

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY
BOARD OF DIRECTORS MEETING
October 1, 2021***

**ROUTINE STATUS REPORTS
ITEM 4**

Regional Integrated Loop System Phase 2B & 2C Feasibility and Routing Study

Project Status Report

Project: Regional Integrated Loop System Phase 2B & 2C Pipelines Feasibility and Routing Study

Date: October 1, 2021

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 Regional Integrated Loop System Phase 2B/2C Pipeline(s) Feasibility and Routing Study Project will evaluate the route options to provide a second (southern loop) plant-to-plant connection between the Peace River Facility and the Sarasota County Carlton Water Treatment Facility. The regional interconnect project will consist of large diameter transmission main and may also include storage, chemical trim and repumping stations at strategic locations. The Phase 2B and 2C pipelines are anticipated to be approximately 10- and 14-miles in length respectively.

The project scope includes:

- Development of conceptual routes and feasibility analysis of routes
- Determination of pipe sizes, delivery requirements and interconnection points
- Pumping and storage requirements
- Water quality consideration
- Estimated project costs

As currently envisioned, the Phase 2B pipeline will begin at the terminus of the Phase 2 Interconnect Pipeline at Serris Blvd., about 2-miles east of the intersection of Charlotte, Desoto and Sarasota counties. The Phase 2B then continues west ending near the City of North Port's Myakkahatchee WTP. The Phase 2C Pipeline will begin and the terminus of the Phase 2B pipeline and continue westward before crossing the Myakka River then northward, crossing I-75 and terminating at the Carlton WTF.

Current status

The Board approved the Contract for Professional services with Kimley-Horn Associates for the Phase 2B/2B Feasibility and Routing Study Project on December 2, 2020 and Kimley-Horn (KH) was issued the Notice-to-Proceed on January 6, 2021. Project completion is 15-months from the NTP date. Currently, KH is updating the initial draft of Technical Memorandum No. 1 (TM1) based upon feedback from the Authority, updated customer demand projections, and additional pipeline alignments. TM1 includes pipeline capacity and sizing, a summary of regional transportation and development planning, and alternative pipeline alignments for further analysis and ranking.

Project History Briefing

Project: Regional Integrated Loop System Phase 2B & 2C Pipelines Feasibility and Routing Study

Date: October 1, 2021

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

The following information summarizes the historical milestones and events of the Regional Integrated Loop System Phase 2B & 2C Pipelines Feasibility and Routing Study

- June 23, 2020 - The Authority advertised for Consultant Statement of Qualifications (SOQs) for professional engineering services for the Feasibility and Routing Study.
- July 9, 2020 – Addendum No. 1 was sent to Consultants expressing interest.
- July 24, 2020 – Six SOQ packages were timely received, including in alphabetical order:
 - AECOM Technical Services
 - Ardurra Group
 - Black & Veatch Corp.
 - Kimley-Horn Associates (KH)
 - Stantec Consulting Services
 - TKW-Consor Consulting Engineers
- August 11, 2020 – The Authority Professional Selection Evaluation Committee Meeting was held and the top three consultants were short listed, including Ardurra Group, Kimley-Horn Associates and Black & Veatch Corp.
- September 2, 2020 – The Professional Selection Evaluation Committee interviewed short listed consultants, and Kimley-Horn was selected
- September 9, 2020 – A Notice of Intended Decision (NOID) to award the Project to Kimley-Horn was posted on the Authority web site.
- September 30, 2020 – The Authority Board Approved the selection of Kimley-Horn and approved the Executive Director to negotiate the Contract scope and fee with Kimley-Horn.
- December 2, 2020 - The Authority Board approved the Contract for Professional Services with Kimley-Horn for the Phase 2B & 2C Feasibility and Routing Study and for the Executive Director to approve Work Order 1 for an amount not to exceed \$399,960.

- January 6, 2021 - The Notice to Proceed (NTP) was issued to Kimley-Horn with a completion time of 15-months from the NTP date. The NTP was issued at the project kickoff meeting.
- January 6, 2021 – The project kickoff meeting was held at the Authority’s Lakewood. It was attended by Authority Staff, SWFWMD and the Kimley-Horn Team. Key discussion items included, the project schedule, data requests, and an overview of the KH project plan.
- January 29, 2021 – The Cooperative Funding Agreement between the Authority and Southwest Florida Water Management District was executed for \$400,000.
- February 4, 2021 - A project status meeting was held. Route alternatives for 2B/2C pipelines were presented by Kimley-Horn and discussed. It was attended by Authority Staff and SWFWMD.
- February 12, 2021 – A coordination meeting was held with Charlotte County Utilities to discuss route alternatives and to solicitate feedback from Charlotte and their modeling consultant who is updating the Charlotte County Water Master Plan including their hydraulic model. The meeting was led by KH, and attended by Authority staff, and SWFWMD.
- February 23, 2021 – A joint Phase 2B/2C and Phase 3C Regional Hydraulic Model Overview meeting was held to discuss the Integrated Regional Water Supply Plan 2020 Update modeling effort performed by HDR. The modeling effort discussion was led by HDR and modelers from Kimley-Horn (2B/2C) and Wade Trim (3C) were in attendance as well as Authority staff and SWFWMD. Key discussion items included validation of the PRMRWSA model, key connection points, contracted pressures/demands and coordination with new/updated customer models.
- March 5, 2021 – Workshop 1_Demands and Criteria was held to discuss projected water demands and evaluation criteria. The workshop was led by Kimley-Horn, and included Authority staff, and SWFWMD. Criteria for demands, future customer demands, emergency demands and pipe sizing considerations were discussed.
- March 15, 2021 - A coordination meeting was held with Sarasota County to discuss route alternatives and to solicitate feedback. The meeting was attended by Sarasota County staff, KH, SWFWMD and Authority staff.
- March 26, 2021 – A coordination meeting was held with the City of North Port to discuss route alternatives and to solicitate feedback. The meeting was attended by City, KH, SWFWMD and Authority Staff.
- April 4, 2021 - A coordination meeting was held with the Englewood Water District to discuss route alternatives and to solicitate feedback. The meeting was attended by District, KH and Authority Staff.

- April 22, 2021 - A joint 2B/2C and 3C meeting was held to discuss the basis of route evaluation for non-cost criteria. The meeting was attended by KH, Wade Trim, and Authority Staff. Non-cost criteria will focus on, constructability, public/stake holder impacts, safety, O&M considerations, consistency with long range planning, environmental and permitting complexities, land requirements and impacts to cultural resources.
- May 12, 2021 - A project progress meeting was held. Discussion focused on scenarios for developing future demands and emergency demands for the phase 2B/2C pipelines.
- May 18, 2021 – A route reconnaissance drive through was performed to develop data for non-cost criteria such as constructability, public/stake holder impacts, land requirements and safety for route alternates analysis. Alternate routes are based on KH analysis, the 2006 Regional Integrated Loop Feasibility Study, other past studies, the 2020 Integrated Regional Water Supply Plan and feedback from discussion with stake holders along the 2B/2C pipeline(s) alignment.
- May 28, 2021 – KH met with Authority to discuss their Board Presentation for the June 2nd board meeting.
- June 2, 2021 – Board Meeting – KH presented a project update, route alternatives and feedback from regional members and customers.
- June 29, 2021 – KH submitted a draft of Technical Memorandum No. 1 (TM1) summarizing their work effort to date. TM1 discusses, integrated pipeline capacity/demands and sizing, reviews local transportation development planning, and presents alignment alternatives for further analysis. TM1 is currently being reviewed by the Authority. A follow up Work Shop for TM1 is scheduled in early August, prior to finalization, of the memorandum.
- July 19, 2021 – KH met with the Authority to discuss feedback from the Authority on the draft Technical Memorandum No. 1 including future demands, the Standard Operating Protocol procedures for regional emergencies, and alternative alignments based on earlier discussions with regional customers.
- August 4, 2021 – KH met with the Authority to discuss progress on the GIS criteria data base development for 2B/2C alternative route alignments. Each route has been subdivided into segments for analysis and evaluation.
- August 23, 2021 – A meeting was hosted by Charlotte County/Jones Edmunds, with KH and the Authority to discuss the progress of the Charlotte County Potable Water Master Plan. The discussion included updated demand projections for Charlotte County and routing alternatives.
- August 24, 2021 – KH met with the Authority to discuss the 8/23/21 meeting with Charlotte County regarding the updated potable water demand projections and potential routes discussed with Charlotte County.

- September 8, 2021 – A meeting was led by Kimley Horn, with Authority and SWFWMD staff, to discuss KH's updated Technical Memorandum No. 1 for the Feasibility and Routing Study for the 2B/2C pipeline project based upon earlier feedback from the Authority on July 19th and a subsequent meeting with Charlotte County on August 23rd. The discussion included updated Charlotte County Water Master Plan demand projections and alternative routes for crossing the Myakka River via horizontal directional drill (HDD).

Peace River Manasota Regional Water Supply Authority Regional Vision for 2035

