

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

**ROUTINE STATUS REPORTS
ITEM 6**

Regional Integrated Loop System Phase 3C Feasibility & Routing Study

Project Status Report

Project: Phase 3C Pipeline Feasibility and Routing Study

Date: June 1, 2022

Prepared by: Richard Anderson, Director of Operations

Project Description

The intent of the Regional Integrated Loop Phase 3C Pipeline Project is to deliver water from the terminus of the Phase 3B Regional Interconnect on Clark Road near Cow Pen Slough to the general vicinity in Sarasota/Manatee Counties of University Parkway Booster Pump Station near Lockwood Ridge Road. This project will interconnect the two largest water supplies in the region improving system reliability, rotational supply options and resource sharing. This is an alternative water supply project which supports SWUCA recovery through conjunctive use of surface and groundwater sources based on management and rotation of supply resources.

The routing and feasibility study is a critical step in evaluating the route options and infrastructure requirements that will enable regional connection with the Manatee County water system. This project is a component of the Authority's regional integrated loop system and is referred to as Phase 3C in the Authority's 5-year CIP/ 20-year CNA. This project will include evaluation of pipeline routes, sizing, new pumping/trim facility needs (and locations) and modifications to existing county and regional facilities needed to support this critical system interconnectivity project. The study will also refine estimated costs for all proposed new facilities and facility improvements.

The Southwest Florida Water Management District is funding this portion of the Phase 3C Project in the amount of \$300,000.

Current Status

Work Order No. 1, 'Feasibility and Routing Study for the Regional Integrated Loop Phase 3C Pipeline Project with Wade Trim, Inc was approved by the Authority Board on December 2, 2020 in the amount of \$599,970. Notice-To-Proceed was issued on January 7, 2021 with scheduled completion of Work Order No. 1 on April 6, 2022. The Project is currently on schedule and budget.

Project History Briefing

Project: Phase 3C Pipeline Feasibility and Routing Study

Date: June 1, 2022

Prepared by: Richard Anderson, Director of Operations

The following information summarizes the historical milestones and key events to date of the Feasibility and Routing Study for the Regional Integrated Loop Phase 3C Pipeline Project.

- December 2020 Board approved the Agreement for Professional Services and Work Order No. 1 related to the Feasibility and Routing Study for the Regional Integrated Loop Phase 3C Pipeline Project with Wade Trim, Inc. Completion of the is Work Order is April 2022 and has a fee in the amount of \$599,970.

- January 2021 Notice to Proceed and Project Kick-Off Meeting was held on January 7, 2021 at the Lakewood Ranch offices. Wade Trim, Ardurra, SWFWMD, and Authority staff were present or participated virtually.

- February 2021 Wade Trim established a preliminary project schedule and initiated bi-monthly project meetings. A list of requested data was also developed and data transfers between the Authority and Consultant began. A joint Phase 3C/Phase 2B-2C Projects meeting was held on February 23rd to review the Regional Hydraulic Pipeline model to insure both projects shared common information.

- March 2021 Progress Meeting was held on March 4th. Consultant staff beginning analysis on preliminary routes. Wade Trim submitted a formal project schedule on March 15th.

- April 2021 Progress Meetings were held on April 6th and April 20th. Consultant staff continuing analysis on preliminary routes. Stakeholder meetings were held with Sarasota County on April 13th and Manatee County on April 27th. Input from both Members will be included in the route analysis.

- May 2021 Progress Meetings were held on May 4th and May 20th. Consultant staff refining analysis on preliminary routes based on stakeholder input. Additional stakeholder meetings with FPL and Hi Hat Ranch to discuss routing options in process.
- June 2021 Consultant Staff provided a project update the Peace River Board on June 2nd. A stakeholder meeting with Hi Hat Ranch was held on June 10th to discuss potential pipeline routes near the Hi Hat development. Progress Meeting was held on June 15th. Consultant staff continuing analysis on preliminary routes. Consultant staff has coordinated with HDR Engineering to verify the hydraulic model is operating as intended.
- July 2021 Progress Meeting was held on July 13th. Hydraulic modeling results were presented and discussed as well as pipeline route options proposed by Hi Hat Ranch development group. A Route Shortlisting Workshop was scheduled for July 29th.
- August 2021 Progress Meetings were held on August 10th and August 24th. Preliminary site plans for potential pump station locations were provided along with setback and zoning categories for the different parcels. Modeling results with system pressure contours were distributed to the team. Results show it is possible to deliver up to 30 MGD to Manatee County in emergency conditions. Ardurra to look at modeling parameters more closely to identify possible flow errors.
- September 2021 Progress Meeting was held on September 14th. Reviewed draft pumping station site sketches for Hi Hat Ranch and 450 DK, LLC locations. Hydraulic modeling continues by Ardurra. Ardurra staff requested information on Authority meter locations to compare flows. Individual maps of shortlisted routes were distributed to the group for review. Next progress meeting scheduled for September 28.

- October 2021 Progress Meetings were held on October 13th and 26th to evaluate viable routes and segments, and potential pumping station locations. Hydraulic modeling continues by Ardurra. An easement and routing meeting was held on October 27th with Florida Power & Light to discuss co-location options within or adjacent to the FPL corridor. Indications are the FPL is unlikely to grant a permanent easement within their corridor. An internal follow up meeting was held on October 29th to discuss alternate easement and right of way options.
- November 2021 An initial Routing Shortlist Meeting was held on November 9th. Staff reviewed and ranked potential routes for discussion. Wade Trim will revise route maps and create route “segments” based on staff ranking of the various alternatives. Peace River staff met with Manatee County Utilities senior staff on November 17th for a project overview and discussion of the County’s water needs in the future. Next progress meeting scheduled for November 23rd.
- December 2021 A Route Shortlist Meeting was held on December 7th. Wade Trim has developed 3 short list routes from Clark to Fruitville Rd. Staff reviewed and ranked potential routes for discussion. Wade Trim and Ardurra continue to investigate potential pump station locations and contact property owners. Peace River staff met with Sarasota County Utilities senior staff on December 13th for a project overview and discussion of alternative Pumping Station locations. The Authority submitted an offer for pump station property on 12/30/21.
- January 2022 Project progress meetings were held on January 4th and January 18th. Wade Trim team is finalizing short list routes for presentation to the Authority Board on February 2nd. The Authority’s offer to purchase 10 ac of property from FPL was rejected on January 11th. Authority and project team met with Hi Hat Ranch developers on January 20 to discuss pipeline route and pump station property. Next progress meeting scheduled for February 3rd.

- February 2022
Project progress meetings were held on February 1st and February 15th. Wade Trim team completed the short list routes for presentation to the Authority Board on February 2nd with the top ranked route following a path along the Cow Pen Slough drainage easement. The project team meeting with Hi Hat Ranch developers on January 20 produced positive results regarding the acquisition of a pump station property near Fruitville and Lorraine. Next progress meeting scheduled for March 1st.
- March 2022
Project progress meetings were held on March 1st and March 15th. Wade Trim team has finalizing short list routes and is developing their recommended route for presentation to the Authority Board on April 6th. The Authority continues to work on the purchase of 10 ac of property near the intersection of Fruitville Rd and Lorraine Rd for the location of a storage and pumping station site. Project consultants are currently preparing legal descriptions, environmental assessment and surveying in conjunction with a property appraisal. Next progress meeting scheduled for March 29th.
- April 2022
Consultant Wade Trim presented the final Feasibility and Routing Study to the Board on April 6th. Presentation included the recommended route, Route B1, from Clark Rd to Fruitville Rd. Project progress meeting was held on April 19th to discuss status of property acquisition for the future pumping station. The Authority continues to work on the purchase of 10 ac of property near the intersection of Fruitville Rd and Lorraine Rd for the location of a storage and pumping station site. Project consultants are currently preparing legal descriptions, environmental assessment and surveying in conjunction with a property appraisal. Next progress meeting scheduled for May 17th.
- May 2022
A final progress meeting was held on May 17th to review and accept two technical memos addressing water quality and system hydraulics. Authority staff provided final comments on the memos to Wade Trim and their sub-consultants. Final versions of the technical memos were received on May 23rd. The Authority continues to work on the purchase of 10 ac of property near the intersection of Fruitville Rd and Lorraine Rd for the location of a

storage and pumping station site. Project consultants anticipate receipt of appraisals by May 20th, followed by submission of a purchase offer by June 1st. This will be the final status report for the Phase 3C Pipeline Feasibility and Routing Study, as the project is now complete.