force main. Design is underway.

Overall Project: Project was substantially completed on April 30, 2025.

Plantation Bay Water Treatment Plant (WTP) Miscellaneous Improvements

The Plantation Bay WTP's lime softening process and equipment is at the end of their useful life and requires replacement. The miscellaneous improvements project includes abandonment of the existing lime softening equipment and installation of new nanofiltration equipment. The project also includes various miscellaneous items aimed to increase treatment reliability and to provide a more consistent and disinfection byproduct-free drinking water to the customers in the FGUA Flagler system. The pilot study for the nanofiltration facility was complete in February 2022. The design is 100% complete. **Anticipating construction start in late September 2025.**



Nanofiltration Skids Schematic

Plantation Bay Wastewater Treatment Plant (WWTP) Phase II Improvements

The Plantation Bay WWTP treatment plant's treatment process equipment is at the end of its useful life and requires replacement. The Phase II Improvements project will provide a new digester, aeration basin and clarifier as the primary biological treatment process. The project will provide Class I reliability and increase plant capacity. In May 2023, Mack Industries, Inc. was awarded the extended aeration basin and equipment construction and installation. Between April and June 2024, the precast walls and walkways sections were sealed, the walls were post tensioned, and the post-tensioned joints were grouted. The extended aeration basin inclusive of the concrete structure and mechanical equipment were substantially complete by October 2024. Mack's construction contract does not include civil, site, mechanical piping outside the aeration basin and all electrical. The construction contract for the trade work was awarded to Petticoat Schmitt. **A partial start-up was held on July 24, 2025. Plant operation staff facilitated the start-up by filling structures with treated reuse water used for verifying equipment performance. Project is substantially complete with the exception of new blowers. Staff is working with Petticoat-Schmitt to issue change order to replace blowers. Staff conducted partial substantial completion mid-August 2025.**