

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY
BOARD OF DIRECTORS MEETING
June 1, 2022***

**ROUTINE STATUS REPORTS
ITEM 7**

DeSoto Booster Pumping Station Project

Project Status Report

Project: **Desoto Booster Pumping Station Modifications**
Formerly Known As – PRMRWSA Project Prairie Pump Station Acquisition and
Modification Project

Date: June 1, 2022

Prepared by: Ford Ritz, P.E., Project Engineer

The following information summarizes the project description and current status. (see attached general project area figure).

Project Description

The Project Prairie Pump Station Acquisition and Modification project includes the regional purchase of the Pump Station and Storage Facilities from DeSoto County, and modifications to integrate the facility into the regional transmission system. The Facility is strategically located to support current and future regional water supply operations. The project is co-funded by the SWFWMD and the State of Florida. The estimated project cost including the purchase from Desoto County, Design and Construction of Facility modifications is \$1,275,000. This is a Capital Improvements Project (CIP).

The Facility is located on corner of U.S.17 and S.W. Enterprise Blvd. in DeSoto County, and is adjacent and connected to the regional DeSoto County RTM and the bi-directional Phase 1 Regional Interconnect Pipeline. The Phase 1 provides a plant-to-plant connection between the Peace River Facility, and the Punta Gorda Shell Creek Water Treatment Facility located in Charlotte County.

Current Operations:

- Regional pipelines (DeSoto RTM or Phase 1) fill the 0.5-MG finished water storage tank – water source either the Peace River Facility or the Shell Creek Facility. Under normal operational conditions water is received from Peace River.
- DeSoto County trims chemical disinfection as needed and pumps water from the storage tank north into their distribution pipeline.

Future Operation:

- Increase Facility flexibility to be able to receive water from Peace River, Shell Creek or DeSoto County, trim and repump water, north, south, or east as needed.
- Provide capabilities to bypass the storage tank and repump, or bypass the facility; as determined by, operations and maintenance, or emergency conditions.
- Provide other capabilities per the Project Prairie Facilities Operational Protocol.

Project Scope:

- Modifications to facility piping and yard piping.
- Upgrades to disinfection chemical(s) storage and feed capabilities.

- Upgrades to SCADA interface, including a new radio and antenna.
- Evaluate existing meters and meter assemblies and make necessary modifications.

Current status

The Interlocal Agreement, between the Authority and Desoto County for the Acquisition of the Project Prairie Facilities has been executed and recorded. Additionally:

- Contract for Sale Purchase of the Property has been executed
- Ingress/Egress Easement for the Wastewater Lift Station (for Desoto County) has been executed

Authority's consultant (Ardurra) was issued the Notice-to-Proceed for Work Order for Design, Permitting and Construction Phase Services and is currently developing 60% design drawings.

Project History Briefing

Project: Desoto Booster Pumping Station Modifications
Also Known As – PRMRWSA Project Prairie Pump Station Acquisition and Modification Project

Date: June 1, 2022

Prepared by: Ford Ritz, P.E., Project Engineer

The following information summarizes the historical milestones and events of the Project Prairie

October 1, 2021 – The Interlocal Agreement, Purchase and Sale Agreement, and Operational Protocol for the acquisition of the Facility from DeSoto County was presented to the Board. Proposed funding sources include \$200,000 from the State of Florida, and \$537,500 each from the Authority and SWFWMD. The total project cost is \$1,275,000.

October 12, 2021 – Authority staff had a meeting to discuss the project and potential modification to the facility. Next steps include an internal meeting with Authority Operations and Maintenance staff, and meeting with DeSoto Operations staff. Upon Board approval of the project, a meeting will be held with the Ardurra (FKA King Engineering). Ardurra designed the Phase 1 Pipeline project which originally included yard piping alternates. The alternates were subsequently removed from the Phase 1 Pipeline final design package due to overall project cost uncertainty. Ardurra is an Authority as needed consultant.

October 12, 2021 – The FDEP Grant Agreement (LPA0208) for \$200,000 was executed by the State. The Grant Agreement will be included on the December 1, 2021 Board Meeting agenda for Board approval.

November 23, 2021 – A meeting between Authority staff and DeSoto County staff was held to discuss the upcoming project and operations of the Facility. In accordance with the acquisitional agreements between the Authority and DeSoto County, DeSoto County Utilities will continue to operate the Facility, subsequent to the purchase.

December 2021 – The Interlocal Agreement between the Authority and DeSoto County for the Acquisition of the Project Prairie Facilities, generally consisting of a 500,000-gallon ground storage tank and associated piping, a 5 MGD booster pump station and chemical feed system, yard piping and emergency generator was Board approved on December 1, 2021, and by the DeSoto County BOCC on December 14, 2021. The Document includes:

- Interlocal Agreement providing for Authority acquisition of the Facilities for \$748,731.53 – which will be co-funded by SWFWMD and the State of Florida.
- Contract for the Sales and Purchase of the site property parcel by the Authority for \$36,000 from DeSoto County.

January 25, 2021 – Closing on the purchase/sale of the property with Desoto County was completed.

January 28, 2021- Authority held a scoping meeting with Ardurra (Engineer-of-Record) at the Project Prairie Facility, to tour the facility and discuss items to be included in Ardurra’s scope of work for modifications/upgrades to be included in Ardurra’s Work Order for Engineering Services. In general, items discussed included:

- Underground repumping piping
- Meter upgrades
- Radio and antenna for Authority to monitor facility operations
- SCADA/PLC Systems integration
- Walmart fire flow pipeline – connect directly to Regional Piping
- Chemical feed/trim facilities improvements

It is anticipated that Ardurra will submit their draft scope of work in mid-March.

March 10, 2021- The SWFWMD Q248, Funding Agreement-22CF0003723 for Project Prairie Facilities Acquisition and Modification Project entered into.

March 25, 2022 – Ardurra was issued the Notice-to-Proceed for Work Order 1., for the DeSoto County Pumping Station Modification Project (DCBPS). W.O.1 lump sum cost is \$85,300.

April 1, 2022 - PRMRWSA Staff and Ardurra Staff met with DeSoto Counties Utilities at the DCBPS site to discuss day-to-day operations of the Facility. DeSoto County will continue to operate the Facility for the Authority per the Interlocal Agreement.

April 14, 2022 – The SWFWMD Co-Funding Agreement (Q248) “Task Schedule and Budget Adjustment” was entered into. Construction and Engineering costs were adjusted and the construction schedule was extended. The total cost for acquisition, design and construction of Facility Improvements did not change.

May 11, 2022 – A Teams meeting was held with Ardurra and Authority staff to discuss progress on the 60% design. Per discussion, the tank inlet meter will be upgraded, and the pump station discharge meter upgrade will most likely be included as an alternative. Ardurra stated that the technical specifications have been completed.



Peace River Manasota Regional Water Supply Authority Regional Vision for 2035

